667 Documents

Publication numbers	Title	Current assignees
RU1787361 C	Tiltable and telescopic crop-lifting finger of harvester	KOSTENKO IVAN, ...
CN206585973U U	High altitude coconut harvester	Huang Yuan Cheng
CN203353200U U	Telescopic adjustment device of harvester stalk pushing wheel	ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY
CN106717553 A	Self-propelled dried nut picking harvester	SHIHEZI DEVELOPMENT ZONE RUIYIDA MECHANICAL EQUIPMENT
CN206909163U U	Hickory nut fruit harvester	ZHEJIANG AGRICULTURE AND FORESTRY UNIVERSITY
CN201733627U U	Telescopic tooth device of auger of header of combine harvester	JIANGSU WORLD AGRICULTURAL MACHINERY
CN207070627U U	Telescopic bullet tooth pickup suitable for peanut harvester	PUYANG NONGFA MACHINERY MANUFACTURING
CN203251643U U	Corn harvester output shaft mechanical stepless telescopic edge cutting box	TONG JUNSHENG
CN207978374U U	Leek harvester	
DK7702330 A	Maize harvester with adjustable width - has laterally telescopic central divider and outer row divider, pivoted about horizontal axis to follow ground contours	INTERNATIONAL HARVESTER
CN106068917 A	Three-wheel ratoon rice harvester with variable wheel track of front wheels and control method of three-wheel ratoon rice harvester	FUJIAN AGRICULTURE & FORESTRY UNIVERSITY
CN102523825 A	Tomato harvester	SHIHEZI GUIHANG AGRICULTURAL MACHINERY
US20080295474 A1	Central auger crop feed system for a harvester	CLAAS SELBSTFAHRENDE ERNTEMASCHINEN
CN201345826U Y	Multipole ultralight microminiature combine harvester with peculiarly flexible operation	ZHANG RIHUI
WO201635612 A1	Harvester	KUBOTA
CN207284239U U	Green feed harvester stationary knife adjusting device and self -propelled green feed harvester	WANG LIANSHAN, ...
CN205865131U U	Front wheel flexible wheel base's tricycle ratooning rice harvester	FUJIAN AGRICULTURE & FORESTRY UNIVERSITY
WO201050443 A1	Combine	KUBOTA
CN204291812U U		

Publication numbers	Title	Current assignees
	Knife feeding structure of combined harvester	XINGHUA LIYUAN AGRICULTURAL EQUIPMENT MANUFACTURING
CN206442712U U	Harvester is picked up to self -propelled dry nut	SHIHEZI DEVELOPMENT ZONE RUIYIDA MECHANICAL EQUIPMENT
CN107493807 A	Swathing method of swather connected with combine harvester in hung mode	HUNAN AGRICULTURAL UNIVERSITY
CN102160492 A	Light automatic harvester	WU DAIHUA
CN106034536 A	Hybrid mulberry harvester with stubble cutting height adjusting characteristic	SHANDONG AGRICULTURAL UNIVERSITY
WO2009147887 A1	Reaping part of a combine	YANMAR
CN107347365 A	Windrower hooked to combine-harvester	HUNAN AGRICULTURAL UNIVERSITY
CN203912602U U	Harvester	KUBOTA
JP2012060955 A	Exhaust structure of combine harvester	KUBOTA
CN101965772 A	Stalk collecting device of harvester	BIAN KANGQUN
JP2010233474 A	Chaff sieve structure in combine harvester	KUBOTA
CN203872596U U	Tip cutting device of sugarcane harvester	GUANGXI UNIVERSITY
CN106068880 A	Modern agriculture-based harvester special for peanuts	XUZHOU JIAWANG TAIRUI AGRICULTURAL TECHNOLOGY
FR2345063 A1	Mobile fruit harvester with collecting sheet - has grader drum maintained horizontal by hydraulic ram and hydraulically vibrated shaker with telescopic arms	HENNEQUIN JEAN
CN104472101 A	Floating header and combined harvester with same	NANJING RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION MINISTRY OF AGRICULTURE OF THE PEOPLE S REPUBLIC OF CHINA
CN104322214 A	Track installing base plate of combine harvester	XINGHUA LIYUAN AGRICULTURAL EQUIPMENT MANUFACTURING
CN107114072 A	Harvester oil cylinder travel limit safety device	ZOOMLION HEAVY MACHINERY
CN105532175 A	Grass discharging anti-blocking device for harvester and working method thereof	SHANDONG ACADEMY OF AGRICULTURAL

Publication numbers	Title	Current assignees
		MACHINERY SCIENCES
CN103858587 A	Combine harvester	KUBOTA
CN107258213 A	Fixed knife adjusting device of green forage harvester and self-propelled green forage harvester	WANG LIANSHAN, ...
US1410379 A	Fruit harvester	FRANK DALE
CN206728617U U	Harvester cutting platform and harvester	ZOOMLION HEAVY MACHINERY
CN104521424 A	Slope corn harvester	LIANG JUN
CN203482632U U	Corn harvester	KUBOTA
WO201021318 A1	Head-feeding combine	KUBOTA
CN106973621 A	Miniature combined harvester	NANCHONG FUPAI AGRICULTURAL MACHINERY
CN104488451 A	Foldable scraper blade type conveying arm for cutting type sugarcane harvester	SOUTH CHINA AGRICULTURAL UNIVERSITY
CA2847627 A1	Combine harvester draper header having flexible cutterbar	AGCO
WO201583651 A1	Combine	KUBOTA
CN203435361U U	Traction type potato multifunctional combine harvester	LI WEIJIA
CN201374919U Y	Multi-purpose crop harvester	DING YAOTING
CN103703924 A	Bur clover harvesting method and bur clover harvester	JIANGSU UNIVERSITY
WO201410422 A1	Tracked running gear device and harvester	KUBOTA
JP2015142536 A	Crop harvester	ISEKI NOUKI
CN103797958 A	Adjustable frame of potato harvester	HUHHOT BRANCH OF CHINESE ACADEMY OF AGRICULTURAL MECHANIZATION SCIENCES
CN107969206 A	Novel sweet-potato-harvester cleaning device	GUANGXI GUANGFU JIN TRADING
CN103858607 A	Power-driven dry and fresh fruit harvester	Yang Jian
CN204291835U U	Crawler belt mounting chassis of combine harvester	XINGHUA LIYUAN AGRICULTURAL EQUIPMENT MANUFACTURING
CN106233920 A	Self-propelled combine harvester for sunflower	Pinch, ...
CN206602848U U	Intelligent seeding harvester	Tong Xianbo
CN103141209 A	Multifunctional garlic combine harvester	Wang
CN101810078 A	Combine harvester	ISEKI AGRICULTURAL

Publication numbers	Title	Current assignees
		MACHINERY
CN203136556U U	Sugarcane harvester and tip cutting device thereof	HUNAN YUNMA HUASHENG AUTOMOBILE TECHNOLOGY
WO9946972 A1	Articulated combine	TRIBINE INDUSTRIES
CN107371555 A	Root and tuber crop digging device and harvester using same	Guo Tianwei
CN203289912U U	Chinese chestnut harvester	SANMENXIA BAI NIAN AGRICULTURAL MACHINERY MANUFACTURING
WO201602662 A1	Combine harvester	YANMAR
WO201520056 A1	Harvester and whole stalk input type combine	KUBOTA
CN106416578 A	Automatically operating unilineal crawler combine harvester of scallion	SHANDONG AGRICULTURAL UNIVERSITY
CN203136530U U	Peanut harvester	YANG XIN
CN207185206U U	Miniature garlic harvester	SHANDONG MARIA MACHINERY
CN1826851 A	Combine harvester	ISEKI
CN201585264U U	Header of corn harvester	Zhao Yong
WO2012140973 A1	Combine	YANMAR
JP2007089464 A	Combine harvester	ISEKI
CN204443129U U	Corn harvester for sloping field	LIANG JUN
CN101743802 A	Miniature rapid-assembly paddy and drought dual-purpose rice and wheat harvester	CHENGDU TIANQI METALLIC PRODUCTS
CN202799663U U	Combine harvester	ISEKI
CN104221606 A	Self-propelled vibrating forest fruit harvester and harvesting method for same	CENTRAL SOUTH UNIVERSITY
CN107278483 A	Peanut harvester	PUYANG NONGFA MACHINERY MANUFACTURING
JP2005229936 A	Traveling frame of combine harvester	ISEKI AGRICULTURAL MACHINERY
CN206851404U U	Spacing safety device of harvester cylinder stroke	ZOOMLION HEAVY MACHINERY
CN203675665U U	Overturn prevention system of grain harvester	LONG RANGE TECHNOLOGY PARK SHENYANG
CN103918407 A	Rocking and vibrating type sweet osmanthus flower	SHAANXI UNIVERSITY OF

Publication numbers	Title	Current assignees
	harvester and harvesting method	SCIENCE AND TECHNOLOGY
CN102696338 A	Adjustable straw diffuser matched with semi-feed type combined harvester	JIANGSU UNIVERSITY
CN207070628U U	Peanut harvester	PUYANG NONGFA MACHINERY MANUFACTURING
CN202857318U U	Lifting type air inlet device of engine in combine harvester	MENG HONGTAO
JP2009207480 A	Combine harvester	KUBOTA
JP2007053955 A	Grain culm-transferring device of combine harvester	ISEKI
CN203748269U U	Electric dried and fresh fruit harvester	Yang Jian
CN101836536 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
CN207022491U U	Novel chive harvester	JIANCHUAN ZHEN ZHEN FU AGRICULTURAL PRODUCTS PROCESSING
CN201663818U U	Harvester	KUBOTA
JP2013027352 A	Root vegetable harvester	ISEKI
JP2012228229 A	Combine harvester	KUBOTA
JP2013201915 A	Root crop harvester	ISEKI
CN103703935 A	Header height adjustment device of bur clover harvester	JIANGSU UNIVERSITY
WO200443135 A1	Harvester for herbs and aromatic fruits	PERESA BARTOL, ...
JP2013009649 A	Root vegetable harvester	ISEKI
KR20110109855 A	Exhaust structure of combine harvester	KUBOTA
DE2405696 A1	Device for locking the reverse of a combine harvester.	INTERNATIONAL HARVESTER
WO201477317 A1	Combine harvester	YANMAR
JP2012152135 A	Combine harvester	ISEKI
WO200447517 A1	Olives and coffee beans harvester	AGROKOLEKT D O O
WO201061668 A1	Combine	KUBOTA
CN1895019 A	Discharged culm-treating structure of whole culm-charging type combine harvester	KUBOTA
CN201479594U U	Multifunctional high efficiency harvester	ZHANG ZHILIANG
JP2003333915 A	Combined harvester	SEIREI INDUSTRY
CN107371549 A	Adjustable digging shovel for root-tuber crop harvester	CHENGDU KECHUANGGU SCIENCE & TECHNOLOGY
US20160174462 A1	Adjustable row unit deck plate for a header of agricultural harvester	CNH INDUSTRIAL
CN204317035U U	Floating cutting table and combine harvester comprising	NANJING RESEARCH

Publication numbers	Title	Current assignees
	floating cutting table	INSTITUTE OF AGRICULTURAL MECHANIZATION MINISTRY OF AGRICULTURE OF THE PEOPLE S REPUBLIC OF CHINA
JP2010124757 A	Root vegetable harvester	ISEKI
CN201957467U U	Harvester cutting platform auger retractable gear fixing device	JIANGSU WORLD AGRICULTURAL MACHINERY
CN207678284U U	A bright maize reaping apparatus for installing on autumn rice harvester	HEBEI ZHONGNONG BOYUAN AGRICULTURAL EQUIPMENT
KR20040022147 A	Self-propelled vehicle	ISEKI AGRICULTURAL MACHINERY
CN205454622U U	Harvester is arranged grass and is prevented stifled device	SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES
CN108293402 A	Radish harvester	LI CUIPING
CN2746736U Y	High speed, grain wasting proof ytpe intermediate transporter of harvester	XIE GUANGDOU
JP2009153406 A	Crop separating harvester	ISEKI
CN207369604U U	Root -tuber crops is digger blade for harvester	CHENGDU KECHUANGGU SCIENCE & TECHNOLOGY
CN103503627 A	Multifunctional trail-type potato combine harvester	LI WEIJIA
CN203691979U U	Feeding auger flexible teeth fixation structure of harvester	CHERY HEAVY INDUSTRY
CN107750576 A	Self-propelled garlic combine harvester	SHANDONG AGRICULTURAL UNIVERSITY
CN205284183U U	Small -size grain harvester combine	SHIHEZI UNIVERSITY
JP2001069843 A	Storable type footstool device for combine harvester	ISEKI AGRICULTURAL MACHINERY
CN105917853 A	Swing supporting structure	GUANGDONG KOLEA MODERN AGRICULTURAL EQUIPMENT
CN207399872U U	Improvement type agricultural harvesting machine	SICHUAN AGRICULTURAL UNIVERSITY
CN208016377U U	Multi-position fruit picker	HEBEI UNIVERSITY OF TECHNOLOGY
CN106612968 A	Harvester hydraulic main clutch device	ZOOMLION HEAVY MACHINERY

Publication numbers	Title	Current assignees
IN2011CH01173 A	An integrated sugarcane harvester	SHRI HIRANYAKESHI SAHAKARI SAKKARE KARKHANE NIYAMIT
CN204335377U U	Foldable scraper type conveying arm used for sectional sugarcane harvester	SOUTH CHINA AGRICULTURAL UNIVERSITY
CN108260409 A	Fruit harvester	Guo Yunxin
CN203851490U U	Corn harvester	KUBOTA
CN204146039U U	Harvester	KUBOTA
JP2007252260 A	Harvester	ISEKI AGRICULTURAL MACHINERY, ...
CN106068882 A	Self-propelled peanut combined harvester	XINXIANG GRAND PHARMACEUTICAL MACHINERY
CN103858598 A	Tip cutting device of sugarcane harvesting machine	GUANGXI UNIVERSITY
US4838012 A	Vegetable harvester	BOWEN III PERRY G
US3664526 A	Harvester	KELLY S DILDAY
CN108260403 A	Handheld harvester	Chen Bo Ping
CN2750640U Y	Multifunctional earthnut combined harvester	CHINESE ACADEMY OF AGRICULTURAL MECHANIZATION SCIENCES
JP2013009650 A	Root vegetable harvester	ISEKI
JP09163845 A	Combine harvester	SEIREI KOGYO
IT7851884 D0	Suspension system for harvester shaker member	UP RIGHT
JP11206228 A	Combine harvester	SEIREI INDUSTRY
JP2006158332 A	Grain culm divider for combine harvester	ISEKI AGRICULTURAL MACHINERY
CN203136537U U	Combine	KUBOTA
CN1194771 A	Rice wheat primary thresher and harvester using same	ZHENG FENG
US2661585 A	Deflector for delivery pipe	CNH GLOBAL
JP2014008026 A	Agricultural crop harvester	ISEKI
CN207185240U U	Take portable's for red date fruit picking device	XINJIANG AGRICULTURAL UNIVERSITY, ...
CN102668806 A	Manual-automatic integrated hydraulic stepless speed regulation actuating mechanism of combine harvester	JIANGSU UNIVERSITY
EP1277387 A1	Combine harvester with chopper and contiguous discharge fan	CLAAS SELBSTFAHRENDE ERNTEMASCHINEN
JP2012157268 A	Self-propelled root vegetable harvester	ISEKI

Publication numbers	Title	Current assignees
JP11299318 A	Harvester	MATSUYAMA PLOW MFG
JP2009077672 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
CN205755541U U	Cutting height adjustable hybridization mulberry harvester	SHANDONG AGRICULTURAL UNIVERSITY
CN203136532U U	Adjustable frame body of potato harvester	HUHHOT BRANCH OF CHINESE ACADEMY OF AGRICULTURAL MECHANIZATION SCIENCES
US5207277 A	Agricultural harvester	MEDLOCK HAROLD G
JP2009240333 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
CN101273686 A	Thresher	ISEKI
GB200612832 D0	Spring system for a feeder roller of a harvester	BLUE LEAF IP
WO2016147452 A1	Combine harvester	KUBOTA
JP2004147554 A	Grain culm guide apparatus for combine harvester	ISEKI AGRICULTURAL MACHINERY
CN205865080U U	Full -automatic crawler -type shallot harvester	WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY
FR1132053 A	Improvements to combine	MASSEY HARRIS FERGUSON
JP2013247877 A	Combine harvester	ISEKI
CA2558846 A1	Crop harvester having conditioning rolls	AGCO
JP11075457 A	Rhizome harvester	SEIREI INDUSTRY
JP2008178327 A	Combine harvester	YANMAR
CN202603215U U	Manual-automatic combined type hydraulic stepless speed regulating actuating mechanism of combine harvester	JIANGSU UNIVERSITY
CN201440817U U	Corn combined harvester	CHEN BANGREN
JP2004321071 A	Manually threshing work change-over system for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2006230282 A	Operating apparatus of combine harvester	ISEKI AGRICULTURAL MACHINERY
CN103460910 A	Nut type drill bit fixing sleeve of corn harvester	Zhao Songchen
JP2006158356 A	Reaping part-turning device in combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2009240330 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2008259443 A	Combine harvester	KUBOTA

Publication numbers	Title	Current assignees
JP2010246572 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2004016075 A	Grain culm transportation apparatus for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2010104381 A	Combined harvester	ISEKI
JP2009072203 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2006094771 A	Non-reaping side grass divider for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2005095040 A	Vehicle body elevator of combine harvester	ISEKI AGRICULTURAL MACHINERY
CN206611807U U	Device is plucked to hickory nut fruit	ZHEJIANG AGRICULTURE AND FORESTRY UNIVERSITY
JP2005087066 A	Cover for raising device of combine harvester	ISEKI AGRICULTURAL MACHINERY
CN1435079 A	Root vegetable harvester	NORMA AGRICULTURAL MACHINERY K K, ...
CN207099676U U	Root -tuber crops excavating gear and use device's harvester	Guo Tianwei
CN106358565 A	Twin-row self-walking track type green Chinese onion combine harvester	SHANDONG AGRICULTURAL UNIVERSITY
CN205454636U U	A pluck ear of grain device, maize header and corn harvester for gathering in maize	JOHN DEERE
CN207099679U U	Conveyor and use device's root -tuber crops harvester	Guo Tianwei
CN107318342 A	Conveying device and tuber crop harvester with conveying device	Guo Tianwei
JP2007029003 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
JP11196641 A	Rhizome harvester	SEIREI INDUSTRY
JP2008237159 A	Combine harvester	ISEKI
JP2005160449 A	Grain scatter-preventing device in combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2000135019 A	Combine harvester	SEIREI INDUSTRY
JP2012000013 A	Combine harvester	ISEKI
JP2008182991 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2013094101 A	Root vegetable harvester	ISEKI
CN207427815U U	Self -propelled garlic combine harvester	SHANDONG

Publication numbers	Title	Current assignees
		AGRICULTURAL UNIVERSITY
JP2007089480 A	Operation apparatus of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2015226519 A	Root crop harvester	ISEKI
JP2006204121 A	Reaping part-turning apparatus of combine harvester	ISEKI AGRICULTURAL MACHINERY
SU1839288 A1	Root crop harvester	BYKOV
JP2010051244 A	Vegetable harvester	ISEKI
JP2007289022 A	Reaping apparatus of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP10243726 A	Combine harvester	SEIREI INDUSTRY
CN106068875 A	Automatic crawler type welsh onion harvester	WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY
JP2005040055 A	Reaping part rotation apparatus for combine harvester	ISEKI AGRICULTURAL MACHINERY
SU2021667 C1	Multi-row root crop harvester	BELOBOKOV NIKOLAJ I
JP2003274734 A	Reaper of combine harvester	ISEKI AGRICULTURAL MACHINERY
CN207185209U U	A sliding sleeve device that is used for self -propelled peanut to pick up harvester picking up screw feeder section of thick bamboo retractable teeth	HENAN DECHANG MACHINERY MANUFACTURING
CN106258164 A	Soil dividing device of fully-automatic crawler-type shallot harvester	WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY
CN205865088U U	Native device of branch of full -automatic crawler -type shallot harvester	WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY
JP2011045325 A	Root vegetable harvester	ISEKI
US4069648 A	Tobacco harvester	TAYLOR TOBACCO ENTERPRISES, ...
US1741602 A	Cane harvester	ATHEY ISAAC H
JP2015163058 A	Crop harvester	ISEKI
JP2011050328 A	Combine harvester	YANMAR
BE-702573 A	Harvester	KUBOTA
CN106134631 A	Harvesting device based on giant magnetostrictive material	SHI JIANHUA
CN103918397 A	Self-propelled peanut picking-up and fruit picking combine harvester	QINGDAO AGRICULTURAL UNIVERSITY
CN2798538U Y	Retractable cutting platform for combine-harvester	HUZHOU STAR AGRICULTURAL MACHINERY MANUFACTURING

Publication numbers	Title	Current assignees
CN2312568U Y	Front-located wheat combined harvester	ANHUI TAIHE AGRICULTURAL MACHINERY PLANT
JP2005160383 A	Grain culm raiser for combine harvester	ISEKI AGRICULTURAL MACHINERY
CN106105540 A	Soil shoveling device of full-automatic crawler type Chinese onion harvester	WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY
JP2011152101 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
US1340461 A	Combination traction implement	ADOLPH RONNING, ...
JP2005176724 A	Device for automatically stopping reaping part of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2001178223 A	Harvester	SEIREI INDUSTRY
JP2010094132 A	Combined harvester	ISEKI AGRICULTURAL MACHINERY
JP2007330175 A	Root vegetable harvester	YANMAR
CN205865085U U	Then stop device of full -automatic crawler -type shallot harvester	WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY
JP2005073645 A	Reaping part-turning mechanism in combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2017029059 A	Root crop harvester	ISEKI
JP11235112 A	Root vegetable harvester	SEIREI INDUSTRY
JP06014629 A	Harvester	MATSUYAMA PLOW MFG
US2834171 A	Tractor mounted corn harvester	CNH GLOBAL
KR20040002444 A	Grain straw transport apparatus of combine harvester	ISEKI NOUKI
JP11137063 A	Combine harvester	SEIREI INDUSTRY
JP11266643 A	Height controller of front part of machine body in harvester	SEIREI INDUSTRY
EP2022314 A2	Transfer device for a chuff cutter	CLAAS SAULGAU
JP11289837 A	Vegetable harvester	SEIREI INDUSTRY
US4922695 A	System for mounting and supporting harvesting units of a cotton harvester	CNH GLOBAL, ...
JP09298935 A	Grass-dividing device of combine harvester	SEIREI INDUSTRY
JP2005087154 A	Traveling machine body lifting and lowering system for combine harvester	ISEKI AGRICULTURAL MACHINERY
US1466098 A	Harvester	MYERS EDWARD C
JP2009171902 A	Crop separating harvester	ISEKI AGRICULTURAL MACHINERY
JP11089369 A	Rhizome harvester	SEIREI INDUSTRY
JP09308353 A	Leaf vegetable harvester	SEIREI INDUSTRY

Publication numbers	Title	Current assignees
CN2523186U Y	Small grain combine harvester	CHI SHUTING
CN107548682 A	Upper and lower cutting tool limit mechanism for combine harvester	ANHUI POLYMERIZATION AUTOMATION ENGINEERING
JP2009022297 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2008005812 A	Field crop harvester	ISEKI
CN106171277 A	Corn harvesting machine	SHANXI AGRICULTURAL SCIENCES ACADEMY CROP SCIENCE INSTITUTE
JP2012157253 A	Combine harvester	ISEKI
CN206227003U U	Single file is from walking crawler -type shallot combine harvester	SHANDONG AGRICULTURAL UNIVERSITY
JP2012228223 A	Root vegetable harvester	ISEKI
JP2007312731 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
DE2345022 A1	Combine harvesters	MASCHINENFABRIK FAHR
CN203851472U U	Self-propelled peanut gathering and picking combined harvester	QINGDAO AGRICULTURAL UNIVERSITY
US10023389 B1	Extendable unload conveyor for combine	BLUE LEAF IP
CN106358564 A	Underground crop harvester	LI GUANGCHEN
CN202488984U U	Multipurpose root crop harvester	CHEN YUJUN
US5031392 A	Elevator assembly and slewing mechanism for cane harvester	AUSTOFT INDUSTRY
JP2001269036 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
US4629005 A	Bulb, root, and leafy vegetable harvester	CLEMSON UNIVERSITY
CN107439143 A	Greenhouse truss tomato harvester and harvesting method	CHINA AGRICULTURAL UNIVERSITY
JP2006174763 A	Harvester	ISEKI AGRICULTURAL MACHINERY
CN204681896U U	Combine	ISEKI
JP2009065986 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
JP09298934 A	Reaper of combine harvester	SEIREI INDUSTRY
JP2006204120 A	Apparatus for turning reaping part of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2006121945 A	Raising up transmission device of combine harvester	ISEKI AGRICULTURAL MACHINERY

Publication numbers	Title	Current assignees
JP2002125438 A	Cereal stalk separating unit for combined harvester	ISEKI AGRICULTURAL MACHINERY
JP11243746 A	Combine harvester	MITSUBISHI AGRICULTURAL MACHINERY
US2529515 A	Celery harvester	SILVA WILLARD C
CN201557387U U	Novel cassava harvester	AGRO MACHINERY RESEARCH INSTITUTE OF CHINESE ACADEMIC OF TROPICAL AGRICULTURAL SCIENCES
US2482530 A	Harvester	JOANNA WURTELE, ...
CN107318339 A	Soil cutting driving and soil compressing adjusting device for potato harvester	CHINA AGRICULTURAL UNIVERSITY
FR1128352 A	For a tractor Harvester	MASSEY HARRIS FERGUSON
JP2004033055 A	Grain straw transport device of combine harvester	ISEKI AGRICULTURAL MACHINERY
CN108271509 A	Automatic harvester for leaf vegetables	INSTITUTE OF LASER & OPTOELECTRONIC INTELLIGENT MANUFACTURING WENZHOU UNIVERSITY
JP2009213494 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2000157023 A	Rootstock harvester	SEIREI INDUSTRY
JP11178419 A	Rhizome harvester	SEIREI INDUSTRY
JP09289817 A	Leaf vegetable harvester	SEIREI INDUSTRY
JP2010081801 A	Crop separating harvester	ISEKI
US2463447 A	Beet harvester	DEERE
CN107484495 A	Leek harvester	SHANDONG AGRICULTURAL UNIVERSITY
CN2465448U Y	Self-propelling full-feeding combine harvester with rear-mounted thresher	HUNAN AGRICULTURAL MACHINERY RESEARCH INSTITUTE
JP2000308411 A	Transmission gear for grain storage tank for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2001178234 A	Harvester	SEIREI INDUSTRY
JP2001178232 A	Harvester	SEIREI INDUSTRY
JP2007195456 A	Combine harvester	ISEKI AGRICULTURAL

Publication numbers	Title	Current assignees
		MACHINERY
JP2007060955 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
CN207099681U U	Self -propelled peanut harvester pickup	HENAN LONGFEI AGRICULTURAL MACHINERY
CN201630019U U	Watermelon harvester	HENAN AGRICULTURAL UNIVERSITY
JP2002065028 A	Side divider of combine harvester	YANMAR AGRICULTURAL EQUIPMENT
JP2000078926 A	Device for cutting leaf and stem of harvester for rhizomatic crop	SEIREI INDUSTRY
CN206260290U U	Self -propelled shallot combine harvester's native device of branch	SHANDONG AGRICULTURAL UNIVERSITY
US4947628 A	Multiple row cotton harvester	CASE EQUIPMENT, ...
JP2007116915 A	Harvester	KOBASHI KOGYO
CN206227002U U	Double row is from walking crawler -type shallot combine harvester	SHANDONG AGRICULTURAL UNIVERSITY
CN206402698U U	Underground crops harvester	LI GUANGCHEN
JP2015043722 A	Crop harvester	ISEKI
JP2014128209 A	Crop harvester	ISEKI
US5916112 A	Guide link for a rotatable harvester gearbox	BLUE LEAF IP
JP2005218363 A	Apparatus for conveying grain culm of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP11243748 A	Raising up device for grain culm of combine harvester or the like	ISEKI AGRICULTURAL MACHINERY
JP2012205527 A	Crop harvester	ISEKI
JP2001069838 A	Sugarcane harvester	YONAHA TERUYOSHI
DE4009981 A1	Ascertaining amt. of useful product in mixt. - removing unwanted components by washing and measuring mass by measuring vol	DEERE
JP2003009631 A	Apparatus for separating grain culm of combine harvester	ISEKI AGRICULTURAL MACHINERY
DE2706260 A1	Top feeler for sugar-beet harvester - consists of wheel and deflector wheel around which runs continuous belt or chain	BOLLMANN HEINRICH
JP2016032451 A	Crop harvester	ISEKI
CN103814683 A	Grain conveying device and combine-harvester with grain conveying device	STAR AGRICULTURAL MACHINERY

Publication numbers	Title	Current assignees
CN108184437 A	Radish harvesting method	LI CUIPING
JP2003310030 A	Harvester for head formation vegetable	SEIREI INDUSTRY
JP2010142178 A	Root crop harvester	ISEKI AGRICULTURAL MACHINERY
JP2000116220 A	Reaping harvester	MITSUBISHI AGRICULTURAL MACHINERY
US4300333 A	Harvester with a crop conveyor means	DEERE
CN207284237U U	Chinese chive harvester	SHANDONG AGRICULTURAL UNIVERSITY
JP2003310032 A	Reaping machine for combine harvester	ISEKI AGRICULTURAL MACHINERY
GB-878398 A	Improvements in forage harvesters	LUNDELL GREAT BRITAIN
JP2005034103 A	Root crop harvester	SEIREI INDUSTRY
JP2002078409 A	Harvester	ISEKI AGRICULTURAL MACHINERY
JP09215428 A	Dividing device of combine harvester	SEIREI INDUSTRY
CN102027833 A	High speed combined harvesting and planting management machine	CAO ANBAI
US1933881 A	Cotton harvester	DEERE
DE3529231 A1	Sugar-cane harvester	VERSATILE TOFT
CN206909139U U	Piece root crop harvester	INNER MONGOLIA ACADEMY OF AGRICULTURAL & ANIMAL HUSBANDRY SCIENCES
JP11299327 A	Height-controlling apparatus for pretreating part of harvester	SEIREI INDUSTRY
WO2009144990 A1	Threshing apparatus	KUBOTA
JP2008061502 A	Root vegetable harvester	YANMAR
JP2018033328 A	Vegetable harvester	ISEKI
JP2001178228 A	Height-adjusting device in pre-treating part of harvester	SEIREI INDUSTRY
JP2013074816 A	Self propelled root vegetable harvester	ISEKI
US2111323 A	Ensilage harvester	DEERE
JP2001178230 A	Height-adjusting device for front part of machine frame in harvester	SEIREI INDUSTRY
JP2001178229 A	Root vegetable harvester	SEIREI INDUSTRY
JP2015000028 A	Corn harvester	KUBOTA
JP2007330176 A	Root-cutting off guide for root vegetable harvester	YANMAR
JP2004081073 A	Lubricating system for combine harvester	ISEKI AGRICULTURAL

Publication numbers	Title	Current assignees
		MACHINERY
CN2407568U Y	Primary threshing rice and wheat harvester	ZHENG FENG
JP11243745 A	Head formation vegetable harvester	SASAKI, ...
JP11239406 A	Harvester for vegetable with formed head	SASAKI, ...
JP10276540 A	Head formation vegetable harvester	SEIBUTSUKEI TOKUTEI SANGYO, ...
JP11239407 A	Harvester for vegetable with formed head	SASAKI, ...
EP--92013 A1	Harvesting and chopping device	DEERE
JP2002335729 A	Transfer apparatus of crop harvester	ISEKI AGRICULTURAL MACHINERY
CN108575253 A	Deep root crops a harvester	QINGDAO TECHNOLOGICAL UNIVERSITY
JP2002171815 A	Transfer apparatus for harvester	ISEKI AGRICULTURAL MACHINERY
JP2001169634 A	Rhizome harvester	SEIREI INDUSTRY
JP2003018906 A	Vegetable harvester	SEIREI INDUSTRY
JP2004229513 A	Reaper-driving apparatus of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP09215429 A	Dividing device of combine harvester	SEIREI KOGYO
US2004713 A	Harvester	DEERE
CN206181836U U	Little berry harvester with fruit branch clamping device and fruit receiving arrangement	NORTHEAST AGRICULTURAL UNIVERSITY
JP2001292621 A	Reaper-supporting device of combine harvester	ISEKI AGRICULTURAL MACHINERY
FR2358091 A1	Grape harvester which straddles vine row - has beaters mounted on vertical shaft driven by variable length link connected eccentrically to rotating disc	CALVET PIERRE
US1946542 A	Cotton harvester	DEERE
CN205510917U U	Crawler -type oil tea fruit harvester	ANHUI AGRICULTURAL UNIVERSITY
CN104396434 A	Lower cutter structure for combine harvesters	XINGHUA LIYUAN AGRICULTURAL EQUIPMENT MANUFACTURING
JP2014198010 A	Corn harvester	KUBOTA
CN2749241U Y	Peanut seedling transferring and clamping device of peanut harvester	LU SHUIREN
JP11178426 A	Grain culm raising apparatus for combine harvester or the	ISEKI AGRICULTURAL

Publication numbers	Title	Current assignees
	like	MACHINERY
JP2004024137 A	Narrow guide mechanism for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2004065168 A	Narrow guiding device of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2002101734 A	Apparatus for separating grain culm of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2001211722 A	Dew remover for combined harvester	ISEKI AGRICULTURAL MACHINERY
JP2004000072 A	Reaping transmission gear of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2010259398 A	Leaf vegetable harvester	NISHIZAWA
JP10098928 A	Combine harvester	SEIREI KOGYO
JP2002017139 A	Raising device of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2006061121 A	Air cleaner of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2001037315 A	Grain culm transportation apparatus for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2014195434 A	Crop harvester	ISEKI
JP2002065026 A	Harvester for vegetable with formed head	SEIREI INDUSTRY
GB1089472 A	Beet harvesters	INTERNATIONAL HARVESTER
JP2004033011 A	Apparatus for raking in and transferring grain culm of combine harvester	ISEKI AGRICULTURAL MACHINERY
US2516470 A	Beet harvester	CLAUDE A LOUCKS, ...
JP2003052215 A	Container box stacking device for crop harvester	ISEKI AGRICULTURAL MACHINERY
JP2001169632 A	Rhizome harvester	SEIREI INDUSTRY
JP2002065025 A	Harvester for vegetable with formed head	SEIREI INDUSTRY
JP2002058318 A	Head-formed harvester	SEIREI INDUSTRY
JP2002058317 A	Head-formed vegetable harvester	SEIREI INDUSTRY
CN108934397 A	Miniature garlic a harvester	NINGBO XIEYA AGRICULTURAL EQUIPMENT MANUFACTURING
CN208143837U U	Leafy vegetables harvester automatically	WENZHOU UNIVERSITY
CN2078964U U	Fruit collector	WONG KAM
US3389542 A	Strawberry harvester	CARL E. RASMUSSEN

Publication numbers	Title	Current assignees
JP2005160307 A	Grain unloading controller of combine harvester or the like	ISEKI AGRICULTURAL MACHINERY
GB-363800 A	Cotton harvesting machine	COTTON HARVESTER OF AMERI
US3563016 A	Sensing unit for a grape harvester for enabling the cutting apparatus to follow the surface to be worked	ALEXANDR NIKOLAEVICH VARFOLOME, ...
JP2005333926 A	Apparatus for raising and turning combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2003116329 A	Hydraulic system of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2007117007 A	Apparatus for conveying grain culm in combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2001333620 A	Grain culm raising apparatus for combine harvester	ISEKI AGRICULTURAL MACHINERY
SU-673233 A1	Divider to flax harvester	VNII LNA
NL6608501 A	Mowing machines	C VAN DER LELY MAASLAND
JP2002233230 A	Grain stalk conveyor for combined harvester	ISEKI AGRICULTURAL MACHINERY
CN206879457U U	Micro combine	NANCHONG FUPAI AGRICULTURAL MACHINERY
US4049058 A	Sugar beet harvester	ALLOWAY MANUFACTURING
CN104429364 A	Handheld type fruit beating rod	ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY
GB1058191 A	Improvements in beet or like root crop harvesters	JOHN DOUGLAS DYSON, ...
CN204305646U U	Handheld fruit knocking rod	ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY
US2977743 A	Rotary wheel raking device	DAFFIN
JP2003225013 A	Travel operation apparatus of combine harvester	ISEKI AGRICULTURAL MACHINERY
FR1544640 A	Combine detachable header	DEERE
JP2003116328 A	Capacitor-attaching device of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2002209422 A	Device for guiding hot air of engine in combine harvester	ISEKI AGRICULTURAL MACHINERY
CN2306640U Y	Combine	TIAN JIANLIANG

Publication numbers	Title	Current assignees
JP2004305178 A	Reaping lever-switching device in combine harvester	ISEKI AGRICULTURAL MACHINERY
SU1209069 A1	Digging working member for root harvester	IZHEV SELSKOKHOZ I
BR102014015608 A1	Harvesting machine	KUHN
CN108353607 A	Harvesting mechanism	LI CUIPING
JP2004049018 A	Narrow guide apparatus of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2005000046 A	Machine body elevation-stopping device in root vegetable harvester	SANEI KOGYO
SU1558333 A1	Transporter of root crop harvester	PROIZV OB YUZHN URAL N
CN108353610 A	Leaf cutting mechanism	LI CUIPING
CN108353608 A	Material dispersing and pulverizing mechanism	LI CUIPING
CN206165193U U	Self -propelled sunflower combine	Pinch, ...
JP2002084848 A	Harvester	ISEKI AGRICULTURAL MACHINERY
US4662812 A	Bin unloader with oblique pivot axis	DEUTZ ALLIS, ...
CN1173271 A	Waste straw-nipping and conveying machine	KUBOTA
CN106688438 A	Wheel-type landform imitation header	ZHU JIHUA
CN2722592U Y	Pea nut combine	SHANDONG SHUANGLI
DK7601984 A	Haymaking machine for the tedding and windrowing of fodder	KUHN
CN208029471U U	Hand-held harvesting machine	ZHEJIANG YILE POWER TECHNOLOGY
DE2614618 A1	IMPROVEMENTS TO ROTARY MOWERS	INTERNATIONAL HARVESTER
US3121986 A	Harvester	ALLIS CHALMERS MANUFACTURING
JP2001197822 A	Grain culm conveyor for combine	ISEKI AGRICULTURAL MACHINERY
CN207185231U U	Hay harvest machine	GANSU HUALING AGRICULTURAL SCIENCE & TECHNOLOGY DEVELOPMENT LIABILITY
JP2001299052 A	Grain culm conveyor for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP09205855 A	Combine harvester	KUBOTA
US3785131 A	Fruit harvesting apparatus	FRIDAY D, ...
EP1002455 A2	Process and device for adjusting a sensor unit relative to a field working machine	CLAAS SELBSTFAHRENDE ERNTEMASCHINEN

Publication numbers	Title	Current assignees
US5088274 A	Cotton conveying structure for a cotton harvester	CNH GLOBAL, ...
CN208210716U U	Function of a peanut combine having a baled	HENAN HAOFENG AGRICULTURAL EQUIPMENT
FR2277526 A1	Grape harvester with pair of rotary beaters - has tangential arms on inclined beater shafts revolving about vert axes	PONZO BARTHELEMY
GB-626413 A	Improvements in or relating to harvesting machines	INTERNATIONAL HARVESTER
CN108353613 A	Carding mechanism	LI CUIPING
IT8348652 D0	Maize harvester gathering head	HESSTON
CN2552317U Y	Combine for grain	CHI SHUTING
CN104885708 A	Telescopic shifting finger protecting cover structure for spiral pushing and conveying device and mounting mode	XIHUA UNIVERSITY
WO201589574 A1	A cutting apparatus	HICKLING RAYMOND, ...
NL7305169 A	Mowing machines	C VAN DER LELY
JP2002112616 A	Grain culm separatory device for combine harvester	ISEKI AGRICULTURAL MACHINERY
GB-872740 A	Improvements in or relating to machines for use in topping beet and like root crops	F A STANDEN & SONS, ...
JP2002191225 A	Cereal grain-discharging unit of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2002051626 A	Raising apparatus for combine harvester	ISEKI AGRICULTURAL MACHINERY
CN107172966 A	Cotton straw crushing and compressing robot	Han Dengyin
JP2002125441 A	Grain straw transfer device of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2001292620 A	Reaper-supporting device of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2000236731 A	Structure for grass dividing rod for combine harvester	SEIREI INDUSTRY
JP2000166348 A	Grain culm cutting unit for combine harvester or the like	ISEKI AGRICULTURAL MACHINERY
US3808784 A	Reverse lockout	INTERNATIONAL HARVESTER
JP2002305937 A	Grain culm conveyor for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2001258364 A	Grain culm conveying device for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2001090567 A	Emergency engine stop device for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2000188931 A	Grain culm feeder for combine harvester or the like	ISEKI AGRICULTURAL

Publication numbers	Title	Current assignees
		MACHINERY
DE19942590 A1	Processing, compressing, transport and storage of agricultural products is carried out in container with walking press unit	EGGENMUELLER ALFRED
JP2000188933 A	Grain culm separator for combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2002218821 A	Culm transport device of combine harvester	ISEKI AGRICULTURAL MACHINERY
WO201389224 A1	Cereal stalk reaping apparatus	YANMAR
JP2001086836 A	Grain culm gathering device for combine harvester of the like	ISEKI AGRICULTURAL MACHINERY
SU1553028 A1	Root and tuber harvester digging member	RADUNTSEV ANATOLIJ M
CN205847982U U	Self -walking type peanut combine	XINXIANG GRAND PHARMACEUTICAL MACHINERY
JP2003250324 A	Grain culm transportation apparatus for combine harvester	ISEKI AGRICULTURAL MACHINERY
IT8348651 D0	Maize harvester gathering head	HESSTON
CN206547337U U	Wheeled imitative topography header	ZHU JIHUA
CN103355049 A	Intercropped garlic digging machine	XUZHOU QIAOLI GRANVILLE NEW MACHINERY FACTORY
CN205142899U U	But tea -leaf picker of leaf is held up to roll adjustment	YONGKANG WEILI GARDEN MACHINERY
CN2328169U Y	Double layer cutter for combine	FENG SHIZHANG, ...
FR1433626 A	Hydraulic propulsion drive mechanism	INTERNATIONAL HARVESTER
US20170094909 A1	Method and Apparatus for Harvesting Produce	AMRITA VISHWA VIDYAPEETHAM
GB-662804 A	Improvements relating to the harvesting of beet and like root crops	F A STANDEN & SONS, ...
JP2001190134 A	Running device for combine harveste	ISEKI AGRICULTURAL MACHINERY
CN1596581 A	Multifunction hand peanut pick-up combine harvestor	Wang Yanzhong
CN108834554 A	Cane harvesting machine materials collection and discharge device and a sugar cane harvesting machines	ZOOMLION HEAVY MACHINERY
CN207099702U U	It is quick -witted with haymaking that combine articulated	HUNAN AGRICULTURAL UNIVERSITY
WO2018208142 A1	Harvesting and crop care machine	BIN HALIM RASIP AMIN
CN107493803 A	High-efficiency agricultural harvesting device	Chen Xiangang

Publication numbers	Title	Current assignees
GB-332457 A	Improvements in trailer mowers	INTERNATIONAL HARVESTER
CN108353609 A	Root digging mechanism for agricultural machinery	LI CUIPING
KR20180091333 A	Apparatus for harvesting fruits	KIM MI JEONG, ...
GB9708139 D0	Dual hydraulic oscillator for the reciprocating cutter of an agricultural machine	SAUER SUNDSTRAND CONTROL CONCEPTS
CN203136570U U	Packing auger crank arm of cutting machine cutting bed	JIANGSU WORLD AGRICULTURAL MACHINERY
FR1479321 A	Security system for a mower	INTERNATIONAL HARVESTER
CN105940860 A	Novel tea picking machine system	YANGTZE NORMAL UNIVERSITY
CN205017856U U	A header and combine for combine	JOHN DEERE
NL6713454 A	Loading car with takeup member operating outside the vehicle track	WEICHEL ERNST
CN204860079U U	Exempt from stifled chaffcutter	CHANGZHOU HANSEN
CN205454668U U	Combine gap bridging	SICHUAN AGRICULTURAL UNIVERSITY
CN206866058U U	Bracing piece with adjustable miniature combine reel	NANCHONG FUPAI AGRICULTURAL MACHINERY
CA2881628 A1	Air blast soft fruit harvesting device	KOKANOVIC MARKO, ...
RU--15832 U1	[steblepodemnik]	
CN104303706 A	Intelligent tea leaf picking machine	NANJING RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION MINISTRY OF AGRICULTURE OF THE PEOPLE S REPUBLIC OF CHINA
CN207733262U U	Kiwi fruit is planted and is picked device	Zhang Daogao
CN106922299 A	Hickory fruit harvesting machine	ZHEJIANG AGRICULTURE AND FORESTRY UNIVERSITY
CN105474862 A	Clay soil peanut harvesting separator	HEXIAN LYVYUAN VEGETABLE PLANTING
US3898786 A	Air delivery foliage wagon	LUNDAHL
CN106900262 A	Harvesting machine of sugar beets and carrots	DATONG CITY MECHANIZED AGRICULTURAL

Publication numbers	Title	Current assignees
		ECOLOGICAL PROJECT EXPERIMENTAL MANAGEMENT STATION
JP2008054551 A	Combine	ISEKI AGRICULTURAL MACHINERY
FR2687039 A1	Mower with an improved locking device	KUHN
US2780903 A	Platform adjusting means for sidehill harvesters	DEERE
NL6716349 A	Improvements in or relating to mowing machines	BRITISH LELY FORMERLY BLAN
CA2949065 A1	Hydraulic conditioner roll tension in pull-type mower conditioner	AGCO
NL7305170 A	Device for working plants located on the ground	C VAN DER LELY
BE-733926 A	Improvements in or relating to harvesting machines	CLAYSON
CN104115619 A	Grain supporting device of machine for harvesting maize in not opposite lines	SHANDONG UNIVERSITY OF TECHNOLOGY
GB-841395 A	An improvements in or relating to harvesting machines	HARRISON MCGREGOR & GUEST
BR102016009056 A1	Flexible cutterbar assembly for a harvesting platform	ALLOCHIS JOSE LUIS, ...
JP11299329 A	Apparatus for laterally shifting reaping part of combine	KUBOTA
CN108496540 A	Low-loss rape cutting station	JIANGSU UNIVERSITY
AR--77076 A1	Self-unloading vehicle with hydraulic system	NEUF AGRICOLE
CA2030728 A1	A mower having a lightening mechanism.	KUHN
JP2007319026 A	Cereal culm-conveying device of combine	ISEKI AGRICULTURAL MACHINERY
CN104663123 A	Balancing device and mustard harvesting device comprising same	NINGBO SPECAR MANUFACTURING
JP2002053083 A	Mobile agricultural machinery	YANMAR
CN204408943U U	Seedling aligning and cutting device for carrot harvesting machine	QINGDAO AGRICULTURAL UNIVERSITY
CN205902411U U	Retractable kiwi fruit fruit picking manipulator arm	NORTH WEST AGRICULTURE & FORESTRY UNIVERSITY
CA2853947 A1	Harvesting header knife drive assembly	HONEY BEE MANUFACTURING
CA2226656 A1	An agricultural cutting machine comprising an improved suspension device for the cutting mechanism	KUHN
FR2946832 A1	Small fruits collecting method, involves unrolling flexible cover by injection of compressed air into inflatable flexible tubes from distal ends of tubes, where tubes are integrated to cover and extended from one end to another end of cover	PELLENC IBERICA

Publication numbers	Title	Current assignees
EP1911342 A2	Height sensor for a header	MASCHINENFABRIK KEMPER
EP-250650 A1	Header for harvesting machine	FORD NEW HOLLAND
CN207754115U U	Walnut picking device	GUIZHOU PROVINCE WALNUT INSTITUTE, ...
JP2007110922 A	Cereal culm-conveying device in combine	ISEKI AGRICULTURAL MACHINERY
US2608310 A	Discharge elevator for harvesters	DE PENNING HAROLD E
CA2391254 A1	A pull-type agricultural machine, in particular a mower	DEERE
US2940615 A	Tobacco harvesting device	LONG MANUFACTURING
JP2006034230 A	Reaper-rotating device of combine	ISEKI
US3555799 A	Tree shaking mechanism	FARMHAND
CN108684290 A	Method for agricultural harvesting machines of the row arrangement and method of use	Gao Minmin
US4539798 A	Apparatus and method for conveying and/or treating crop	BTG - BRITISH TECHNOLOGY GROUP
GB-614144 A	Improvements in or relating to machines for agricultural, land-working, mining and other purposes	HARRY WILLIAMS HAMLETT
CN204741813U U	Feeding backpack side bale straw baling machine	HENAN ZHONGQI AGRICULTURAL MACHINERY SCIENCE & TECHNOLOGY
US2736152 A		
US2751739 A	Beet topping drive means	DEERE
CN207443498U U	A reaping apparatus for when rice is emptyd	Wu Hongli
CN107820843 A	Harvesting device used when rice topples	YANG LIMING
US4207727 A	Harvesting device	POYTRESS RODERICK J
IN2012MU01722 A	Fruit harvesting device	PANJABRAO DESHMUKH KRISHI VIDYAPEETH
CN103262704 A	Real-time peanut output measuring device	QINGDAO AGRICULTURAL UNIVERSITY
FR2066011 A5	Attachment for a utility vehicle or for a trailer of such vehicle	SCHMIDT ALFRED FA
US1734391 A	Corn picker	INTERNATIONAL HARVESTER
JP2004024134 A	Operating lever device of combine	ISEKI AGRICULTURAL MACHINERY
CN106358590 A	Self-propelled tea picking device	HEBEI UNIVERSITY OF TECHNOLOGY
CN106211937 A	Method for harvesting green Chinese onion	WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY

Publication numbers	Title	Current assignees
CN203015474U U	Multifunctional modularized sugarcane combined tillage machine	TAN ZHENWEI
RU2177682 C2	Pneumatic grain combine	SIDOROV NIKOLAJ ANDREEVICH
JP2007166920 A	Combine	ISEKI AGRICULTURAL MACHINERY
US3266609 A	Rotating elbow construction for discharge spouts and the like	INTERNATIONAL HARVESTER
JP2004208655 A	Cereal culm-conveying device of combine	ISEKI AGRICULTURAL MACHINERY
JP11098908 A	Furrow traveling apparatus	KUBOTA
JP11089371 A	Furrow traveling apparatus	KUBOTA
JP2008000068 A	Combine	ISEKI AGRICULTURAL MACHINERY
CN204707502U U	Crawler attachment and cane cutting machine	ZOOMLION HEAVY MACHINERY
EP1795064 A1	Device for harvesting olives, fruit or the like	CAMPAGNOLO
RU2558181 C1	Catching device of berry-harvesting machine	OZHEREL EV VIKTOR NIKOLAEVICH
JP3028481 B1	Work vehicle	YANMAR AGRICULTURAL EQUIPMENT, ...
US3043076 A	Windrower support assembly	HORACE D HUME
CA2647635 A1	Suspension arrangement for rear castered wheels on a work machine	DEERE
JP2006204170 A	Cereal culm-raising up device of combine	ISEKI AGRICULTURAL MACHINERY
US2488592 A	Combine having sidehill platform adjustments	CNH GLOBAL
JP2009017790 A	Root vegetable digging and collecting machine	ISEKI
RU2181536 C1	Stalk lifter	TUL SKIJ KOMBAJ AOOT, ...
DE202006013726 U1	Device for picking all tree fruit comprises a cutting unit, a fruit catching/storing unit, an operating unit and a connector unit	MAIDL FRANZ
US4972664 A	Combine attachment	FREY JEFFREY R
CN105612926 A	Vibration and separation device and grape harvesting machine	SHIHEZI UNIVERSITY
CN104604444 A	Guide vane adjusting device for straw smashing and dispersing returning machine	CHINA AGRICULTURAL UNIVERSITY
JP2002347669 A	Traveling device for combine	ISEKI AGRICULTURAL MACHINERY
US2509371 A	Machine for harvesting green peas	CNH GLOBAL
JP2003182631 A		

Publication numbers	Title	Current assignees
	Combine operating cabin device	ISEKI AGRICULTURAL MACHINERY
JP2003159956 A	Device for mounting clutch lever of combine	ISEKI AGRICULTURAL MACHINERY
US20100192513 A1	Bale lump eliminator for a round cotton module baler	DEERE
US2610460 A	Paddle wheel reinforcement means	HENDRICKSON EDWARD O
CN108522019 A	Bushy fruit harvesting machine	CHANGZHOU JIA YUN MACHINERY
FR1106383 A	Improvements to combine	BAMFORDS
JP11075482 A	Collecting device in bundling machine	ISEKI AGRICULTURAL MACHINERY
US1712821 A	Reaper thrasher	MASSEY HARRIS
CN205142898U U	But light -duty tea -leaf picker of roll adjustment	YONGKANG WEILI GARDEN MACHINERY
KR20180080521 A	Harvesters for root crop	LIM JU SAENG
CN106605496 A	Electric fruit collection rod	Lin Zhong
US2924466 A	Adjustable draft member	DEERE
CN103947384 A	Grass raking device	HANGTIAN XINCHANGZHENG ELECTRIC AUTOMOBILE TECHNOLOGY, ...
JP2015073438 A	Crop harvesting machine	ISEKI
FR1521467 A	Apparatus for picking up bales of straw or the like	ANCIENS ETABLISSEMENTS EUGENE
EP3326448 A1	Agricultural machine with a pickup device	KNUESEL JOSEF
BR102014003603 A1	Device of guided work manually	ANDREAS STIHL
DE2144813 A1	Crop gathering and converging reel	FORD NEW HOLLAND
JP10287249 A	Tilt type steering wheel device	YANMAR AGRICULTURAL EQUIPMENT
US3455502 A	Fruit picker	CNH GLOBAL
CN205213435U U	Vibration separating device and grape harvesting machine	SHIHEZI UNIVERSITY
WO201619558 A1	Combined machine for harvesting stubbles and preparing soil	JIAMUSI UNIVESITY
US2539881 A	Topping means for beet harvesters	WILKINS EDWARD L
DE202013001236 U1	Parent corn plant in narrow track vehicle for harvesting maize plant host gate	AGENTUR FUER NACHHALTIGE NUTZUNG VON AGRARLANDSCHAFTEN ANNA PARTNERSCHAFT

Publication numbers	Title	Current assignees
		MIT DEN GESELLSCHAFTERN, ...
DE202011107895 U1	System for harvesting fruit and shaking case	GRUBER MICHAEL
JP10117558 A	Grass dividing structure for combine	KUBOTA
US1442032 A	Bottom-cutting and trash-impelling means	LUCE CANE HARVESTER
US2458299 A	Cane harvesting machine	POWERS GEORGE S
CN107509468 A	Oilseed rape picking-up device	NANJING RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION MINISTRY OF AGRICULTURE OF THE PEOPLE S REPUBLIC OF CHINA
JP2002253030 A	Safeguard of grass-separating rod in reaper of planted stem and calm crop	HOKKAI NOKI
US1761265 A	Reaper thrasher	MASSEY HARRIS
JP2003125632 A	Culm-separating unit of combine, etc.	ISEKI AGRICULTURAL MACHINERY
SU-801782 A1	Vegetable harvesting machine	GOL SP MASHINAM DLYA OVOSH
US3535859 A	Header construction for combines and the like	CNH GLOBAL
GB-724997 A	Cropping and pruning machine	HAROLD EDGAR GLEED
US2610560 A	Hitch for implements and vehicles	DEERE
JP2014036586 A	Crop stem mower and plant-dig out machine	ISEKI
JP2003158911 A	Operation cabin of combine	ISEKI AGRICULTURAL MACHINERY
JP2001045837 A	Apparatus for attaching dew shake-off of combine	ISEKI AGRICULTURAL MACHINERY
JP2001045838 A	Apparatus for attaching dew shake-off motor of combine	ISEKI AGRICULTURAL MACHINERY
JP2000043568 A	Cabin door fitting device for combine and the like	ISEKI AGRICULTURAL MACHINERY
JP10313658 A	Threshing device of combine	YANMAR AGRICULTURAL EQUIPMENT
JP10150836 A	Waste straw binding device for combine	SEIREI INDUSTRY
JP11079018 A	Crawler travel device for movable agricultural machine	MITSUBISHI AGRICULTURAL MACHINERY
BR200804340 A1	Grapple attachment for handling wrapped round modules and including a wrap cutter	DEERE

Publication numbers	Title	Current assignees
JP2000166362 A	Culm-nipping and conveying device of threshing machine	ISEKI AGRICULTURAL MACHINERY
CN106976488 A	Wheel-crawler walking device for sugarcane harvester	GUANGXI TIANHUA HIGH TECHNOLOGY
CN203958346U U	Fixing device of cab and combine harvester with fixing device	CHERY HEAVY INDUSTRY
JP2005263163 A	Fallen mud cleaning device for combined harvester and thresher	ISEKI AGRICULTURAL MACHINERY
JP2005000012 A	Direction controller for combine harvester or the like	ISEKI AGRICULTURAL MACHINERY
CN207208239U U	Cane cutting machine wheel -track running gear	GUANGXI TIANHUA HIGH TECHNOLOGY
JP2007216703 A	Combine harvester	ISEKI
JP11113373 A	Binding machine of combine harvester or the like	ISEKI AGRICULTURAL MACHINERY
CN1679387 A	Grain unloading apparatus of combine harvester or the like	ISEKI AGRICULTURAL MACHINERY
JP06030623 A	Reaping height detector for combine harvester	YANMAR AGRICULTURAL EQUIPMENT
JP2011079498 A	Combine	YANMAR
JP2008154556 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2001320947 A	Cereal grain exhauster in combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2001145416 A	Apparatus for transporting grain culm for combined harvester	ISEKI AGRICULTURAL MACHINERY
CN206439319U U	Automatically controlled hydraulic control mechanism of traction clutch for harvester	LUOYANG FERGUSON MECHANICAL EQUIPMENT
JP2004357579 A	Waste straw conveying apparatus for combine harvester	ISEKI
NL7303531 A	Convertible agricultural implements and machines	C VAN DER LELY
JP2007055437 A	Combine harvester	ISEKI AGRICULTURAL MACHINERY
JP2010006228 A	Seat support structure of combine harvester	ISEKI AGRICULTURAL MACHINERY
JP10150835 A	Waste straw binding device for combine	SEIREI INDUSTRY
JP2001037324 A	Grain transportation apparatus for thresher	ISEKI AGRICULTURAL MACHINERY
GB-988160 A	A coupling device for connecting a tractor with an agricultural implement	UGERLOSE MASKINFABRIK V LILLY
KR20020091757 A	Screening device of combine harvester	SEIREI INDUSTRY, ...

Publication numbers	Title	Current assignees
JP2006000014 A	Apparatus for transporting granule	ISEKI AGRICULTURAL MACHINERY
JP2006094777 A	Powder and grain conveyer	ISEKI AGRICULTURAL MACHINERY
KR20100105452 A	Grain dispensing device	KUBOTA
JP2008049962 A	Running system of working vehicle	ISEKI AGRICULTURAL MACHINERY
CN105706592 A	High-speed collection and removal precision and fine seeding machine, remote-control seeding machine, collection screening machine, integration harvesting machine, harvesting and seeding machine, vermicelli baking machine and product	LIANG CHENGYONG
JP2006056392 A	Moving vehicle	SEIREI INDUSTRY
GB8602699 D0	Agricultural implement and method of cropping	HARPLEY ENGINEERING
CA2030765 A1	Farm machine having a deformable suspension mechanism.	KUHN
CA2645693 A1	Steering assist for a rear caster wheel on a work machine	DEERE
US2533793 A	Rotary plow and screen	WILLIAMS HAMLETT HARRY
JP2001161110 A	Crawler traveling car	YANMAR AGRICULTURAL EQUIPMENT
CN103029132 A	Tail end executing mechanism and picking method for spherical fruit automatic picker	NORTH WEST AGRICULTURE & FORESTRY UNIVERSITY
JP2003040158 A	Moving agricultural machine	YANMAR AGRICULTURAL EQUIPMENT
JP2011230622 A	Working vehicle	ISEKI AGRICULTURAL MACHINERY
DE102005051032 A1	Asparagus harvesting unit has laser pointer mounted under plate, on which piston and cylinder units are mounted, pointer being used to locate and swiveling blade on harvesting unit to cut base of stem, gripper then lifting it out of earth	SCHMIDT HEINZ
JP3028482 B1	Movable agricultural machinery	YANMAR AGRICULTURAL EQUIPMENT, ...
JP2002000009 A	Traveling direction-controlling apparatus in combine	ISEKI AGRICULTURAL MACHINERY
JP2000128016 A	Moving agricultural machine	YANMAR AGRICULTURAL EQUIPMENT, ...
JP2000130579 A	Mobile agricultural machine	YANMAR AGRICULTURAL EQUIPMENT, ...
JP2001048042 A	Moving agricultural machine	YANMAR AGRICULTURAL

Publication numbers	Title	Current assignees
		EQUIPMENT
FR2658984 A1	Device for separating the grain by shaking on a combine harvester	BOURDICHON ALAIN
KR19850007408 A	Tube for transporting fluids susceptible to change its volume and especially its length.	ARKEMA
DK8806397 D0	Spreader device for straw chopper	BISO BITTER, ...
DE8524223 U1		BISO BITTER
DK9701130 A	Driveshaft with coupling means	GKN WALTERSCHEID
WO2015141835 A1	Engine device	YANMAR

Family 1/667 - FAMPAT - ©Questel

Title

(RU1787361)

Tiltable and telescopic crop-lifting finger of harvester

Publication data including kind & date

SU1787361	A1	1993-01-15	SU1787361
RU1787361	C	1993-01-15	RU1787361

Abstract

(RU1787361)

Use: in agricultural machine building.Essence of the invention: hinged- telescopic steblepodem- the nick of harvester contains the plate of 1 triangular form, hinged connected with upper 7 and lower 2 by thrusts.Thrust by 7 is executed in the form the telescopic rod, inside which is placed spring 6.Back Rake on the motion of moving the harvester angle of plate 1 it is rounded.Thrust by 2 is fixed on the cutting apparatus.The Use of that proposed of steblepod- of emnika increases kachostvo of copying the relief of field, excludes jamming by the spring of stems. 5 z. p. of formula, 2 illus.

Inventors

KOSTENKO IVAN M

KOSTENKO IVAN I

KOSTENKO MIKHAIL I

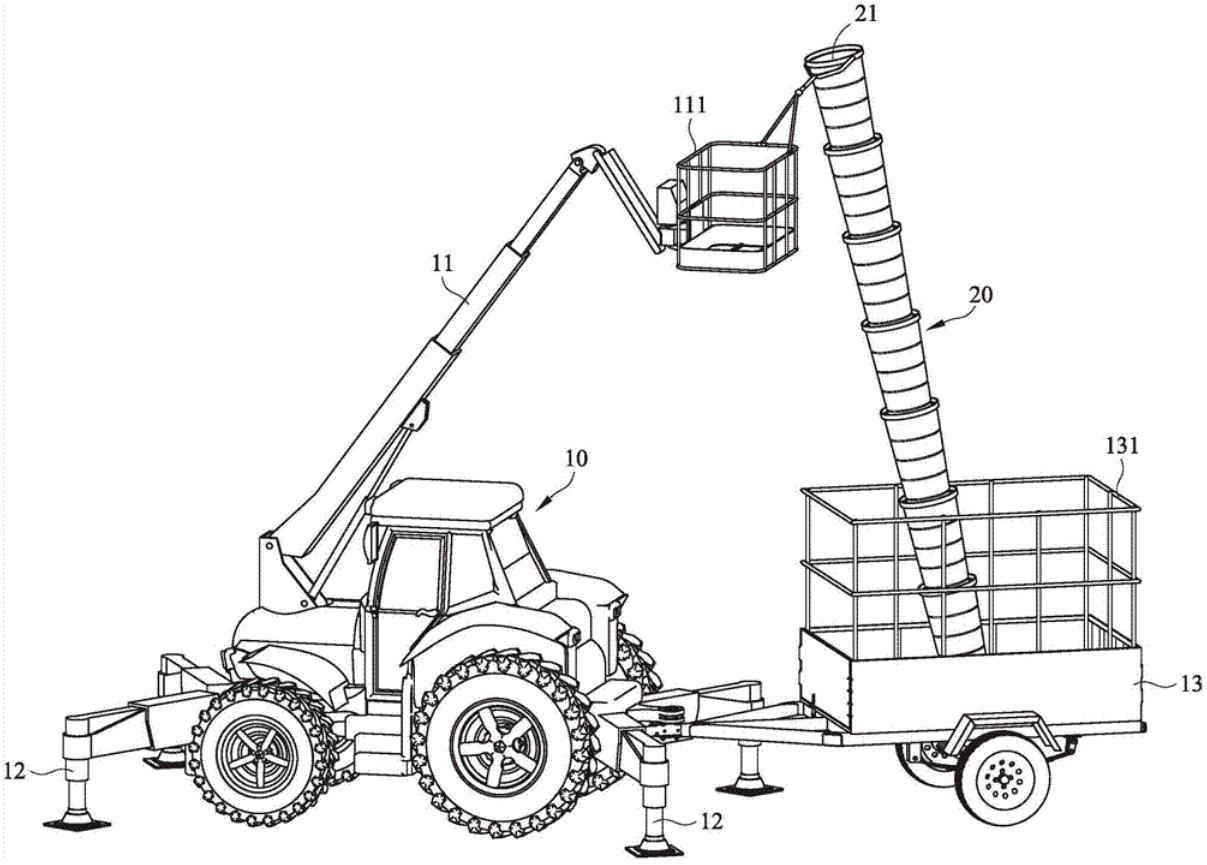
Family 2/667 - FAMPAT - ©Questel

Title

(CN206585973U)

High altitude coconut harvester

Images



Publication data including kind & date

CN206585973	U	2017-10-27	CN206585973U

Abstract

(CN206585973U)

The utility model provides a high altitude coconut harvester, includes: a hauler and one slowly fall the sleeve pipe, wherein, establish an oil pressure lifing arm on this hauler, a hurdle is established on the top of this oil pressure lifing arm, and an oil pressure telescopic tripod is established all around to this hauler, and a carrier is connected to this hauler rear end, should slowly fall the sleeve pipe locates on this carrier, borrow this, the workman that gathers can stand in the hurdle of this oil pressure lifing arm, utilizes this oil pressure lifing arm of dependent power operation of this oil pressure lifing arm, makes hurdle coconut cluster ascending and displacement to coco other, and a rethread power cutterbar cuts the coconut cluster in hurdle, do the work of gathering, makes the coconut cluster accessible of gathering should slowly fall the sleeve pipe and slowly falls on transport to this carrier.

Inventors

HUANG YUANCHENG

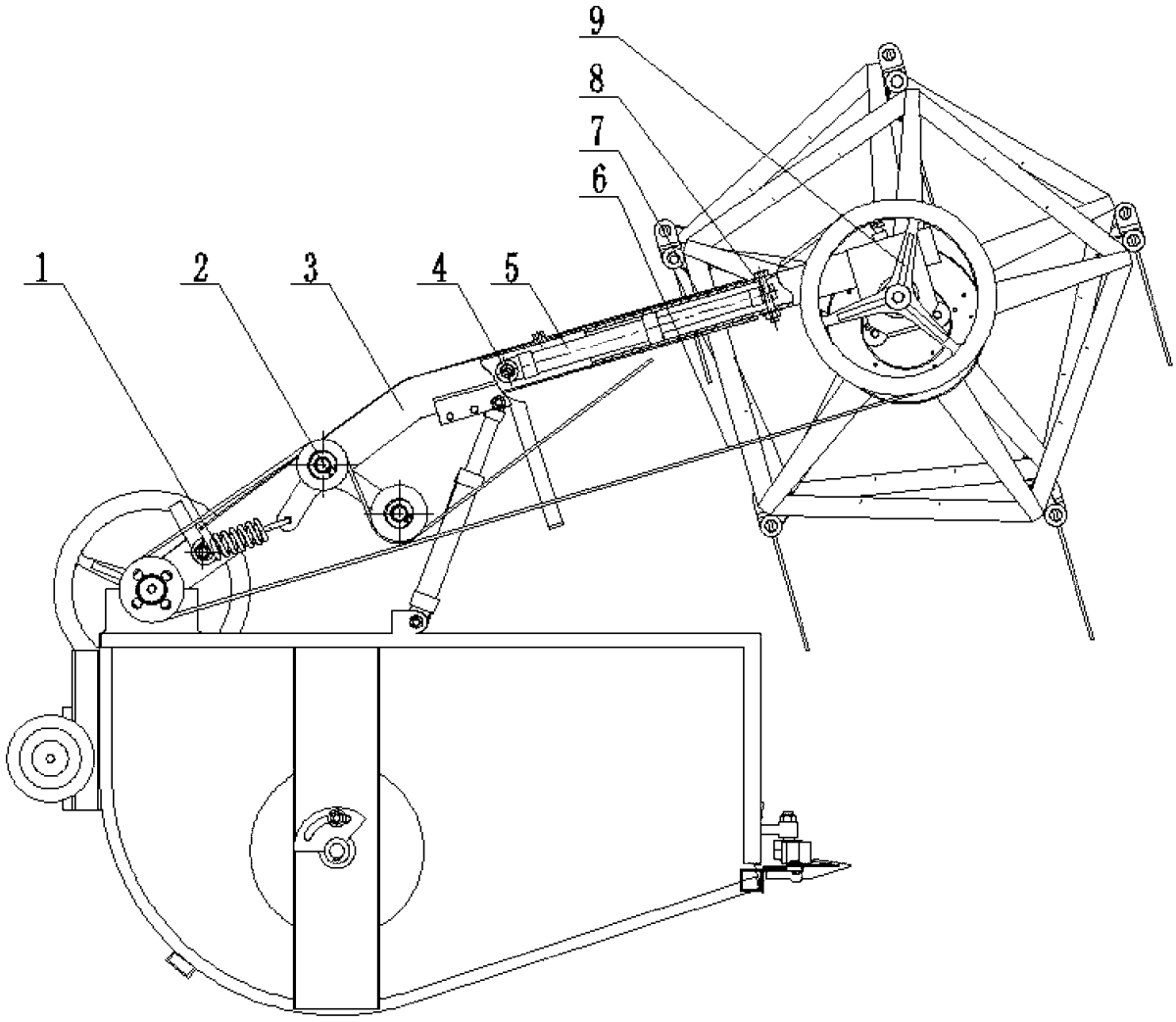
Family 3/667 - FAMPAT - ©Questel

Title

(CN203353200U)

Telescopic adjustment device of harvester stalk pushing wheel

Images



Publication data including kind & date

CN203353200	U	2013-12-25	CN203353200U

Abstract

(CN203353200U)

The utility model discloses a telescopic adjustment device of a harvester stalk pushing wheel, and belongs to the field of harvesters of agricultural machinery.The telescopic adjustment device of the harvester stalk pushing wheel is characterized in that a hydraulic cylinder is installed in a stalk pushing wheel supporting arm and a stalk pushing wheel support, the hydraulic cylinder body is fixed to the stalk pushing wheel supporting arm, a piston rod of the hydraulic cylinder is fixed to

the stalk pushing wheel support, the stalk pushing wheel support can slide in the stalk pushing wheel supporting arm, the hydraulic cylinder can be stretched out and drawn back to drive the stalk pushing wheel support to be stretched out and drawn back in the stalk pushing wheel supporting arm, and a tensioning device achieves dynamic tensioning and length adjustment of a belt.Due to the technical method, the telescopic adjustment device of the harvester stalk pushing wheel can adjust the front-back horizontal position of the stalk pushing wheel in real time and improves the automation degree of a harvester.

Inventors

JIN LI
XU CHUNYUN
Yan Zhahui
ZHANG DAWEI

Latest standardized assignees - inventors removed

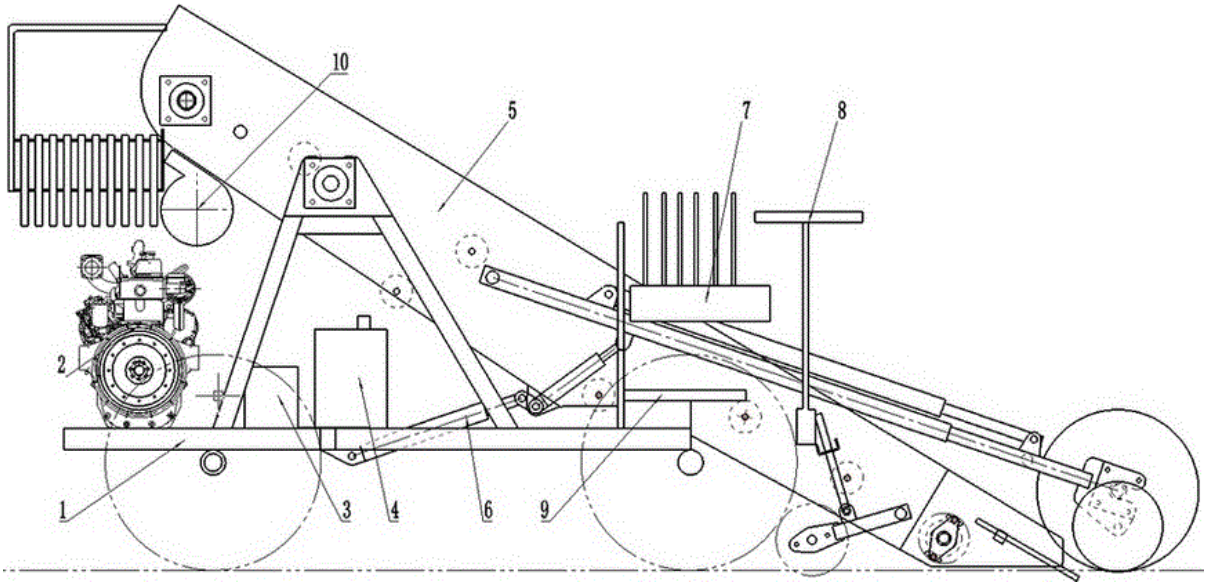
ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY

Family 4/667 - FAMPAT - ©Questel

Title

(CN106717553)
Self-propelled dried nut picking harvester

Images



Publication data including kind & date

CN106717553 A 2017-05-31 CN106717553

Abstract

(CN106717553)
The invention discloses a self-propelled dried nut picking harvester.The self-propelled dried nut picking harvester comprises a walking chassis, an engine, a hydraulic pump, a starting storage battery, a hydraulic oil tank, a picking conveying system, a picking conveying system lifting oil cylinder, a hydraulic valve bank, a steering wheel, a seat and an impurity cleaning fan.According to the self-propelled dried nut picking harvester, the hydraulic pump is driven by the diesel engine to provide power for the self-propelled dried nut picking harvester; the picking conveying system is controlled by a hydraulic cylinder to profile the ground at any time during work; a picking and cleaning roller is controlled by two groups of oil cylinders to achieve automatic ground profiling at any time and meanwhile to achieve extension and retraction control.The self-propelled dried nut picking harvester can not only pick up and collect dried nuts among rows, but also clean and collect dried nuts which are difficult to reach by an under-tree device.The self-propelled dried nut picking harvester is simple in operation, high in working efficiency and capable of meeting the current harvesting requirements of dried nuts especially of red dates.

Inventors

CHEN SHAOJIE
DOU FENGLING
QINGMIN,KAN MENG
LIU HUIRONG
CHEN SHANSHAN
ZHANG SONGFENG
LU YONGTAO
ZHAO YAN

Latest standardized assignees - inventors removed

SHIHEZI DEVELOPMENT ZONE RUIYIDA MECHANICAL EQUIPMENT

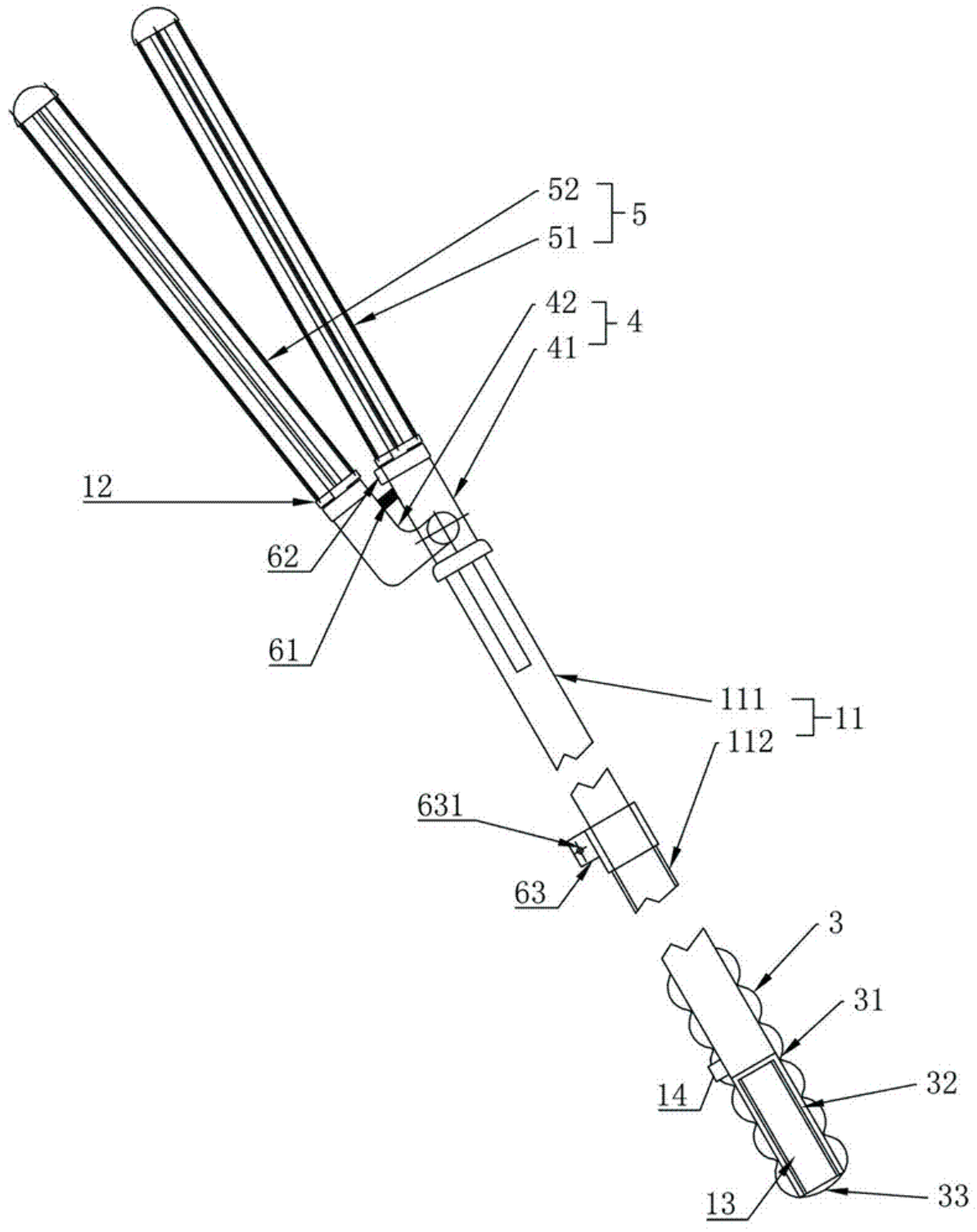
Family 5/667 - FAMPAT - ©Questel

Title

(CN206909163U)

Hickory nut fruit harvester

Images



Publication data including kind & date

CN206909163	U	2018-01-23	CN206909163U

Abstract

(CN206909163U)

The utility model discloses a hickory nut fruit harvester.The utility model discloses a when picking hickory nut, need not beat the branch and make hickory nut drop, press control switch and make first roller and second roller clip the branch to the displacement takes place for first roller and second rod when passing the telescopic link, and the roller still takes place to roll when taking placethe displacement, pushes the hickory nut on the branch get off.Place collection device under the chinese walnut, hickory nut drops on the tarpaulin, places at the tilted end of tarpaulin and collects the bag, in hickory nut can glide under the inclined that inclines of tarpaulin and put under and collect the bag, people directly will collect the bag carry away alright, very quick and convenient.Simultaneously the setting up of inner tube and outer tube of telescopic link makes the fully adjustable of telescopic link, makes things convenient for the harvesting personnel to pick the hickory nut of far and near difference.

Inventors

XU LIJUN

XING JUNWANG

Latest standardized assignees - inventors removed

ZHEJIANG AGRICULTURE AND FORESTRY UNIVERSITY

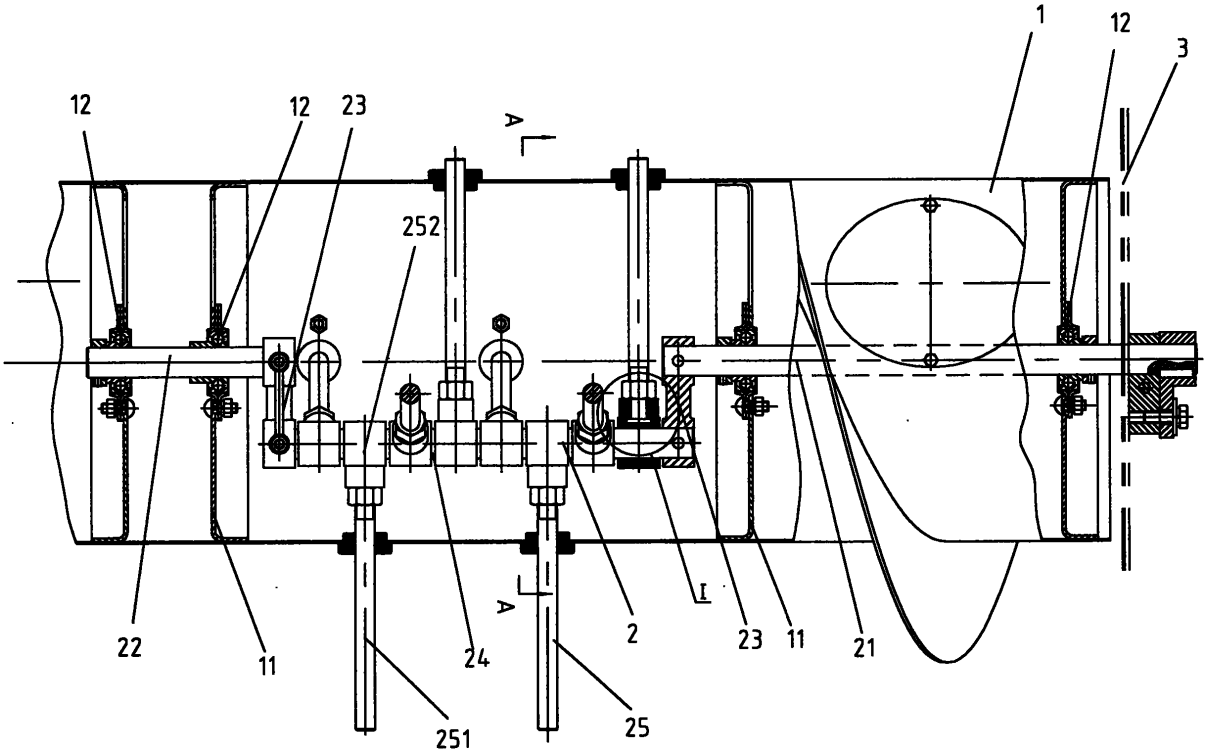
Family 6/667 - FAMPAT - ©Questel

Title

(CN201733627U)

Telescopic tooth device of auger of header of combine harvester

Images



Publication data including kind & date

CN201733627 U 2011-02-09 CN201733627U

Abstract

(CN201733627U)

The utility model discloses a harvested object conveying device of a combine harvester, which comprises a roller of an auger and a supporting mechanism of telescopic teeth, wherein the supporting mechanism of the telescopic teeth is arranged in the auger of a header, both ends of a telescopic tooth shaft are respectively and fixedly connected with one end of a crank arm, and the other end of the crank arm is respectively and fixedly connected with one end of a first supporting shaft and one end of a second supporting shaft; and a plurality of telescopic tooth groups are axially in staggered arrangement at intervals and are evenly distributed on the circumferential face of the roller of the auger.The telescopic tooth groups comprise a plurality of telescopic teeth and telescopic tooth holders, which are arranged in rows at intervals, wherein one end of the telescopic teeth is fixedly connected with the telescopic tooth holders, and the other ends of the telescopic teeth penetrate out of the circumference of the roller of the auger; and the upper ends of the telescopic tooth holders are provided with threaded holes which are fixedly connected with one end of the telescopic teeth, the material of the telescopic tooth holders is nylon, and the upper ends of the telescopic tooth holders are provided with nuts with shaft shoulders.In the utility model, the telescopic tooth holders adopt injection moulding, machining does not need to be carried out, the production efficiency is high, the quality is light, the manufacturing cost is lowered, and the connection of the telescopic teeth and the telescopic tooth holders is more reliable.

Inventors

XING LICHENG

Latest standardized assignees - inventors removed

JIANGSU WORLD AGRICULTURAL MACHINERY

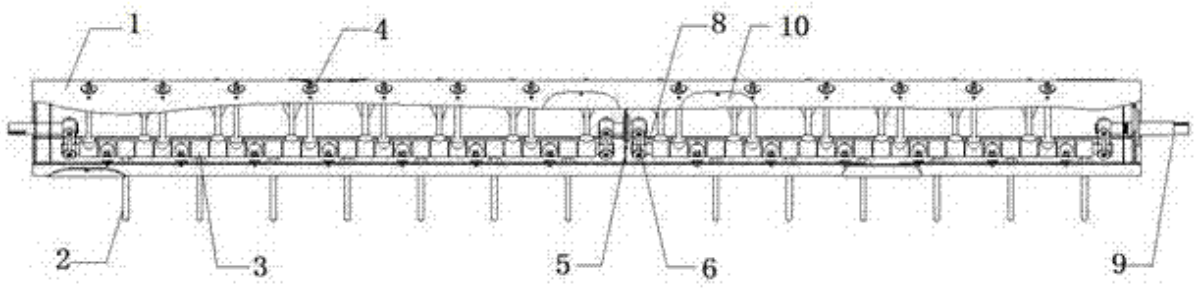
Family 7/667 - FAMPAT - ©Questel

Title

(CN207070627U)

Telescopic bullet tooth pickup suitable for peanut harvester

Images



Publication data including kind & date

CN207070627 U 2018-03-06 CN207070627U

Abstract

(CN207070627U)

The utility model relates to a telescopic bullet tooth pickup suitable for peanut harvester, including drum, regulating spindle, retractable teeth, slide, back shaft, back shaft axle sleeve, actuatingarm and width of cloth dish, the regulating spindle matches the both ends of installing in the center pin position of drum department, and retractable teeth is connected with the cooperation of backshaft axle sleeve, and the back shaft axle sleeve passes through the back shaft to be connected with the actuating arm, and the actuating arm is connected with the regulating spindle cooperation at both ends, retractable teeth mutually supports with the slide, and the slide setting is on the drum, secondary disc sets up the intermediate position department at the drum, and secondary disc's both sides are connected with the actuating arm respectively.The utility model discloses can prevent the winding of debris, improve and pick up efficiency, reduce the operating cost.

Inventors

WANG JINGCHAO

LI YAJUAN

LEI MING

SU XIAOQING

Latest standardized assignees - inventors removed

PUYANG NONGFA MACHINERY MANUFACTURING

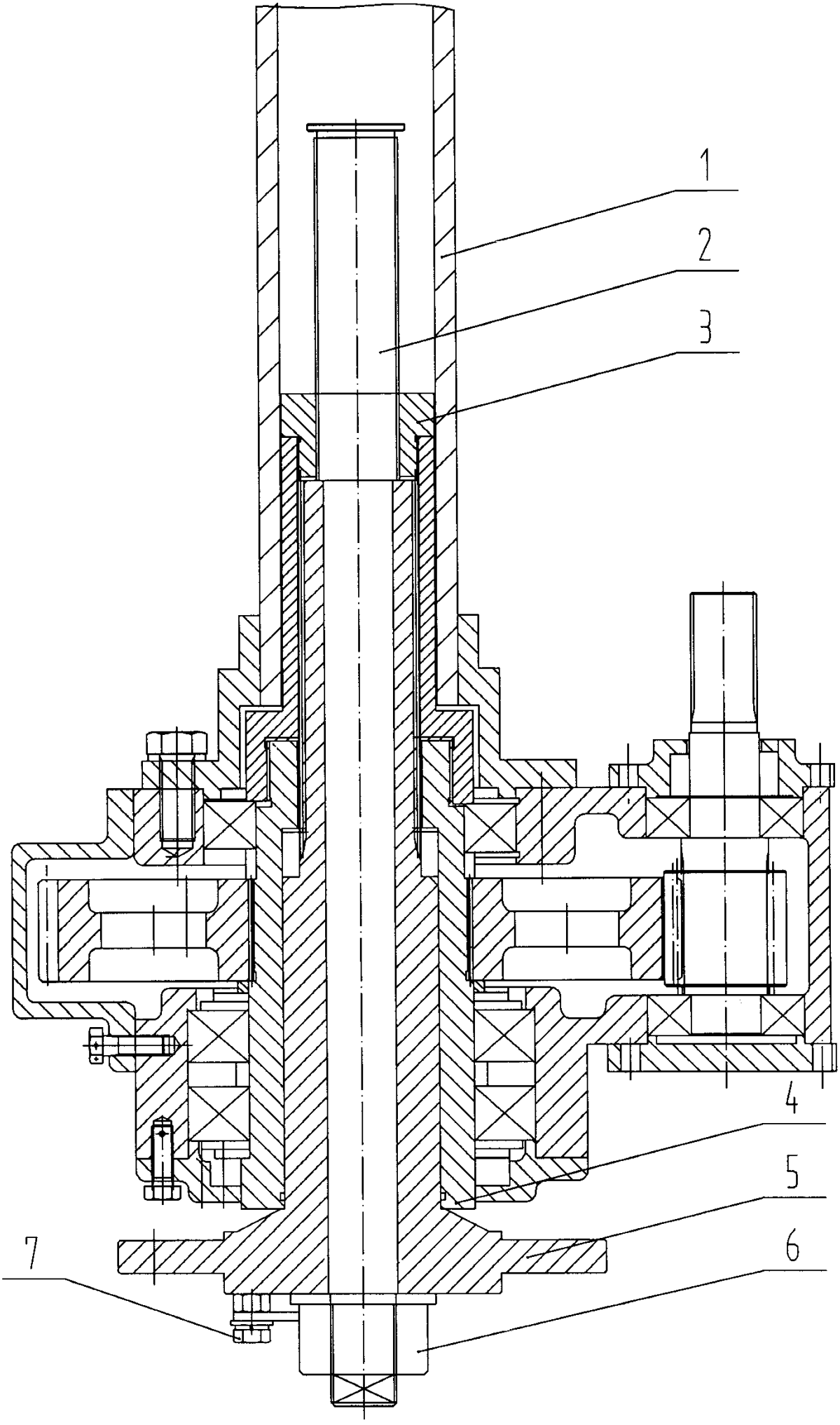
Family 8/667 - FAMPAT - ©Questel

Title

(CN203251643U)

Corn harvester output shaft mechanical stepless telescopic edge cutting box

Images



Publication data including kind & date

CN203251643 U 2013-10-30 CN203251643U

Abstract

(CN203251643U)

The utility model provides a corn harvester output shaft mechanical stepless telescopic edge cutting box, and belongs to the field of harvest machinery.In order to improve practicality of a corn harvester, the corn harvester output shaft mechanical stepless telescopic edge cutting box is characterized in that an output shaft, connected with tires, of the corn harvester edge cutting box is telescopic within a certain range in a stepless mode.The corn harvester output shaft mechanical stepless telescopic edge cutting box achieves the purposes that the wheelspan of the corn harvester is regulated to meet requirements, and the corn harvester is suitable for not only flat-area ground work but also drainage ditch ridge-area work.

Inventors

TONG JUNSHENG

MI YANZHONG

QI WEI

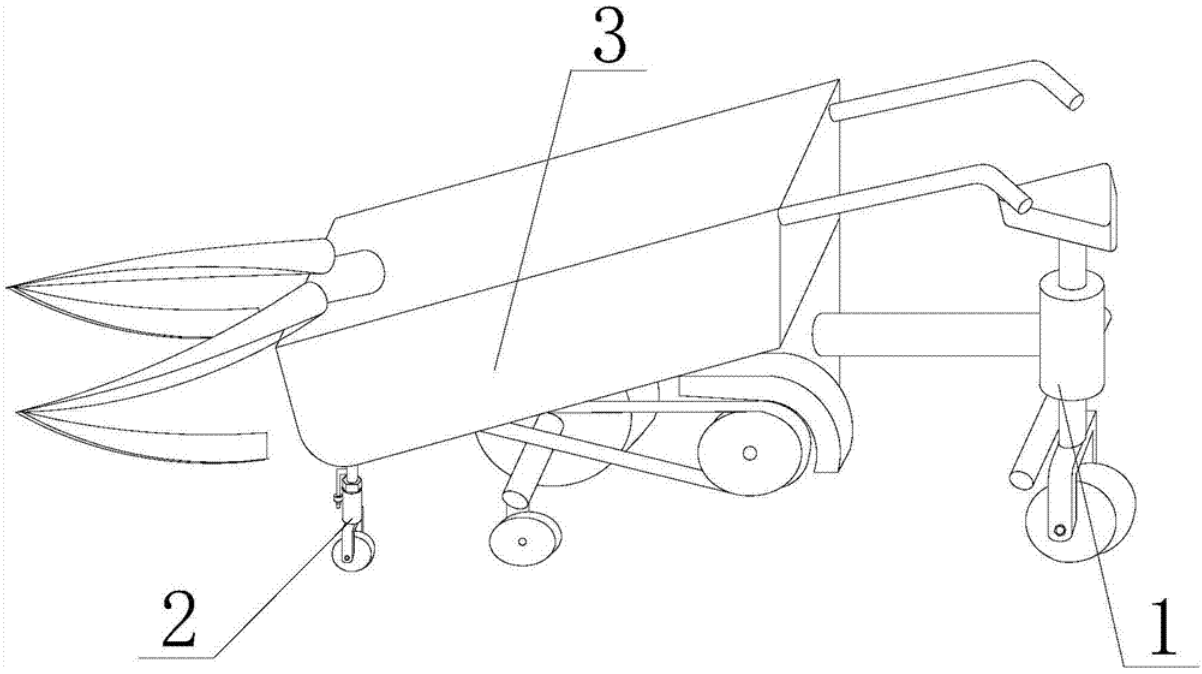
Family 9/667 - FAMPAT - ©Questel

Title

(CN207978374U)

Leek harvester

Images



Publication data including kind & date

CN207978374 U 2018-10-19 CN207978374U

Abstract

(CN207978374U)

The present utility model discloses a leek harvesters, includes a seat cushion, the rotating shaft, a steering wheel, steering bar, a positioning rod, a telescopic rod, sleeve and nut trip, the cushion is mounted on a support post upper end, fitted in a shaft housing a rotating shaft, a steering wheel mounted on a fixed fork, the steering rod is horizontally welded to the shaft annular side surface lower portion, an operator may ride leek harvester movement achieves this design, thereby relieving the operator effort and avoiding a post harvest leek effects of stepping on the wound, positioning rod is fixed to the telescoping rod annular lateral upper portion, an upper end secured to the lower end of the harvester body leek left telescopic rod parts, jacketed in a sleeve on the telescopic rod, a nut disposed on the upper trip, trip nut is fitted in on the telescopic rod, the design is simple and quick changing of the depth of cut achieved leek purposes, the present utility

model is convenient to use, easy to operate, good stability, high in reliability.

Inventors

ZHEN QIWEI

Family 10/667 - FAMPAT - ©Questel

Title

(FR2352486)

Maize harvester with adjustable width - has laterally telescopic central divider and outer row divider, pivoted about horizontal axis to follow ground contours

Publication data including kind & date

DK233077	A	1977-11-28	DK7702330
FR2352486	A1	1977-12-23	FR2352486
ZA7702908	B	1978-04-26	ZA7702908
FR2352486	B3	1980-02-29	FR2352486
CA1193449	A	1985-09-17	CA1193449

Abstract

(FR2352486)

The harvester has outer row dividers (94, 94) and a central divider assembly comprising front and rear dividers (99, 97).The front ends of the outer dividers are pivotable laterally about rear pivots, the central dividers being laterally telescopic.The crop is cut by circular cutters (61, 69) and gathered by spaced pairs of converging belts (62, 62) trained around rear sprockets co-axial with the rear pivots.The front and rear diviers (99, 97) are pivoted together about a transverse horizontal axis so that the front divider (99) can follow the ground contours.Bolts (102) engage slots (101, 106) in the rear and front dividers (97, 99) to set different crop row spacings.

Inventors

FRITZ EDWARD A

SAMMARCO PETER

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

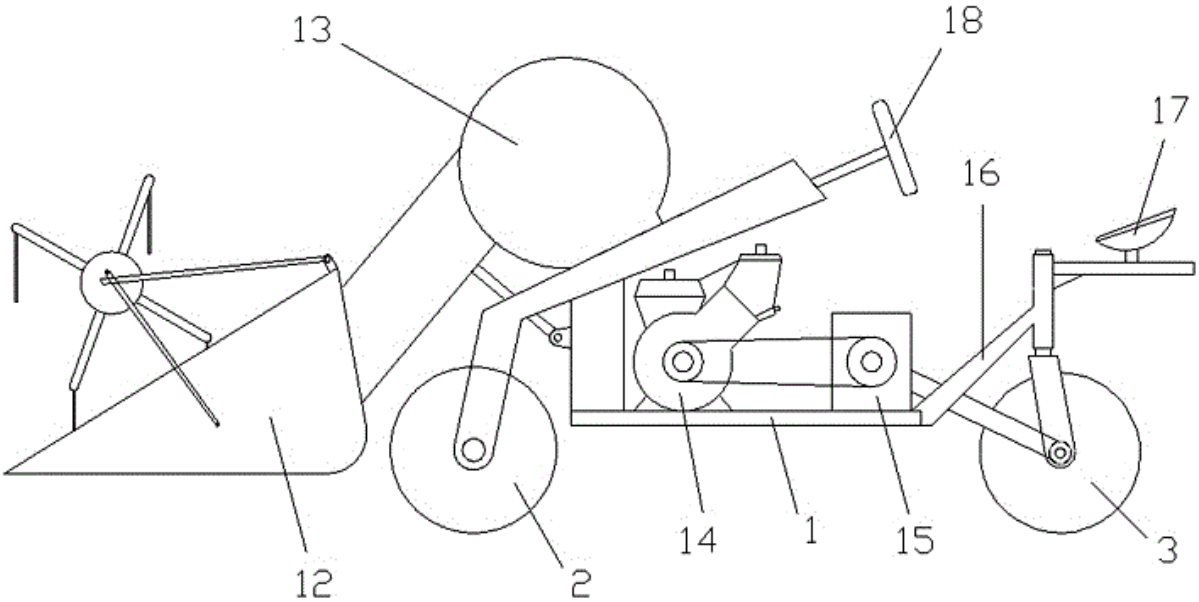
Family 11/667 - FAMPAT - ©Questel

Title

(CN106068917)

Three-wheel ratoon rice harvester with variable wheel track of front wheels and control method of three-wheel ratoon rice harvester

Images



Publication data including kind & date

CN106068917	A	2016-11-09	CN106068917

Abstract

(CN106068917)

The invention relates to a three-wheel ratoon rice harvester with the variable wheel track of front wheels and a control method of the three-wheel ratoon rice harvester.The harvester comprises a chassis.A pair of front wheels is arranged at the front end of the chassis, and a rear wheel is arranged at the rear end of the chassis.Telescopic mechanisms for controlling the front wheels on the corresponding sides to laterally move are arranged on the two sides of the bottom of the front end of the chassis respectively.Each telescopic mechanism comprises an outer sleeve installed at the bottom of the chassis and an inner sleeve which is sleeved with the outer sleeve and is in sliding fit with the outer sleeve, wherein the outward end of the inner sleeve is fixedly connected with a push rod which penetrates out of the outer sleeve and is connected with the front wheel on the corresponding side, the outer sleeve is further internally provided with a lead screw stretching into the inner sleeve, and a screw nut matched with the lead screw is arranged in the inner sleeve so that the corresponding front wheel can laterally move through the inner sleeve and the push rod when the lead screw rotates.The three-wheel ratoon rice harvester with the variable wheel track of the front wheels is reasonable in design and convenient to use, the defect that rice stubble is ground when ratoon rice is harvested through former harvesters is relieved, and the yield of the ratoon rice can be increased.

Inventors

ZHANG XIANG
HONG YINGJIE
REN JINBO

Latest standardized assignees - inventors removed

FUJIAN AGRICULTURE & FORESTRY UNIVERSITY

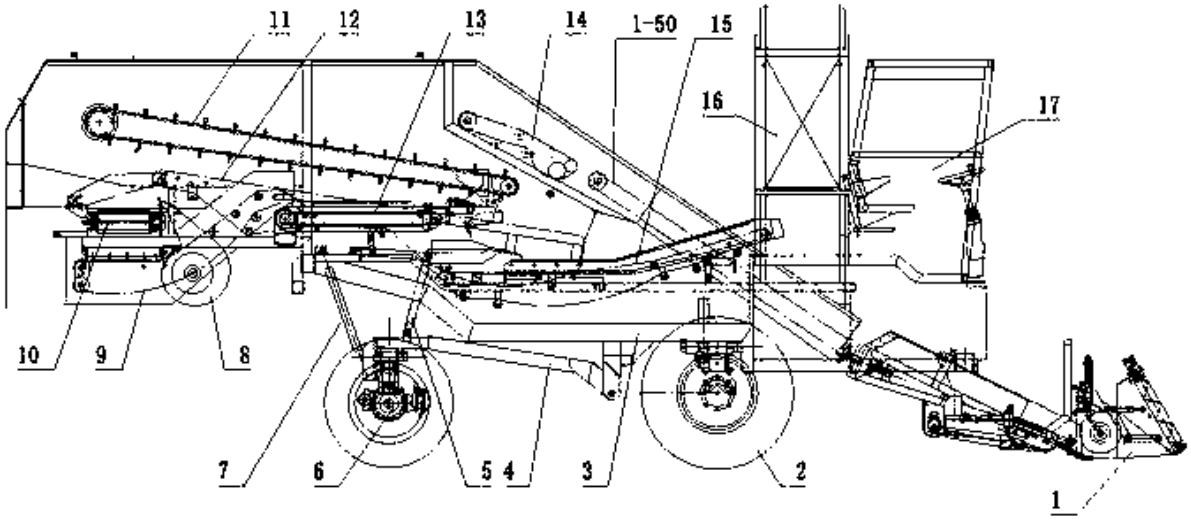
Family 12/667 - FAMPAT - ©Questel

Title

(CN102523825)

Tomato harvester

Images



Publication data including kind & date

CN102523825	A	2012-07-04	CN102523825
CN102523825	B	2015-09-02	CN102523825B

Abstract

(CN102523825B)

The invention relates to a tomato harvester, which comprises traveling wheels and a main stander, wherein the front part of

the main stander is provided with a picking head, a primary conveying device is arranged behind the picking head, the rear part of the primary conveying device is provided with a fruit separating device, the lower part of the fruit separating device is provided with a secondary conveying device, a transverse conveying device is arranged below the secondary conveying device, the transverse conveying device is connected with a color selection device through a fruit lifting conveying device , the rear part of the color selection device is provided with a manual pickup conveyor belt, the rear part of the manual pickup conveyor belt is provided with a fruit lifting and transportation telescopic arm, and a triangular longitudinal balance part is arranged between the color selection device and the main stander.The tomato harvester has a reasonable structure, is stable to work, is economical and practical and can well perform the harvesting operation.

Inventors

QI WEI
ZOU BANGQUAN
GAO ZHIGUO
DENG CHENGWEI
CHENG LANLAN
WANG LINGLING
WANG XIAOBIN

Latest standardized assignees - inventors removed

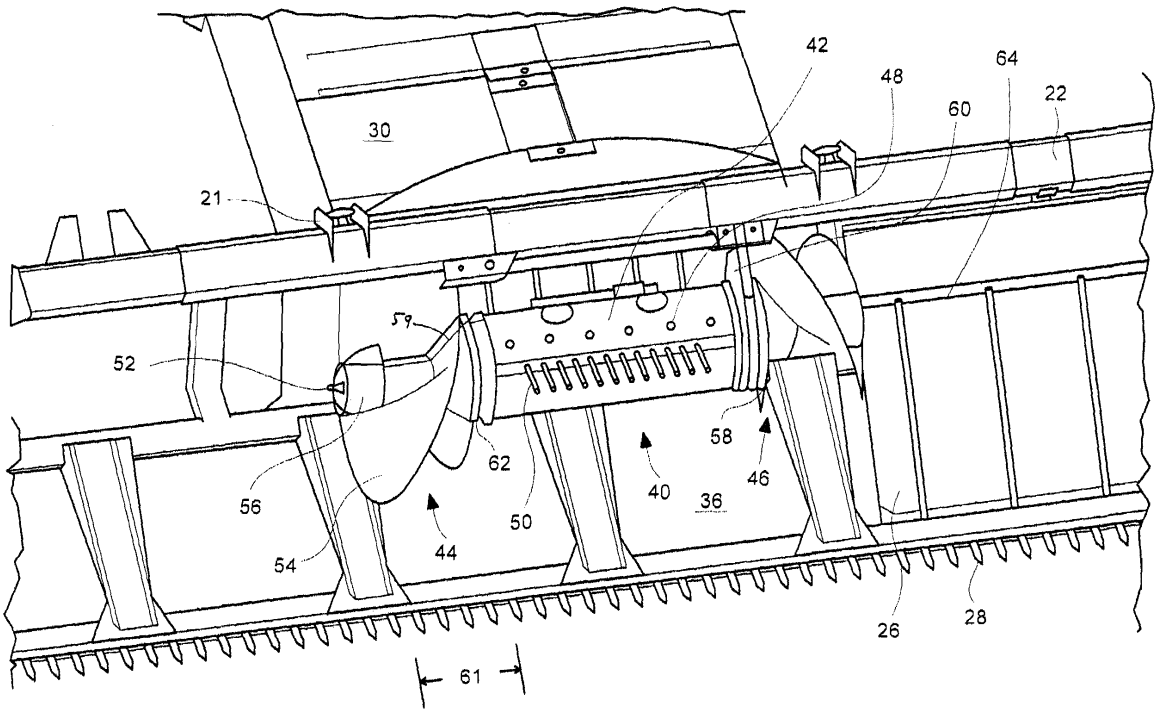
SHIHEZI GUIHANG AGRICULTURAL MACHINERY

Family 13/667 - FAMPAT - ©Questel

Title

(US7587885)
Central auger crop feed system for a harvester

Images



Publication data including kind & date

US20080295474	A1	2008-12-04	US20080295474
AU2008201948	A1	2008-12-18	AU2008201948
US7587885	B2	2009-09-15	US7587885
RU2008120504	A	2009-12-10	RU2008120504
RU2457660	C2	2012-08-10	RU2457660
AU2008201948	B2	2012-11-29	AU2008201948

AU2008201948 C1 2013-05-16 AU2008201948

Abstract

(US7587885)

A header for a combine or harvester has a frame with a longitudinal dimension transverse to a direction of travel of the combine or harvester.Two moving belts are disposed on the frame to receive cut crop from a cutter and to move the crop from outer portions of the header towards an inner portion of the header.Each of the belts has a leading edge oriented towards the direction of travel of the combine or harvester and a trailing edge oriented away from the direction of travel and each of the belts has an inner aspect disclosed in spaced relation to an inner aspect of the other of the belts such as to define a gap therebetween, the gap receiving cut crop being transported longitudinally and inwardly from the belts.An auger with a cylinder and two end cones around an axis is disposed to urge crop from the gap and from the inner aspect of the belts towards a feeder house position behind the gap.The axis of the auger is forward of the trailing edge of the belt.A stationary floor plate beneath the gap is contoured to urge crop into the feeder house.

Inventors

TIPPERY STEVE
KASTER CRAIG
HAWORTH ADAM LEE
NATHAN CRISTOPH
PETERSEN JENS

Latest standardized assignees - inventors removed

CLAAS SELBSTFAHRENDE ERNTEMASCHINEN

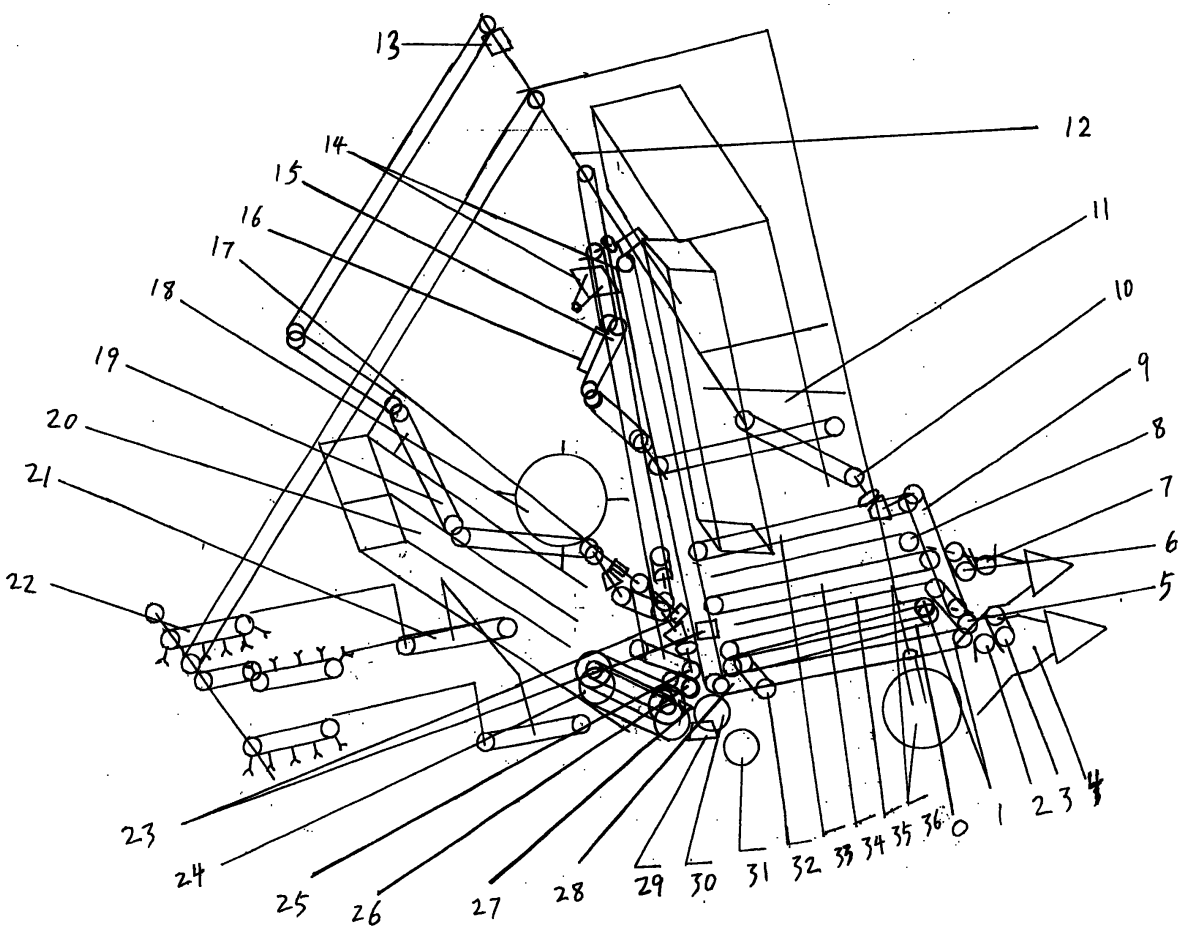
Family 14/667 - FAMPAT - ©Questel

Title

(CN201345826U)

Multipole ultralight microminiature combine harvester with peculiarly flexible operation

Images



Publication data including kind & date

CN201345826	Y	2009-11-18	CN201345826U

Abstract

(CN201345826U)

A multipole ultralight microminiature combine harvester with peculiarly flexible operation implements a multipole labor-saving design and a flexible operation design, that is, a cone-type rectangular helical blade row divider arranged on the front part of the combine harvester and a sliding deflector rod are adopted to divide rows and bunches of naturally stand-up straws so as the lead a harvester body to operate in no row direction and turn flexibly; the operation on all types of tall and short grain ears is carried out by adopting telescopic power transmission; the stripping can save labor; the combine harvester cuts as the combine harvester mills a cutter, and the straws are cut in a labor-saving manner; the straws are lengthways and transversely planted in bunches in the same direction, and the straws are embedded into the plough lands along the plough lands; cereal grains are rapid to be bagged; and the straws are threshed first, and then cut.The multipole ultralight microminiature combine harvester mainly comprises technical structural devices, namely a component for dividing the rows and the bunches of the stand-up ears and straws, transferring, pulling and planting the ears and straws, a stand-up straw type planar revolution stripping component, a power transmission telescopic component, a cutter milling and cutting component, a movable stander, a hanging, shedding and blocking adjustment straw planting device, an impurity removal component, a cereal grain transferring and bagging component, a balance wheel and the like.

Inventors

ZHANG RIHUI

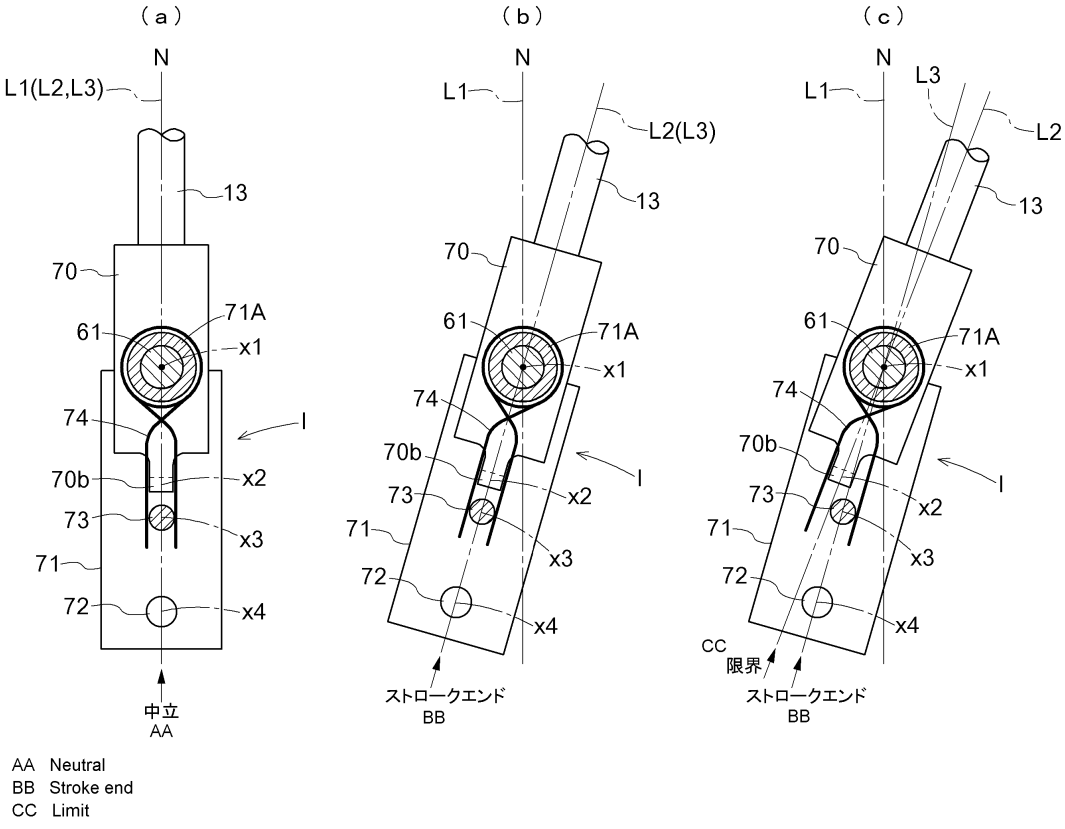
Family 15/667 - FAMPAT - ©Questel

Title

(WO201635612)

Harvester

Images



Publication data including kind & date

WO2016035612	A1	2016-03-10	WO201635612
JP2016049089	A	2016-04-11	JP2016049089

JP2016049088	A	2016-04-11	JP2016049088
JP2016049098	A	2016-04-11	JP2016049098
KR20170053650	A	2017-05-16	KR20170053650
CN106793755	A	2017-05-31	CN106793755
VN52801	A	2017-06-26	VN--52801
PH12017500362	A1	2017-07-17	PH12017500362
JP6280844	B2	2018-02-14	JP6280844
JP6280843	B2	2018-02-14	JP6280843
JP6280845	B2	2018-02-14	JP6280845

Abstract

(WO201635612)

Disclosed is a harvester comprising an operation linkage mechanism that transmits a swinging operation of an operation lever 13 to a steering drive part and a lifting/lowering drive part.The operation linkage mechanism includes: a steering unit that links the operation lever 13 and the steering drive part; and a lifting/lowering unit that links the operation lever 13 and the lifting/lowering drive part.Each unit includes an output operating body 71 that transmits the swinging movement of the operation lever 13 to the steering drive part or the lifting/lowering drive part.Within a preset movable range of the steering drive part or the lifting/lowering drive part, the output operating body 71 moves integrally with the operation lever 13 by following the swinging movement thereof.After the steering drive part or the lifting/lowering drive part has reached a movement limit of the movable range, if the operation lever 13 is operated in a direction that moves the steering drive part or the lifting/lowering drive part toward a side beyond said movable range, the output operating body 71 does not integrally follow the operation lever 13, and the operation lever 13 alone is permitted to perform the swinging movement.

Inventors

HIRAKAWA JUNICHI
HORIUCHI MASAYUKI
OTOMUNE TAKUYA
MATSUBAYASHI TOMOYA
MARUYAMA JUNICHI
OKAMOTO SHUZO
MORIWAKI TAKAFUMI

Latest standardized assignees - inventors removed

KUBOTA

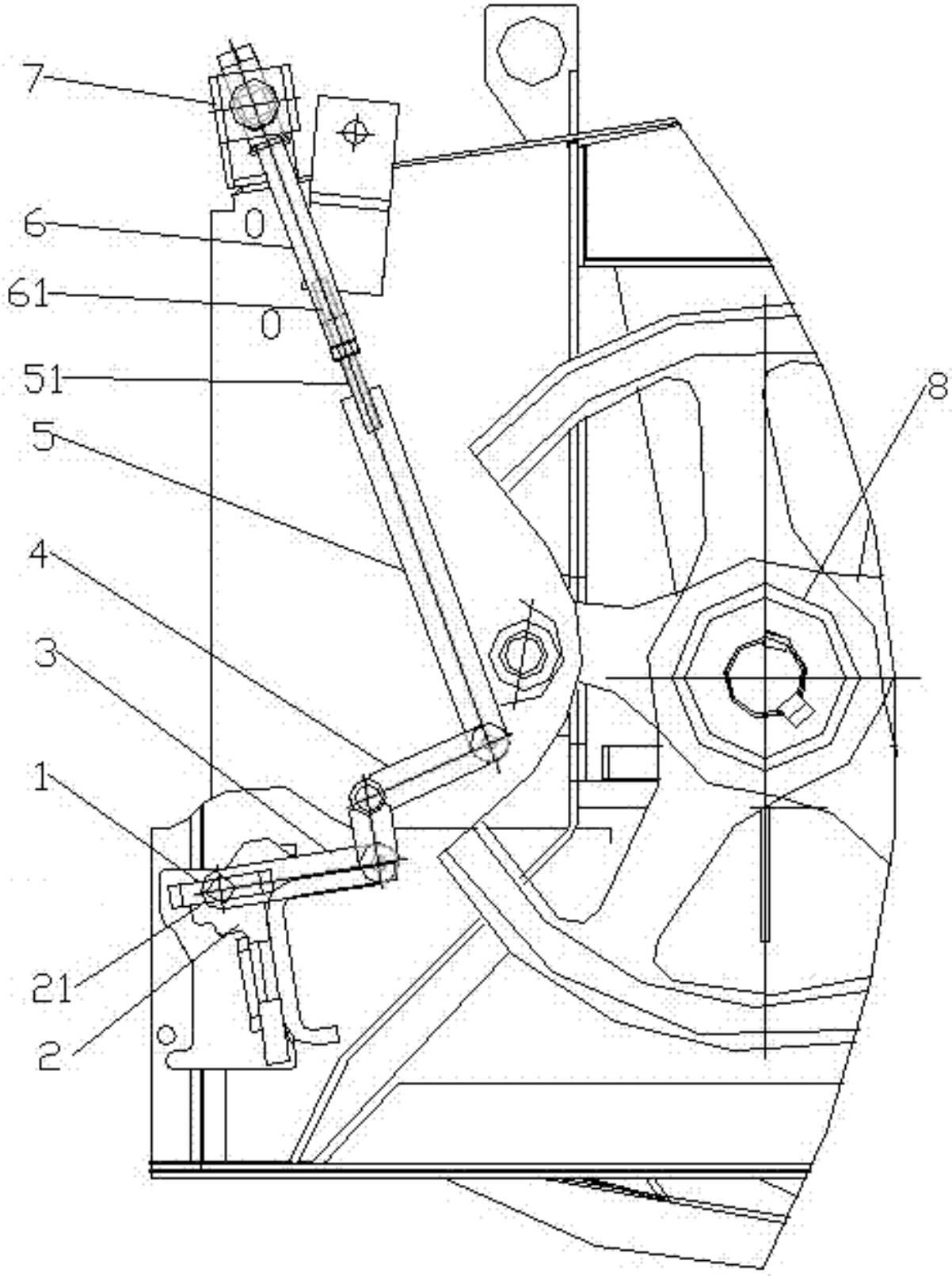
Family 16/667 - FAMPAT - ©Questel

Title

(CN207284239U)

Green feed harvester stationary knife adjusting device and self -propelled green feed harvester

Images



Publication data including kind & date

CN207284239 U 2018-05-01 CN207284239U

Abstract

(CN207284239U)

The utility model discloses a green feed harvester stationary knife adjusting device and self -propelled green feed harvester relates to agricultural machine technical field.The green feed harvesterstationary knife adjusting device include: connect in the fixed seat cover of green feed harvester fuselage, articulate in the curved boom of green feed harvester fuselage, both ends hinge respectively in the telescopic machanism of fixed seat cover and curved boom one end, articulate in the connecting rod of the curved boom other end, the connecting rod is articulated with the stationary knife, and connect in the green feed harvester fuselage and be used for stationary knife direction and fixed set knife seat.Self -propelled green feed

harvester includes foretell green feed harvester stationary knife adjusting device, green feed harvester stationary knife adjusting device and stationary knife cooperation.Green feed harvester stationary knife adjusting device replaces manually operationwith mechanical structure, has simplified stationary knife adjustment operation, has improved the accuracy of adjustment.The utility model discloses an above -mentioned green feed harvester stationary knife adjusting device of self -propelled green feed harvester adoption has simplified the adjustment operation of stationary knife, labour saving and time saving.

Inventors

WANG PENGCHENG

WANG LIANSHAN

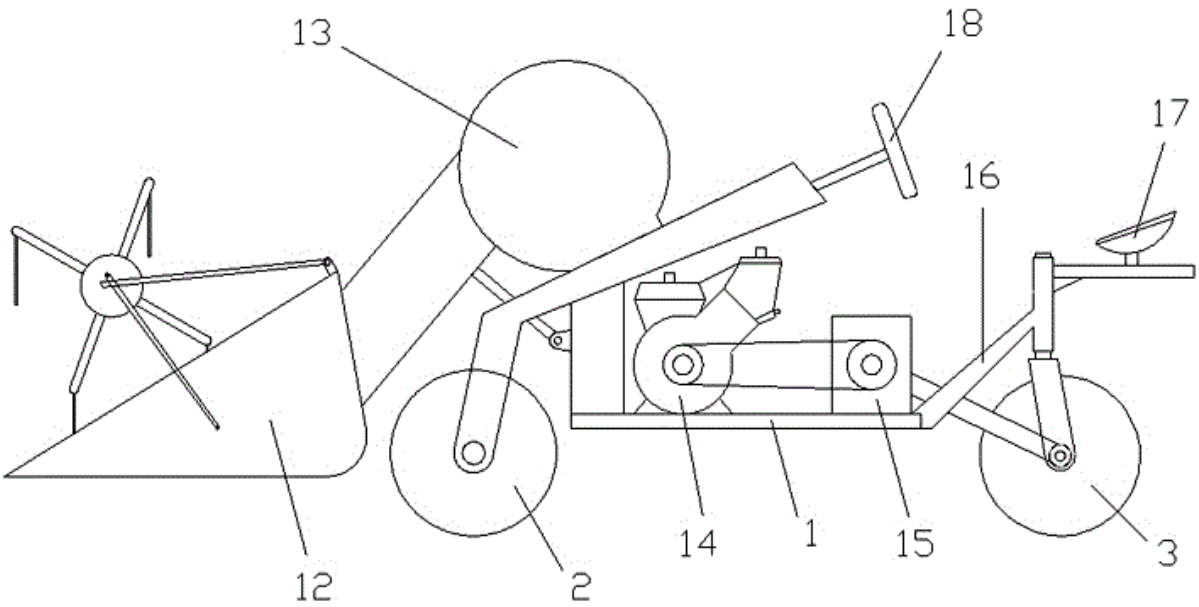
Family 17/667 - FAMPAT - ©Questel

Title

(CN205865131U)

Front wheel flexible wheel base's tricycle ratooning rice harvester

Images



Publication data including kind & date

CN205865131 U 2017-01-11 CN205865131U

Abstract

(CN205865131U)

The utility model relates to a front wheel flexible wheel base's tricycle ratooning rice harvester, including the chassis, the chassis front end is provided with a pair of front wheel, and the extreme end of chassis is provided with a rear wheel, chassis front end bottom both sides are provided with the telescopic machanism that control corresponds side front wheel lateral movement respectively, telescopic machanism including install in the outer sleeve of chassis bottom and overlap in the outer sleeve with outer sleeve sliding fit's inner skleeve, the inner skleeve outwards one end link firmly wear out the outer sleeve and with correspond the push rod that is connected of side front wheel, the lead screw that stretches into in the inner skleeve still has in the outer sleeve, be provided with in the inner skleeve with lead screw matched with screw -nut so that the lead screw through inner skleeve and push rod promotion front wheel lateral movement when rotating.This front wheel flexible wheel base's tricycle ratooning rice harvester reasonable in design, convenient to use has improved in the past the harvester and can carry out the drawback that rolls to rice stubble carrying out in -process that the ratooning rice reaped, can improve the output of ratooning rice.

Inventors

ZHANG XIANG

HONG YINGJIE

REN JINBO

Latest standardized assignees - inventors removed

FUJIAN AGRICULTURE & FORESTRY UNIVERSITY

Family 18/667 - FAMPAT - ©Questel

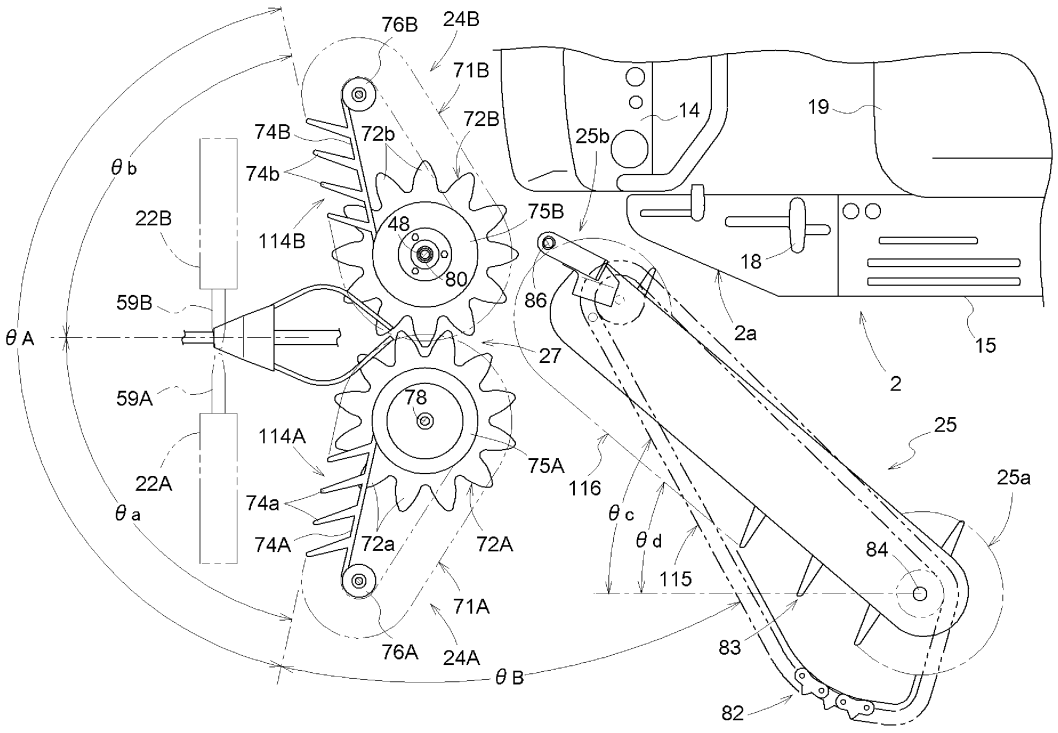
Title

(WO201050443)

Combine

Images

[図14]



Publication data including kind & date

WO2010050443	A1	2010-05-06	WO201050443
JP2010104345	A	2010-05-13	JP2010104345
JP2010110302	A	2010-05-20	JP2010110302
JP2010119368	A	2010-06-03	JP2010119368
JP2010124787	A	2010-06-10	JP2010124787
KR20110091643	A	2011-08-12	KR20110091643
CN201947676	U	2011-08-31	CN201947676U
CN202385498	U	2012-08-22	CN202385498U
JP5374125	B2	2013-12-25	JP5374125
JP5503135	B2	2014-05-28	JP5503135
JP5572302	B2	2014-08-13	JP5572302
KR101693899	B1	2017-01-09	KR101693899

Abstract

(WO201050443)

A combine capable of, without making a harvesting and conveying structure complex and increasing the cost of the structure, both traveling while harvesting plants with grain in the center area of a field and traveling while harvesting plants with grain in the peripheral area of the field. In the combine, a harvesting and conveying section (3) and a riding and operating section (2) are arranged side by side in the left-right direction. A threshing device (4) is provided behind the

harvesting and conveying section. Three plant-separating members (21A, 21B, 21C) and a pair of left and right raising devices (22A, 22B) are mounted to the harvesting and conveying section to form a pair of left and right raising frames (26A, 26B). The left and right raising frames (26A, 26B) are respectively provided with raking and conveying devices (24A, 24B) for conveying harvested cultivated plants with grain to a grain plant pass-through section (27) located between the left and right raising frames. The harvesting and conveying section (3) is provided with a supplying and conveying device (25) for conveying the cultivated plants with grain at the grain plant pass-through section (27) to a threshing device (4). The raising frame (26A) located on the side away from the riding and operating section (2) is configured for use for two rows of plants so that the raising frame (26A) raises the maximum two rows of cultivated plants with grain. The supplying and conveying device (25) is configured such that a conveyance start position (25b) thereof is superposed on the riding and operating section (2) in a front view of a vehicle body.

Inventors

HAMANISHI TADASHI
TANAKA YUKIKAZU
OHNO TAKAYUKI
UEDA SUEZOU
YAMAMOTO HIROAKI

Latest standardized assignees - inventors removed

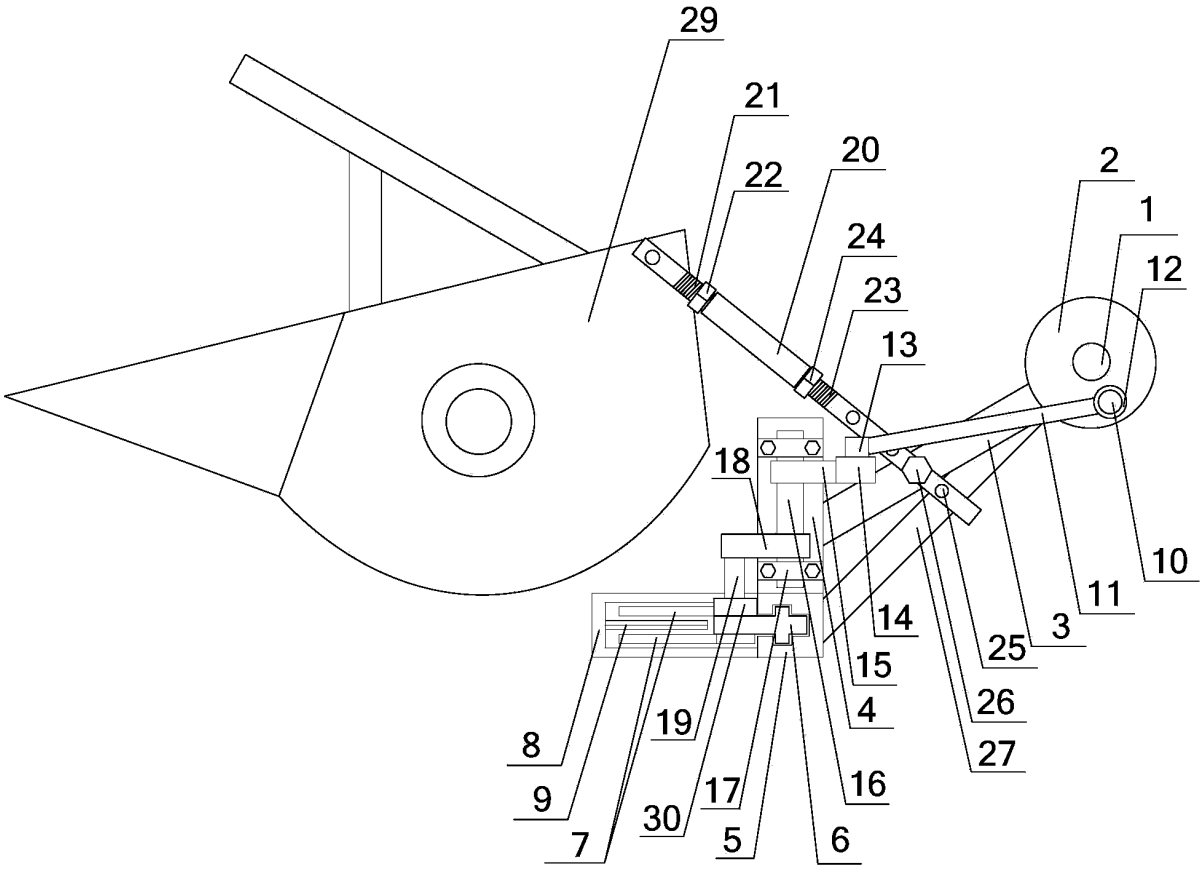
KUBOTA

Family 19/667 - FAMPAT - ©Questel

Title

(CN204291812U)
Knife feeding structure of combined harvester

Images



Publication data including kind & date

CN204291812 U 2015-04-29 CN204291812U

Abstract

(CN204291812U)

The utility model provides a knife feeding structure of a combined harvester.The knife feeding structure comprises a transmission supporting shaft, a rotating disc, a positioning rod, a lifting rod, a telescopic pull rod mechanism, a knife rod driving mechanism and a knife rod mechanism, wherein the transmission supporting shaft is installed on the front side of a harvester chassis support in a rotating mode, and the rotating disc is arranged at the shaft head of the transmission supporting shaft; the telescopic pull rod mechanism comprises an upper lead screw, an upper locking nut, a pull rod, a lower locking nut, a lower lead screw and a locking bolt; the knife rod driving mechanism comprises a connecting rod, a rectangular fixed base, two arc-shaped locking buckles, a rotating shaft, an upper swing arm, a lower swing arm, a stirring rod and a stirring bearing; the knife rod mechanism comprises a strip-shaped knife rod fixing base and a strip-shaped knife rod.By means of the knife feeding structure, straw cut through a header can be further cut, the loads on a conveying groove and a thresher are reduced, the straw turnover is facilitated, and the knife feeding structure has high application prospects.

Inventors

ZHAO WEIQING

ZHU FENGNIAN

Latest standardized assignees - inventors removed

XINGHUA LIYUAN AGRICULTURAL EQUIPMENT MANUFACTURING

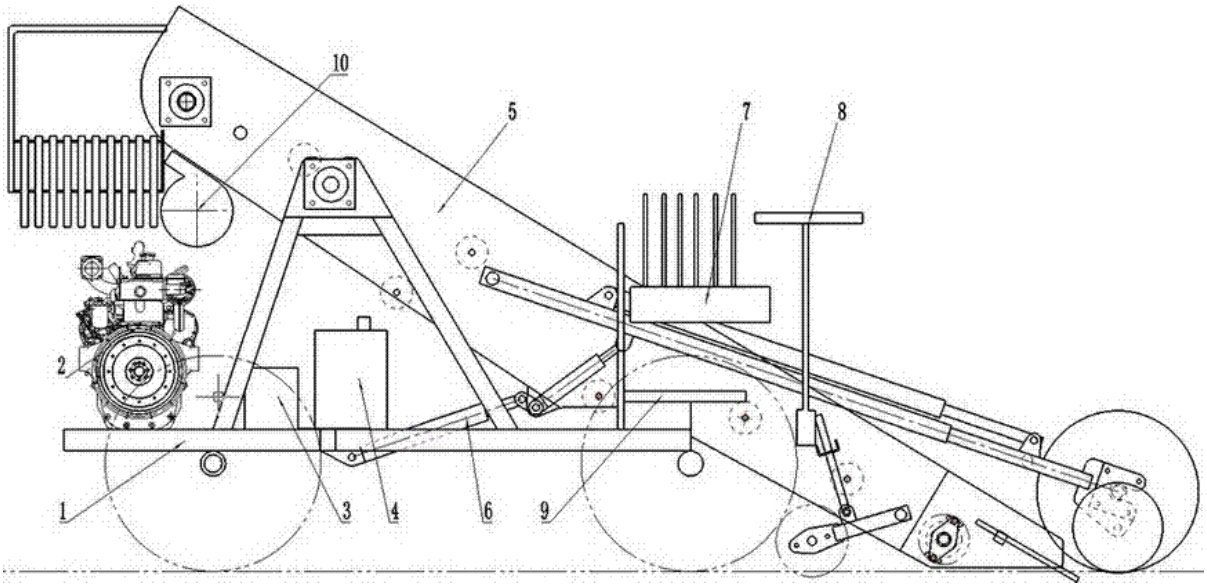
Family 20/667 - FAMPAT - ©Questel

Title

(CN206442712U)

Harvester is picked up to self -propelled dry nut

Images



Publication data including kind & date

CN206442712 U 2017-08-29 CN206442712U

Abstract

(CN206442712U)

The utility model discloses a harvester is picked up to self -propelled dry nut, including the walking chassis, engine and hydraulic pump, start -up storage battery, hydraulic tank, pick up conveying system, pick up conveying system lift cylinder, components such as hydraulic pressure valves, steering wheel, seat, clear miscellaneous fan.The utility model discloses machines are the complete machine by diesel engine drive hydraulic pump provides power, picks up conveying system and is controlled by the pneumatic cylinder, and the during operation automatic profile modeling of face is everywhere picked up sweeping roller and by two sets of cylinder control, can be realized face automatic profile modeling, steerable extension and indentation volume again everywhere, the collection can not only be picked up with inter -row dry nut to machines, can also clean the difficult dry nut that gets into of the equipment set down and collect, and easy and simple to handle, the operating efficiency is high, satisfies the especially results requirement of red date etc.Of current dry nut.

Inventors

CHEN SHAOJIE
DOU FENGLING
QINGMIN,KAN MENG
LIU HUIRONG
CHEN SHANSHAN
ZHANG SONGFENG
LU YONGTAO
ZHAO YAN

Latest standardized assignees - inventors removed

SHIHEZI DEVELOPMENT ZONE RUIYIDA MECHANICAL EQUIPMENT

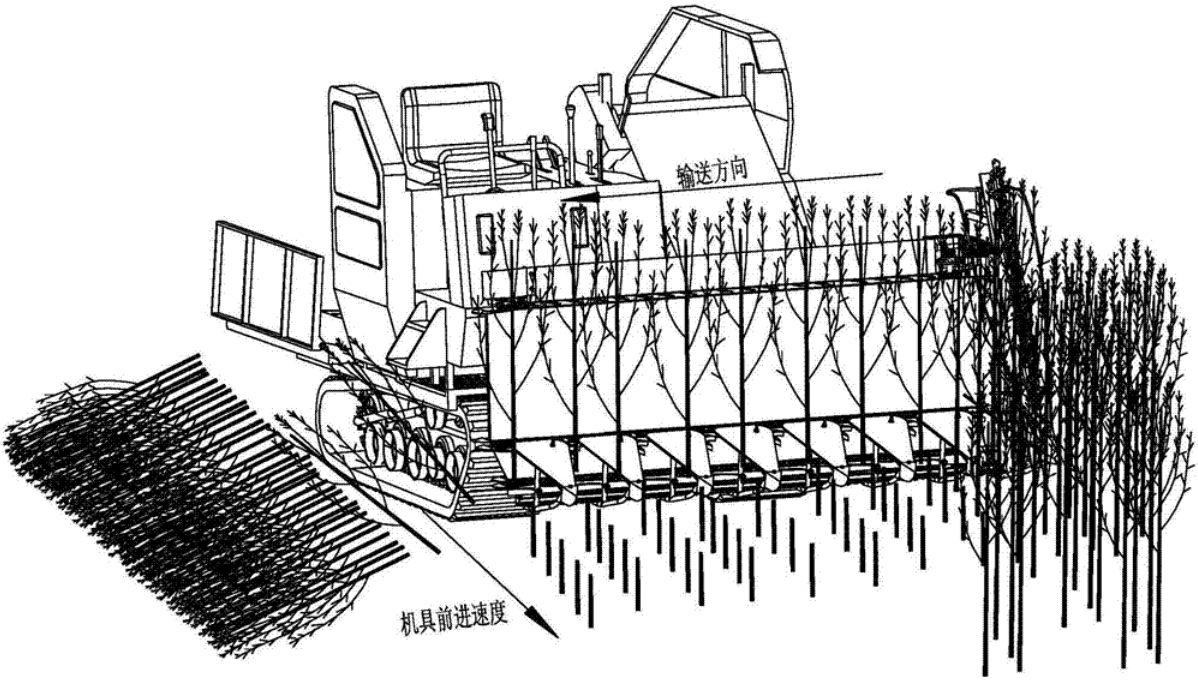
Family 21/667 - FAMPAT - ©Questel

Title

(CN107493807)

Swathing method of swather connected with combine harvester in hung mode

Images



Publication data including kind & date

CN107493807	A	2017-12-22	CN107493807
CN107493807	B	2018-05-29	CN107493807B

Abstract

(CN107493807B)

Disclosed is a swathing method of a swather connected with a combine harvester in a hung mode.The swather connected with the combine harvester in the hung mode is adopted for swathing operation and comprises a vertical swather cutting table, an intermediate connecting mechanism, an integrated hydraulic system, an integrated controller, a combine harvester conveying mechanism, a first oil cylinder execution feedback device, a second oil cylinder execution feedback device, a first hydraulic control one-way valve, a controllable hydraulic pump, a solenoid reversing valve, a manual control reversing valve, a second hydraulic control valve, a first bracket of the cutting table, a second bracket of the cutting table, a rack, a power transmission mechanism, a tensioning mechanism and an auxiliary mechanism, wherein the power transmission mechanism, the tensioning mechanism and the auxiliary mechanism are installed on the rack; through mechanical-electric-hydraulic automation, the angle of the vertical swather is automatically adjusted along with the height of the cutting table, so that the cutting table keeps perpendicular or approximately perpendicular to the ground, the response is rapid, the operation is simple, and therefore the operation effect is ensured.

Inventors

XIE FANGPING
DENG XINGWEI
WU MINGLIANG
WANG XIUSHAN
LIU DAWEI
LI XU
XIE WEI
CAO XIN
Zhuo Zheng

Latest standardized assignees - inventors removed

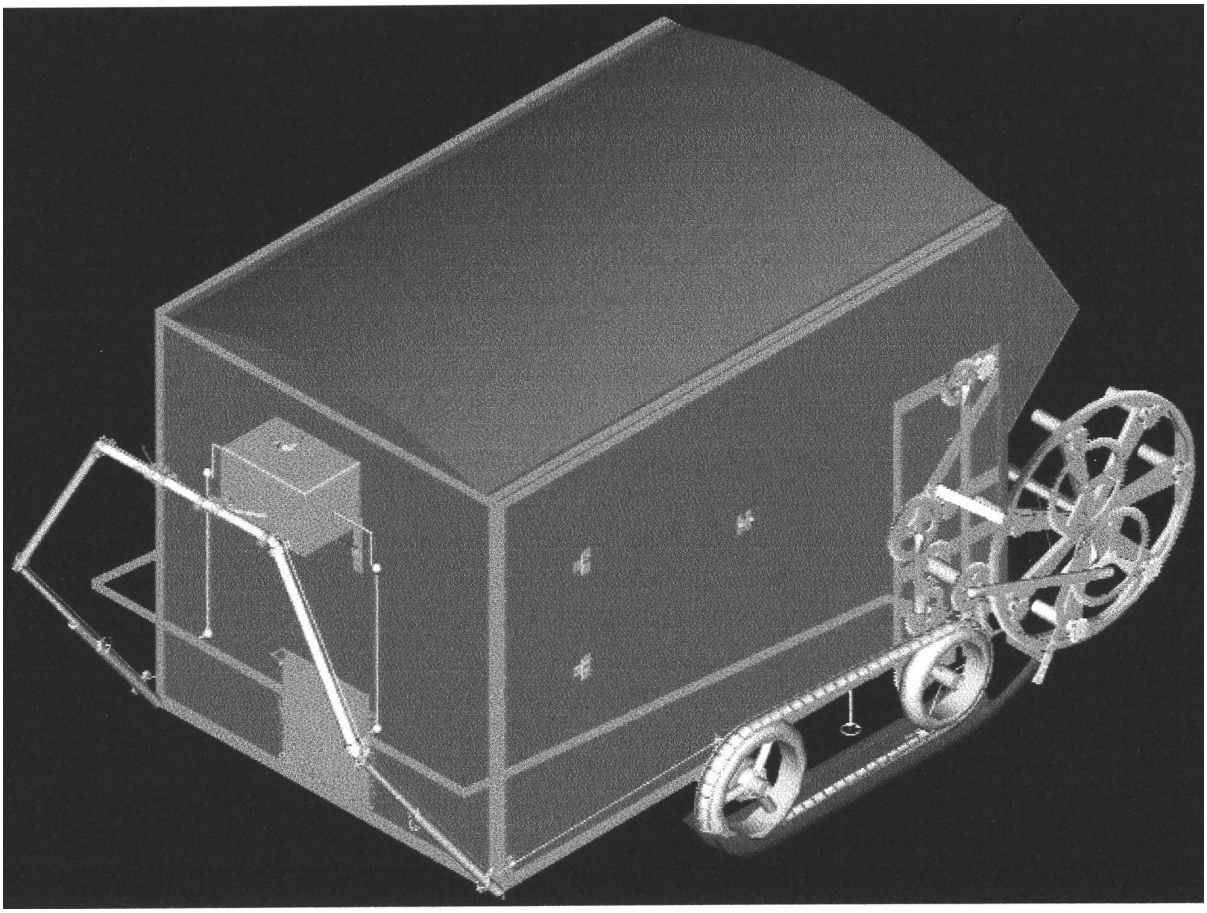
HUNAN AGRICULTURAL UNIVERSITY

Family 22/667 - FAMPAT - ©Questel

Title

(CN102160492)
Light automatic harvester

Images



Publication data including kind & date

CN102160492	A	2011-08-24	CN102160492

Abstract

(CN102160492)
Provided is a light automatic harvester which comprises an advance-and-retreat system composed of a front wheel and a rear wheel arranged at the bottom, a frame at the bottom, a stock bin on the top, a threshing cylinder, an elevating system controlling an under frame, a band knife, a disperser, a telescopic rod, a rear armrest, a brake system, a power system, and a caterpillar track system.The light automatic harvester of the invention has the advantages of being light and flexible, easy in operation, wide in application, high in efficiency and low in loss rate.The light automatic harvester can be applied to

both paddy field and upland field, can be operated by one worker only, merely weighs 100 kilograms, adopts double rollers for threshing, and allows simultaneous harvesting and threshing.The working procedures are as follows: firstly, when the power machine starts to work, acting force is conveyed to the power shaft of every engine gear through power support bars, thus to rotate the engine gears of both large and small rollers as well as the engine gear shared by the telescoping rod and the front wheel gear; secondly, meanwhile, the band knife, driven by draw sheets and springs of the draw sheets, starts to work; third, the telescoping rod pulls spikes of rice inside the harvester; fourth, the small and large rollers thresh; and fifth, the grain is put in the stock bin.The caterpillar track system is employed for working in paddy field only and the brake system is only used for traveling on road.

Inventors

WU DAIHUA

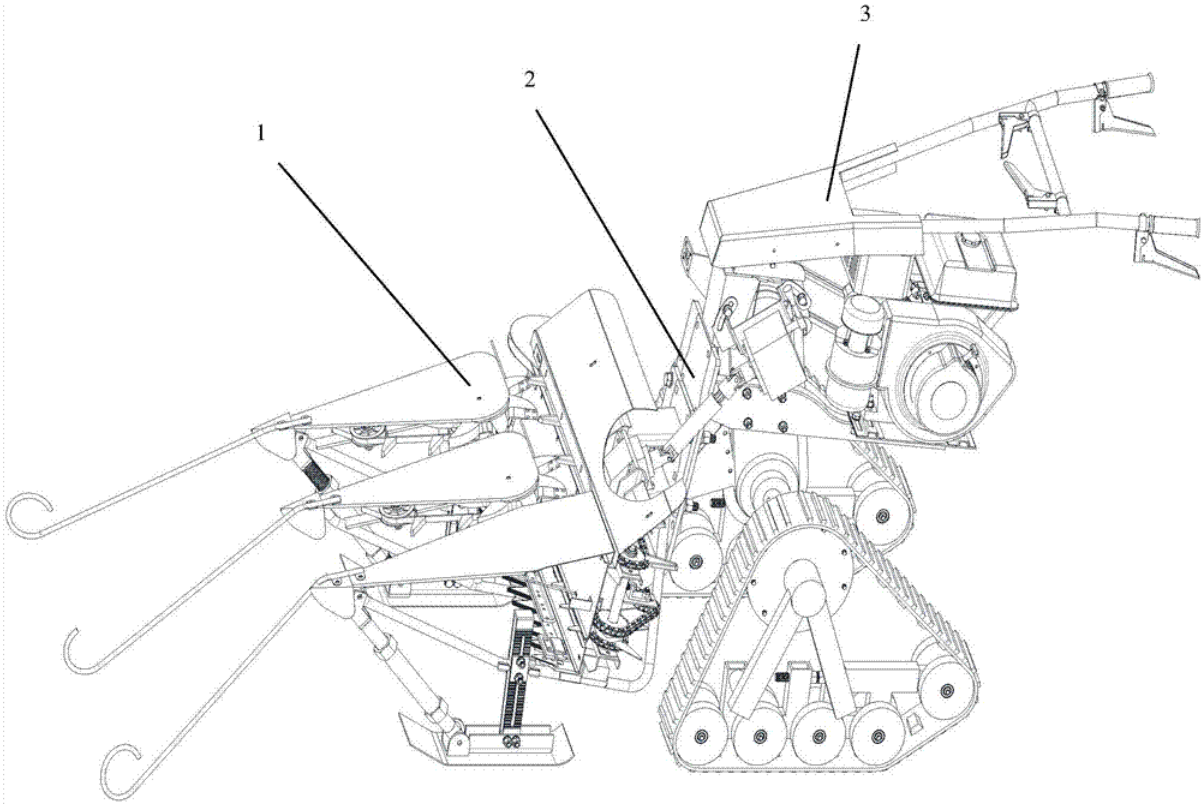
Family 23/667 - FAMPAT - ©Questel

Title

(CN106034536)

Hybrid mulberry harvester with stubble cutting height adjusting characteristic

Images



Publication data including kind & date

CN106034536	A	2016-10-26	CN106034536
CN106034536	B	2018-03-09	CN106034536B

Abstract

(CN106034536B)

The invention relates to a hybrid mulberry harvester with a stubble cutting height adjusting characteristic.The harvester comprises a walking part, a cutting table and an intermediate connecting part.Walking wheels employ triangular crawler belts or driving wheels formed by height adjusting structures, so that adjustment of a liftoff gap of a chassis can be realized.The cutting table consists of a conveying mechanism, a grain lifting mechanism, a gathering mechanism, a cutting knife, a frame and a cutting table support mechanism; and the cutting table support mechanism employs a sliding shoe type.The intermediate connecting part includes a large adjusting plate, a small adjusting plate, and a telescopic universal joint.According to the invention, a flat stubble cutting effect is realized.The harvester does not grind cut stubble and is capable of adjusting the stubble cutting height according to the harvest season and production requirements of hybrid

mulberries.The harvester has characteristics of simple structure, easy installation and maintenance, high security and reliability, high practicability and the like and has the broad promotion prospects.

Inventors

LI FADE
GAO TIANHAO
SONG ZHANHUA
Yan Yinfa
CHEN CHAOKE
WANG JING
WANG YONGBIN
XIE XUEWEN
CHEN HAORAN
GUO QINGHUI

Latest standardized assignees - inventors removed

SHANDONG AGRICULTURAL UNIVERSITY

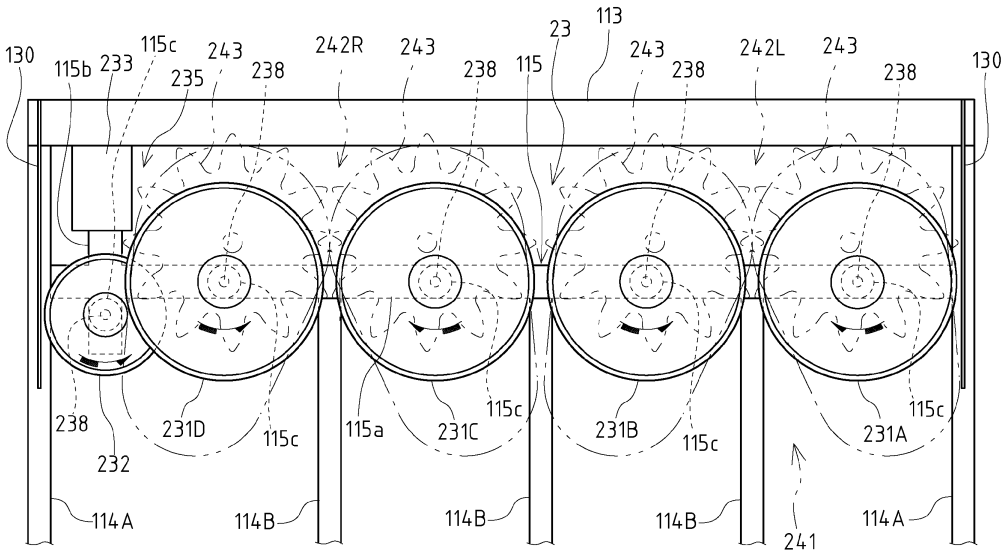
Family 24/667 - FAMPAT - ©Questel

Title

(WO2009147887)
Reaping part of a combine

Images

[図4]



Publication data including kind & date

WO2009147887	A1	2009-12-10	WO2009147887
JP2009291149	A	2009-12-17	JP2009291149
JP2009291148	A	2009-12-17	JP2009291148
JP2010035460	A	2010-02-18	JP2010035460
JP2010035461	A	2010-02-18	JP2010035461
KR20100136568	A	2010-12-28	KR20100136568
CN102045998	A	2011-05-04	CN102045998
JP4976340	B2	2012-07-18	JP4976340

JP4986950	B2	2012-07-25	JP4986950
JP5027738	B2	2012-09-19	JP5027738
CN102045998	B	2012-10-10	CN102045998B
KR101250562	B1	2013-04-03	KR101250562

Abstract

(WO2009147887)

Provided is a reaping part of a combine in which vibration and noise generated by the cutting device is reduced and the configuration of the cutting device is simplified.In the reaping part of the combine, the cutting device (23) is provided with multiple disc-shaped cutting blades (231) that cut stalks at the base and one disc-shaped auxiliary cutting blade (232) that is configured with a smaller diameter than cutting blades (231) and that cuts the stalks at the base, all blades being rotatable.The multiple cutting blades (231) are arranged on roughly the same line in the left-to-right direction.The auxiliary cutting blade (232) is positioned to the outside of either the right or left outermost cutting blade (231) of the multiple cutting blades (231).

Inventors

MORIYAMA KOUJI

NOMURA HIROHISA

IMADA KOUICHI

Latest standardized assignees - inventors removed

YANMAR

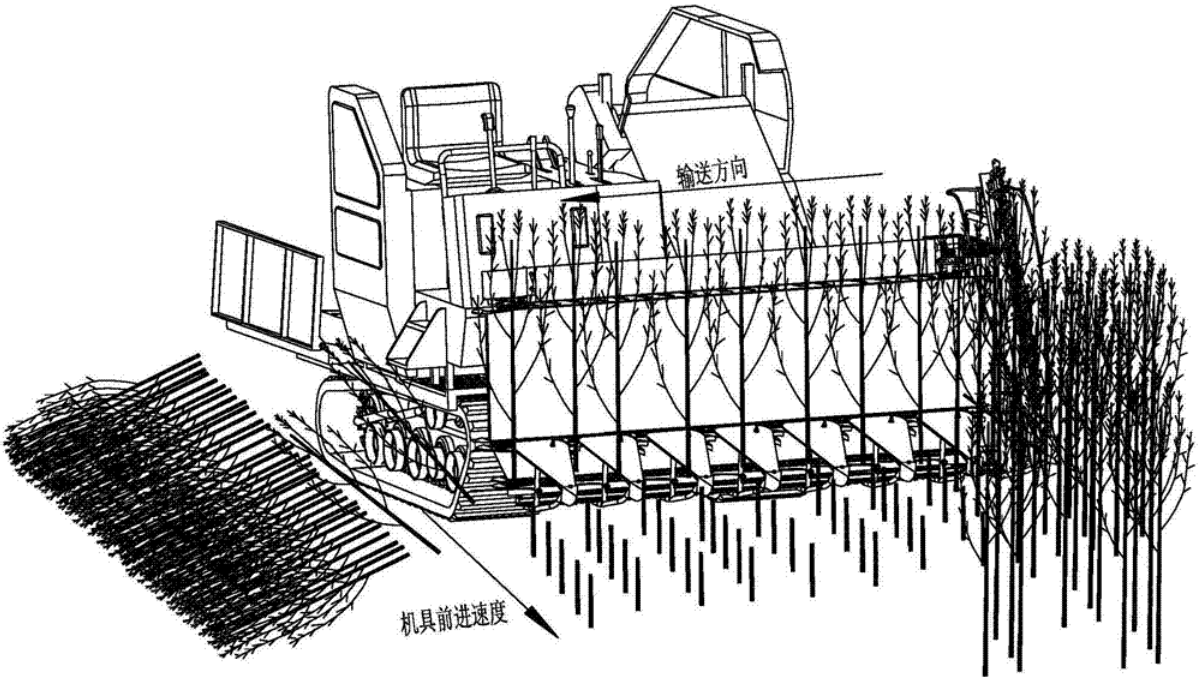
Family 25/667 - FAMPAT - ©Questel

Title

(CN107347365)

Windrower hooked to combine-harvester

Images



Publication data including kind & date

CN107347365	A	2017-11-17	CN107347365
CN107347365	B	2018-05-25	CN107347365B

Abstract

(CN107347365B)

The invention relates to a windrower hooked to a combine-harvester.A header of the vertical windrower is connected with a conveying mechanism of the combine-harvester through a middle connection mechanism, an integrated hydraulic system

and an integrated controller are arranged on one side of the conveying mechanism of the combine-harvester, one end of a first oil cylinder executive feedback device is arranged on the middle connection mechanism, and the other end of the first oil cylinder executive feedback device is arranged on the header of the vertical windrower; one end of a second oil cylinder executive feedback device is arranged on the conveying mechanism of the combine-harvester, and the other end of the second oil cylinder executive feedback device is arranged on the combine-harvester; the first oil cylinder executive feedback device is connected with a first hydraulic control one-way valve, the first hydraulic control one-way valve is connected with an electromagnetic directional valve, and the second oil cylinder executive feedback device is connected with a second hydraulic control one-way valve; the second hydraulic control one-way valve is connected with a manual control directional valve, the integrated controller is connected with the first oil cylinder executive feedback device and the second oil cylinder executive feedback device, and a power transmission mechanism, a tensioning mechanism and an auxiliary mechanism are arranged on a rack.The windrower hooked to the combine-harvester is easy to operate, neat and orderly in laying, good in operation quality and high in production efficiency.

Inventors

XIE FANGPING
CAO XIN
WU MINGLIANG
WANG XIUSHAN
LIU DAWEI
LI XU
XIE WEI
DENG XINGWEI
Zhuo Zheng

Latest standardized assignees - inventors removed

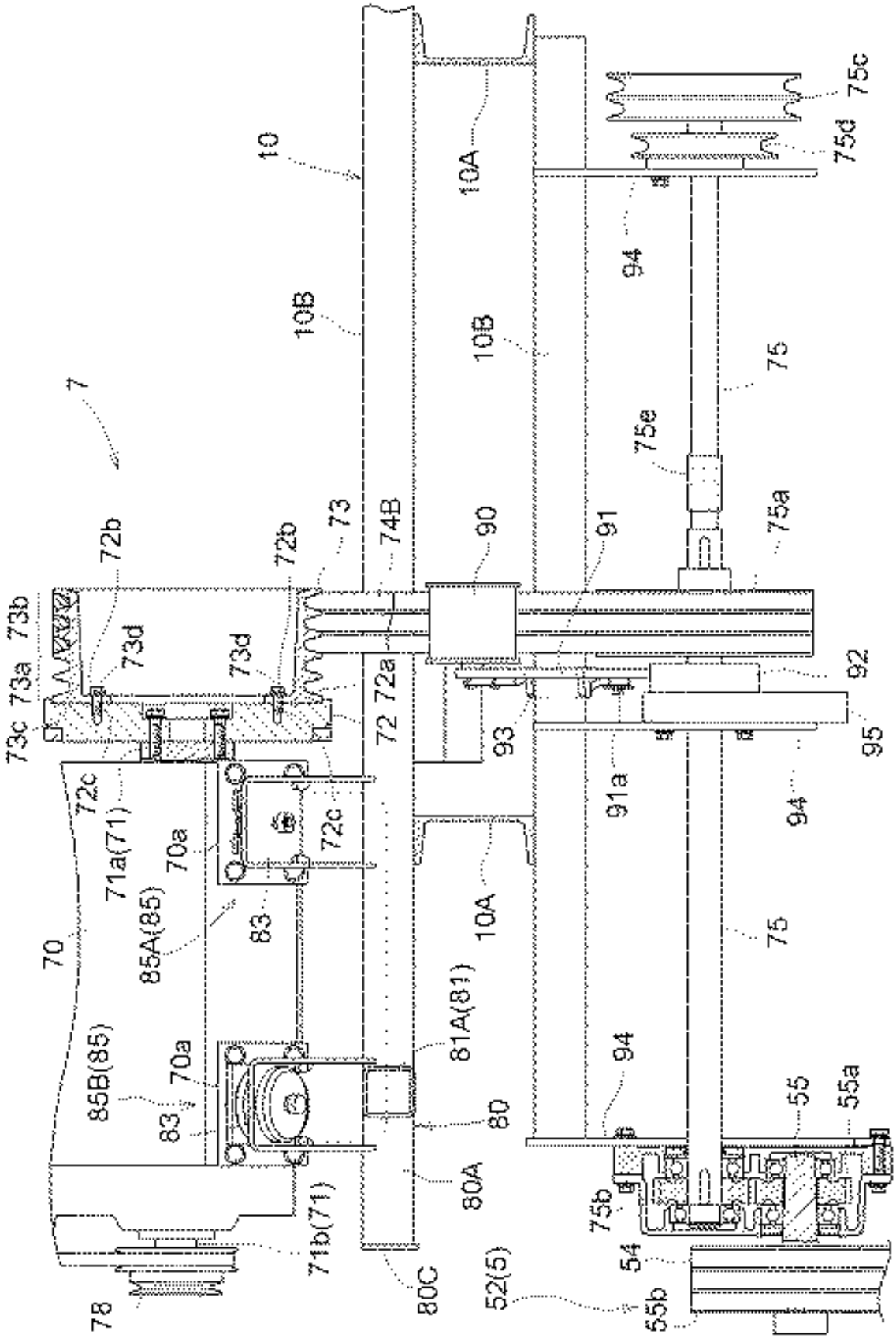
HUNAN AGRICULTURAL UNIVERSITY

Family 26/667 - FAMPAT - ©Questel

Title

(JP2014209889)
Harvester

Images



Publication data including kind & date

CN203912602	U	2014-11-05	CN203912602U
JP2014209889	A	2014-11-13	JP2014209889
JP6104031	B2	2017-03-29	JP6104031

Abstract

(JP6104031)

PROBLEM TO BE SOLVED: To devise a structure of a fly wheel and an outputting pulley at a power output part of an engine of a harvester to obtain a durable transmission structure.SOLUTION: A harvester, in which power from the engine

70 is transferred to a traveling device and a work device, includes: a fly wheel 72 provided in an output shaft 71 of the engine 70: and an outputting pulley 73 around which a transmission belt 74B for extracting power from the engine 70 is looped.The outputting pulley 73 is coupled to the fly wheel 72 at a part near the center location thereof in a radial direction relative to the outer peripheral surface thereof around which the transmission belt 74B is looped.

Inventors

Yuki Nagata
TANAKA YUJI
Koji Yamagata
Mikio Okada
Yoshida Yasaku
Chiharu Kami Kita

Latest standardized assignees - inventors removed

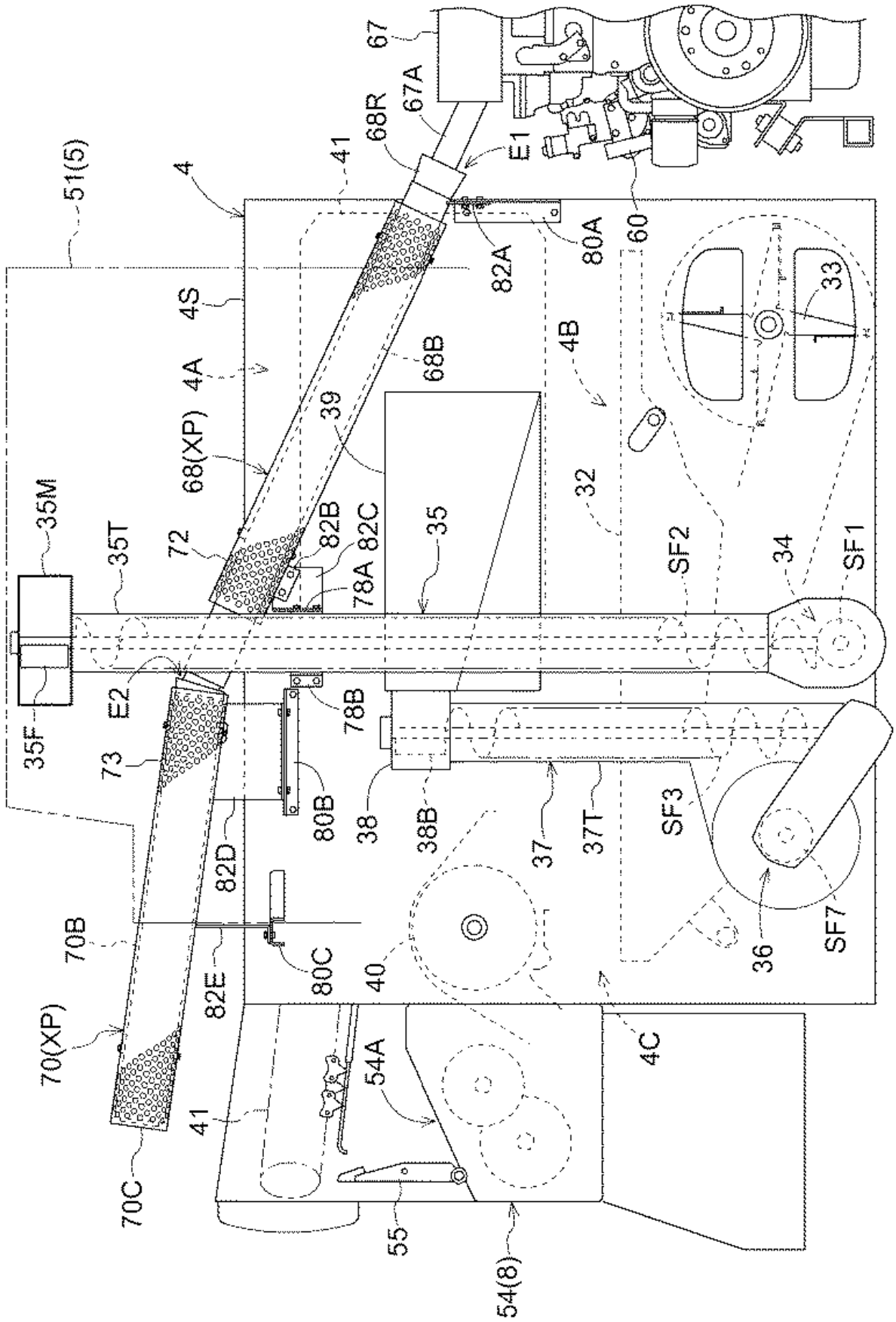
KUBOTA

Family 27/667 - FAMPAT - ©Questel

Title

(JP2012060955)
Exhaust structure of combine harvester

Images



Publication data including kind & date

JP2012060955	A	2012-03-29	JP2012060955
CN202269177	U	2012-06-13	CN202269177U
JP5635853	B2	2014-12-03	JP5635853

Abstract

(JP5635853)

PROBLEM TO BE SOLVED: To make the exhaust structure of a combine harvester, equipped with a reaping part installed

at the front part of a traveling machine body, an operating part installed at the rear direction of the reaping part, a threshing device and a recovering part for recovering cereal grains, installed in parallel in the left and right direction of rear direction of the operating part, a discharged straw-treating part installed at the rear direction of the threshing part and an exhaust pipe for exhausting exhaust gas from an engine installed at the lower direction of the operating part, so that the exhaust gas hardly moves toward an operator in the operating part and also straw dusts and mud hardly pile up over the whole part of the exhaust pipe.SOLUTION: This exhaust structure of the combine harvester is provided by passing the exhaust pipe XP as slanting and facing upward between the threshing device 4 and recovering part 5 from the exhaust part 67A of the engine 60, and arranging the exhaust outlet 70C of the exhaust pipe XP at the upper direction of the discharged straw-treating part 8 (54).

Inventors

MATSUSHITA HIROAKI

Latest standardized assignees - inventors removed

KUBOTA

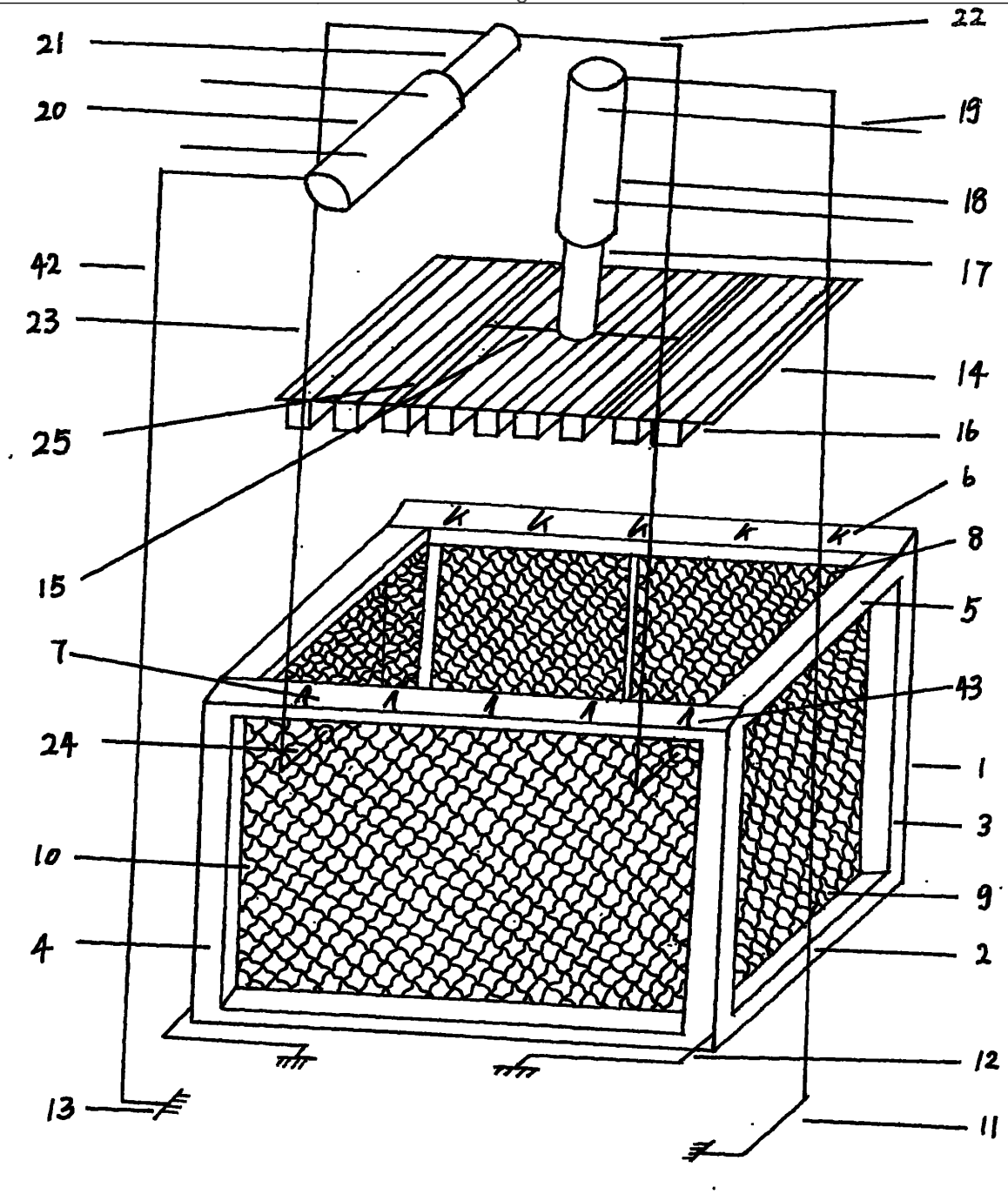
Family 28/667 - FAMPAT - ©Questel

Title

(CN101965772B)

Stalk collecting device of harvester

Images



Publication data including kind & date

CN101965772	A	2011-02-09	CN101965772
CN101965772	B	2014-12-10	CN101965772B

Abstract

(CN101965772B)

The invention relates to a stalk collecting device of a harvester.A stalk collecting box, a stalk pressing device, a stalk push device and an auxiliary structure are fixedly installed on the harvester by a support structure which is connected and fixed on a harvester body frame; when the harvester starts working, stalks are charged into the stalk collecting box by a stalk outlet; the stalk pressing device is started to compress the stalks; both ends of a U-shaped iron wire in the stalk collecting box are connected and buckled to pull the stalk pressing device, a box door is opened, and the stalk push device is started to push the finished stalks out of the stalk collecting box, thereby realizing the effect that the harvester collects the stalks in the harvesting process and packages the stalks into finished stalks on the harvester, fully utilizing stalk resources and protecting environment.

Inventors

BIAN KANGQUN

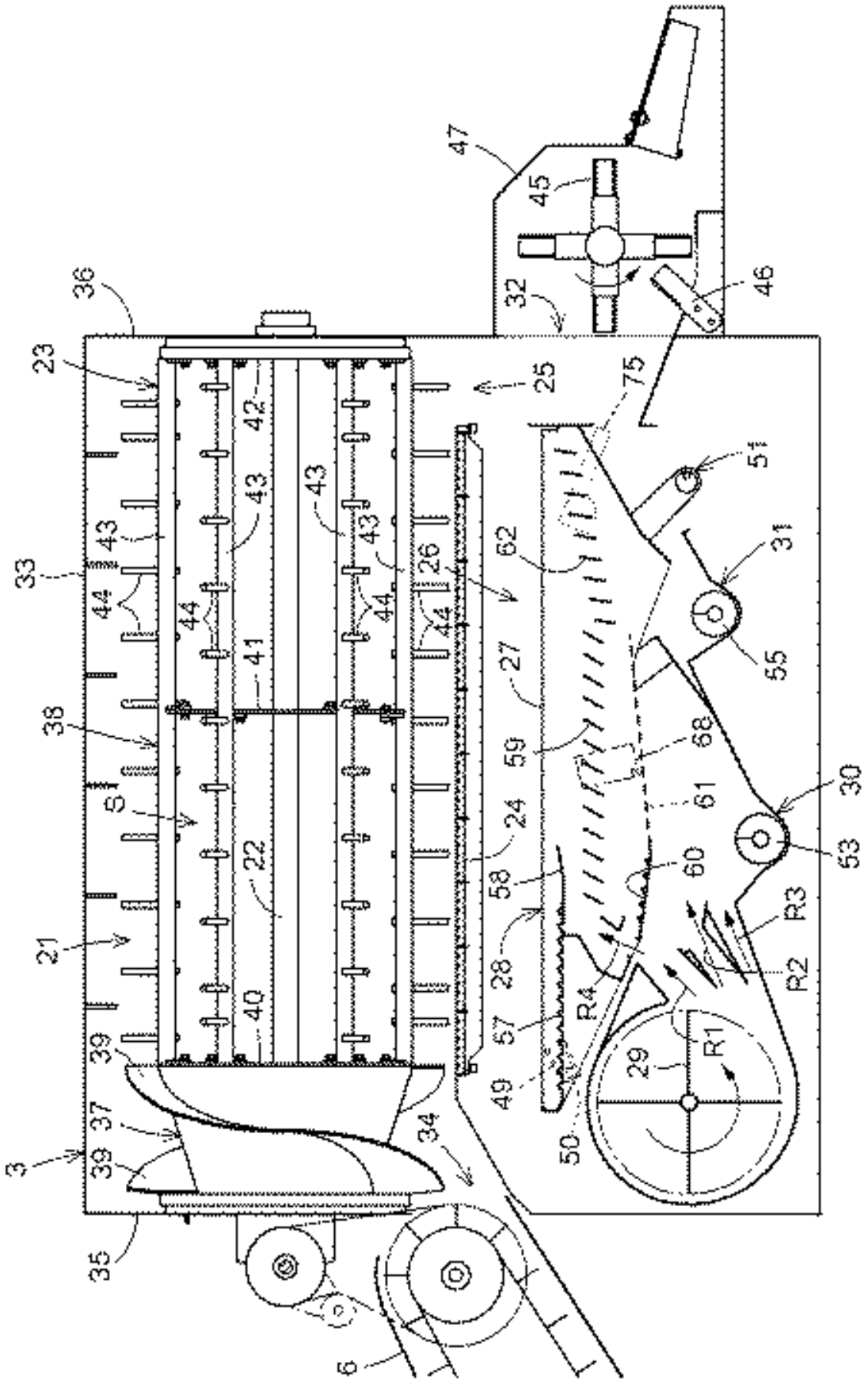
Family 29/667 - FAMPAT - ©Questel

Title

(JP2010252720)

Chaff sieve structure in combine harvester

Images



Publication data including kind & date

JP2010233474	A	2010-10-21	JP2010233474
JP2010252720	A	2010-11-11	JP2010252720
CN101933431	A	2011-01-05	CN101933431
JP4956576	B2	2012-06-20	JP4956576
JP5081193	B2	2012-11-21	JP5081193
CN103168553	A	2013-06-26	CN103168553
CN101933431	B	2013-10-09	CN101933431B
CN103168553	B	2015-06-10	CN103168553B

Abstract

(JP5081193)

PROBLEM TO BE SOLVED: To provide a chaff sieve structure in a combine harvester for enabling efficient assembly of a chaff sieve in a sieve case.

SOLUTION: In the chaff sieve structure in the combine harvester configured to alter the opening of the chaff sieve for sorting threshed products, the lateral width of the chaff sieve 62 is formed into a size to house it between right and left side boards 27a of the sieve case 27.A pair of right and left chaff sieve mounting frames 86 are configured to mount on the right and left side boards 27a of the sieve case 27.An operational part 81 for altering the angle of a sorting plate 73 engages a supporting frame 74 or the sorting plate 73 from the outside of the sieve case 27, and an operational device 75 is attached to the side board 27a of the sieve case 27 via an attachment member 101a.

COPYRIGHT: (C)2011,JPO&INPIT

Inventors

MITSUI TAKAFUMI

TANAKA YUJI

Latest standardized assignees - inventors removed

KUBOTA

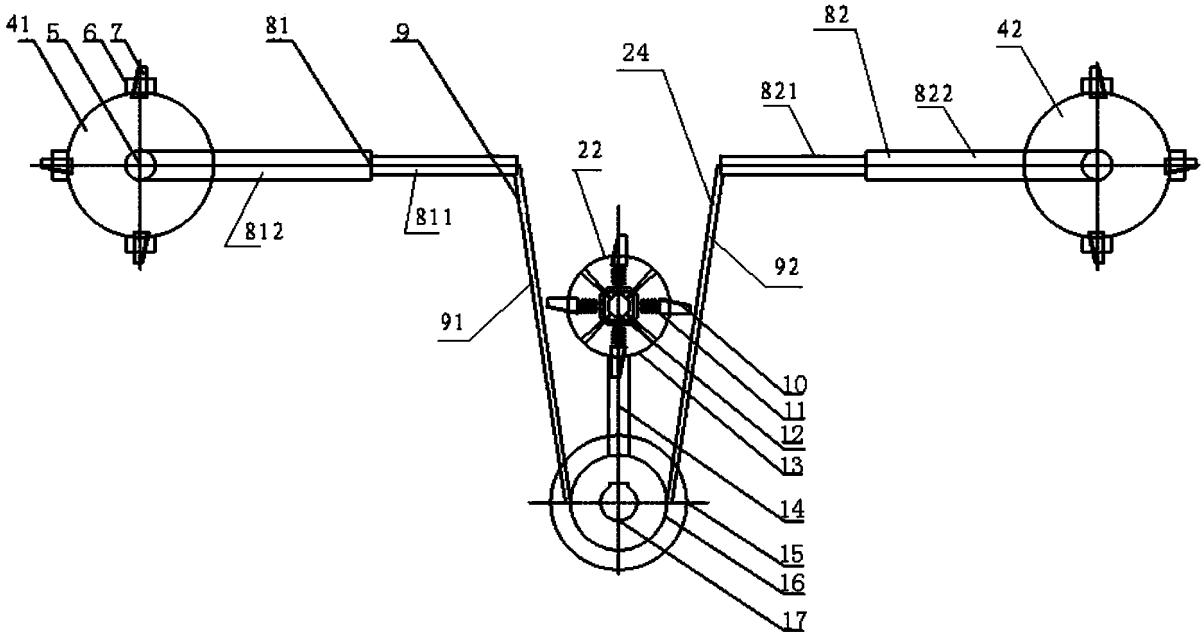
Family 30/667 - FAMPAT - ©Questel

Title

(CN203872596U)

Tip cutting device of sugarcane harvester

Images



Publication data including kind & date

CN203872596	U	2014-10-15	CN203872596U

Abstract

(CN203872596U)

The utility model provides a tip cutting device of a sugarcane harvester which comprises guide cylinders, telescopic driving devices and a tip cutting mechanism.The outer walls of the guide cylinders are provided with a plurality of protrusions and a plurality of first tip cutting blades, the number of the guide cylinders is two, and the first guide cylinder and the second guide cylinder are arranged symmetrically.Each telescopic driving device comprises a guide rod and a sleeve rod matched with the guide rod and is arranged in the horizontal direction.The end of the first guide rod of the first telescopic driving device and the end of the second guide rod of the second telescopic driving device are respectively connected with a baffle, and the arrayed cross sections of the two baffles are of a V-shaped structure.The tip cutting mechanism is arranged between the two baffles, a plurality of second tip cutting blades are arranged on the edge of a tip cutting disk, one ends of the tip cutting blades are provided with distance adjusting devices which are connected with the tip cutting disk, and the tip cutting disk is connected with a front and back adjusting device.According to the tip cutting device of the sugarcane harvester, the distance between tip cutting parts can be adjusted according to the site harvesting conditions of sugarcanes, the impurity rate can be effectively reduced, and the quality of cane sugar is improved.

Inventors

HUANG YIQI
LI XIAOFENG
WANG XIAOBO
TANG WENHENG
LUO ZHAOYU
LU HONG
YANG YONGZHENG
LIN XUHUA

Latest standardized assignees - inventors removed

GUANGXI UNIVERSITY

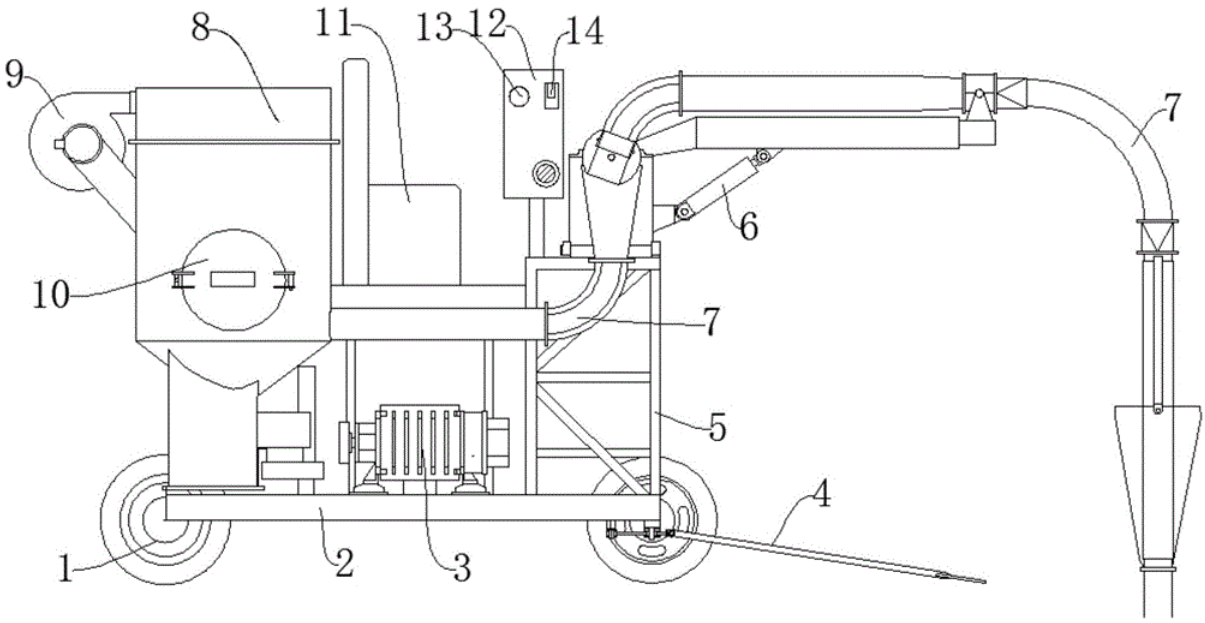
Family 31/667 - FAMPAT - ©Questel

Title

(CN106068880)

Modern agriculture-based harvester special for peanuts

Images



Publication data including kind & date

CN106068880 A 2016-11-09 CN106068880

Abstract

(CN106068880)

The invention discloses a modern agriculture-based harvester special for peanuts.The modern agriculture-based harvester comprises wheels, a base plate and a diesel engine, wherein the base plate is arranged above the wheels; a digging shovel is arranged on the wheels; the diesel engine is arranged on the base plate; a supporting frame is arranged on the base plate; a storage bin is arranged on one side of the diesel engine; an exhaust fan is arranged above the storage bin; an observation window is arranged on the storage bin; a communicating pipe is arranged on the supporting frame; a telescopic supporting rod is arranged between the supporting frame and the communicating pipe; a seat is arranged on the supporting frame; a control panel is arranged on one side of the seat; a switch is arranged on the control panel; an indicator lamp is arranged on one side of the switch.The modern agriculture-based harvester special for the peanuts has the beneficial effects of being high in automation degree, reducing the dependency of harvesting the peanuts on manpower and relieving the labor of farmers; by the arrangement of the telescopic supporting rod, the height of an end opening of the communicating pipe can be adjusted according to different crops, and the application range is large.

Inventors

ZHANG XUAN

Latest standardized assignees - inventors removed

XUZHOU JIAWANG TAIRUI AGRICULTURAL TECHNOLOGY

Family 32/667 - FAMPAT - ©Questel

Title

(FR2345063)

Mobile fruit harvester with collecting sheet - has grader drum maintained horizontal by hydraulic ram and hydraulically vibrated shaker with telescopic arms

Publication data including kind & date

FR2345063	A1	1977-10-21	FR2345063
FR2345063	B3	1978-12-15	FR2345063
IT1081869	B	1985-05-21	IT1081869

Abstract

(FR2345063)

A mobile fruit harvester comprises a tree shaker and a collecting sheet which funnels the fallen fruit to a size grader, a store, or a grinder.The collecting sheet is in four quarters supported by radiating rods pivoted to four crown wheels meshing with each other.One of the crown wheels is hydraulically driven.The grader is a drum rotated by the drive motor and comprises a grating for removing rubbish.The grader is maintained horizontal when working on slopes, by a ram.Air is blown at the height of the grader and at the sheet.The shaker comprises cushioned jaws supported by telescopic arms controlled by rams, and a hydraulic vibrator.

Latest standardized assignees - inventors removed

HENNEQUIN JEAN

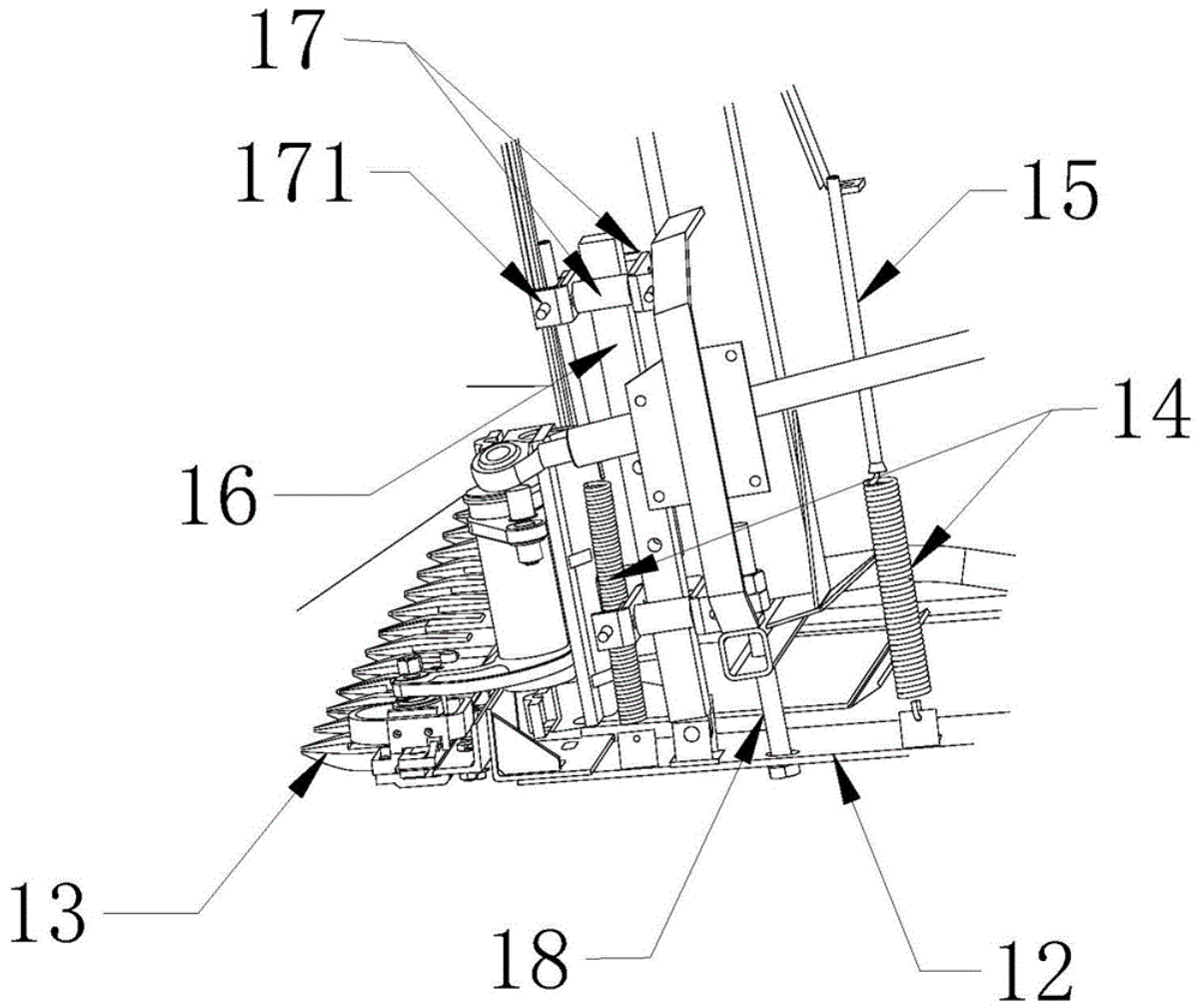
Family 33/667 - FAMPAT - ©Questel

Title

(CN104472101)

Floating header and combined harvester with same

Images



Publication data including kind & date

CN104472101	A	2015-04-01	CN104472101
CN104472101	B	2017-01-25	CN104472101B

Abstract

(CN104472101B)

The invention provides a floating header and a combined harvester with the same.The floating header comprises a slide plate group, a plate spring group and a fine adjustment floating mechanism.The slide plate group is positioned at the bottom of a header, and the fine adjustment floating mechanism comprises a cutter floating assembly; the fine adjustment floating mechanism comprises tension springs, a guide rod and roller trains; the slide plate group comprises a plurality of large and small slide plates; one end of each plate spring is fixed onto the corresponding slide plate, and the other end of each plate spring backwardly and downwardly extends to be hinged onto a rear main frame of the header by a hinge pin; one end of each tension spring is fixed to the end, which is close to a cutter, of the corresponding plate spring, and the other end of each tension spring is hung on a front lower main frame of the header by the aid of a long bolt; one end of the guide rod is hinged onto the plate springs, the upper portion of the guide rod is limited in the certain roller train, and the guide rod can slide up and down under the effect of the certain roller train; the roller trains are fixed onto frames on the side walls of the header.The floating header and the combined harvester have the advantages that the productivity can be effectively improved when grains are harvested by the combined harvester, and the grain harvest loss can be reduced.

Inventors

LIANG SUNING
JIN CHENGQIAN
YONGSHENG,XIAO CHEN
NI YOULIANG
TANG ZONGYI

Latest standardized assignees - inventors removed

NANJING RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION MINISTRY OF AGRICULTURE OF THE PEOPLE S REPUBLIC OF CHINA

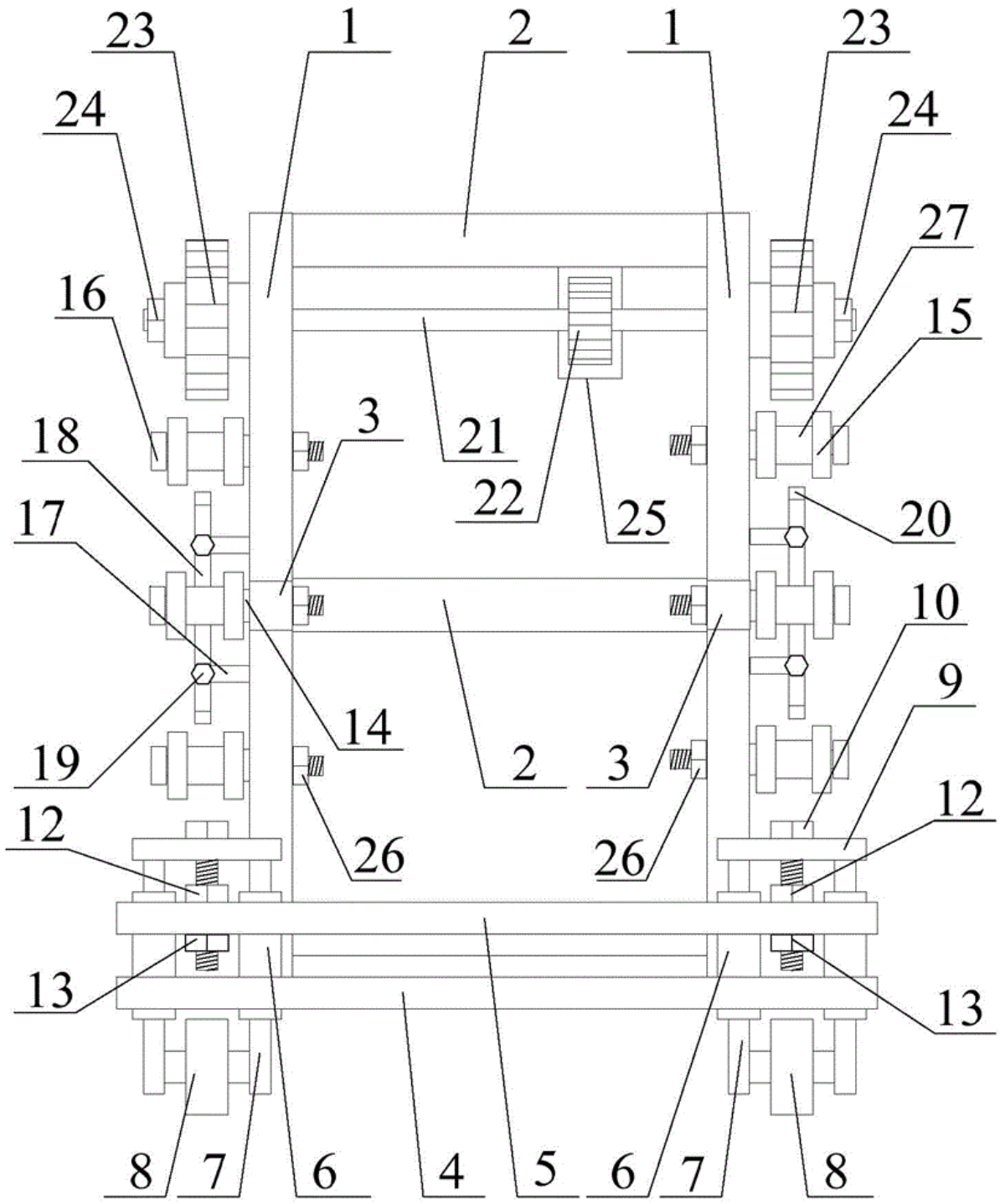
Family 34/667 - FAMPAT - ©Questel

Title

(CN104322214)

Track installing base plate of combine harvester

Images



Publication data including kind & date

CN104322214	A	2015-02-04	CN104322214
CN104322214	B	2017-01-11	CN104322214B

Abstract

(CN104322214B)

The invention provides a track installing base plate of a combine harvester.The track installing base plate comprises a track

base plate structure, a track driving structure and a track tensioning structure, wherein the track base plate structure comprises two parallel bearing beams, three supporting beams, two supporting columns, a bearing wheel, a bearing shaft and a shaft head nut, the track driving structure comprises a driving shaft, two driving gears and two fixed nuts, the track tensioning structure comprises a horizontal beam horizontally arranged on the other end of each bearing beam, tensioning mechanisms are respectively arranged on the two extending ends of the horizontal beam, and each tensioning mechanism comprises two flexible sleeves, a locking bolt, a pushing board, a front nut, a back nut, two pushing rods and a tensioning wheel.The track installing base plate can adjust the tensioning degree in real time, the bearing wheel is convenient to exchange, and the track installing base plate has a higher application prospect.

Inventors

ZHAO WEIQING

ZHU FENGNIAN

Latest standardized assignees - inventors removed

XINGHUA LIYUAN AGRICULTURAL EQUIPMENT MANUFACTURING

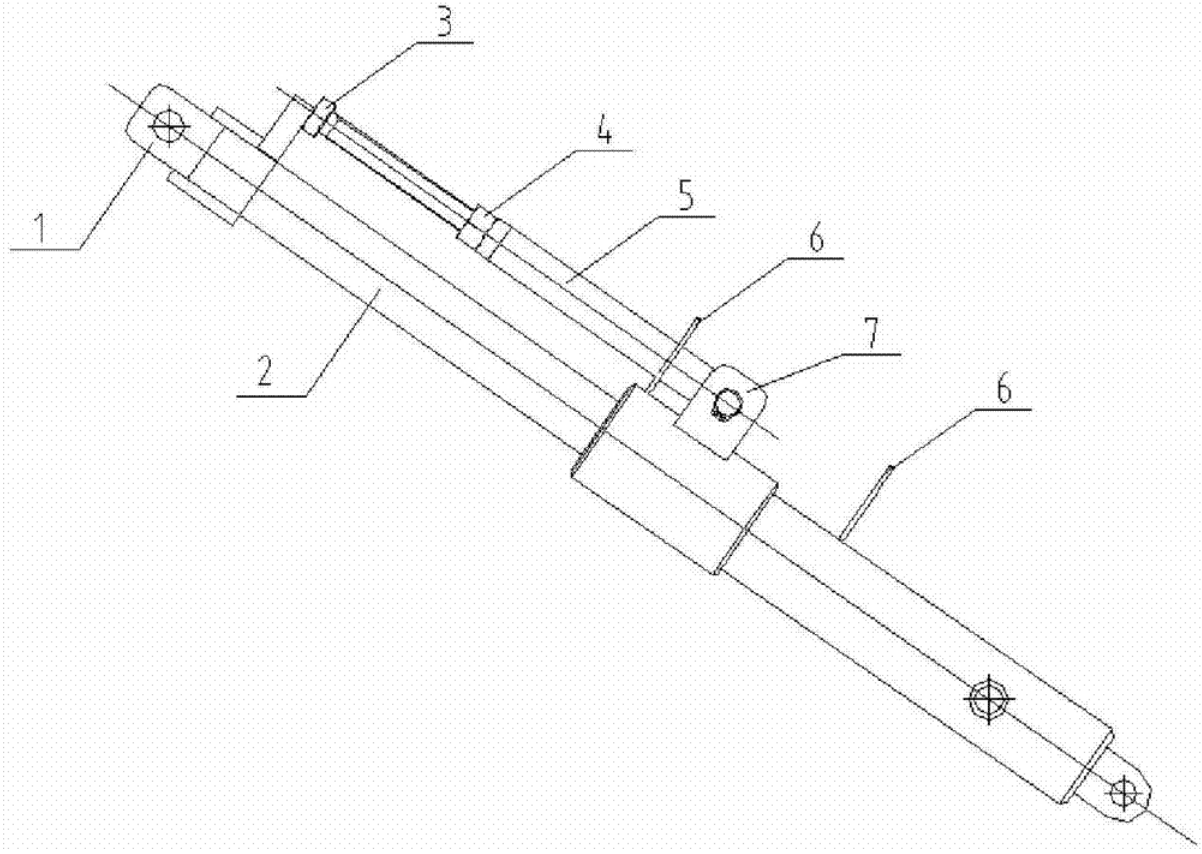
Family 35/667 - FAMPAT - ©Questel

Title

(CN107114072)

Harvester oil cylinder travel limit safety device

Images



Publication data including kind & date

CN107114072	A	2017-09-01	CN107114072

Abstract

(CN107114072)

The invention discloses a harvester oil cylinder travel limit safety device.The device comprises a limit base, a telescopic oil cylinder, an adjusting bolt, a bolt fixation base and a fixation base; the limit base is arranged on the top end of the telescopic oil cylinder; the adjusting bolt is fixed to the bolt fixation base, and the bolt fixation base is connected to the fixation base of the telescopic oil cylinder.Under the circumstance that the telescopic oil cylinder all extends out, the length of the adjusting bolt is regulated, an adjusting nut is fastened, and the direction of the bolt fixation base is regulated to

make the adjusting bolt flush with the limit base; the telescopic oil cylinder is locked and cannot stretch and retract, so that the problems that a liquid hydraulic system fails suddenly and a cutting table falls down suddenly and accordingly the personal safety hazard is caused are solved.According to the device, the travel of the telescopic oil cylinder can be limited according to specific circumstances; the device satisfies different functions, is simple in structure and low in cost, and makes personnel safety get a guarantee.

Inventors

WANG GUODONG

GONG XUELIANG

SONG LAIHUI

Latest standardized assignees - inventors removed

ZOOMLION HEAVY MACHINERY

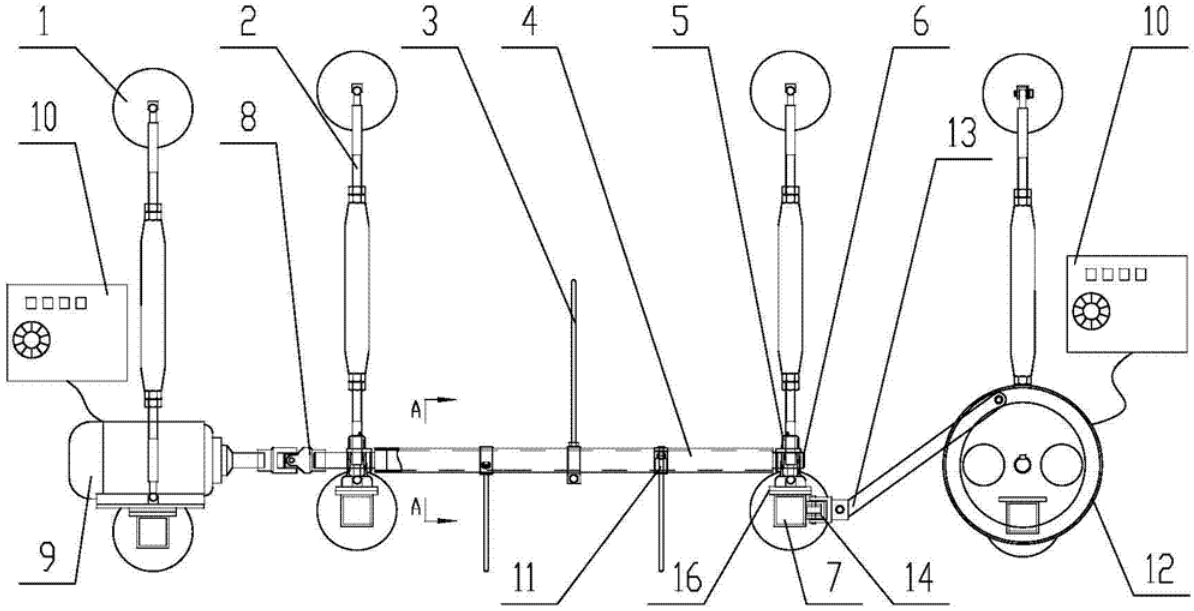
Family 36/667 - FAMPAT - ©Questel

Title

(CN105532175)

Grass discharging anti-blocking device for harvester and working method thereof

Images



Publication data including kind & date

CN105532175	A	2016-05-04	CN105532175
CN105532175	B	2018-01-02	CN105532175B

Abstract

(CN105532175B)

The invention discloses a grass discharging anti-blocking device for a harvester and a working method thereof, and belongs to the technical field of agricultural machines.The grass discharging anti-blocking device structurally comprises a transmission pipe shaft.A plurality of poking teeth are installed on the transmission pipe shaft.The poking teeth are spirally distributed in the axis direction of the transmission pipe shaft and do reciprocating motion in the axis direction of the transmission pipe shaft while the transmission pipe shaft rotates.The transmission pipe shaft drives the poking teeth to rotate and is provided with a connecting device connected with the harvester.The transmission pipe shaft drives the poking teeth to rotate and do the reciprocating motion in the axis direction of the transmission pipe shaft, the spreading area is increased, the poking teeth poke materials at a grass discharging opening out and spread the materials, the situation that the materials accumulate on the same point of the grass discharging opening and block the grass discharging opening is effectively avoided, and smooth operation of product quality detection work is guaranteed.

Inventors

WEI YUANZHEN

XUE MING

MA XIAO

LIU QINGGUO

CHEN MINGCHUAN

Latest standardized assignees - inventors removed

SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES

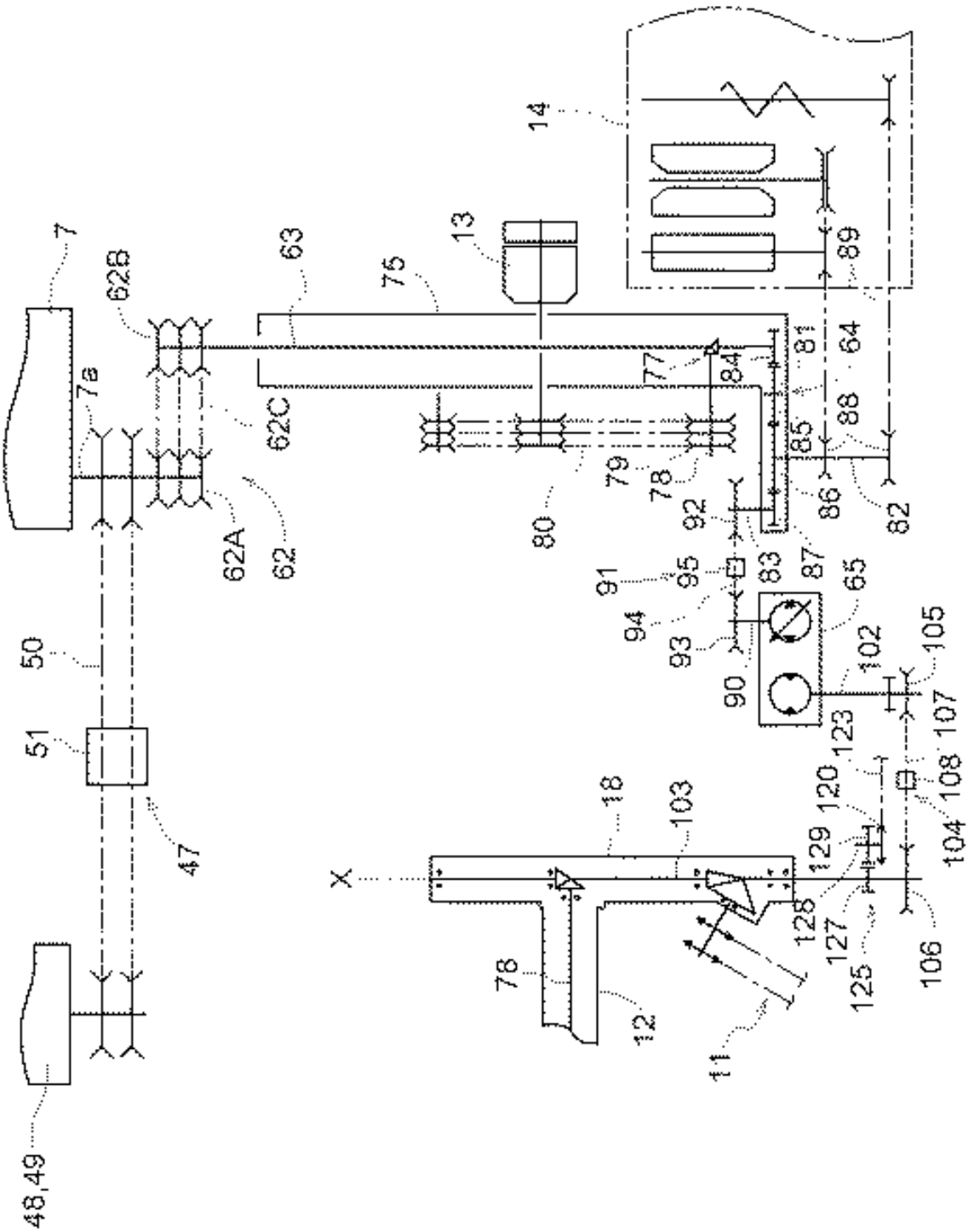
Family 37/667 - FAMPAT - ©Questel

Title

(JP2014113111)

Combine harvester

Images



Publication data including kind & date

CN103858587	A	2014-06-18	CN103858587
KR20140075575	A	2014-06-19	KR20140075575
JP2014113110	A	2014-06-26	JP2014113110
JP2014113111	A	2014-06-26	JP2014113111
JP5916592	B2	2016-05-11	JP5916592
JP5916593	B2	2016-05-11	JP5916593
CN108419506	A	2018-08-21	CN108419506

Abstract

(JP5916593)

PROBLEM TO BE SOLVED: To provide a combine harvester that facilitates maintenance operations.SOLUTION: A combine harvester includes a reaping unit that conveys planted grain culms backward by reaping them, a driving engine 7, and a reaping speed change gear 65 that transmits power from the engine 7 to the reaping unit by changing a speed of the power.The engine 7 is positioned in a location to one side in a width direction of a machine body, and the reaping speed change gear 65 is positioned in a location to the other side in the width direction of the machine body.

Inventors

Shimoda Yohei

Ikeda Tai

Yamamoto Yoya

Latest standardized assignees - inventors removed

KUBOTA

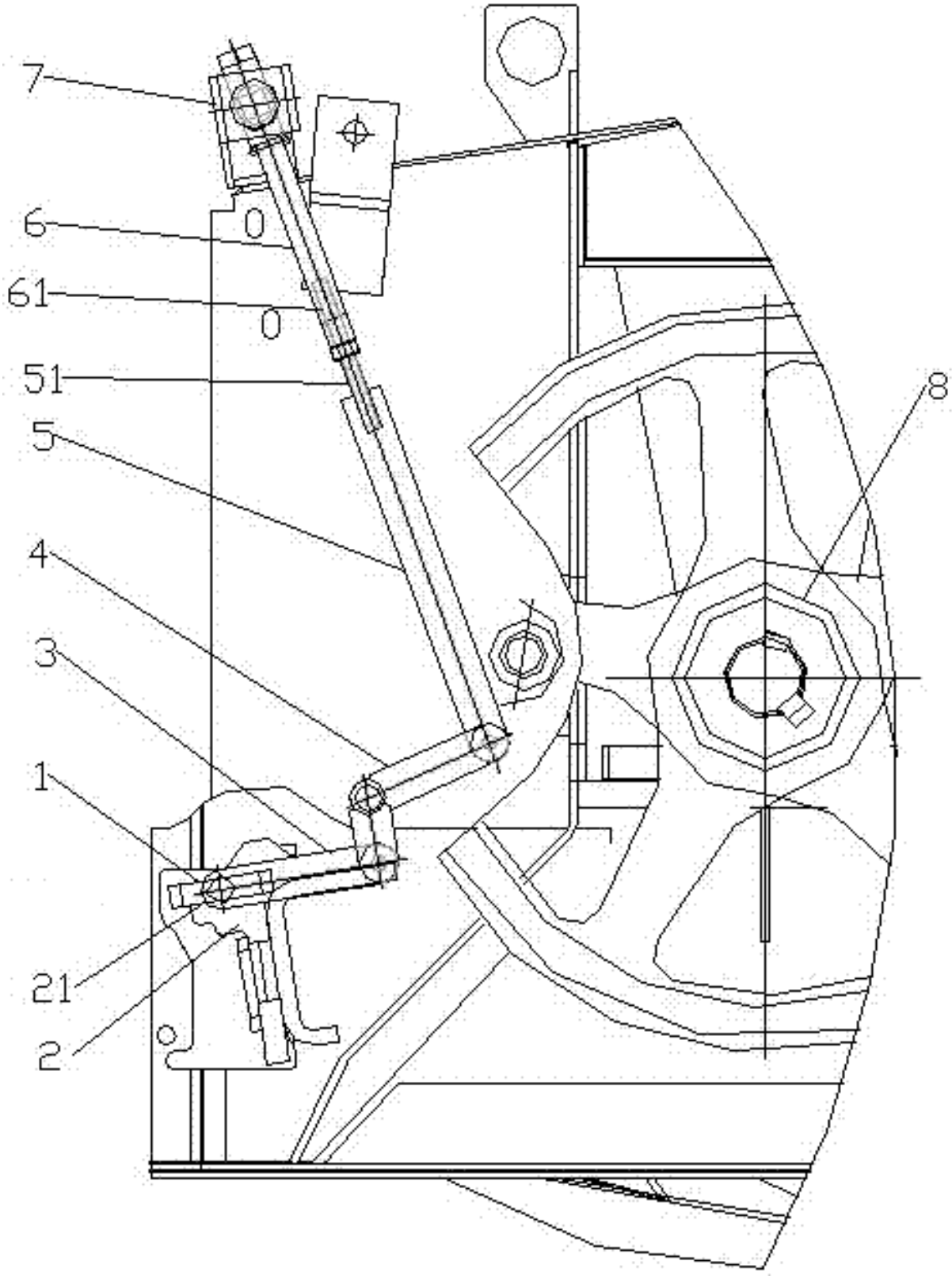
Family 38/667 - FAMPAT - ©Questel

Title

(CN107258213)

Fixed knife adjusting device of green forage harvester and self-propelled green forage harvester

Images



Publication data including kind & date

CN107258213 A 2017-10-20 CN107258213

Abstract

(CN107258213)

The invention discloses a fixed knife adjusting device of a green forage harvester and a self-propelled green forage harvester and relates to the technical field of agricultural machinery.The fixed knife adjusting device of the green forage harvester comprises a fixed seat sleeve, a bent arm, a telescoping mechanism, a connecting rod and a fixed knife carriage, wherein the fixed seat sleeve is connected to a green forage harvester body; the bent arm is hinged to the green forage harvester body; the two ends of the telescoping mechanism are separately hinged to the fixed seat sleeve and one end of the bent arm; the connecting rod is hinged to the other end of the bent arm and is hinged to a fixed knife; and the fixed

knife carriage is connected to the green forage harvester body and is used for guiding and fixing the fixed knife.The self-propelled green forage harvester comprises the fixed knife adjusting device of the green forage harvester; and the fixed knife adjusting device of the green forage harvester is matched with the fixed knife.According to the fixed knife adjusting device of the green forage harvester, manual operation is replaced with a mechanical structure, so that fixed knife adjusting operations are simplified, and the accuracy of adjustment is improved.The self-propelled green forage harvester disclosed by the invention adopts the fixed knife adjusting device of the green forage harvester, so that the fixed knife adjusting operations are simplified, and time and labor are saved.

Inventors

WANG PENGCHENG

WANG LIANSHAN

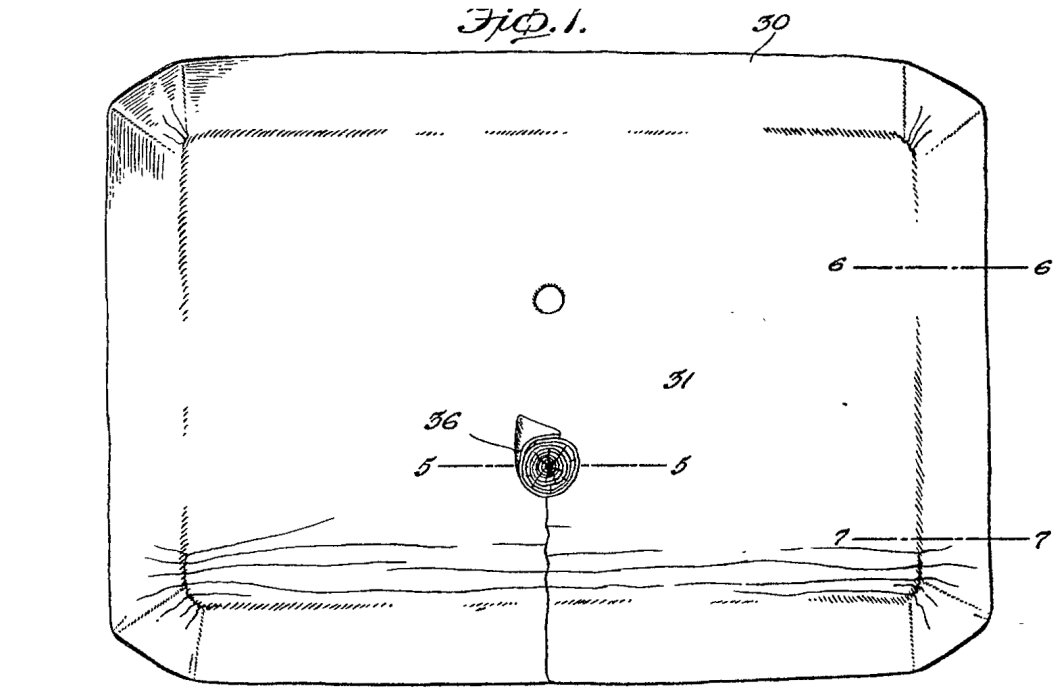
Family 39/667 - FAMPAT - ©Questel

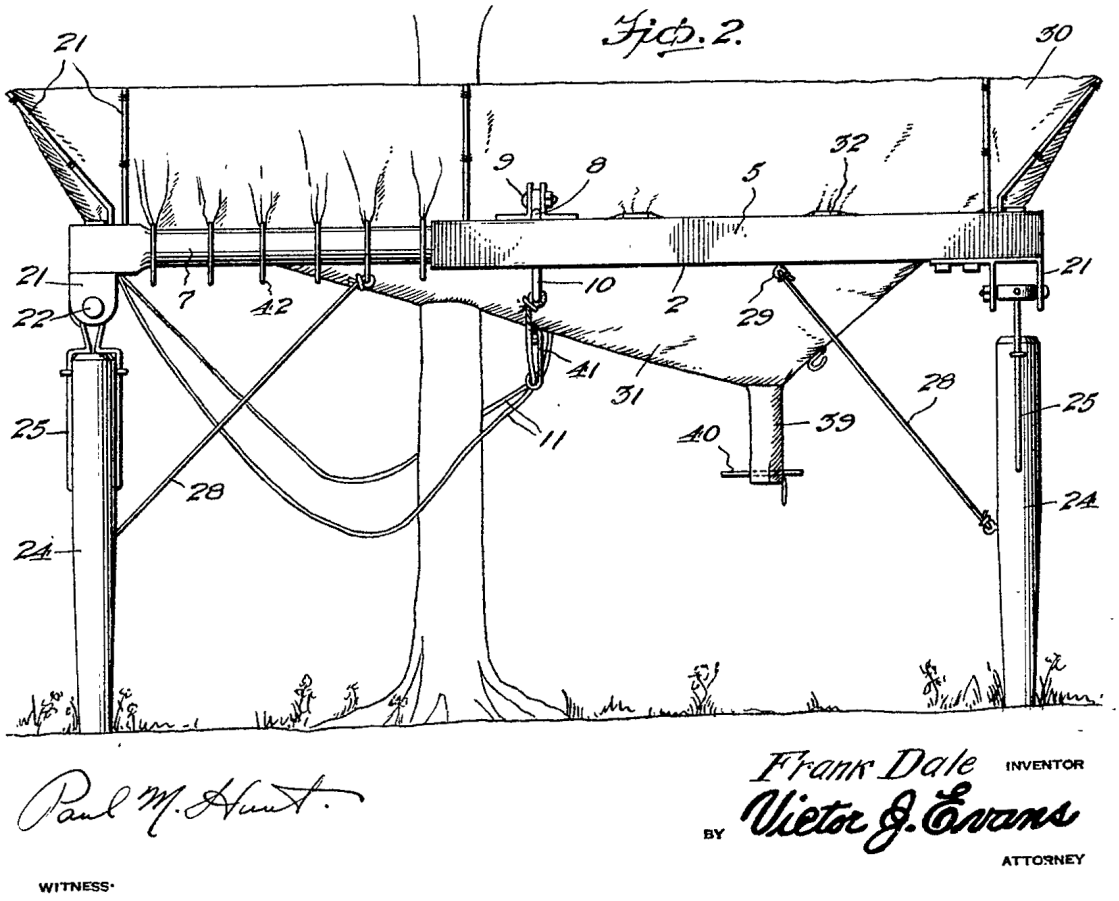
Title

(US1410379)

Fruit harvester

Images





Publication data including kind & date

US1410379 A 1922-03-21 US1410379

Inventors

FRANK DALE

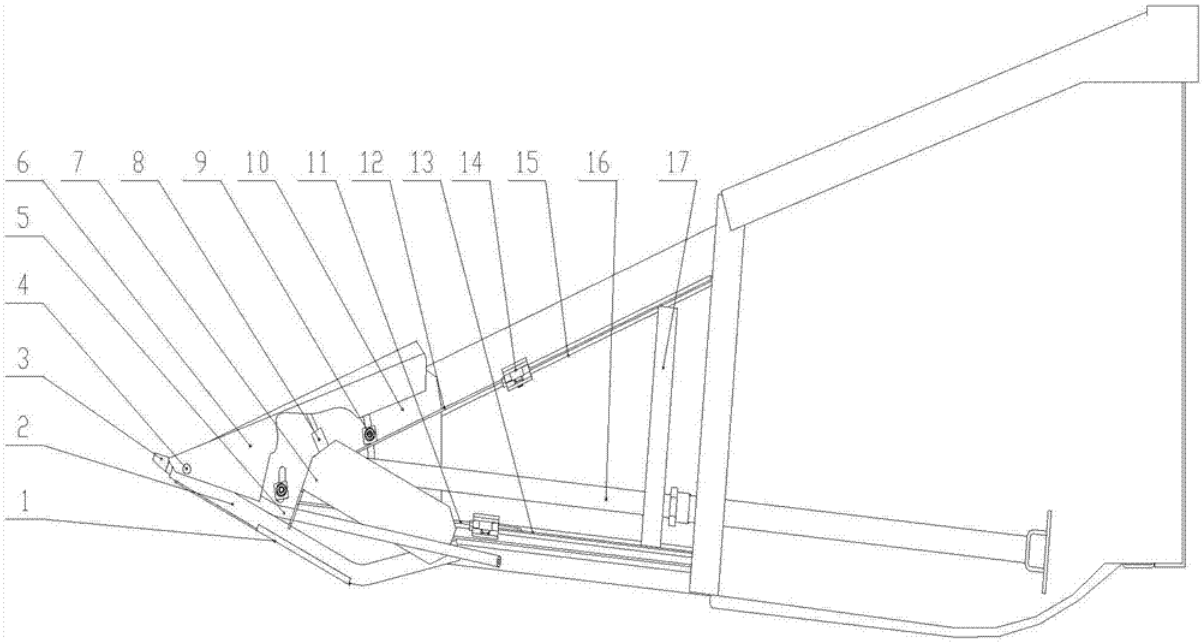
Family 40/667 - FAMPAT - ©Questel

Title

(CN206728617U)

Harvester cutting platform and harvester

Images



Publication data including kind & date

CN206728617 U 2017-12-12 CN206728617U

Abstract

(CN206728617U)

The utility model provides a harvester cutting platform and harvester, wherein the header includes divider guard shield, cover support and driver part, cover support is fixed to be set up on the header, divider guard shield front end sets up on cover support through the pivot is rotatable, driver part one end sets up on cover support, and its other end is fixed in on the divider guard shield, the driver part is used for driving the divider guard shield and revolutes the rotation of axes, through adopting above -mentioned scheme for but the automatic infinitely variable control diffusion angle of harvester according to actual need is in order to be applicable to different crops, to reach optimal sorting standing grain effect.

Inventors

WANG HUIMIN
ZHANG YUESHENG
PENG BOCHUN
ZHANG HENG

Latest standardized assignees - inventors removed

ZOOMLION HEAVY MACHINERY

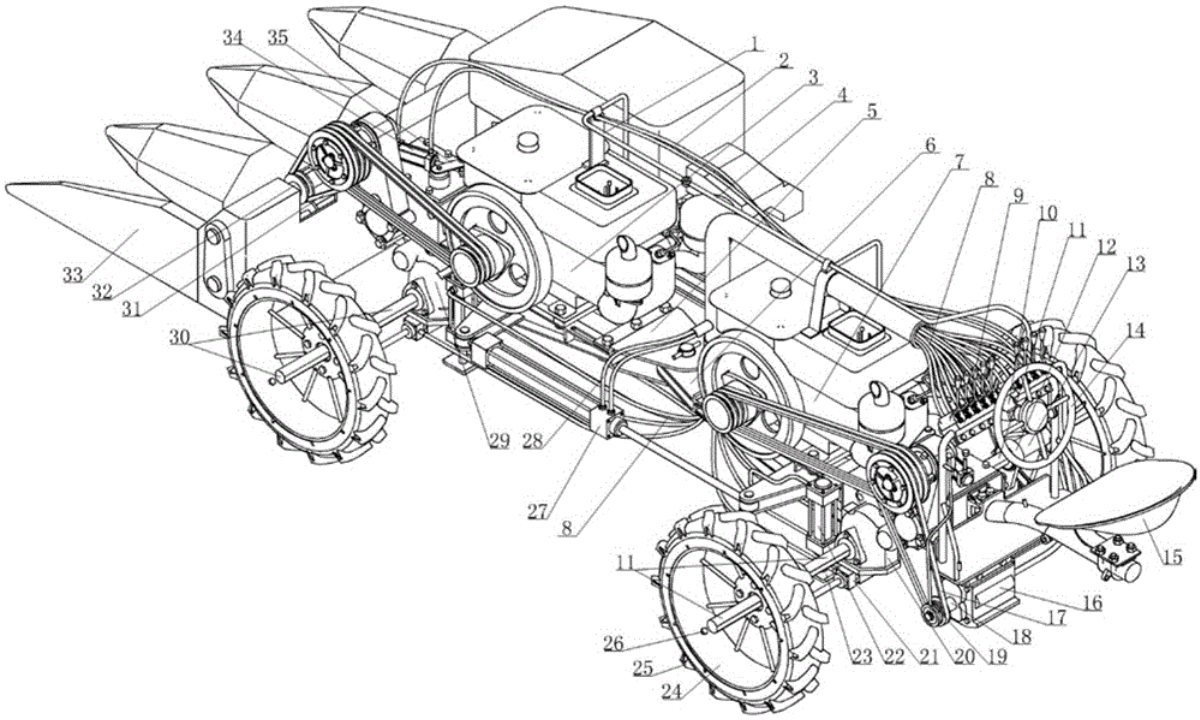
Family 41/667 - FAMPAT - ©Questel

Title

(CN104521424)

Slope corn harvester

Images



Publication data including kind & date

CN104521424	A	2015-04-22	CN104521424
CN104521424	B	2016-08-24	CN104521424B

Abstract

(CN104521424B)

Provided is a slope corn harvester.The rear end of a first rack is hinged to the front end of a second rack, a corn harvesting device is installed at the front end of the first rack, a first power device and a front axle are installed on the first rack, a hydraulic pump, a plurality of paths of hydraulic control valves, a full hydraulic steering gear and a seat are fixedly installed at the rear end of the second rack, the second rack is provided with a second power device and a rear axle, the two ends of the front axle and the two ends of the rear axle are each sleeved with an axle sleeve which is in movable connection in the axial direction and in key connection in the radial direction, the end, corresponding to the corresponding rack, of each axle sleeve is sleeved with a bearing, the other end of each axle sleeve is fixedly connected with a travelling wheel, wheel lifting hydraulic cylinders and wheel displacement hydraulic cylinders are arranged between the travelling wheels and the racks, and the rod ends of telescopic rods of the wheel displacement hydraulic cylinders are fixedly connected with the outer ring faces of the bearings on the corresponding axle sleeves; the wheel lifting hydraulic cylinders are operated to jack up the racks, the wheel displacement hydraulic cylinders pull the wheels fixedly connected with the axle sleeves so that the wheel track can change, and mechanical harvesting can be performed on corn fields planted on a slope.

Inventors

LIANG JUN

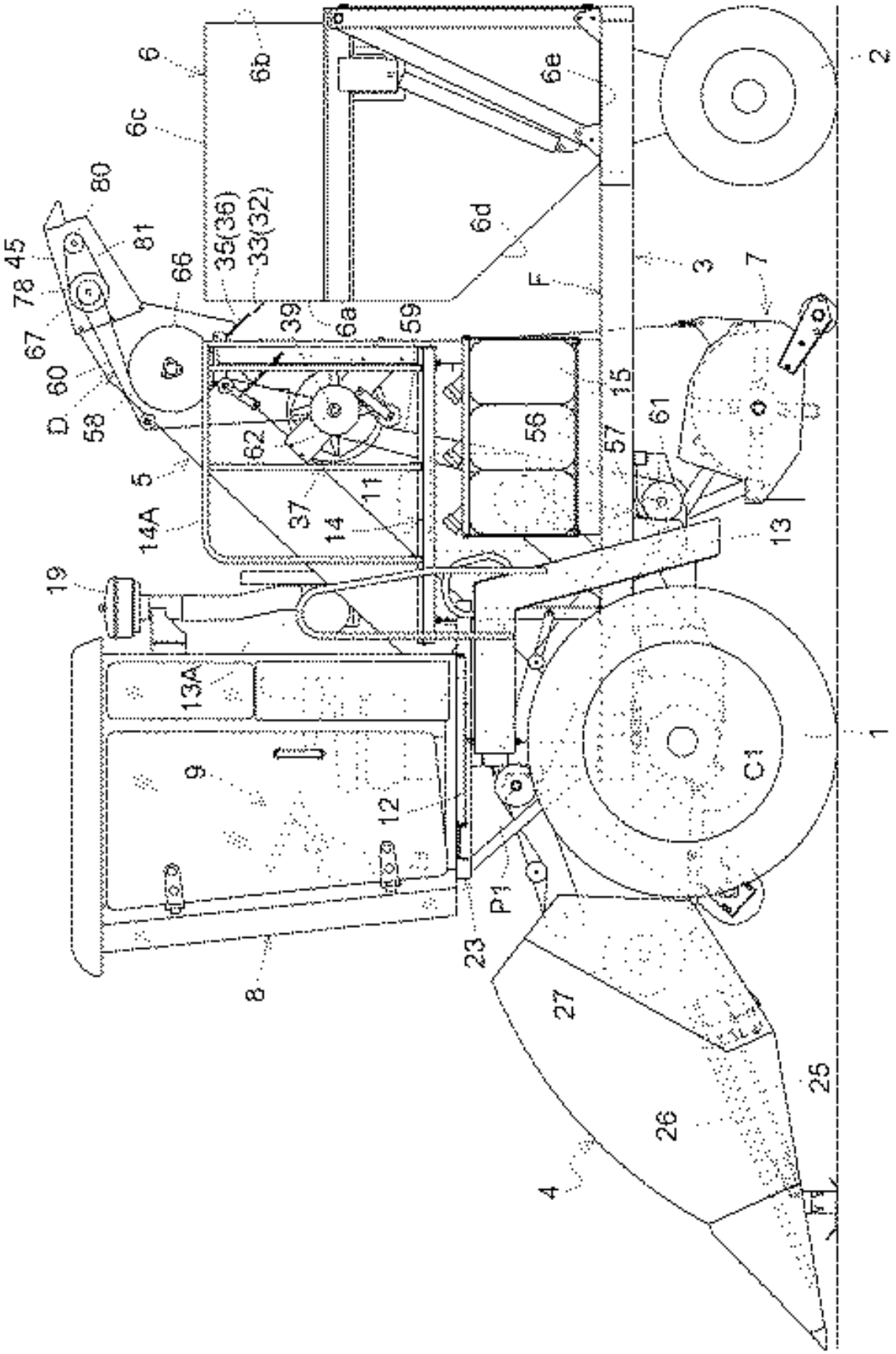
Family 42/667 - FAMPAT - ©Questel

Title

(JP2014209890)

Corn harvester

Images



Publication data including kind & date

CN203482632	U	2014-03-19	CN203482632U
CN103688658	A	2014-04-02	CN103688658
JP2014068565	A	2014-04-21	JP2014068565
JP2014209890	A	2014-11-13	JP2014209890
CN103688658	B	2017-03-01	CN103688658B

Abstract

(JP2014209890)

PROBLEM TO BE SOLVED: To provide a corn harvester that can rationally implement power transmission to each work device from an engine to simplify the power transmission structure thereof and to facilitate maintenance service work.SOLUTION: The corn harvester includes: a rear traveling device disposed while interposing an interval between a front traveling device 11F and the rear traveling device in a longitudinal direction; and the engine 70 positioned between the front traveling device 11F and the rear traveling device.In the corn harvester, a counter shaft 75 is disposed downward of the engine 70 and lower than a vehicle body frame 10 on which the engine 70 is mounted so that power of the engine 70 is input to the counter shaft 75.

Inventors

MINAMI TERUO
TANAKA YUJI
Kenichi Terasaka
Shuji Taita
TANGO YOSHIFUMI
Hiroshi Taka in
New housekeeping
Chiharu Kami Kita
Takeshi Kumatori

Latest standardized assignees - inventors removed

KUBOTA

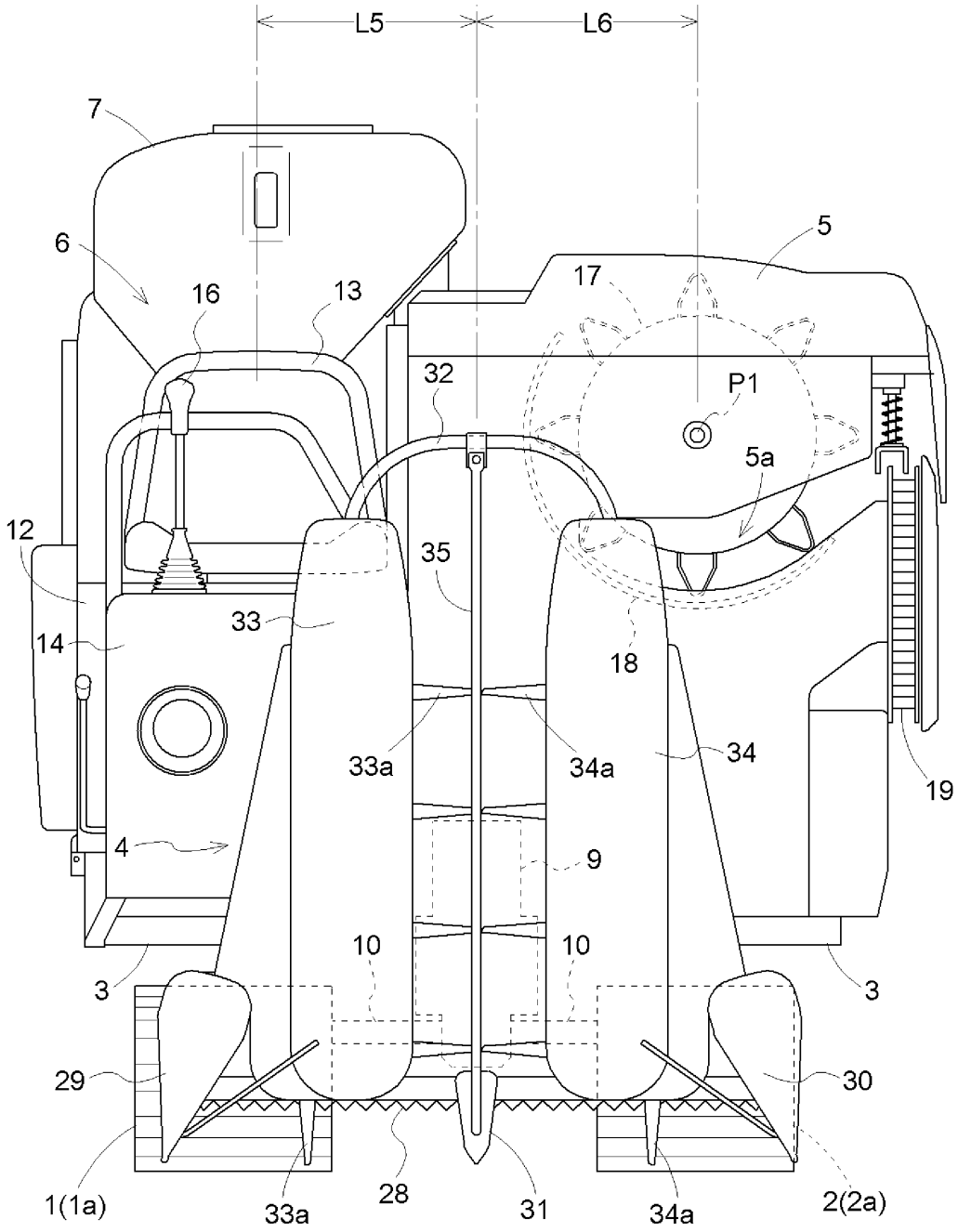
Family 43/667 - FAMPAT - ©Questel

Title

(WO201021318)
Head-feeding combine

Images

［図4］



Publication data including kind & date

WO2010021318	A1	2010-02-25	WO201021318
JP2010045982	A	2010-03-04	JP2010045982
JP2010068752	A	2010-04-02	JP2010068752
JP2010104347	A	2010-05-13	JP2010104347
JP2010115140	A	2010-05-27	JP2010115140
CN102045999	A	2011-05-04	CN102045999
KR20110055478	A	2011-05-25	KR20110055478
JP5173755	B2	2013-04-03	JP5173755
JP5341475	B2	2013-11-13	JP5341475
JP5341445	B2	2013-11-13	JP5341445
CN102045999	B	2014-04-23	CN102045999B
KR20170021897	A	2017-02-28	KR20170021897

KR101711216	B1	2017-02-28	KR101711216
KR101811186	B1	2017-12-20	KR101811186
KR20170141286	A	2017-12-22	KR20170141286

Abstract

(WO201021318)

Disclosed is a head-feeding combine with improved lateral balance in the reaper and body.This combine is configured with a reaper (4), which is equipped with a right and a left divider (29, 30), and a center divider (31), which is disposed at a roughly central position between the right and left dividers (29, 30), whereby it is possible to harvest two rows of crops taken into the spaces between the right (left) and center dividers (29, 30).The positions of the right and left dividers (29, 30) are configured so as to be roughly the same as the positions of the right and left edges (1a, 2a) of right and left crawler running gear (1, 2) when viewed from the front.The distance (L5) in the lateral direction of the body between the center of the operator seat (13) in the lateral direction of the body and the center divider (31), and the distance (L6) in the lateral direction of the body between the shaft center (P1) of the rotary drive of the thresher drum (17) and the center divider (31) are set to be roughly the same.

Inventors

HIRATA SHIN
HORIUCHI MASAYUKI
NAGATA TETSUJI
MATSUSHITA HAJIME
TAKAGI MASAYUKI
KOTANI SHINJI
MAEDA ICHIRO
MATSUMOTO KENTA
HAMANISHI TADASHI
TANAKA YUKIKAZU

Latest standardized assignees - inventors removed

KUBOTA

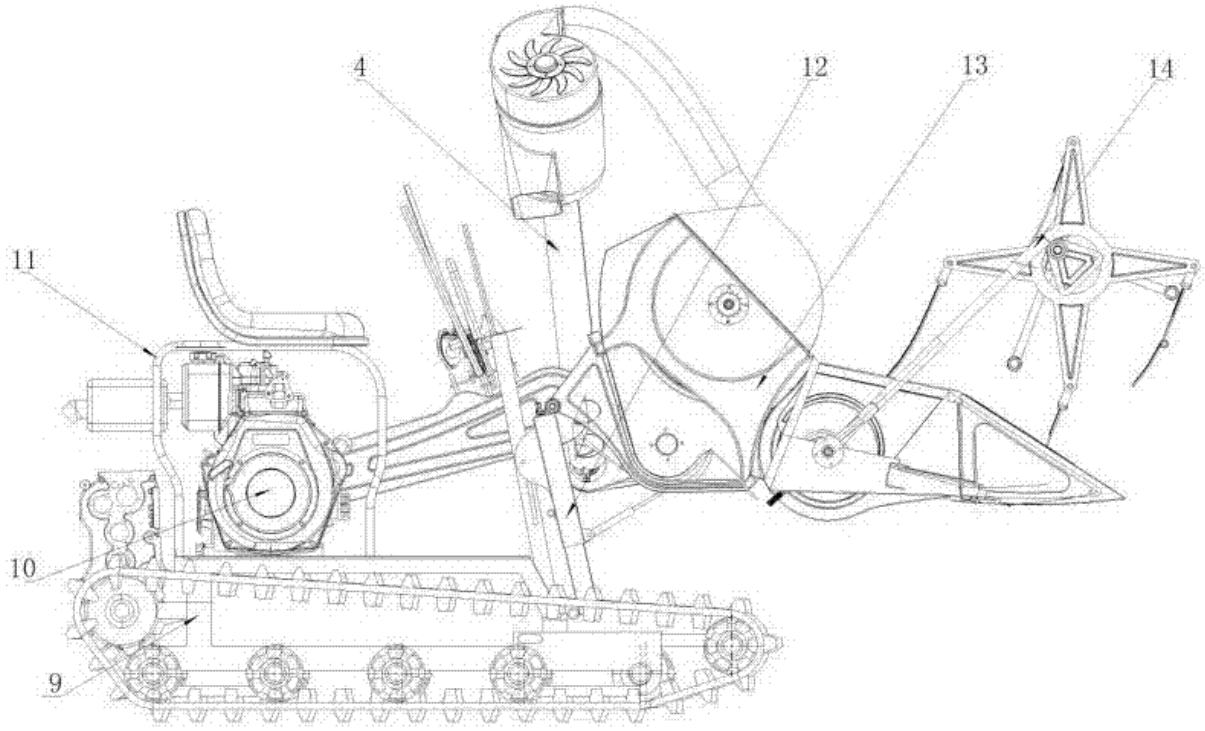
Family 44/667 - FAMPAT - ©Questel

Title

(CN106973621)

Miniature combined harvester

Images



Publication data including kind & date

CN106973621 A 2017-07-25 CN106973621

Abstract

(CN106973621)

The invention discloses a miniature combined harvester.The harvester is characterized in that the outer sides of two lower circular pipes of a grain scraping plate (7) are both additionally provided with a spring (15), grain outlets of a grain lifting cylinder are kidney-shaped holes (16), a reel supporting rod (14) is a three-segment split supporting rod, a connection hinge plate (22) is additionally arranged, one end of the connection hinge plate is connected with a chassis of the miniature combined harvester, the other end of the connection hinge plate is hinged to a cutting table threshing cylinder assembly and a lifting box (12) separately, a hinge frame of a lower box welding element is connected with the chassis through hinges, an upper hinge sleeve on the upper box welding element is hinged to the connection hinge plate, an oil cylinder fixing hinge frame of the upper hinge is hinged to an oil cylinder, and the other end of the oil cylinder and the cutting table threshing cylinder are hinged to form a crank-rocker mechanism.The combined harvester can reduce rice ears and weeds in threshed grains and reduce the production cost by 10%, a cutting table can ascend and descend as a whole, and it is ensured that the angle between the cutting table and the horizontal plane is not changed.

Inventors

GAO YOUREN
CENG XIANGUO
LI WENCHENG
LAN BING

Latest standardized assignees - inventors removed

NANCHONG FUPAI AGRICULTURAL MACHINERY

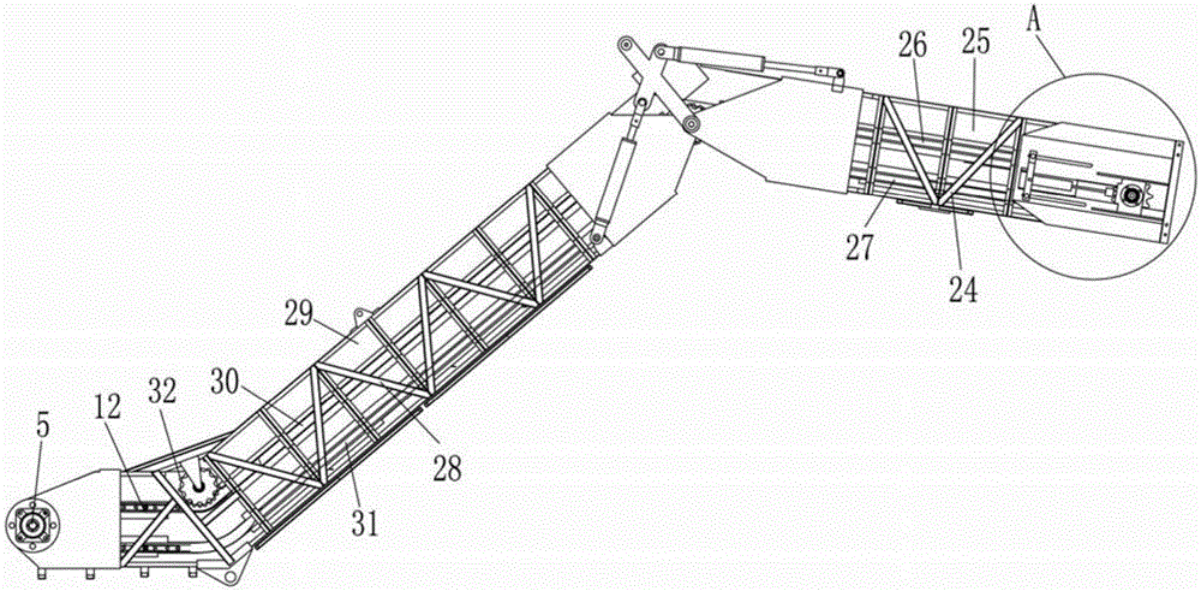
Family 45/667 - FAMPAT - ©Questel

Title

(CN104488451)

Foldable scraper blade type conveying arm for cutting type sugarcane harvester

Images



Publication data including kind & date

CN104488451	A	2015-04-08	CN104488451
CN104488451	B	2016-05-18	CN104488451B

Abstract

(CN104488451B)

The invention discloses a foldable scraper blade type conveying arm for a cutting type sugarcane harvester.The foldable scraper blade type conveying arm for the cutting type sugarcane harvester comprises an upper arm section, a lower arm section, a folding driving portion and a chain scraper blade mechanism, wherein one end of the upper arm section is hinged to a first driven chain wheel shaft; the other end of the upper arm section is provided with a driving chain wheel shaft; one end of the lower arm section is hinged to the first driven chain wheel shaft; the other end of the lower arm section is provided with a second driven chain wheel shaft and is hinged to a horizontal angular rotating plate through a first hinge pin; the lower arm section is connected with the cutting type sugarcane harvester through a first hydraulic cylinder; the upper arm section and the lower arm section are driven through the folding driving portion and can be folded or unfolded; bottom plates for supporting materials are respectively arranged on the upper arm section and the lower arm section; two chains of the chain scraper blade mechanism are wound on chain wheels at two ends of the first driven chain wheel shaft, two ends of the second driven chain wheel shaft and two ends of the driving chain wheel shaft; and a scraper blade for scraping materials on the bottom plates is arranged between the two chains.The foldable scraper blade type conveying arm can accurately convey sugarcane sections, and can be folded in a conveying process.

Inventors

YANG DANTONG
LIU HAOCHUN
LIU QINGTING
Yang Dantong
HE LIN
ZOU XIAOPING
HUANG ZHENG

Latest standardized assignees - inventors removed

SOUTH CHINA AGRICULTURAL UNIVERSITY

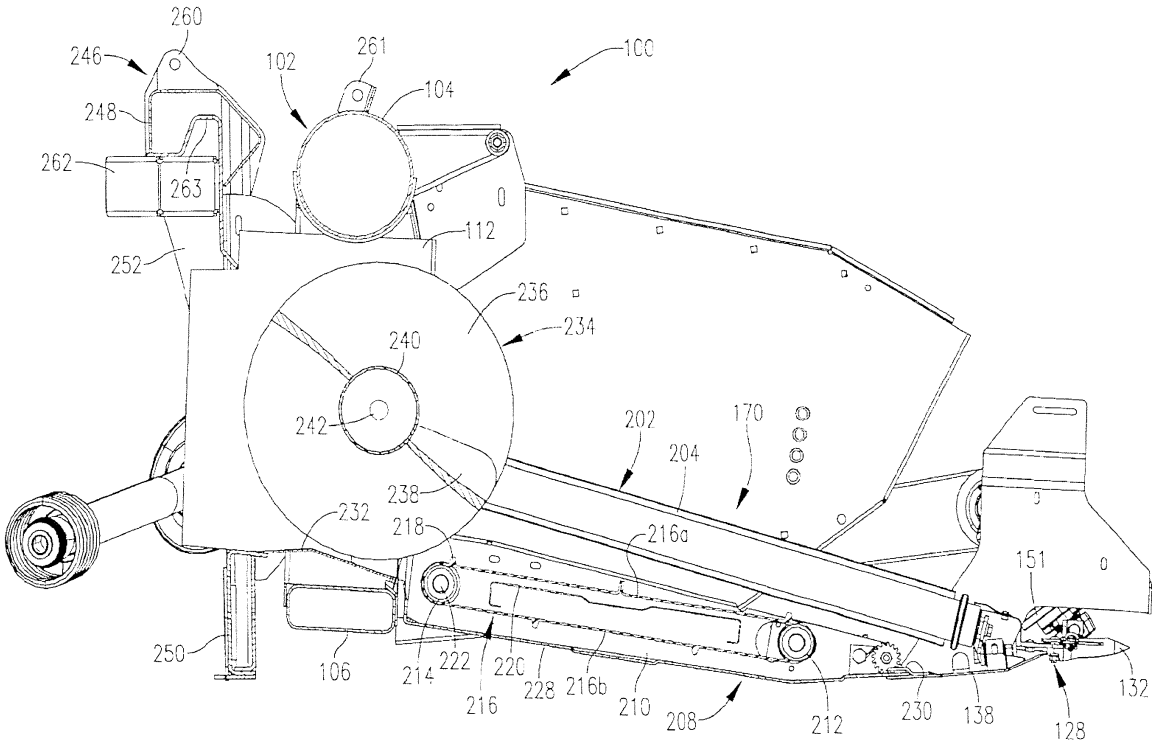
Family 46/667 - FAMPAT - ©Questel

Title

(EP2684441)

Combine harvester draper header having flexible cutterbar

Images



Publication data including kind & date

CA2847627	A1	2007-08-23	CA2847627
WO2007095430	A2	2007-08-23	WO200795430
CA2640605	A1	2007-08-23	CA2640605
US20070193243	A1	2007-08-23	US20070193243
GB2447007	A	2008-08-27	GB2447007
GB0813080	D0	2008-08-27	GB200813080
WO2007095430	A3	2008-10-30	WO200795430
US20080271426	A1	2008-11-06	US20080271426
US20080276590	A1	2008-11-13	US20080276590
US20090007534	A1	2009-01-08	US20090007534
EP2020841	A2	2009-02-11	EP2020841
US20090094957	A1	2009-04-16	US20090094957
US20090249760	A1	2009-10-08	US20090249760
WO2009136279	A1	2009-11-12	WO2009136279
WO2009136278	A1	2009-11-12	WO2009136278
CA2722901	A1	2009-11-12	CA2722901
CA2722897	A1	2009-11-12	CA2722897
US20100037580	A1	2010-02-18	US20100037580
US20100043375	A1	2010-02-25	US20100043375
US20100043373	A1	2010-02-25	US20100043373
US20100095646	A1	2010-04-22	US20100095646
US7802417	B2	2010-09-28	US7802417
US7836671	B2	2010-11-23	US7836671
US20100313540	A1	2010-12-16	US20100313540
US7886512	B2	2011-02-15	US7886512
EP2285206	A1	2011-02-23	EP2285206
EP2285207	A1	2011-02-23	EP2285207

US20110056178	A1	2011-03-10	US20110056178
BRPI0706916	A2	2011-04-12	BR200706916
US7926248	B2	2011-04-19	US7926248
US7937920	B2	2011-05-10	US7937920
US20110131940	A1	2011-06-09	US20110131940
US7971419	B2	2011-07-05	US7971419
GB2447007	B	2011-07-20	GB2447007
US20110185693	A1	2011-08-04	US20110185693
US8024915	B2	2011-09-27	US8024915
US20110232252	A1	2011-09-29	US20110232252
US20110302896	A1	2011-12-15	US20110302896
US8091330	B2	2012-01-10	US8091330
US8096101	B2	2012-01-17	US8096101
US20120036819	A1	2012-02-16	US20120036819
US20120096825	A1	2012-04-26	US20120096825
US20120137645	A1	2012-06-07	US20120137645
US8205422	B2	2012-06-26	US8205422
US20120180447	A1	2012-07-19	US20120180447
US8225590	B2	2012-07-24	US8225590
EP2020841	A4	2012-07-25	EP2020841
US8230670	B2	2012-07-31	US8230670
US8272199	B2	2012-09-25	US8272199
US20120266582	A1	2012-10-25	US20120266582
US20120324855	A1	2012-12-27	US20120324855
US8341928	B2	2013-01-01	US8341928
US8393135	B2	2013-03-12	US8393135
US8438824	B2	2013-05-14	US8438824
US20130133303	A1	2013-05-30	US20130133303
US20130133302	A1	2013-05-30	US20130133302
US20130152539	A1	2013-06-20	US20130152539
EP2285206	B1	2013-08-28	EP2285206
EP2020841	B1	2013-08-28	EP2020841
US8601780	B2	2013-12-10	US8601780
US8621837	B2	2014-01-07	US8621837
US8621836	B2	2014-01-07	US8621836
EP2684441	A2	2014-01-15	EP2684441
US20140090345	A1	2014-04-03	US20140090345
CA2640605	C	2014-06-10	CA2640605
US8857141	B2	2014-10-14	US8857141
US20150007545	A1	2015-01-08	US20150007545
CA2847627	C	2015-08-11	CA2847627
EP2684441	A3	2015-09-02	EP2684441
US9198348	B2	2015-12-01	US9198348
BRPI0706916	B1	2016-01-12	BR200706916
CA2722901	C	2016-02-16	CA2722901

Abstract

(EP2684441)

A harvesting header (100) comprises a header frame and a cutterbar assembly (128) mounted to the header frame and

extending transversely to the normal direction of travel of the header.An endless flexible draper belt (202) is rotatably supported on the header frame rearwardly of the crop-cutting assembly to receive severed crop material from the crop-cutting assembly and convey the materials laterally.The draper belt (202) presents laterally extending, spaced apart leading and trailing edges relative to the normal direction of header travel, and an outwardly facing crop-engaging surface defined between the edges.An upstanding continuous rib (206) projects outwardly from the crop-engaging surface adjacent the leading edge.

Inventors

SCHMIDT JAMES
SAUERWEIN CHRISTOPHER
LOHRENTZ RANDY
REGIER BERNARD
CLARK STANLEY
BERGKAMP ALAN

Latest standardized assignees - inventors removed

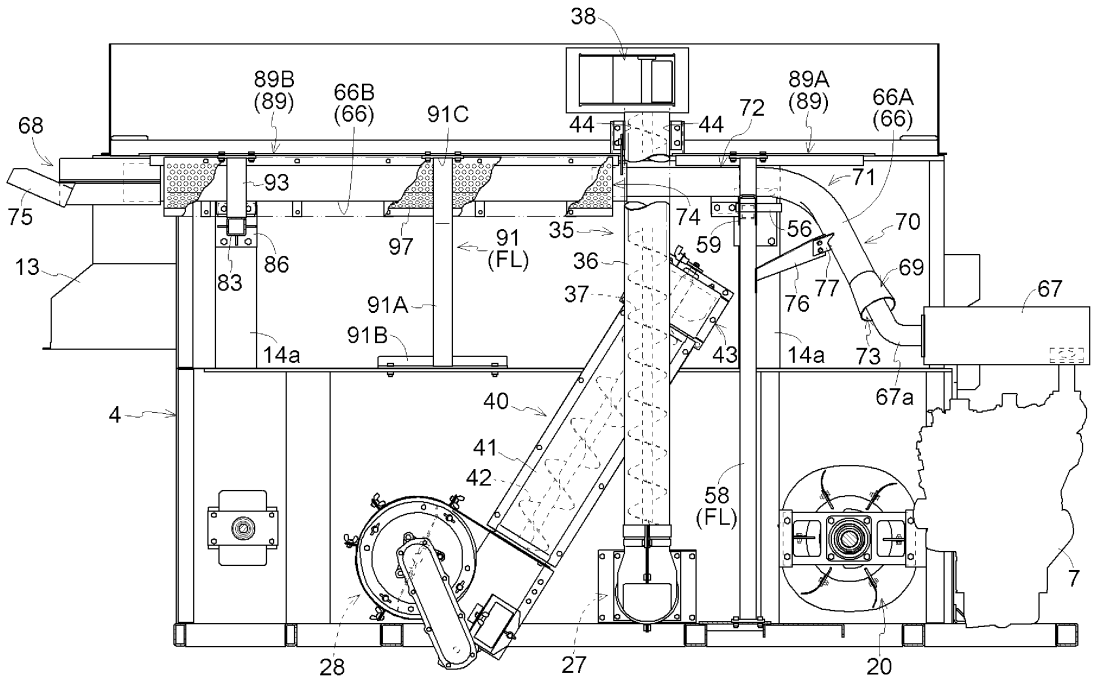
AGCO

Family 47/667 - FAMPAT - ©Questel

Title

(WO201583651)
Combine

Images



Publication data including kind & date

WO2015083651	A1	2015-06-11	WO201583651
JP2015128415	A	2015-07-16	JP2015128415
JP2015128414	A	2015-07-16	JP2015128414
JP2015128413	A	2015-07-16	JP2015128413
JP2015128412	A	2015-07-16	JP2015128412
PH12016500929	A1	2016-06-27	PH12016500929
CN105792632	A	2016-07-20	CN105792632
KR20160093603	A	2016-08-08	KR20160093603
IN201647017413	A	2016-08-31	IN201647017413
VN48721	A	2016-09-26	VN--48721

JP6396724 B2 2018-09-26 JP6396724

Abstract

(WO201583651)

The present invention discloses a combine that is provided with an operation unit located in a vehicle body front section, an engine (7) located below the operation unit, and an exhaust pipe (66) through which exhaust from the engine (7) passes.The exhaust pipe (66) is provided in a state in which an exhaust port (68) for discharging exhaust to the outside is positioned so as to be higher than a supply port (69) to which exhaust from the engine (7) is supplied.

Inventors

KAWAI YUICHIRO
OTOMUNE TAKUYA
MARUYAMA JUNICHI
HORIUCHI MASAYUKI
ISOZAKI KOKI
KOMIYA RYOSUKE
ASAKURA SADAO
FUKAI HIROSHI
MATSUBAYASHI TOMOYA
HIRAI RYOSUKE
HIRAKAWA JUNICHI

Latest standardized assignees - inventors removed

KUBOTA

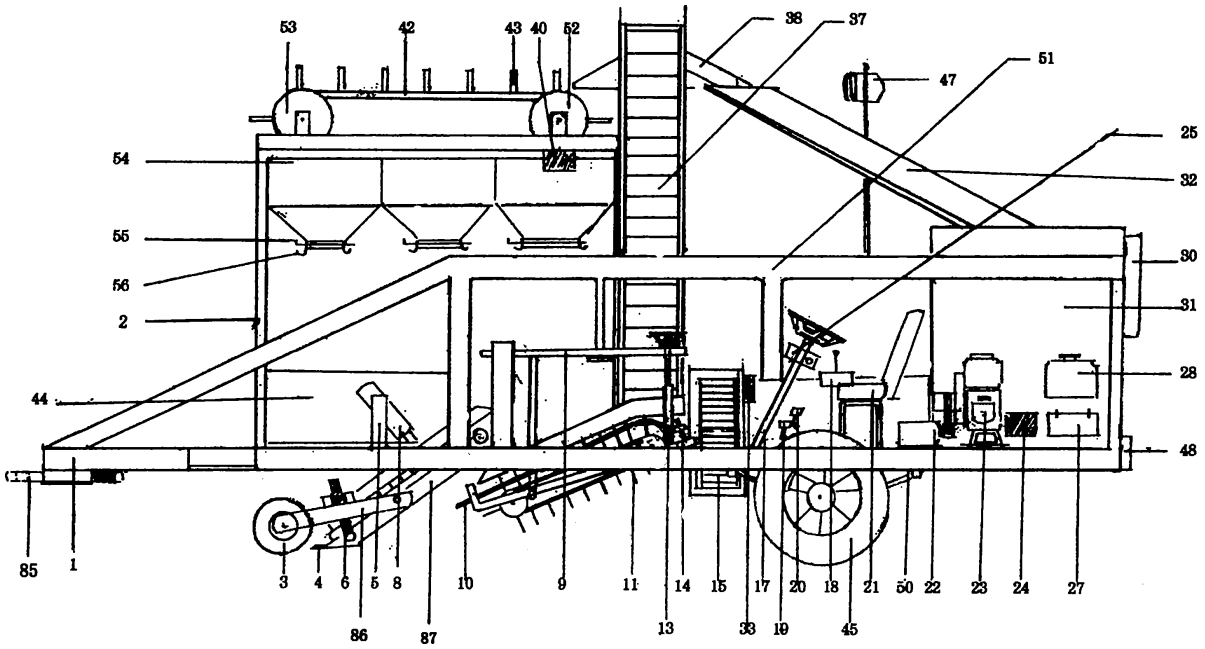
Family 48/667 - FAMPAT - ©Questel

Title

(CN203435361U)

Traction type potato multifunctional combine harvester

Images



Publication data including kind & date

CN203435361 U 2014-02-19 CN203435361U

Abstract

(CN203435361U)

A traction type potato multifunctional combine harvester is characterized in that the traction type potato multifunctional combine harvester is composed of a harvester frame [1], a digging shovel [4], a lifting conveyor belt [7], a separated

machine frame [59], a telescopic connector [36], a vertical elevator [37], a three-way inserting board slide bucket [38], a sub machine case [46], an externally-hung foldable conveyor belt [39], a potato collecting box [31], a diesel engine [23], a gear pump [24], a distributor [18], a hydraulic motor [33] and the like.According to the traction type potato multifunctional combine harvester, potatoes are harvested and the vast majority of rocks and impurities on the surface of a cultivated land can be removed at the same time; labor is saved, mechanical operation is achieved, and the work efficiency is high; functions are complete.The functions of digging, impurity separation, impurity collection, potato classification, bagging, lateral output truck loading joint operation, stacking and the like can be achieved at a time and the combine harvester has dual purposes.When the traction type potato multifunctional combine harvester is not used for harvesting the potatoes, the traction type potato multifunctional combine harvester can conduct soil purification operation before spring sowing and after an autumn harvest; power output is independent; the potatoes are not in contact with a chain after entering the harvester, so that the defect that soil is leaked through the method that the chain is lengthened and the defect that an eccentric wheel forces the chain to shake and thus the peel of the potatoes is hurt are overcome.

Inventors

LI WEIJIA

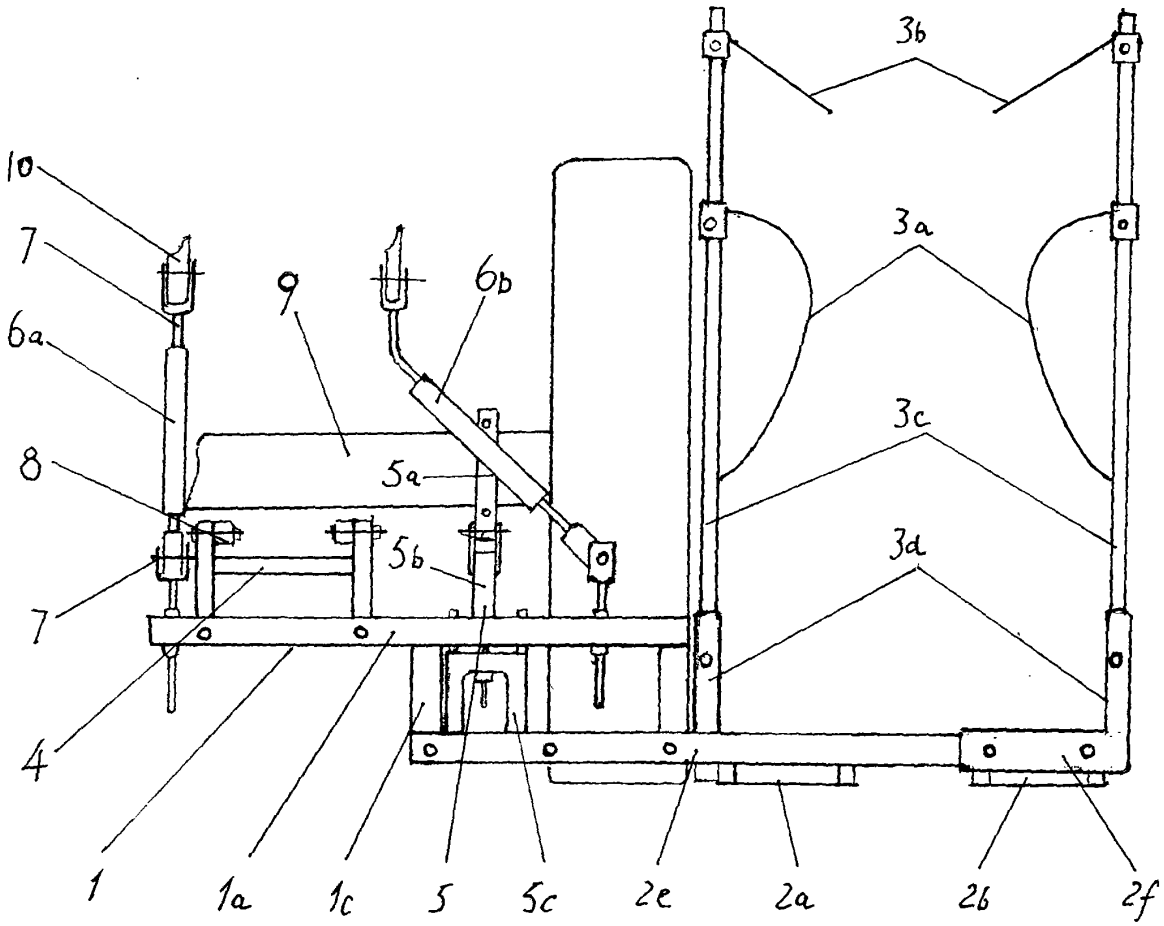
Family 49/667 - FAMPAT - ©Questel

Title

(CN201374919U)

Multi-purpose crop harvester

Images



Publication data including kind & date

CN201374919 Y 2010-01-06 CN201374919U

Abstract

(CN201374919U)

The utility model discloses a multi-purpose crop harvester which is connected and matched with a small four-wheel

tractor.The crop harvester comprises a main frame, a tool post, a dog driver device, a balancing stand, a pull stand and diagonal pull rods.The tool post is arranged at the right side of the main frame; the dog driver device is vertically fixed at the right side of the main frame; the balancing stand, the pull stand and the diagonal pull rods are arranged at the front side of the main frame; and the main frame is connected with a lower towing support, a rear shaft and an outer lifting arm of a back fixing plate of the small four-wheel tractor respectively through the balancing stand, the pull stand and the diagonal pull rods.The crop harvester is reasonable in design, simple in structure, convenient to install, simple and convenient to operate, stable in overall performance, less in faults and easy to maintain.The crop harvester is multi-purpose and by adopting different tool posts and cutters, the crop harvester can not only be used to harvest crops like corn but also be used to harvest peanut and capsicum.The crop harvester is convenient and practical and is less in oil consumption, high in efficiency and low in price.The crop harvester reduces both the work intensity and the economic burden of the farmers, and the stalks after the crops are reaped can increase the farmers' income.Therefore, the crop harvester deserves popularization and application.

Inventors

DING YAOTING

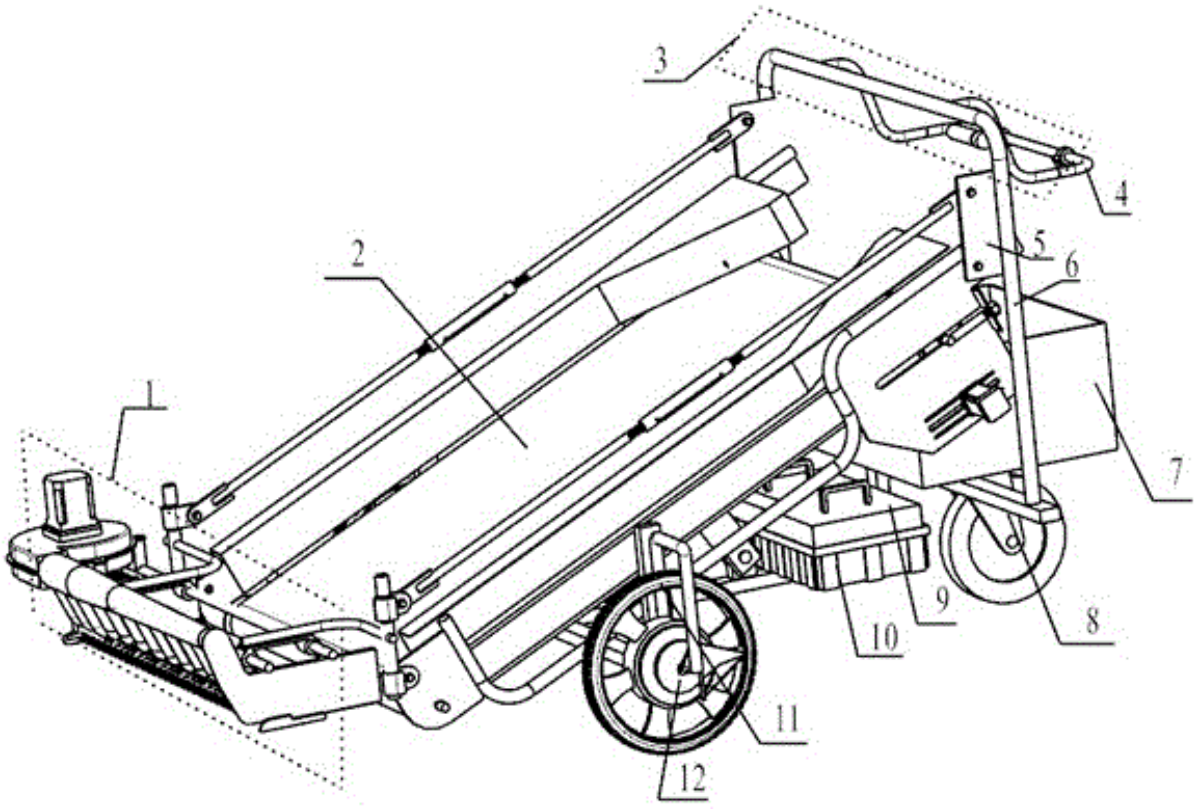
Family 50/667 - FAMPAT - ©Questel

Title

(CN103703924)

Bur clover harvesting method and bur clover harvester

Images



Publication data including kind & date

CN103703924	A	2014-04-09	CN103703924
CN103703924	B	2016-08-31	CN103703924B

Abstract

(CN103703924B)

The invention belongs to the field of vegetable harvesters, and particularly relates to a bur clover harvesting method and a bur clover harvester.The bur clover harvesting method includes the working procedures of double-acting cutting, air force blowing, conveyer belt conveying, pass box collecting and the like.The bur clover harvester comprises a frame, a traveling device, a cutting device, a slant conveying device, an electric pushing rod, a collecting box, an armrest assembly and a

lithium battery.The cutting device is located on the front portion of the frame and fixedly connected with the slant conveying device through cutting device connecting pieces, the slant conveying device is fixedly connected with armrest stand columns, the armrest stand columns are fixedly connected to the rear end of the upper portion of the frame, the collecting box is arranged at the rear end of the upper portion of the frame, and the electric pushing rod is installed on a longitudinal beam in the middle of the frame and connected with the slant conveying device in a rotary mode through an upwards-pushing transverse rod.According to the bur clover harvester, the lithium battery is adopted for providing power sources, the bur clover harvester is clean, free of pollution and high in automatic degree, the labor intensity is reduced, labor and cost are saved, the bur clover harvesting efficiency is improved, and large-scale planting of bur clovers is easily promoted.

Inventors

CHEN SHUREN
WU MINGCONG
BIAN LINA
LI JIWEI
DING XINMING

Latest standardized assignees - inventors removed

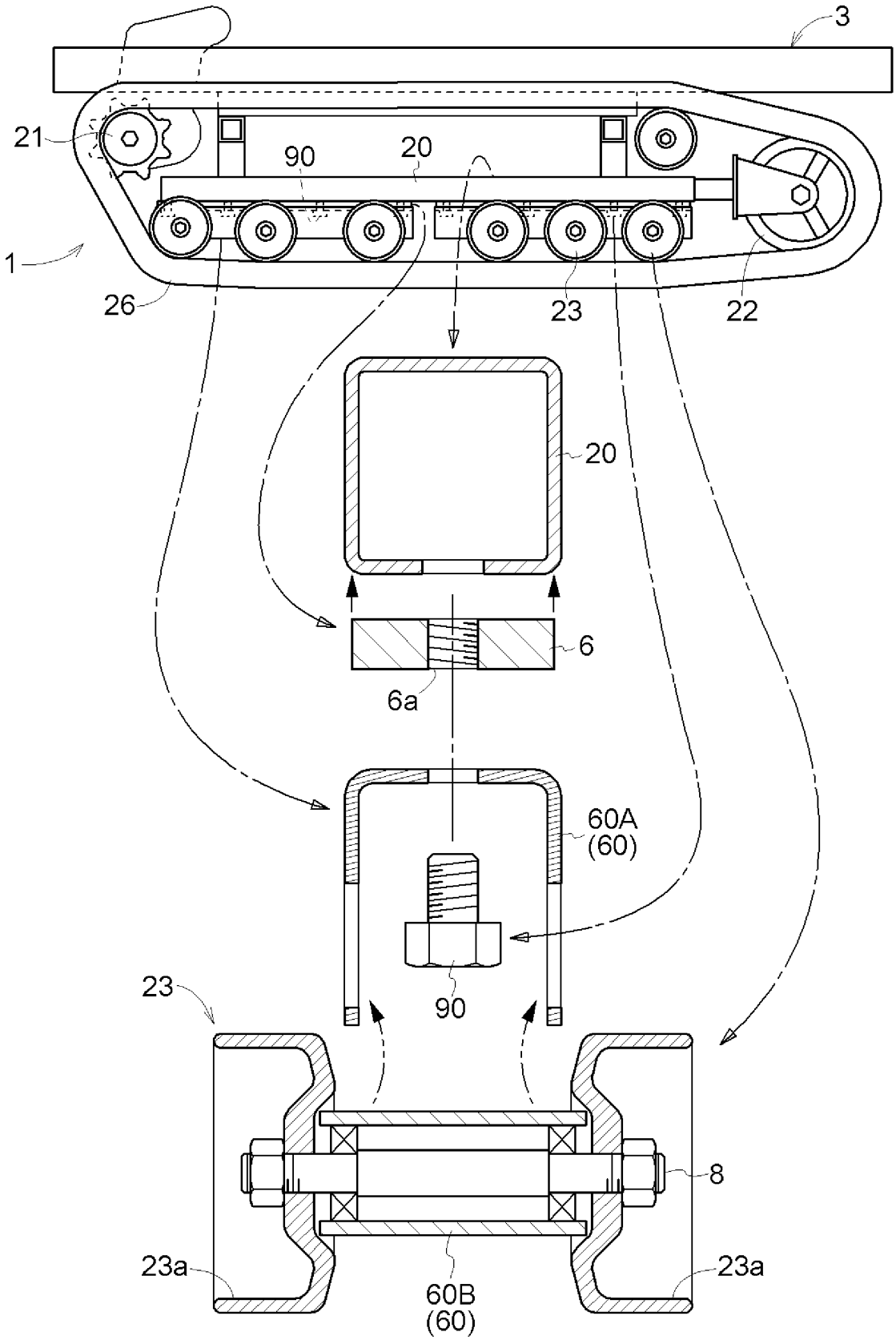
JIANGSU UNIVERSITY

Family 51/667 - FAMPAT - ©Questel

Title

(WO201410422)
Tracked running gear device and harvester

Images



Publication data including kind & date

WO2014010422	A1	2014-01-16	WO201410422
JP2014014330	A	2014-01-30	JP2014014330
JP2014124136	A	2014-07-07	JP2014124136
JP2014144759	A	2014-08-14	JP2014144759

CN104411155	A	2015-03-11	CN104411155
JP5901511	B2	2016-04-13	JP5901511
JP5937444	B2	2016-06-22	JP5937444
CN106105549	A	2016-11-16	CN106105549
CN106105579	A	2016-11-16	CN106105579
CN104411155	B	2017-09-01	CN104411155B
CN107347383	A	2017-11-17	CN107347383

Abstract

(WO201410422)

Provided is a tracked running gear device in which attachment structure of a track roller for a track frame is improved.The tracked running gear device is provided with a drive sprocket (21) disposed at the front of a track frame (20) supported by a chassis frame (3), a tracked running gear belt (26) looped around a tension sprocket (22) disposed at the rear of the track frame (20), and a plurality of track rollers (23) which guide the tracked running gear belt (26) with respect to the ground.An attachment member (6) disposed on the track frame (20) is provided with an attachment unit (60) which is detachably attached and extends in the longitudinal direction of the chassis.The attachment unit (60) provides bearing support for multiple units of the track rollers (23) which are lined up in the vehicle body longitudinal direction.

Inventors

MITSUI TAKAFUMI
NAKAJIMA SHINROKU
FUKUOKA YOSHITAKE
MATSUSHITA HIROAKI
NAKAJIMA TETSUYA
FURUKI TAIKI
NARITA OSAMU
OKADA MIKIO
YOSHIDA YUSAKU
AIDA HIROSHI
HAYASHI SHIGEYUKI
ARIMOTO TAKASHI
MORIWAKI TAKAFUMI
HIFUMI YOSHIKI
TERAZONO HARUKA
OYA DAIKI

Latest standardized assignees - inventors removed

KUBOTA

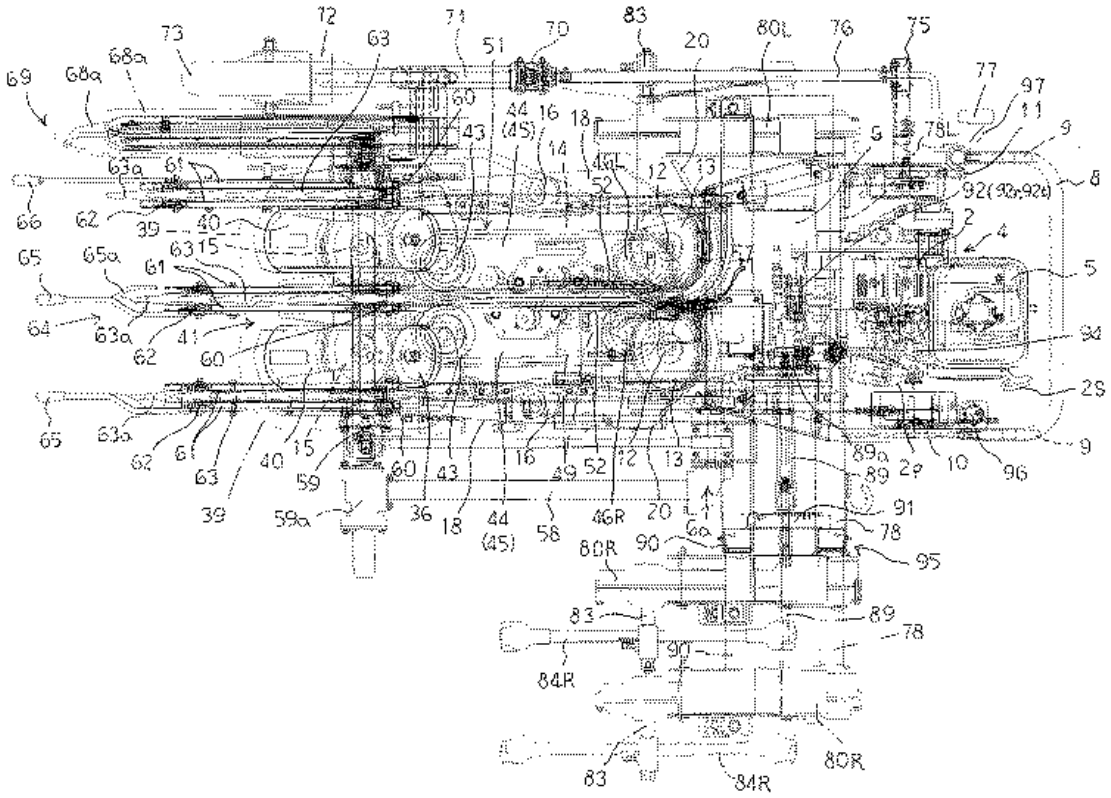
Family 52/667 - FAMPAT - ©Questel

Title

(JP2015142536)

Crop harvester

Images



Publication data including kind & date

JP2015142536	A	2015-08-06	JP2015142536
KR20150091233	A	2015-08-10	KR20150091233
JP6146325	B2	2017-06-14	JP6146325

Abstract

(JP6146325)

PROBLEM TO BE SOLVED: To provide a crop harvester which can perform interval adjustment between left and right travel devices so as not to break, and can prevent the accumulation of foliage parts separated from crops on a machine body.SOLUTION: A crop harvester is provided with: a pulling out and conveying device 19 for clamping a foliage part and pulling out a crop from a farm field; left and right travel devices 84L, 84R for traveling the farm field; an interval adjustment mechanism 95 for adjusting a lateral interval of the left and right travel devices; an adjustment actuator 89 for actuating the interval adjustment mechanism 95, which is provided in an expandable and contractable way; and a restraining mechanism 92r for forcibly stopping the expansion and contraction of the adjustment actuator 89.A transmission member 78R for transmitting a drive force to the left and right travel devices 84L, 84R and a travel support member 90 for supporting the left and right travel devices 84L, 84R expand and contract while interlocking with each other.

Inventors

Masami Muramachi
TAKAGI SHINGO
Hideaki Kurose
YUMITATSU TAKESHI
Shinichi Matsuzabu

Latest standardized assignees - inventors removed

ISEKI NOUKI

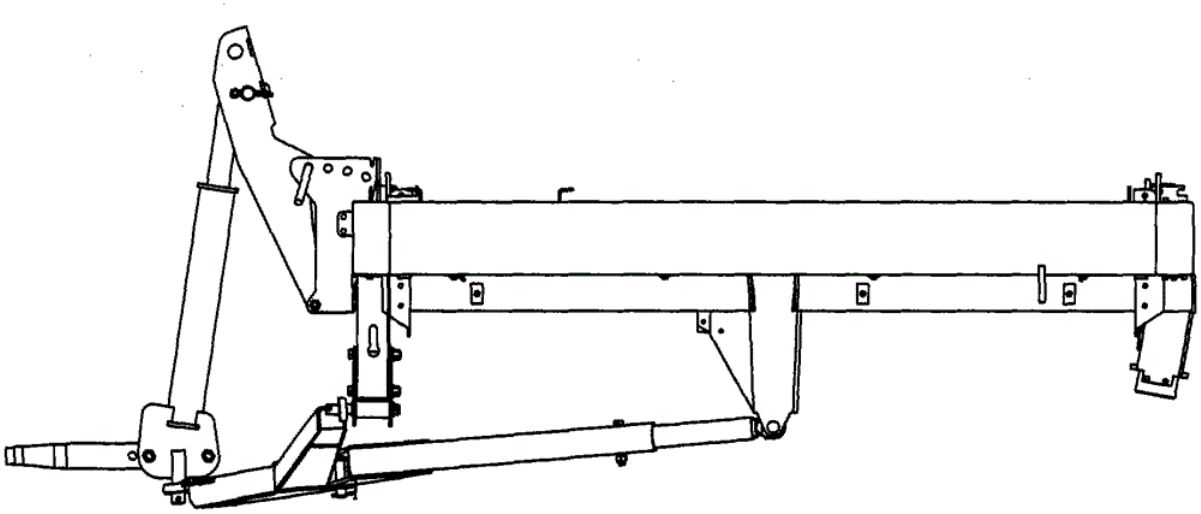
Family 53/667 - FAMPAT - ©Questel

Title

(CN103797958)

Adjustable frame of potato harvester

Images



Publication data including kind & date

CN103797958	A	2014-05-21	CN103797958
CN103797958	B	2017-04-12	CN103797958B

Abstract

(CN103797958B)

The invention belongs to the field of agricultural and animal husbandry machinery, and particularly relates to an adjustable frame of a potato harvester.The adjustable frame of the potato harvester has functions that the span is adjustable, the frame is liftable, and operation requirements for different road conditions, work requirements and ground slopes are met.The adjustable frame of the potato harvester comprises a mounting frame, an adjusting rack, a right walking wheel axle, a seat equipped hoist cylinder, a front-rear adjusting rack welding piece, a front-rear adjuster and a span adjusting rack, wherein the adjusting rack is located on the right side of the adjustable frame ad are matched in two positions with the mounting frame for mounting and fixing; the seat equipped hoist cylinder is located on the right side of the adjusting rack, is hinged and fixed with the adjusting rack through a thick hinge pin and in rigid connection and fixation with the right walking wheel axle through a bolt B and a nut B, and a vertical shaft is welded on the seat equipped hoist cylinder and hinged and fixed with the front-rear adjusting rack welding piece; and the front-rear adjusting rack welding piece is located at the front lower part of the seat equipped hoist cylinder, and is connected and fixed in two positions with the mounting frame through the span adjusting rack and the front-rear adjuster.

Inventors

LI ZHIJIE
LIU ZHIGANG
LI WENGUANG
WANG ZHENHUA
DONG ZHONGYI
LUO JINHAI
GAO XIAOHONG
YANG LI
WANG QIANG
DU JIANQIANG
ZHANG NING
HAO XINGYU
ZHANG XIN
WANG RUIXIAN
LI WEI
SUN WENTING
GAO LEI

QIAN WANG
ZHAI GAIXIA
LI YONGLONG
ZHANG PING
CHENG JINYUAN

Latest standardized assignees - inventors removed

HUHHOT BRANCH OF CHINESE ACADEMY OF AGRICULTURAL MECHANIZATION SCIENCES

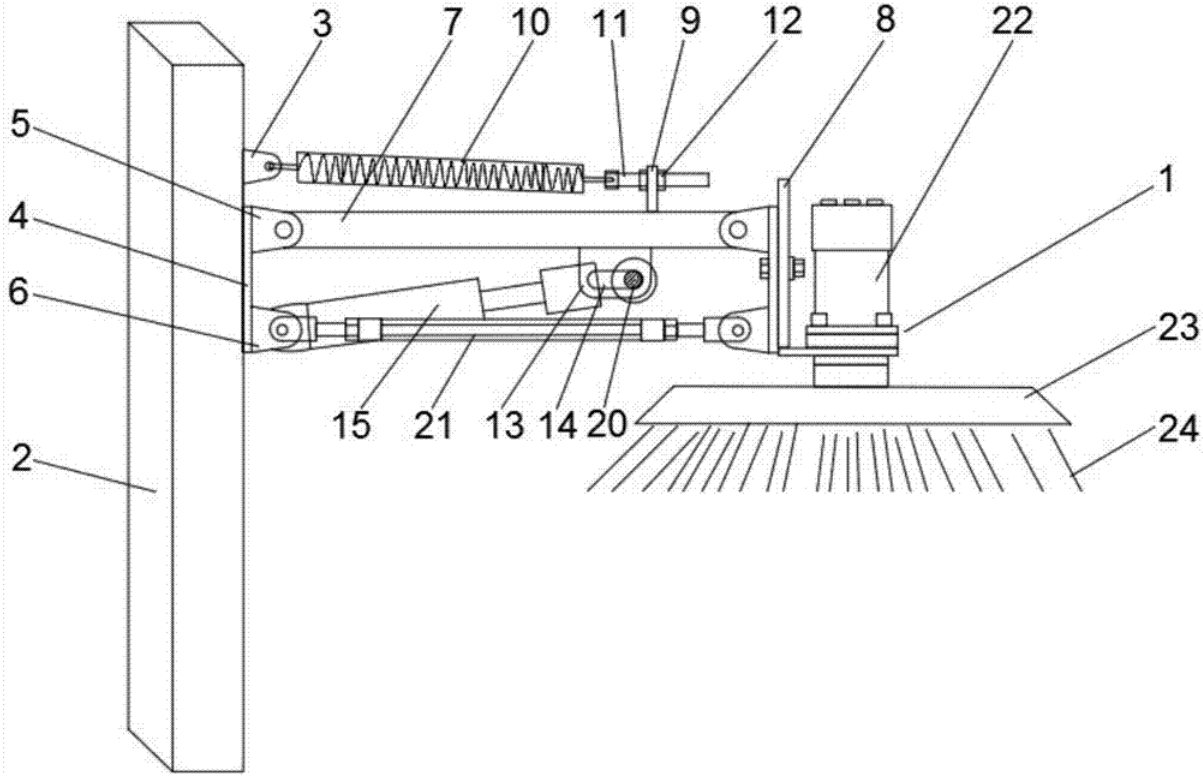
Family 54/667 - FAMPAT - ©Questel

Title

(CN107969206)

Novel sweet-potato-harvester cleaning device

Images



Publication data including kind & date

CN107969206	A	2018-05-01	CN107969206

Abstract

(CN107969206)

The invention discloses a novel sweet-potato-harvester cleaning device.The novel sweet-potato-harvester cleaning device comprises a device body, a standing column, a first fixing base, a first pulling rod, a second fixing base, a pulling rod base, a spring, a connecting rod, an adjusting nut, a stretchable device, a second pulling rod, a motor, a brushing disc and a hairbrush, wherein the standing column is arranged on one side of the device body, a spring lifting lug is arranged at one end of the upper portion of the standing column, and the first fixing base is arranged at the lower end ofthe spring lifting lug.The novel sweet-potato-harvester cleaning device is scientific and reasonable in structure, the pretension force of the spring can be adjusted through the connecting rod, and aconnecting shaft is connected with a stretchable rod of an air cylinder; when protruding sweet potatoes are met, the reacting force of the brushing disc is enlarged, the first pulling rod and the second pulling rod are swung upwards around the first fixing base and the second fixing base at this moment, the position of the brushing disc rises, the new balance state of the protruding sweet potatoes under the effects such as the applied force and the gravity of the brushing disc and the pulling force of the spring is achieved, and therefore soil on the surfaces of the sweet potatoes is cleaned.

Inventors

DENG JINYOU

Latest standardized assignees - inventors removed

GUANGXI GUANGFU JIN TRADING

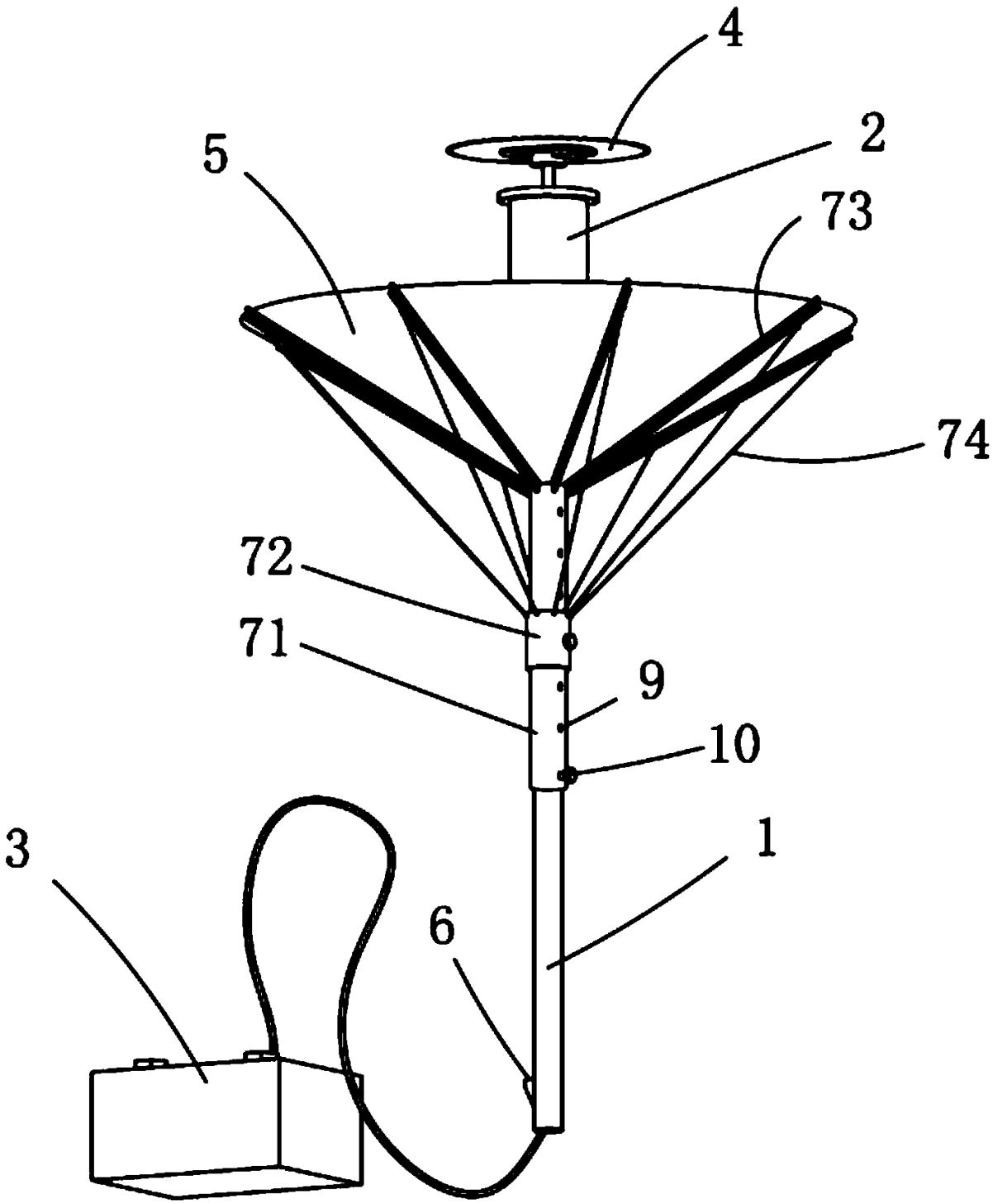
Family 55/667 - FAMPAT - ©Questel

Title

(CN103858607)

Power-driven dry and fresh fruit harvester

Images



Publication data including kind & date

CN103858607	A	2014-06-18	CN103858607

Abstract

(CN103858607)

The invention relates to a power-driven dry and fresh fruit harvester which comprises a telescopic control connecting rod

(1), a micro motor (2) fixed on the control connecting rod (1), and a battery pack (3) arranged in a split manner with the control connecting rod (1); a disk saw (4) is fixed on an output shaft of the micro motor (2); an umbrella-shaped harvesting net (5) used for bearing the dry and fresh fruit is fixed on the control connecting rod (1), and is positioned below the disk saw (4); a power supply of the micro motor (2) is provided by the battery pack (3); a switch (6) for controlling the micro motor (2) is arranged on the control connecting rod (1).The power-driven dry and fresh fruit harvester has the advantages of reasonable design, practical function and convenience in operation, breaks through the requirements on operation technique and the physical strength in traditional harvesting operation of the dry and fresh fruit, and can take down the dry and fresh fruit from trees conveniently, efficiently and safely and store the dry and fresh fruit together.

Inventors

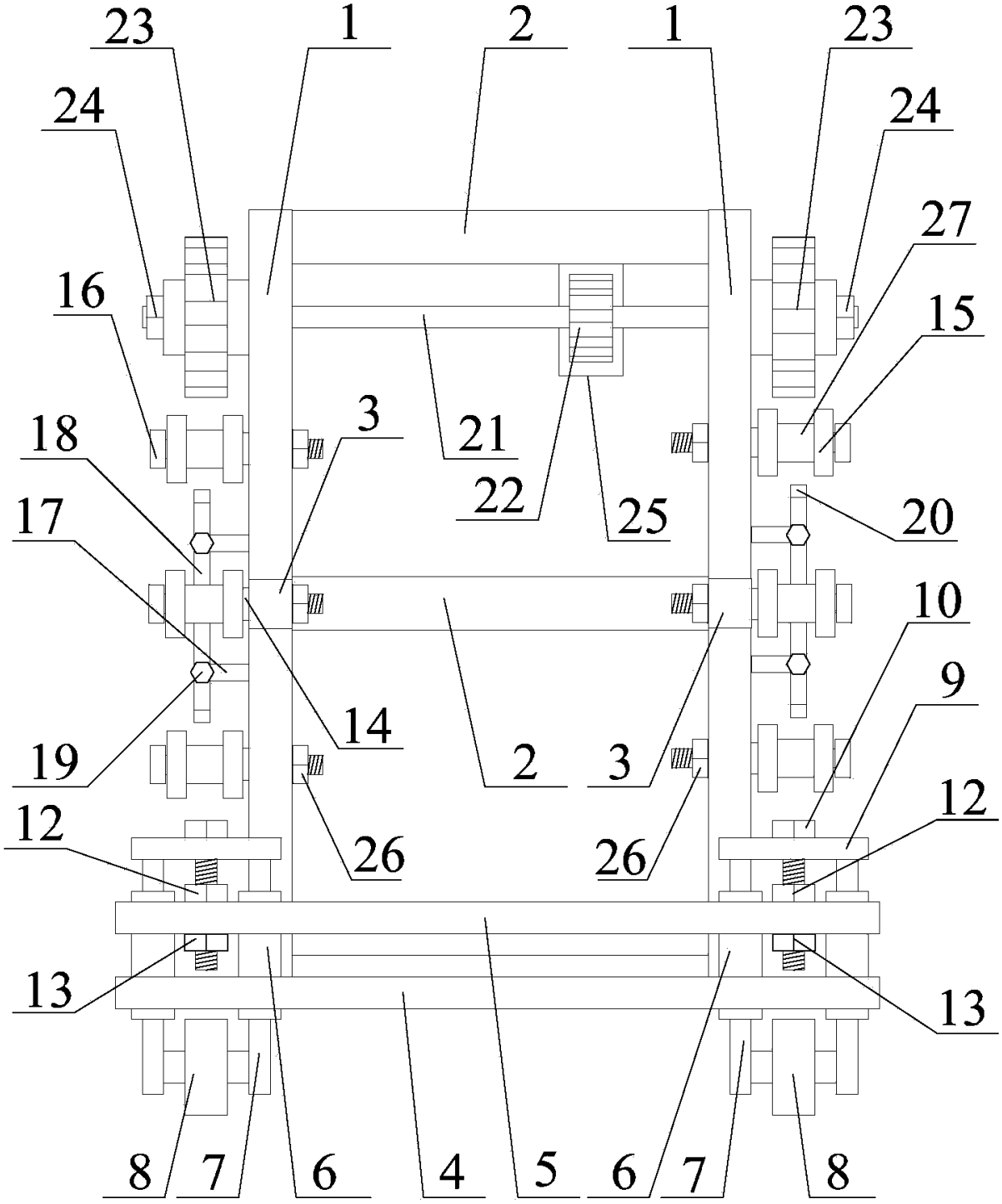
YANG JIAN
YANG QIANQIAN
ZHANG YOUSHENG
WANG XIAODAN

Family 56/667 - FAMPAT - ©Questel

Title

(CN204291835U)
Crawler belt mounting chassis of combine harvester

Images



Publication data including kind & date

CN204291835 U 2015-04-29 CN204291835U

Abstract

(CN204291835U)

The utility model provides a crawler belt mounting chassis of a combine harvester.The crawler belt mounting chassis comprises a crawler belt chassis structure, a crawler belt driving structure and a crawler belt tensioning structure.The crawler belt chassis structure comprises two parallel bearing beams, three supporting beams, two supporting columns, a bearing wheel, a bearing shaft and a shaft head nut.The crawler belt driving structure comprises a driving shaft, two driving gears and two fixing nuts.The crawler belt tensioning structure comprises a cross beam horizontally mounted at the other ends of the two bearing beams, tensioning mechanisms are arranged at the two extending ends of the cross beam respectively, and each tensioning mechanism comprises two telescopic sleeve tubes, a locking bolt, a push plate, a front nut, a rear nut, two push rods and a tensioning wheel.The crawler belt mounting chassis can adjust the tensioning degree of a crawler belt in real time, the bearing wheel is convenient to replace, and the crawler belt mounting chassis has high application prospects.

Inventors

ZHAO WEIQING

ZHU FENGNIAN

Latest standardized assignees - inventors removed

XINGHUA LIYUAN AGRICULTURAL EQUIPMENT MANUFACTURING

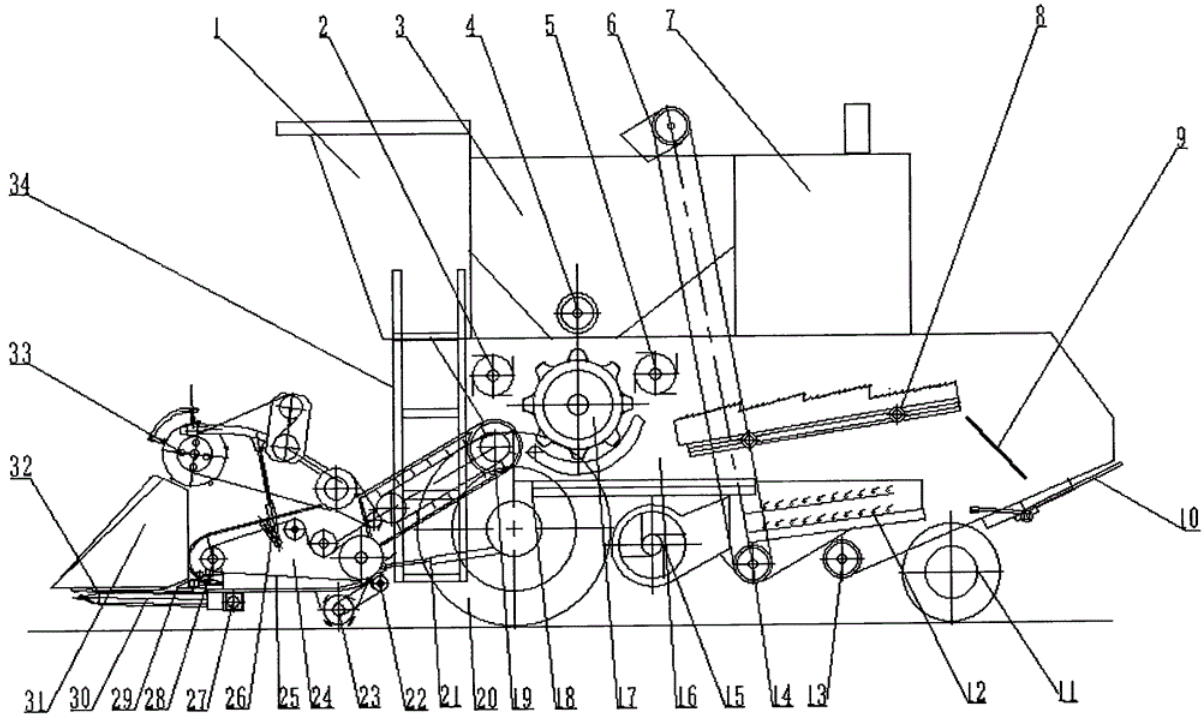
Family 57/667 - FAMPAT - ©Questel

Title

(CN106233920)

Self-propelled combine harvester for sunflower

Images



Publication data including kind & date

CN106233920 A 2016-12-21 CN106233920

Abstract

(CN106233920)

The invention discloses a self-propelled combine harvester for sunflower.A combine harvester header is hinged to the front of a main frame and positioned at the lower portion of a cab, a threshing device is mounted at an outlet end of an oblique conveyer, a straw shaker is mounted at the rear of the threshing device, a straw chopping and returning device is mounted below the header, the rear end of the straw shaker is also provided with a slide plate, and an automatic collecting and discharging device for sunflower head is mounted below the rear of the slide plate.The combine harvester employs a spiral stalk-pull roller device and a stalk pull-press device, less stalks enter the threshing device, the load of a threshing and separating mechanism is reduced, finishing rate is increased, harvesting, threshing, kernel cleaning, impurity separating, empty head collecting and straw chopping and returning joint operation can be achieved at a time, kernel breakage rate is reduced, no damage is caused to kernel skin, and the product quality requirements are met.

Inventors

YANG ZHIHUA

Pinch

ZHANG WENZHONG

SHAO QUNSHENG

ZHAO PEIYI

HE XUEQIN

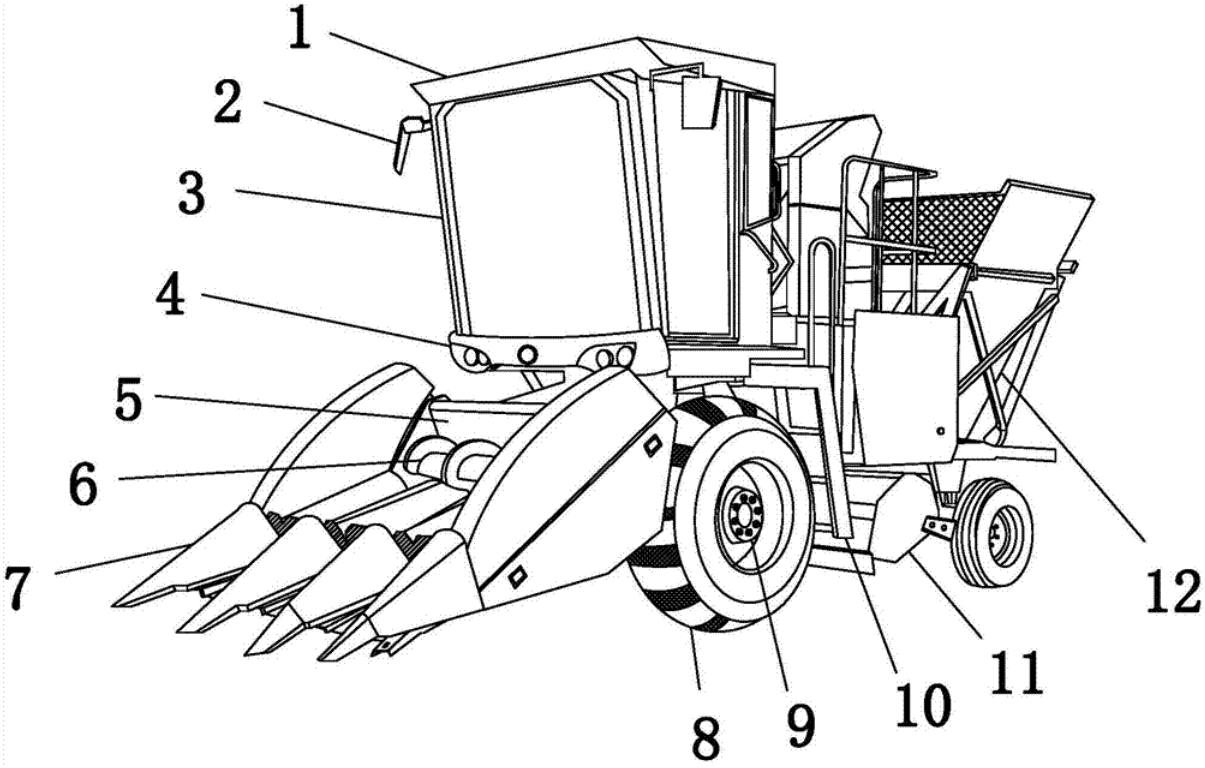
YANG ZHI
Lu Jingyu
ZHANG XIAOMENG
Jianzhi Liang
HAN GUOYAN
CHEN XIA

Family 58/667 - FAMPAT - ©Questel

Title

(CN206602848U)
Intelligent seeding harvester

Images



Publication data including kind & date

CN206602848	U	2017-11-03	CN206602848U

Abstract

(CN206602848U)
The utility model discloses an intelligent seeding harvester, its structure includes: driver's cabin top cap, driver's cabin rear - view mirror, harvester cab, harvester headlight, the flexible transmission groove, transmission of reaping impel wheel, intelligence to reap scraper bowl, wheel, wheel roller bearing flange, step on and rise staircase, engine, crop seed layering standing groove, intelligence is reaped the scraper bowl and is equipped with scraper bowl side circuit board, scraper bowl propulsion board, scraper bowl and reaps tooth's socket, scraper bowl seeding slot, has realized that the intellectuality is reaped to connect during seeding then harvested material material send into the standing groove, and the automatic operation manual operation nature of integral structure is few, and the high efficiency is reaped the seeding and is saved time simultaneously and the labour.

Inventors

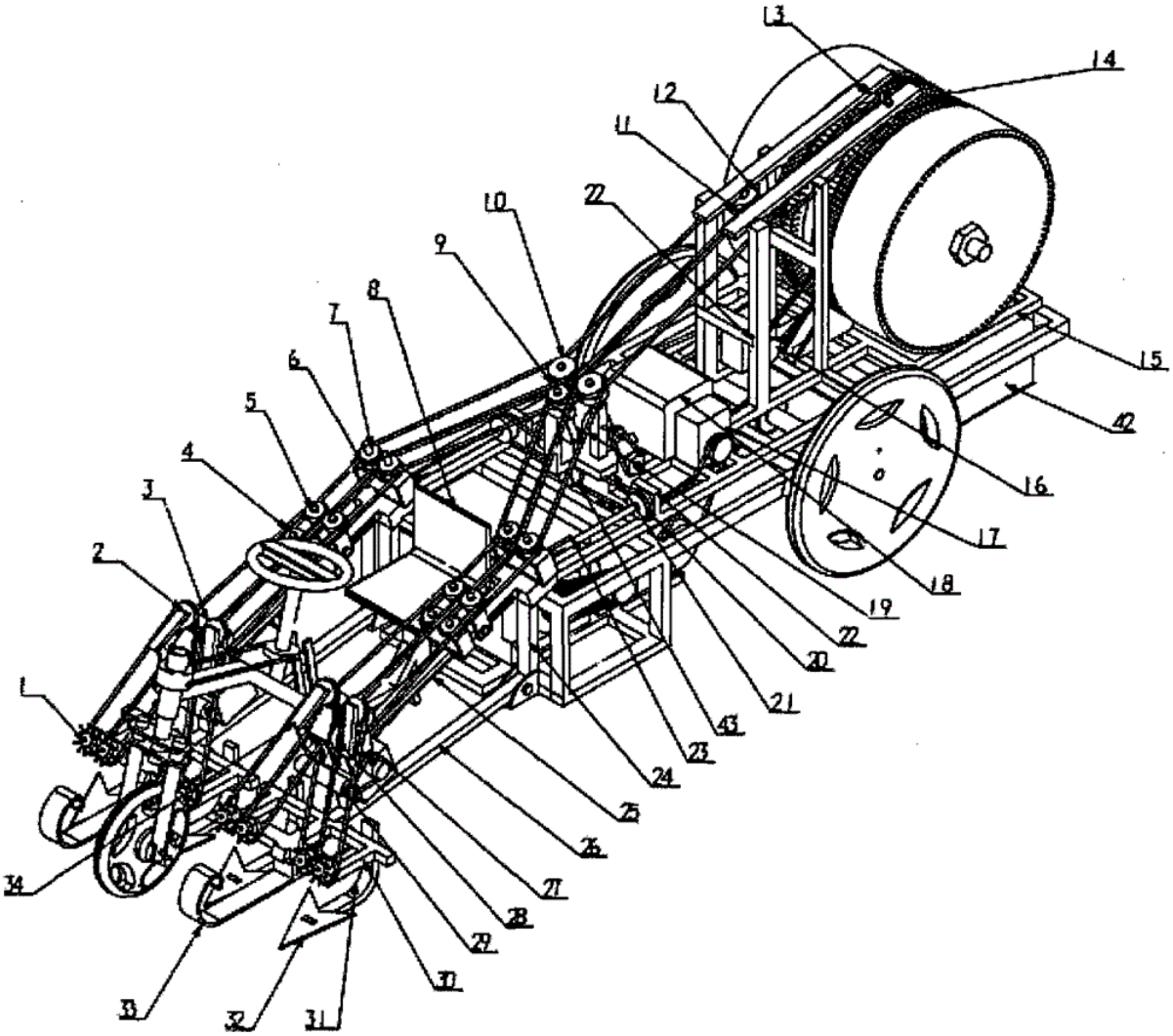
TONG XIANBO

Family 59/667 - FAMPAT - ©Questel

Title

(CN103141209)
Multifunctional garlic combine harvester

Images



Publication data including kind & date

CN103141209	A	2013-06-12	CN103141209
CN103141209	B	2017-04-05	CN103141209B

Abstract

(CN103141209B)

The invention discloses a multifunctional garlic combine harvester, which comprises a power locomotive, a transmission system, a clamping, pulling and conveying system, a positioning and cutting system, a rack and a control device.The multifunctional garlic combine harvester is characterized in that the harvesting of garlic which is planted at different line spacing in different terrains is realized through twirling, extension, retraction and translation of the rack, the multifunctional garlic combine harvester adapts to lands with different softness and humidity and viscosity by using a sleigh plate to limit depth, the depth is stably limited and the situation of twisting is avoided; the clamping, pulling and conveying system realizes pulling, closing, steering and horizontal included angle adjustment, and good preparations are made for high-efficiency cutting; the positioning and cutting system accurately positions and precisely cuts garlic bulbs according to a geometric principle that the position of a base cutting point is always unchanged when an isosceles triangle is tangent with circles or ellipses with different sizes because the base angle of the isosceles triangle is fixed and the side length of the isosceles triangle is variable; the transmission system transmits needed power by using a retractable transmission shaft, a steering gearbox, a universal joint and the like; and the most common agricultural motor tricycle can be used as the power locomotive to reduce the cost.The multifunctional garlic combine harvester has the advantages of novel design, compact structure, complete functions and high adaptability.

Inventors

WANG ZHEN

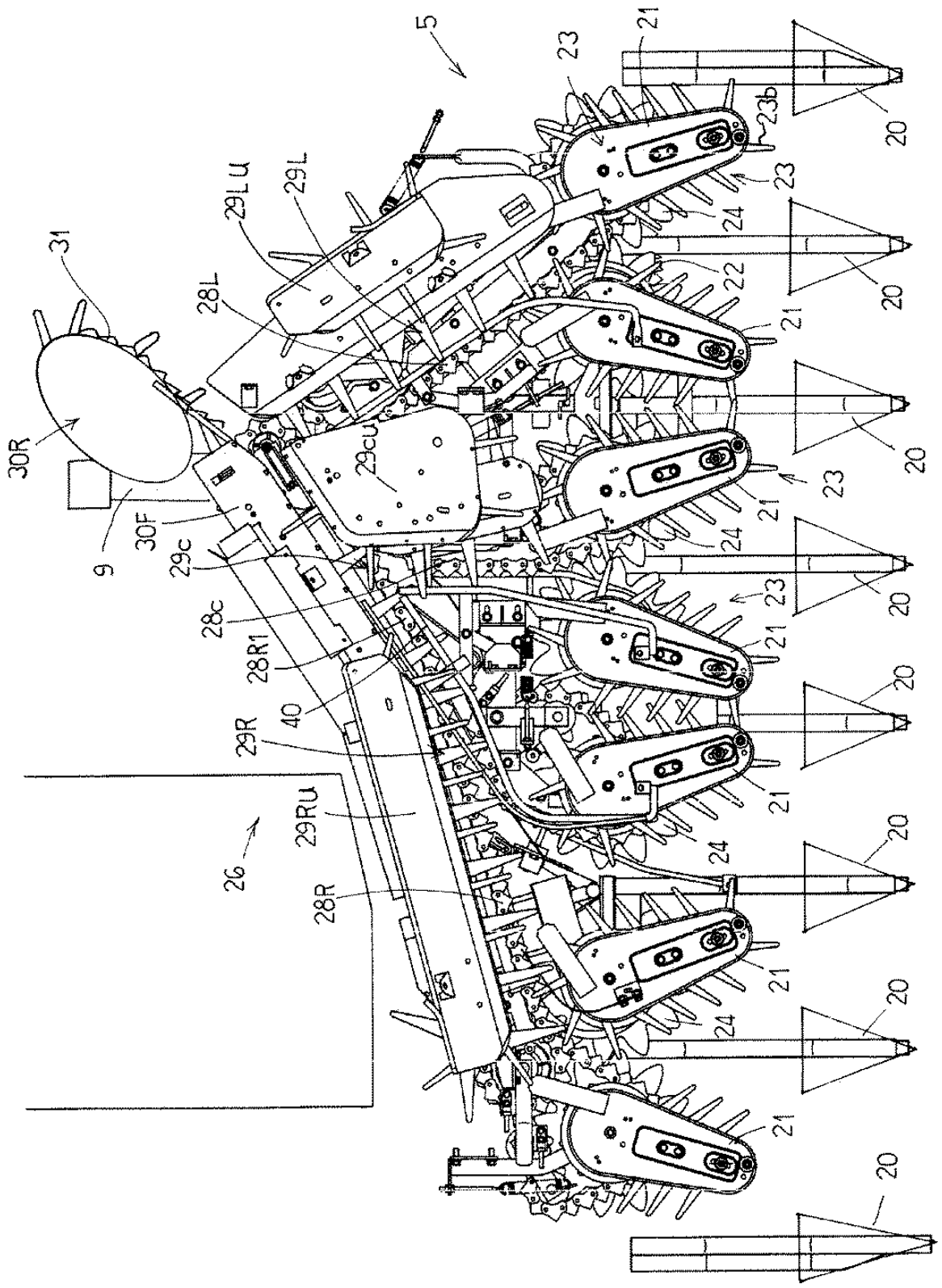
Family 60/667 - FAMPAT - ©Questel

Title

(JP2011055744)

Combine harvester

Images



Publication data including kind & date

CN101810078	A	2010-08-25	CN101810078
TW201031318	A	2010-09-01	TW201031318

KR20100096986	A	2010-09-02	KR20100096986
JP2010193751	A	2010-09-09	JP2010193751
JP2011004628	A	2011-01-13	JP2011004628
JP2011055744	A	2011-03-24	JP2011055744
KR101129240	B1	2012-04-12	KR101129240
JP4957755	B2	2012-06-20	JP4957755
CN101810078	B	2012-07-04	CN101810078B
TWI369177	B	2012-08-01	TWI369177
JP5035312	B2	2012-09-26	JP5035312

Abstract

(JP5035312)

PROBLEM TO BE SOLVED: To provide a combine with a reaping width of seven guiding paths, which improves a reaping efficiency while simplifies a drive mechanism of a reaping device.

SOLUTION: A combine harvester is arranged with eight grass dividing frames (43) in a front side of a lower transmission case (38) in a reaping device (6), and formed with seven grain straw guiding paths (44) between a grass dividing frames.A rightmost first round-in wheel body (53a) among seven round-in wheel bodies (53) of each grain straw guiding path (44) is engaged and linked with a neighboring second round-in wheel body (53b) to rotate.A third round-in wheel body (53c) is engaged and linked with a neighboring fourth round-in wheel body (53d) and a fifth round-in wheel body (53e) separately to rotate.A sixth round-in wheel body (53f) is engaged and linked with a neighboring leftmost seventh round-in wheel body (53g) to rotate.

COPYRIGHT: (C)2011,JPO&INPIT

Inventors

Takahashi Kakuro

Ryuji Akira

MIYAKE TATSUYA

KITAGAWA TOMOSHI

Peba Ishiga

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

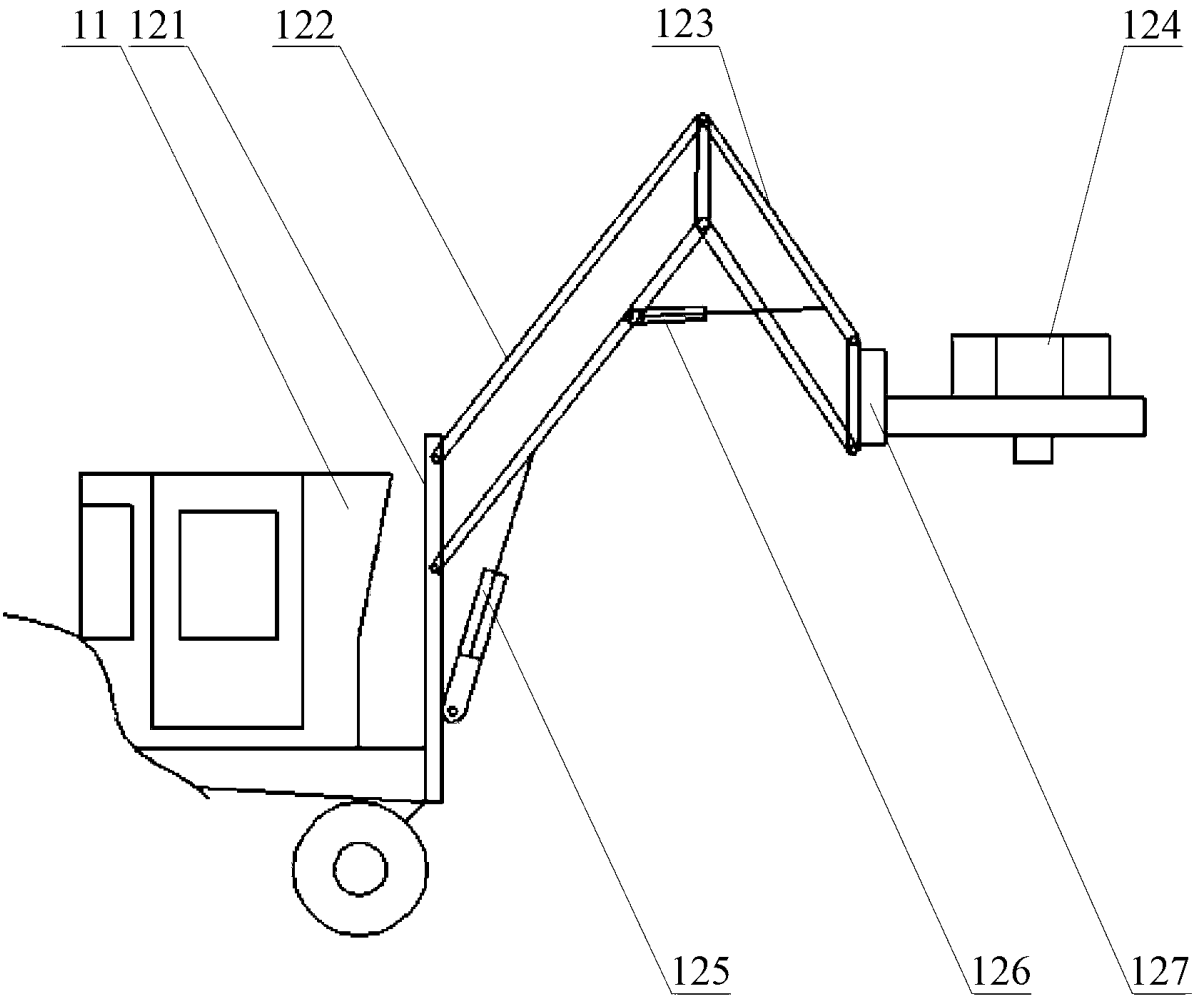
Family 61/667 - FAMPAT - ©Questel

Title

(CN203136556U)

Sugarcane harvester and tip cutting device thereof

Images



Publication data including kind & date

CN203136556 U 2013-08-21 CN203136556U

Abstract

(CN203136556U)

The utility model discloses a tip cutting device of a sugarcane harvester.The tip cutting device comprises a rack, a bracket, a plurality of tip cutters arranged on the bracket and a first stretch driving device, wherein the bracket is hinged to the rack, and two ends of the first stretch driving device are hinged with the bracket and the rack respectively.When the sugarcane harvester works, an operator can flexibly control the stretching of the first stretch driving device according to heights of sugarcane tips required to be harvested during the driving process of the sugarcane harvester, so that the height of the bracket is changed, the heights of the tip cutters are correspondingly adjusted, and the lengths of the cut sugarcane tips are basically identical.According to the tip cutting device, the first stretch driving device is adopted to change the height of the bracket, so that the heights of the tip cutters are changed according to the growing condition of sugarcane in the scene, the lengths of the cut sugarcane tips are uniform, over-short sugarcane tips are absent, and the output of sugarcane sugar produced by the sugarcane tips is obviously increased.The utility model further discloses a sugarcane harvester provided with the tip cutting device.

Inventors

HU YOUHUA
LIANG QUKAO
LIU DINGMING
LI XINGAN

Latest standardized assignees - inventors removed

HUNAN YUNMA HUASHENG AUTOMOBILE TECHNOLOGY

Family 62/667 - FAMPAT - ©Questel

Title

(EP1063879)

Articulated combine

Images

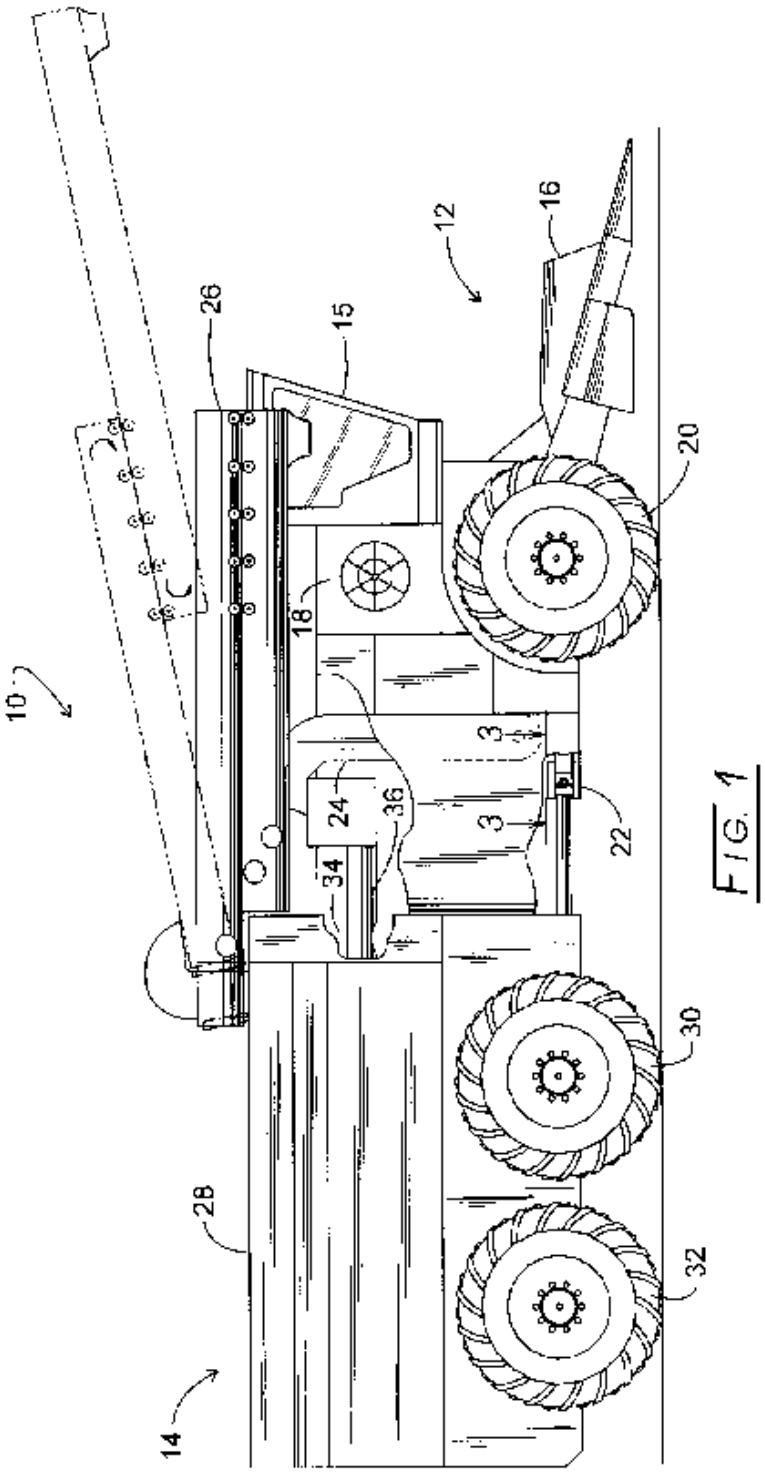


FIG. 1

Publication data including kind & date

WO9946972	A1	1999-09-23	WO9946972
CA2318917	A1	1999-09-23	CA2318917
AU3355499	A	1999-10-11	AU9933554
US6012272	A	2000-01-11	US6012272
US6125618	A	2000-10-03	US6125618
BR9908826	A	2000-12-05	BR9908826
BRPI9908826	A1	2000-12-05	BR9908826

EP1063879	A1	2001-01-03	EP1063879
CN1293537	A	2001-05-02	CN1293537
US6233911	B1	2001-05-22	US6233911
PL342259	A1	2001-06-04	PL99342259
US6240711	B1	2001-06-05	US6240711
SK13562000	A3	2001-06-11	SK200001356
HU0101318	A2	2001-08-28	HU200101318
US6339917	B1	2002-01-22	US6339917
HU0101318	A3	2002-02-28	HU200101318
EP1063879	A4	2002-05-22	EP1063879
AU752000	B2	2002-09-05	AU-752000
TW200304592	A	2003-10-01	TW200304592
RU2237990	C2	2004-10-20	RU2237990
CN1185920	C	2005-01-26	CN1185920C
EP1063879	B1	2005-05-25	EP1063879
AT296025	T	2005-06-15	ATE296025
DE69925469	D1	2005-06-30	DE69925469
DE69925469	T2	2006-02-02	DE69925469
CA2318917	C	2007-11-06	CA2318917

Abstract

(EP1063879)

Broadly, one aspect of the present invention is an articulated combine (10) having increased grain storage capacity (e.g., 1,200 bushels) and which is composed of a forward unit (12) having an operator's cab (15), an engine (18), a grain harvesting assembly (16), a grain transfer assembly (26) and being devoid of an on-board grain bin; and a rearward unit (14) jointly attached to the forward section and having steerable and powered wheels (30, 32), an on-board grain bin (28) for receiving grain from the forward section grain transfer assembly and a grain off-loading assembly.The grain transfer assembly (26), joint (22) and grain off-loading assembly and controls form other aspects of the present invention.

Inventors

DILLON BEN N

Latest standardized assignees - inventors removed

TRIBINE INDUSTRIES

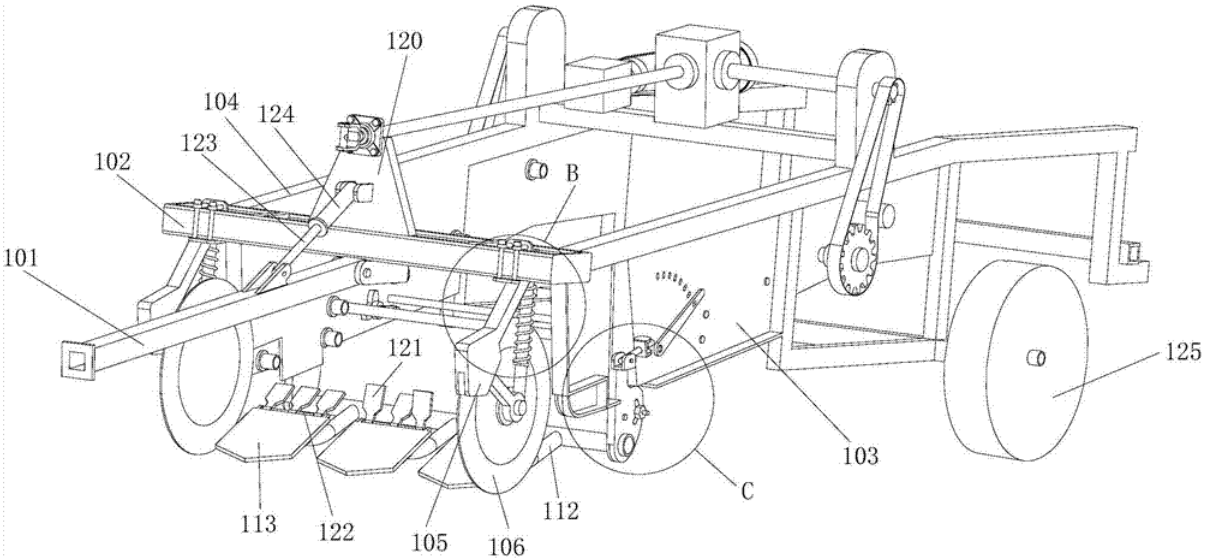
Family 63/667 - FAMPAT - ©Questel

Title

(CN107371555)

Root and tuber crop digging device and harvester using same

Images



Publication data including kind & date

CN107371555 A 2017-11-24 CN107371555

Abstract

(CN107371555)

The invention relates to the technical field of agricultural harvesters, in particular to a root and tuber crop digging device and a harvester using the same.The root and tuber digging device comprises a rack for being connected with a traction apparatus, and a telescopic device.The rack is provided with a cutting mechanism for cutting off weeds and/or mulching films, and a shoveling mechanism for shoveling root and tuber crops from the soil.The telescopic device is connected with the rack and is used for lifting or dropping the rack to allow the shoveling mechanism to be located above the ground or allow the shoveling mechanism to extend into the ground.The invention further provides the harvester.The root and tuber crop digging device and the harvester the using same are not only suitable for seed-clearing cultivation but also more suitable for mulching film covering cultivation, the digging missing phenomenon can be avoided as far as possible, and the harvesting efficiency is improved.

Inventors

GUO TIANWEI

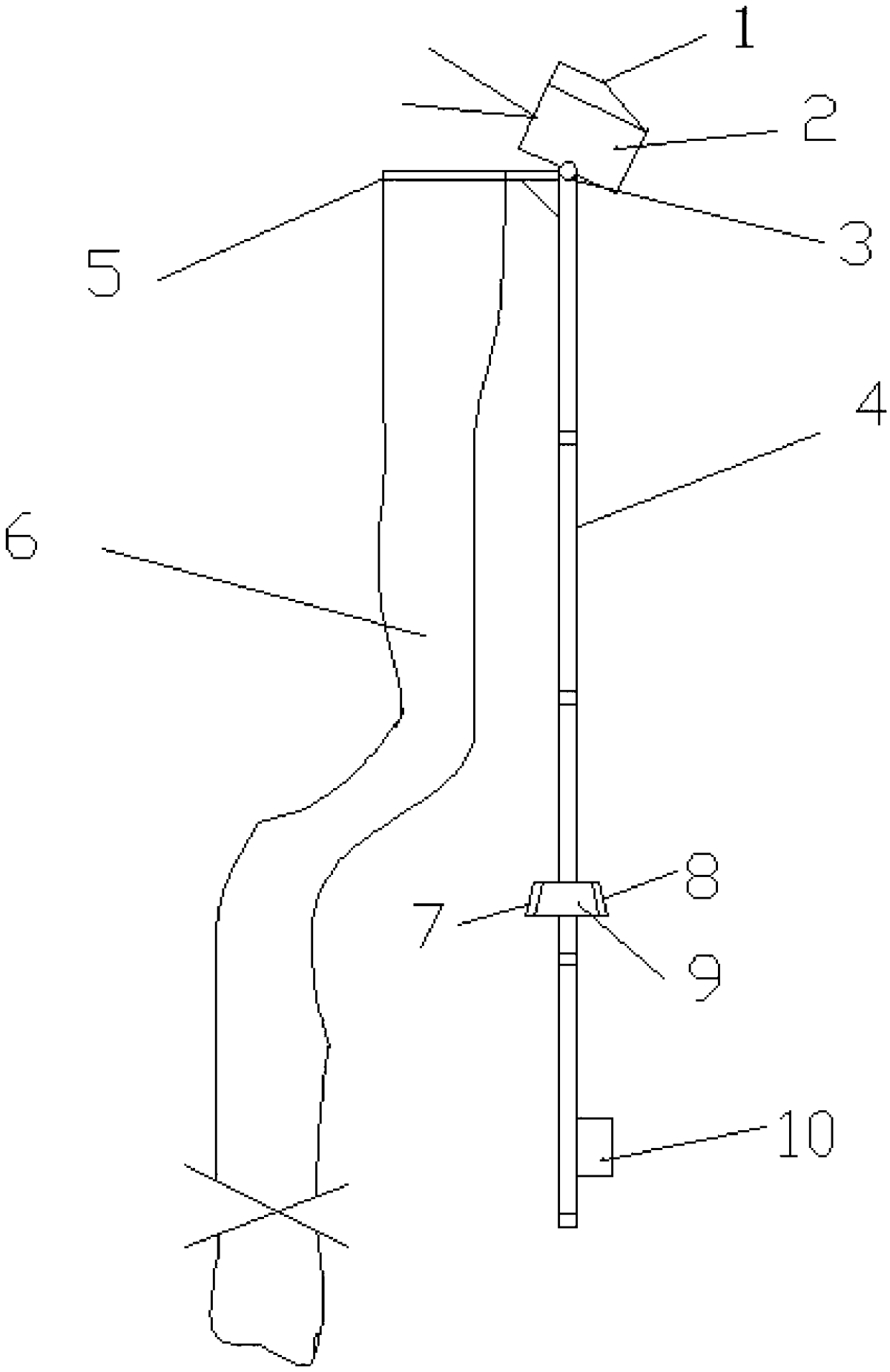
Family 64/667 - FAMPAT - ©Questel

Title

(CN203289912U)

Chinese chestnut harvester

Images



Publication data including kind & date

CN203289912 U 2013-11-20 CN203289912U

Abstract

(CN203289912U)

The utility model discloses a Chinese chestnut harvester which comprises electric scissors.A shearing part is arranged on

the front portions of the electric scissors, and a positioning part is arranged on the rear portions of the electric scissors.The lower portion of the positioning part is connected with a handheld telescopic link through an electric universal joint, a storage bag is fixedly arranged at the upper end of the handheld telescopic link, and the opening of the storage bag is opened and faces towards the shearing part.A control panel is fixedly arranged on the lower portion of the handheld telescopic link, and the control panel is provided with a scissor control switch which controls the electric scissors and a universal joint switch which controls the electric universal joint.According to the Chinese chestnut harvester, the electric scissors are used for shearing and picking Chinese chestnuts, and damage on branches and leaves can be avoided; in addition, the electric scissors are placed at the upper end of the handheld telescopic link, people can pick the Chinese chestnuts at high positions as long as people stand on the ground, manual climbing is needless, safety is good, and meanwhile the electric scissors are used for picking so that physical power can be saved.

Inventors

TIAN BAINIAN

Latest standardized assignees - inventors removed

SANMENXIA BAI NIAN AGRICULTURAL MACHINERY MANUFACTURING

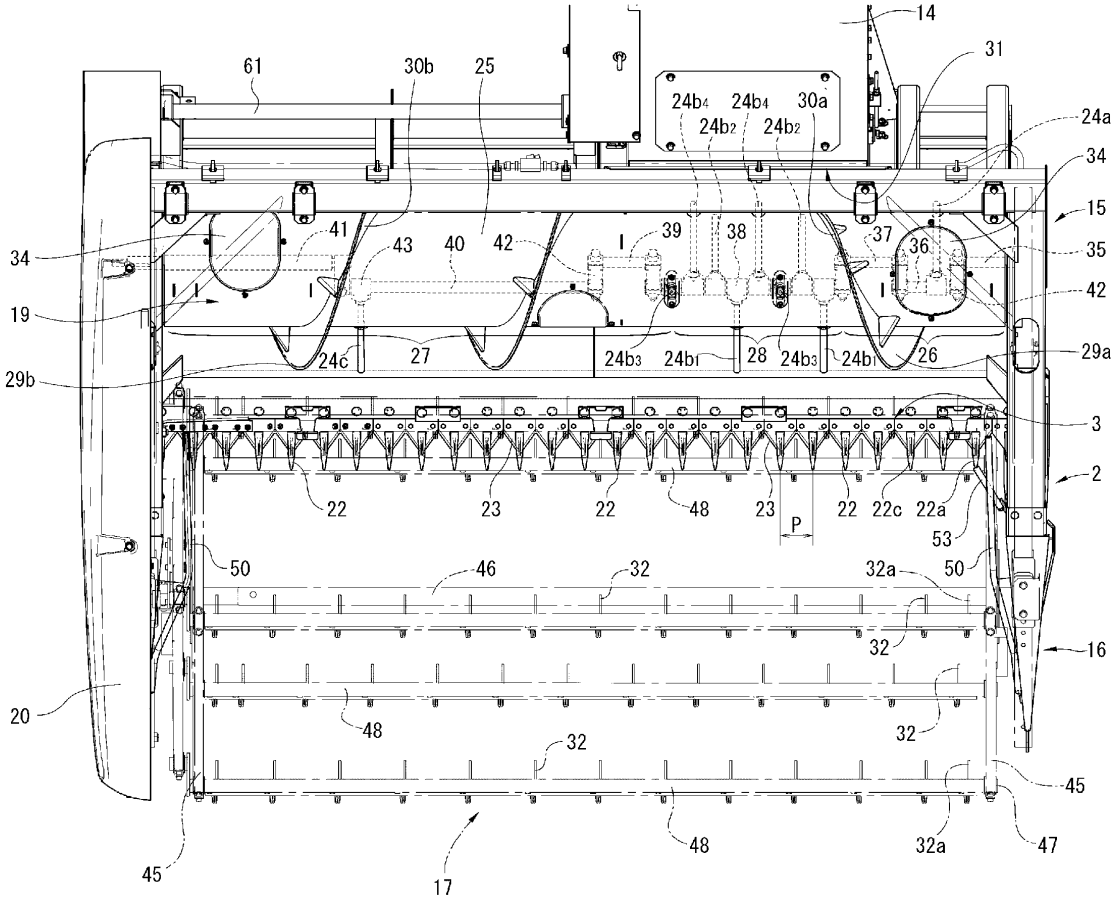
Family 65/667 - FAMPAT - ©Questel

Title

(WO201602662)

Combine harvester

Images



Publication data including kind & date

WO2016002662	A1	2016-01-07	WO201602662
JP2016010356	A	2016-01-21	JP2016010356
JP2016015899	A	2016-02-01	JP2016015899
CN106470541			

	A	2017-03-01	CN106470541
VN51905	A	2017-04-25	VN--51905
JP6283582	B2	2018-02-21	JP6283582

Abstract

(WO201602662)

Provided is a combine harvester configured so as to efficiently rake, using a raking auger, the ear-tip side part of divider-side grain stems harvested using a cutting blade device, and to prevent damage to the divider.A combine harvester according to the present invention is provided with a divider, a raking reel, a cutting-blade device, a raking auger, a platform, and a conveyor, wherein the combine harvester is characterized in that the raking auger is composed of a cylindrical drum, helical blades projecting from the outer circumferential surface of the drum and being capable of lateral movement for orienting the grain stems to the conveyor, and a plurality of rod-shaped raking fingers capable of radially extending and retracting from the outer peripheral surface of the drum for guiding the grain stems to the conveyor; at least one of the fingers being provided in a position on the drum aligned within two pitches of receiving blades from the outermost effective receiving blade of the cutting-blade device end section to the inner side in plan view.

Inventors

ABE DAISUKE

KATOU EIICHI

KUBOTA AKIHIKO

Latest standardized assignees - inventors removed

YANMAR

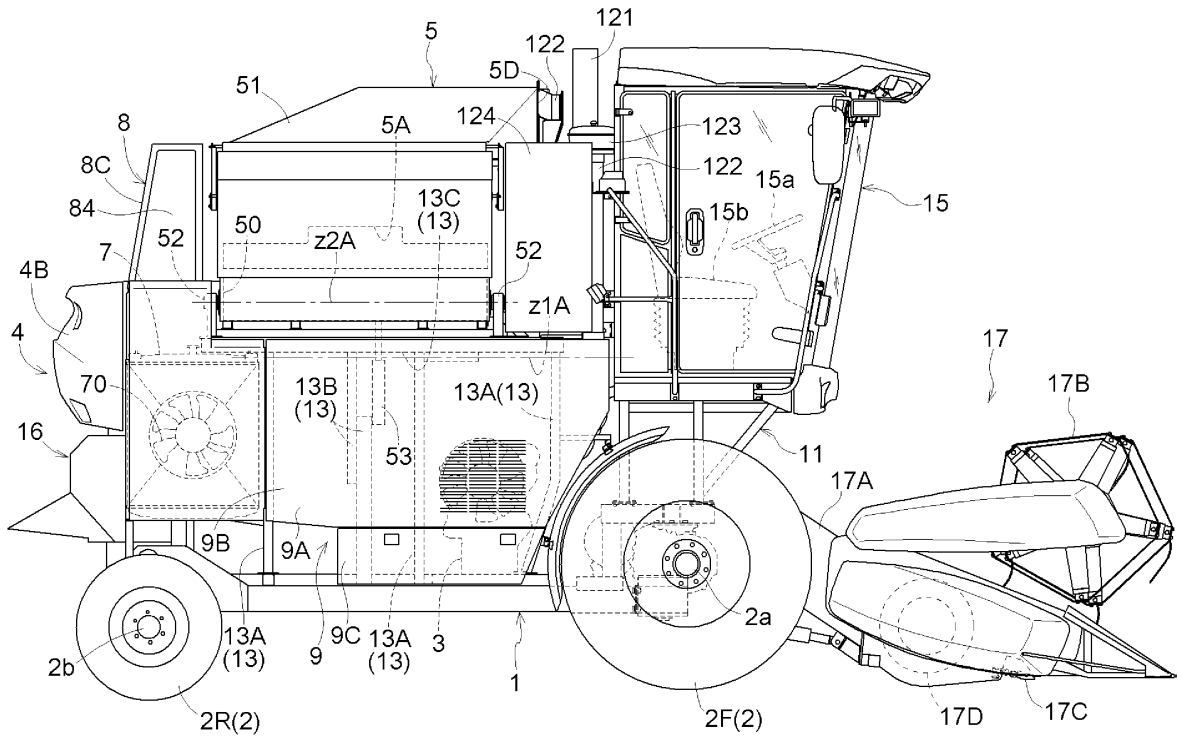
Family 66/667 - FAMPAT - ©Questel

Title

(WO201520056)

Harvester and whole stalk input type combine

Images



Publication data including kind & date

WO2015020056	A1	2015-02-12	WO201520056
CN105451540	A	2016-03-30	CN105451540
JP2016178869	A	2016-10-13	JP2016178869

JP2016178868 A 2016-10-13 JP2016178868

Abstract

(WO201520056)

A harvester is provided with: a threshing device (4) which is mounted on a self-propelled machine body; a radiator (7) which is disposed outside laterally of the threshing device (4); a radiator cooling fan (70) which is disposed between the threshing device (4) and the radiator (7); and an air intake case (8) which is disposed outside laterally of the radiator (7) and into which outside air for cooling the radiator (7) is introduced.The air intake case (8) is configured in such a manner that an air intake opening (84) for introducing outside air is located above the radiator (7).

Inventors

YAMAGATA KOJI
SHINYA MAMORU
NAKAJIMA SHINROKU
YOSHIDA YUSAKU
FUKUOKA YOSHITAKE
MITSUI TAKAFUMI
UCHI TAKAHIRO
TATENO YUSUKE
UEKITA CHIHARU
KUMATORI TSUYOSHI
FURUKI TAIKI
NARITA OSAMU

Latest standardized assignees - inventors removed

KUBOTA

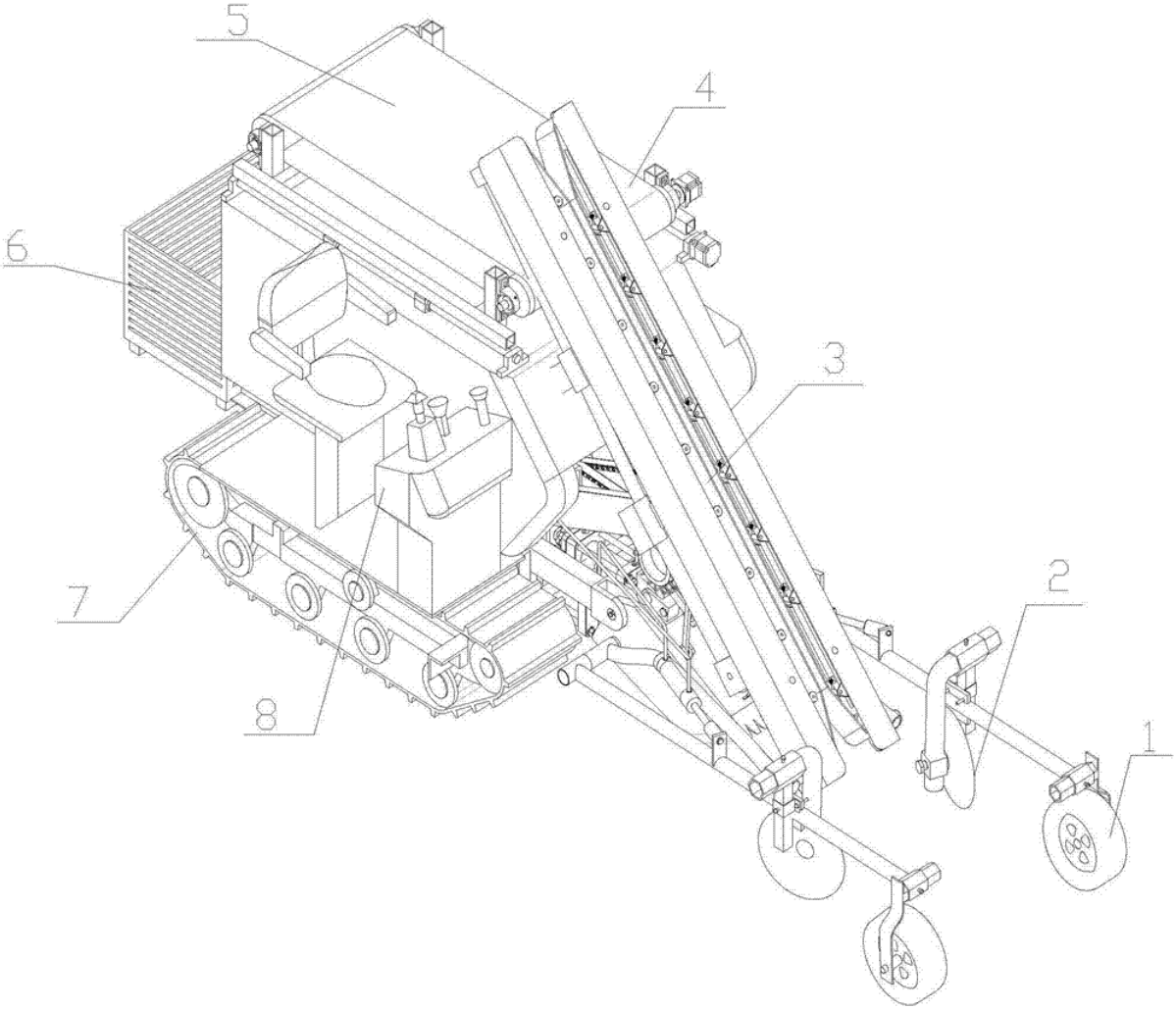
Family 67/667 - FAMPAT - ©Questel

Title

(CN106416578)

Automatically operating unilineal crawler combine harvester of scallion

Images



Publication data including kind & date

CN106416578	A	2017-02-22	CN106416578
CN106416578	B	2018-11-20	CN106416578B

Abstract

(CN106416578B)

The invention relates to an automatically operating unilineal crawler combine harvester of scallion, which comprises a hydraulic base plate, a holding device, an earth-shaking device, a dusty cleaning device, a secondary earth removing device and a gathering unit.The hydraulic base plate includes a chassis frame, an engine, a traveling system, a braking system and a guidance system.The holding device is bilaterally arranged, centering on an axle wire of the chassis frame.The earth-shaking device includes a clay digger, an earth-shaking mechanism, a hydraulic motor, an earth-shaking stander and a fixed link of the earth-shaking stander.The dusty cleaning device includes a dust-cleaning fixed bolster, a dust-cleaning electric motor, a talon of dust-cleaning and a fixed tray of the talon of dust-cleaning.The secondary earth removing device includes earth removing cuspids, a gear of the earth removing and an axis of earth removing.The gathering unit includes a collecting fixed frame, a collecting telescopic hydraulic cylinder, a collecting box and dump rails of the collecting box.The automatically operating unilineal crawler combine harvester of scallion can achieve the goal of disposable harvest and need no a second manual pickup.And a flexible holding belt can achieve the aim of nondestructive holding of scallion and guarantee the harvest quality.

Inventors

HOU JIALIN
LIU JINGWEI
LI YUHUA
WANG HOUXIN
LIU XIAO
SONG TIANXIN

Latest standardized assignees - inventors removed

SHANDONG AGRICULTURAL UNIVERSITY

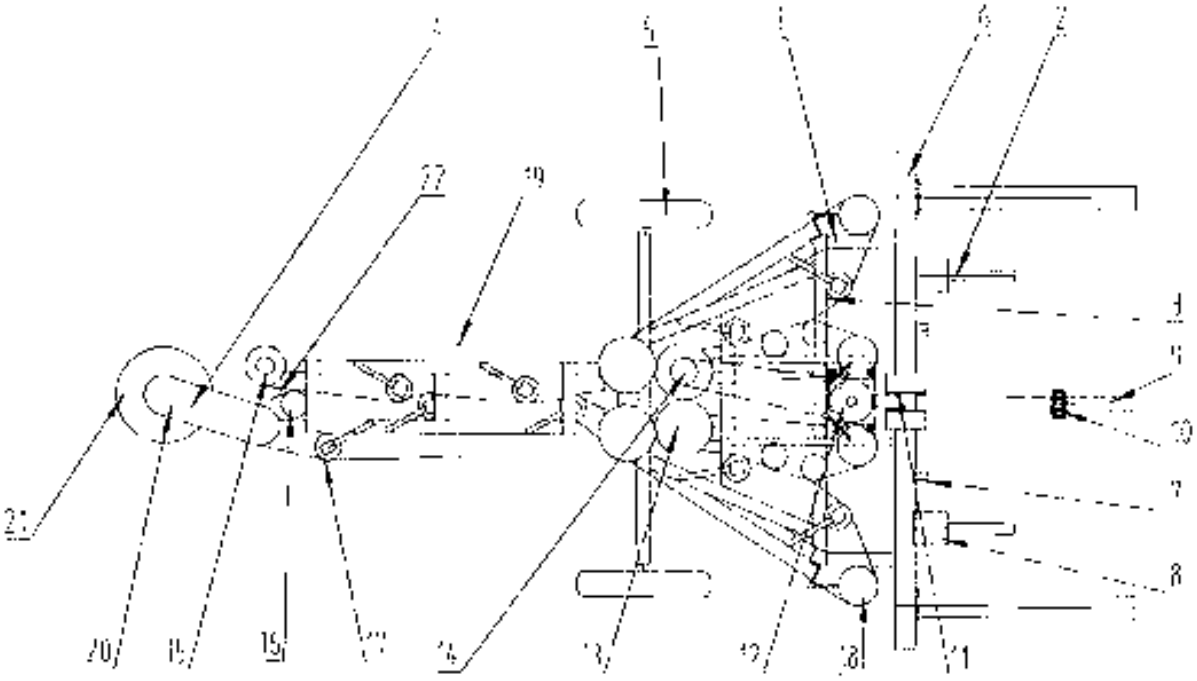
Family 68/667 - FAMPAT - ©Questel

Title

(CN203136530U)

Peanut harvester

Images



Publication data including kind & date

CN203136530 U 2013-08-21 CN203136530U

Abstract

(CN203136530U)

The utility model provides a peanut harvester in the field of agricultural harvest machinery.The peanut harvester comprises a main machine frame, an excavation mechanism, a seedling-feeding mechanism and a seedling-arranging mechanism, wherein a front part and a rear part of the main machine frame are movably connected, a lead screw and a connection nut are vertically arranged on a traction bar, the two parts, the lead screw and the connection nut form an adjustment lever, a drive plate regulator is arranged below a seedling-arranging angle tape of the seedling-arranging mechanism, the drive plate regulator is composed of a limiting pore plate and a telescopic rod which is fixed on the main machine frame, and a penetrating pin is arranged on an end portion of the telescopic rod.Due to the adoption of the structure, the height of a seedling-feeding port of a seedling supporting device and the seedling-shifting position of a seedling-shifting plate can be effectively adjusted through the adjustment lever and the drive plate regulator, so that the problems in the prior art that the peanut harvesting rate is low, the soil content is large, the seedling is arranged unreasonably, and a lot of workers are needed are thoroughly resolved.The peanut harvester has the advantages of being compact and reasonable in structure, convenient and flexible to use, and stable in work performance, improving work efficiency, being suitable for being popularized in the industry and the like.

Inventors

YANG XIN

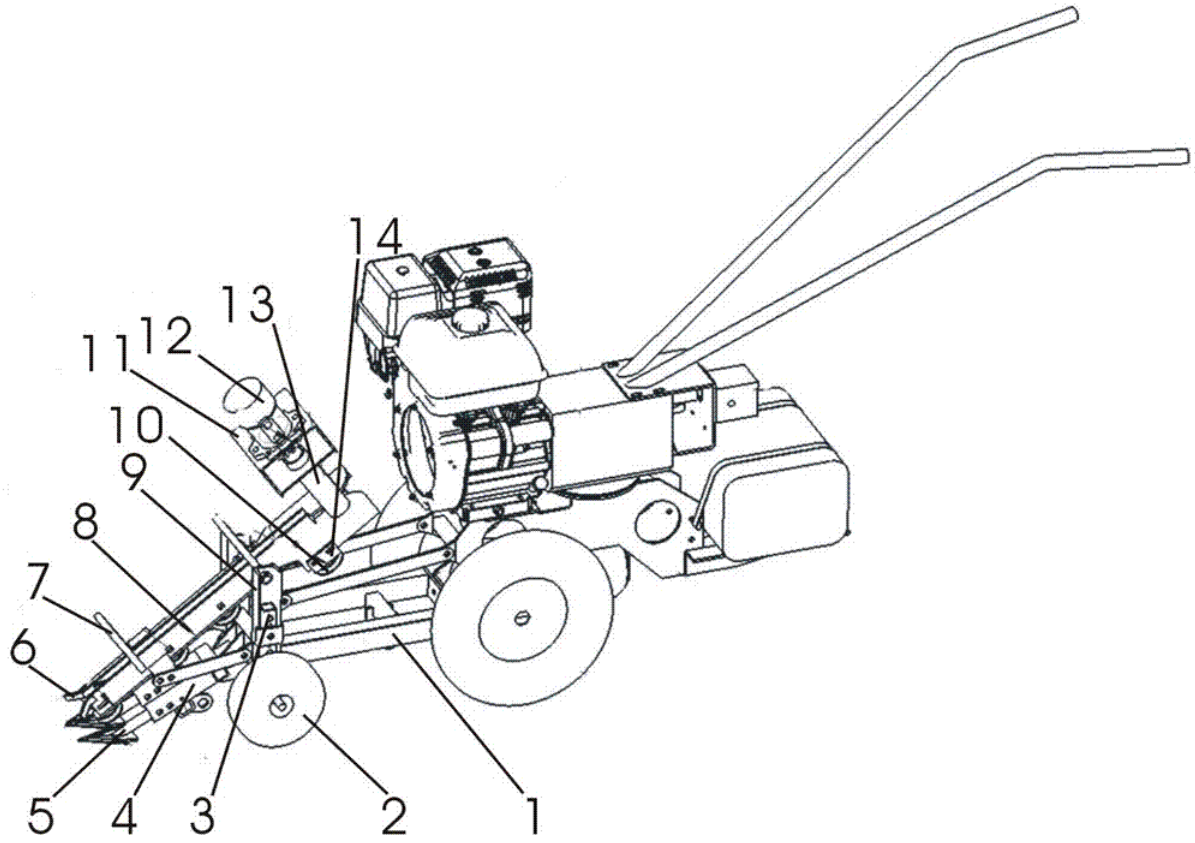
Family 69/667 - FAMPAT - ©Questel

Title

(CN207185206U)

Miniature garlic harvester

Images



Publication data including kind & date

CN207185206 U 2018-04-06 CN207185206U

Abstract

(CN207185206U)

Miniature garlic harvester, including agricultural machine running gear, excavate mechanism and centre gripping transport mechanism, top at agricultural machine running gear's frame front end is provided with centre gripping transport mechanism, it excavates the mechanism to be provided with in the below of centre gripping transport mechanism front end, the excavation mechanism that says locates centre gripping conveying frame both sides including the branch, and the centre has clearance and symmetrical results shovel, the shovel arm end of the results shovel of bisymmetry extends respectivelyin the shovel arm sleeve that into has limit function, the telescopic terminal frame front end that sets up at agricultural machine running gear that rotates of shovel arm, the articulated telescoping device of adjusting shovel arm sleeve angle that is provided with between shovel arm sleeve and agricultural machine running gear's frame.Miniature garlic harvester, can use on the arable land of multiple planting patterns, solve the narrow and small actual conditions of harvest area, combine actual conditions simultaneously, to the buried depth who excavates the mechanism to and excavate the inclination and in time adjust.

Inventors

XIN LI

XIN LEI

ZHOU QIANG

Continued super

Latest standardized assignees - inventors removed

SHANDONG MARIA MACHINERY

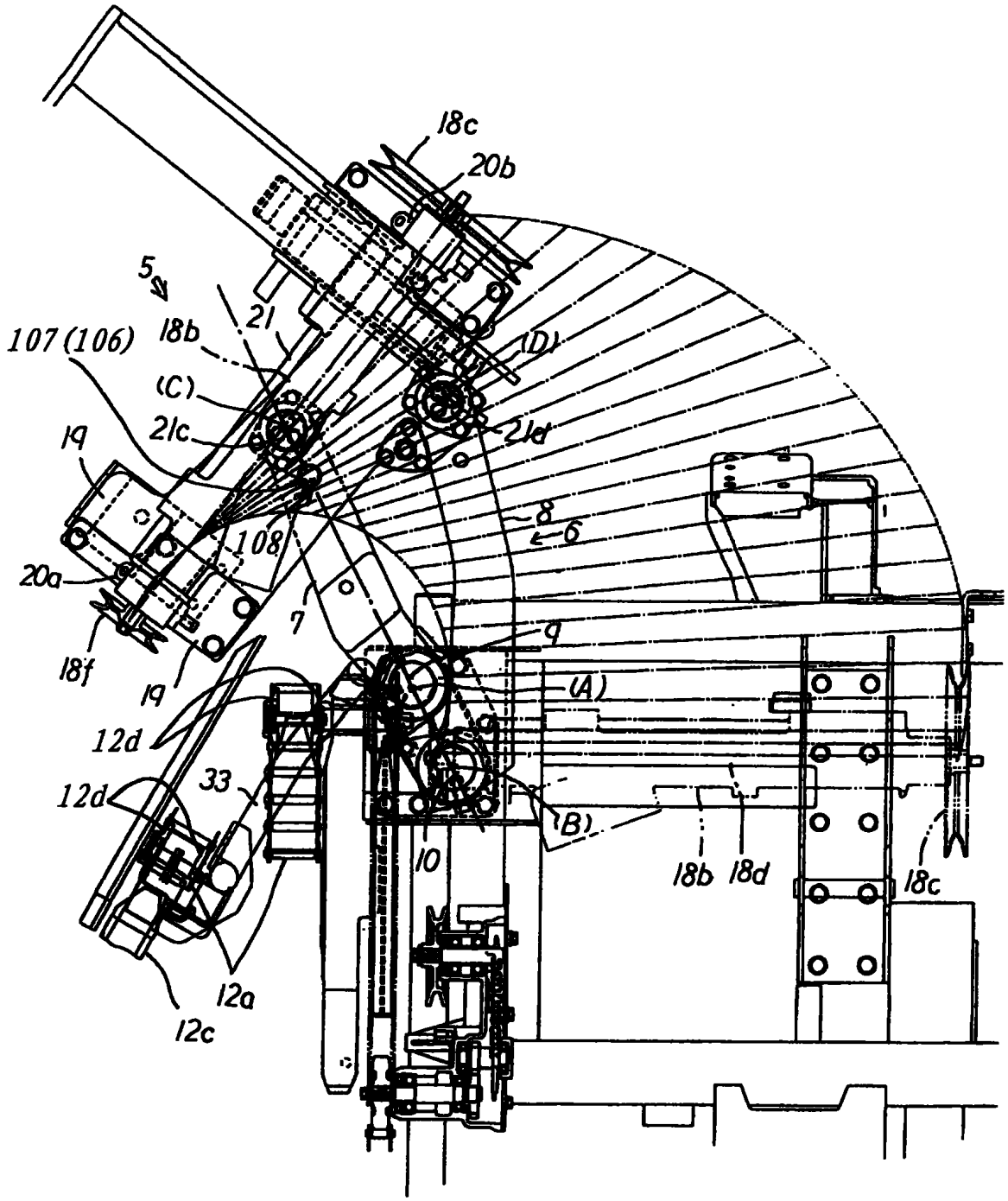
Family 70/667 - FAMPAT - ©Questel

Title

(CN1826851)

Combine harvester

Images



Publication data including kind & date

CN1826851 A 2006-09-06 CN1826851

Abstract

(CN1826851)

A combine-harvester, which is convenient for maintenance of the side of harvesting part and the side of running chassis hided by harvesting part.The composition of the combine harvester is characterized in that the harvesting component can be on-off installed in the front of running chassis on upper of the running means from outside.

Inventors

FUJITA, YASUSHI

FUJITA YASUSHI,KAMIJI YOSHITAKA,MIYAKE TATSUYA,OCHI SHOJI,ISHIKO MICHIO,OKADA TOSHIHIKO,TAKAHASHI HACHIRO,OSAKI MASAMI,SATOMICHI HISAYUKI

MIYAKE TATSUYA

Yuezhi Chang times

ISHIKAWA MICHIO

Okada Yoshihiko
OSAKI, MASAMI
GAWANO KENJI,OKASAKI HIDESASA,RIMICHI KUKO

Latest standardized assignees - inventors removed

ISEKI

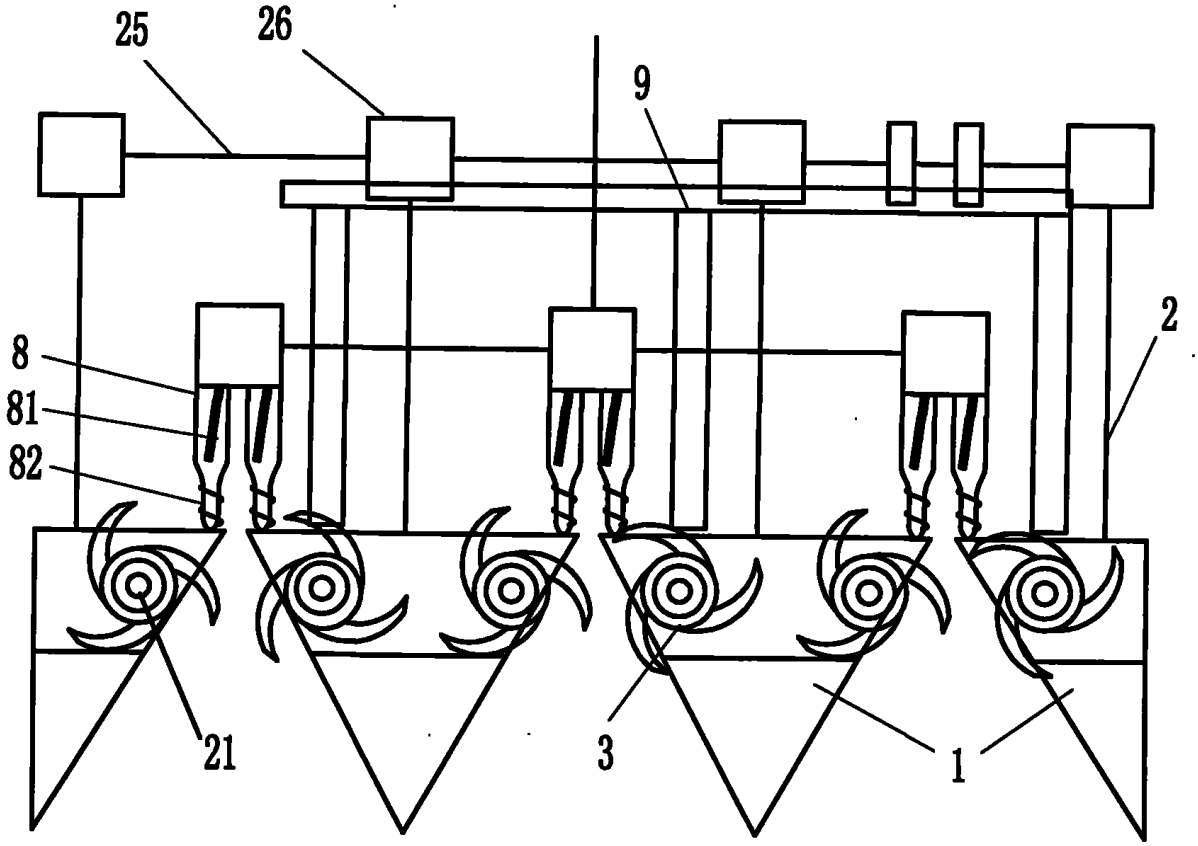
Family 71/667 - FAMPAT - ©Questel

Title

(CN201585264U)

Header of corn harvester

Images



Publication data including kind & date

CN201585264 U 2010-09-22 CN201585264U

Abstract

(CN201585264U)

The utility model discloses a header of a corn harvester, comprising a distributing and combining plate, a stalk drawing mechanism, a fringe picking pair roller, a pulverizing mechanism and a transmission mechanism, the transmission mechanism comprises a cross axle for the power transmission and a angle gearbox for the power turning, the stalk drawing mechanism comprises a distributing and combining plate, a support plate, a star wheel, a pressing plate, a spring and a nut, the fringe picking pair roller are staggered, a fringe conveyor belt is located at one side of a lower roller, a front contact of the fringe picking pair roller is also provided with a spiral rib.The header has simple structure and convenient assembling, is not easy to be damaged, can greatly prolong the life of the corn harvester, and improve the operating efficiency.

Inventors

ZHAO ERMIN
ZHAO YONG
ZHAO YIFEI

Family 72/667 - FAMPAT - ©Questel

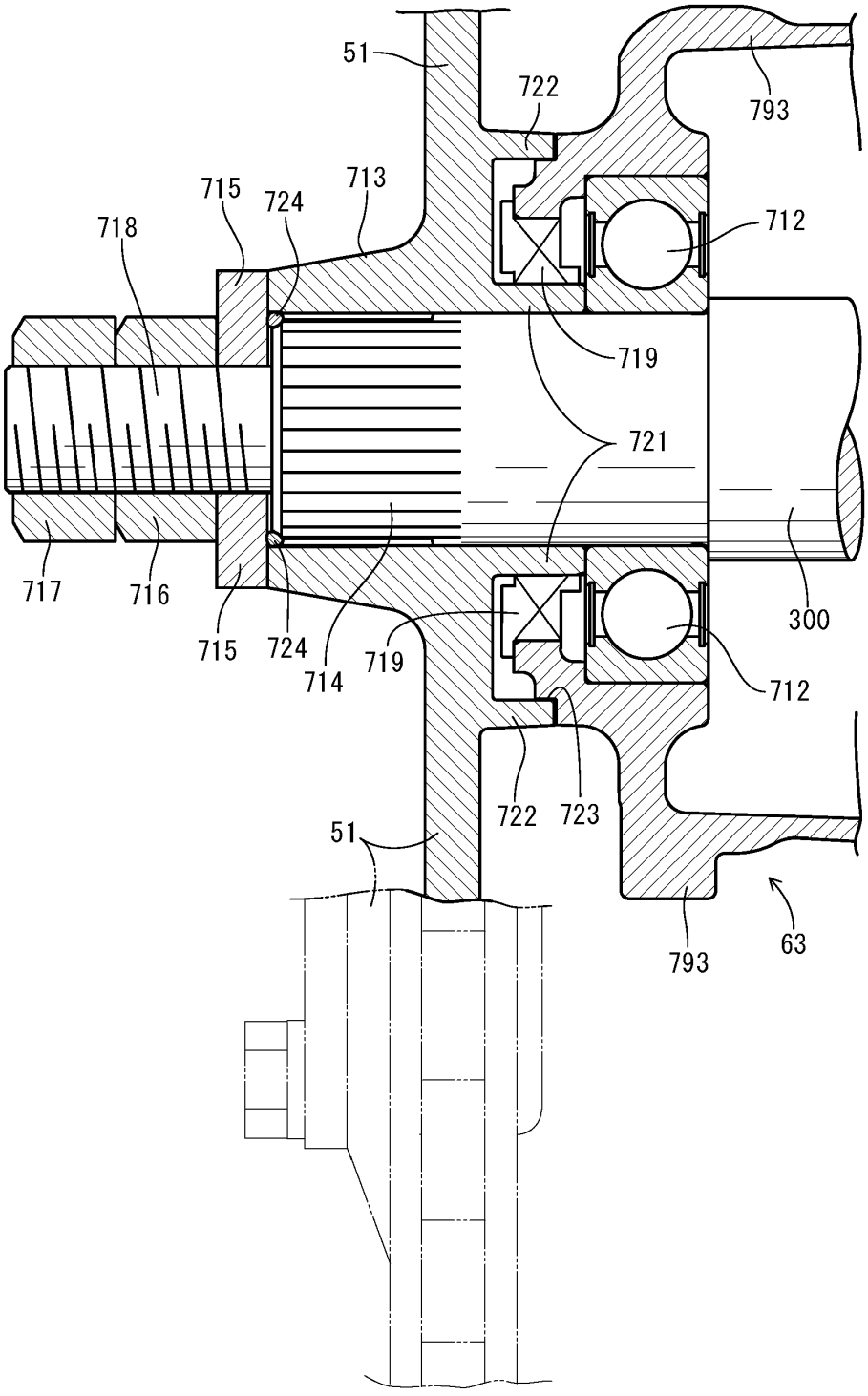
Title

(WO2012140973)

Combine

Images

［図41］



Publication data including kind & date

WO2012140973	A1	2012-10-18	WO2012140973
JP2012223094	A	2012-11-15	JP2012223094

JP2012231707	A	2012-11-29	JP2012231707
CN103477123	A	2013-12-25	CN103477123
TH132913	A	2014-04-23	TH-132913
VN43108	A	2015-08-25	VN--43108
JP5778970	B2	2015-09-16	JP5778970
JP5837760	B2	2015-12-24	JP5837760
IN9039/DELNP/2013	A	2016-06-24	IN2013DN09039
CN103477123	B	2016-10-12	CN103477123B
VN0017422	B	2017-10-25	VN--17422B

Abstract

(WO2012140973)

The purpose of the present invention is to provide a combine wherein mud or the like from agricultural fields can be prevented from infiltrating a spline (414) of a travel axle (300) and wear resistance of the spline (414) can be improved.Provided is a combine comprising a travel body (1) equipped with a reaping device (3), a threshing device (9), and an engine (7), a deceleration case (63) being installed in the travel body (1), a drive sprocket (51) for an endless belt (2) being axially supported on the travel axle (300) of the deceleration case (63), and the endless belt (2) mounted on the travel body (1) being driven by the engine (7) via the drive sprocket (51); wherein an axle oil seal (424) is provided between the drive sprocket (51) and an end of the travel axle (300) protruding from the deceleration case (63), and within the travel axle (300), the spline (414) axially supporting the drive sprocket (51) is lubricated.

Inventors

KIYOOKA KOUJI

INAOKA TAKAYA

Latest standardized assignees - inventors removed

YANMAR

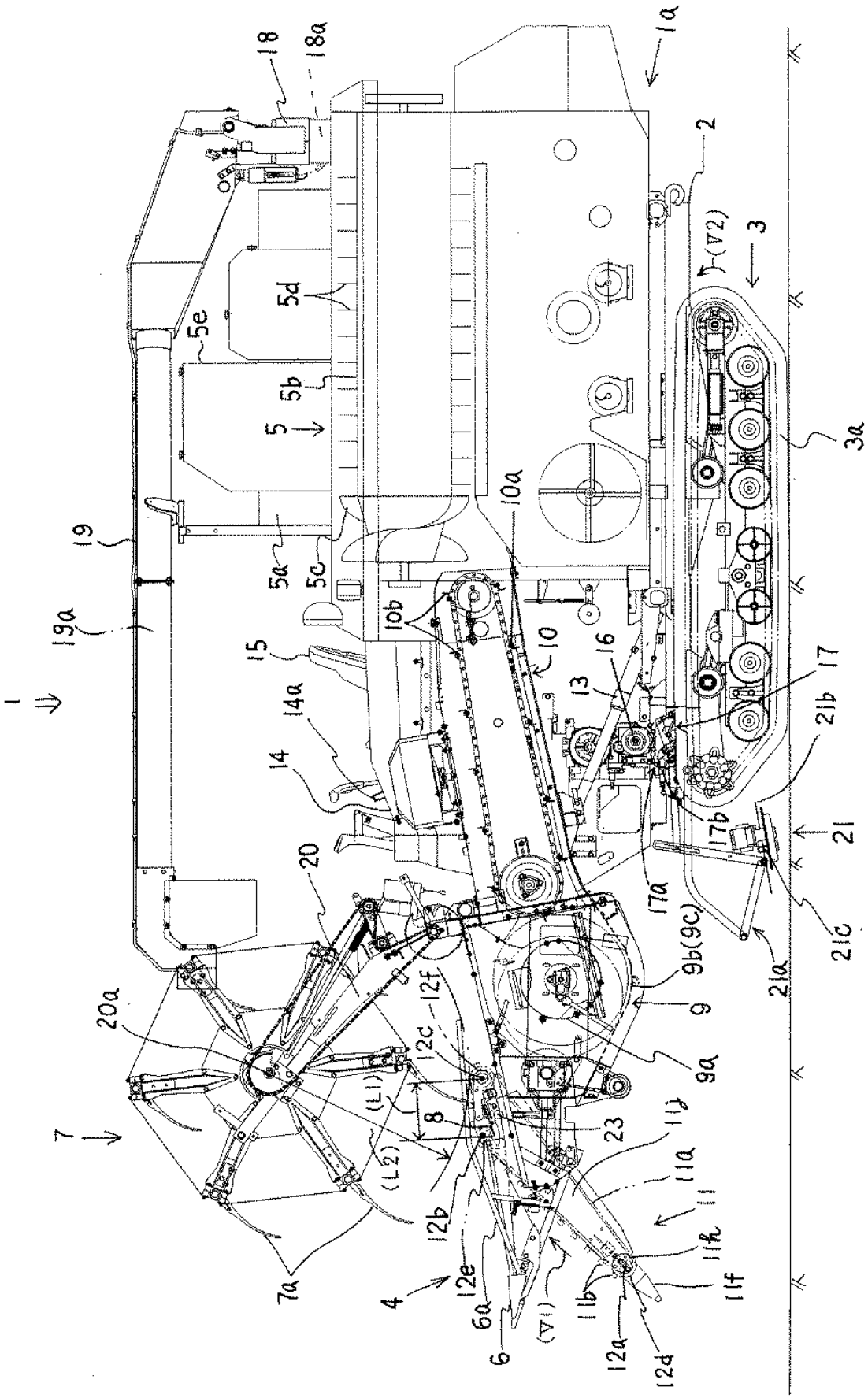
Family 73/667 - FAMPAT - ©Questel

Title

(JP2007089464)

Combine harvester

Images



Publication data including kind & date

JP2007089464	A	2007-04-12	JP2007089464
JP4945984	B2	2012-06-06	JP4945984

Abstract

(JP4945984)

PROBLEM TO BE SOLVED: To provide a combine harvester for reaping and threshing sunflower or the like as a general-

purpose combine harvester based on such a construction that multiple flat belt-type belt conveyor apparatuses are installed at predetermined intervals transversely at the center of the machine body in a span ranging from under the divider of a reaper on the combine harvester functioning to reap and thresh grain culms to the upper part of the front side of a raking-in and conveying roller.

SOLUTION: The combine harvester has the following construction: The multiple conveyor apparatuses 11 each set up with a flat belt 11a mounted with raking-in lugs 11b at predetermined intervals are installed at predetermined intervals transversely at the center of the machine body 1a in a span ranging from under the divider 6 of the reaper 4 on the combine harvester functioning to reap and thresh grain culms to the upper part of the front side of the raking-in and conveying roller 9.With the above construction, this combine harvester, as a general-purpose one, functions to rake-in, convey and thresh sunflower.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

OHARA KAZUSHI

Kiyomasa Kikuzawa

Takeshi Mizumoto

Latest standardized assignees - inventors removed

ISEKI

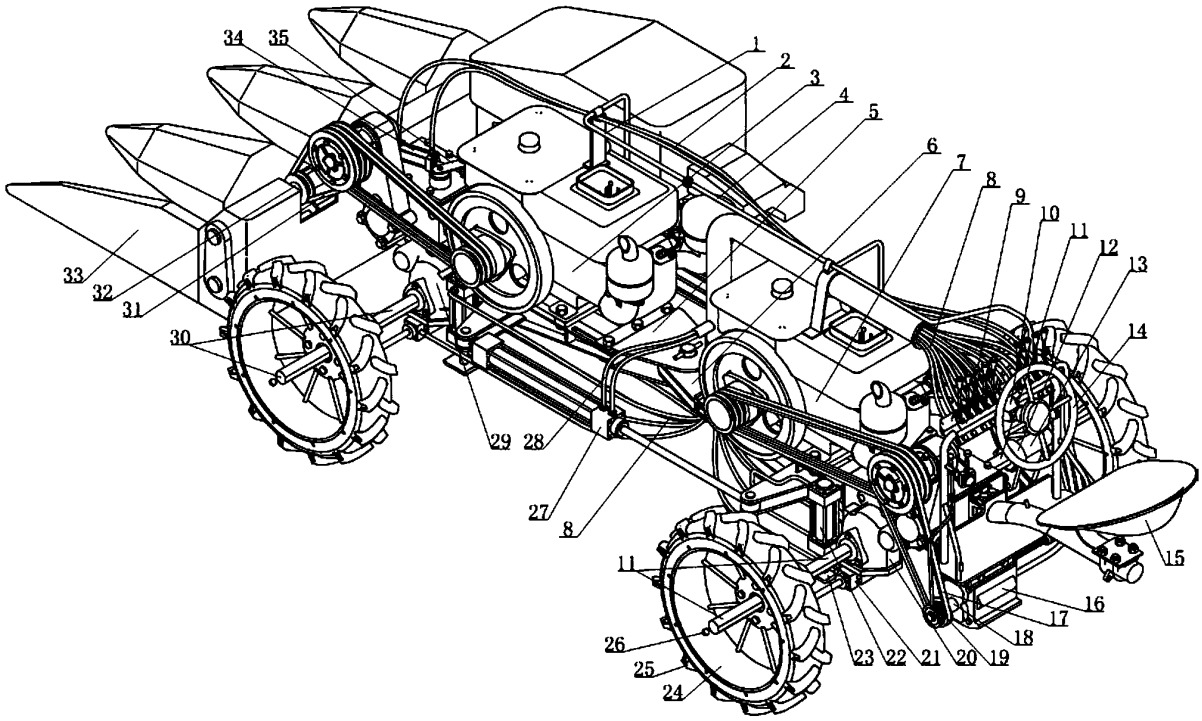
Family 74/667 - FAMPAT - ©Questel

Title

(CN204443129U)

Corn harvester for sloping field

Images



Publication data including kind & date

CN204443129 U 2015-07-08 CN204443129U

Abstract

(CN204443129U)

The utility model relates to a corn harvester for a sloping field.The rear end of a first rack is hinged to the front end of a second rack.A corn harvesting device is installed at the front end of the first rack.A first power device and a front wheel axle are installed on the first rack.A hydraulic pump, a multi-way hydraulic control valve, a full-hydraulic redirector and a seat are fixedly installed at the rear end of the second rack.A second power unit and a rear wheel axle are installed on the second

rack.The two ends of the front wheel axle and the two ends of the rear wheel axle are sleeved with wheel axle sleeves respectively, wherein the wheel axle sleeves are movably connected in the axial direction and are in key connection in the radial direction.The ends, corresponding to the racks, of all the wheel axle sleeves are sleeved with bearings.The other ends of all the wheel axle sleeves are each fixedly connected with a travelling wheel.Wheel lifting hydraulic cylinders and wheel displacement hydraulic cylinders are arranged between all the travelling wheels and the racks, wherein the ends of telescopic rods of the wheel displacement hydraulic cylinders are fixedly connected with outer race faces of the bearings on the corresponding wheel axle sleeves.The wheel lifting hydraulic cylinders are operated to eject the racks, the wheel displacement hydraulic cylinders pull wheels which are fixedly connected with the wheel axle sleeves, so that wheel distances change, and the corn harvester can mechanically harvest corn planted in the sloping field.

Inventors

LIANG JUN

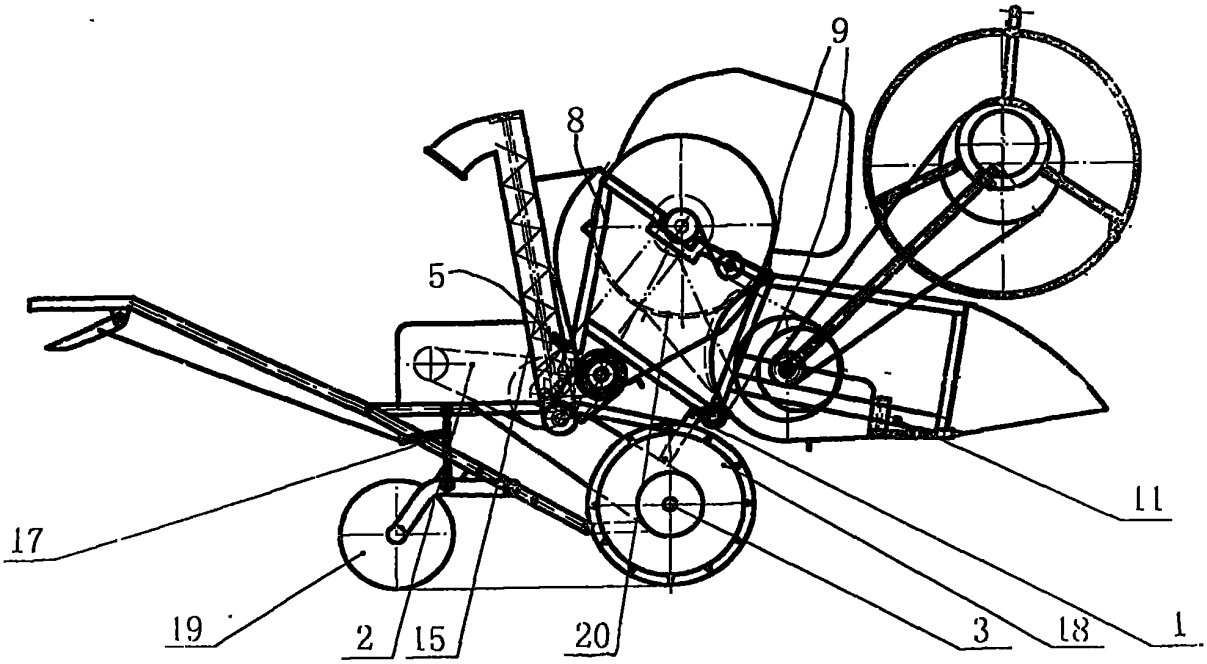
Family 75/667 - FAMPAT - ©Questel

Title

(CN101743802)

Miniature rapid-assembly paddy and drought dual-purpose rice and wheat harvester

Images



Publication data including kind & date

CN101743802	A	2010-06-23	CN101743802
CN101743802	B	2011-12-07	CN101743802B

Abstract

(CN101743802B)

The invention provides a miniature rapid-assembly paddy and drought dual-purpose rice and wheat harvester, which comprises a stand, an engine arranged on the stand, a transmission case, a threshing cylinder with a threshing roller driven by the engine through a driving mechanism, a gain-collecting auger, an output auger, a gathering auger, a cutting table with a cutting knife assembly, a driving wheel arranged on an output shaft of the transmission case, a steering wheel positioned at the front end of the stand, a railing and a cutting table lifting device.The miniature rapid-assembly paddy and drought dual-purpose rice and wheat harvester is characterized in that first rapid assembly and disassembly mechanisms (5) are arranged at corresponding positions of the stand and the threshing cylinder; second rapid assembly and disassembly mechanisms (9) are arranged at corresponding positions of the threshing cylinder and the cutting table; and the driving wheel is a paddy filed wheel or a drought land traveling wheel which is rapidly assembled with the output shaft of the transmission case.The invention has light weight, can realize rapid disassembly, assembly and carry of large components, has strong university and convenient operation, can operate in drought land and paddy fields in winter and is particularly

applicable to mountain areas and hills.

Inventors

HUANG KAIYI
HUANG JIANMING
HUANG WANHOU
GAO YOUREN
WANG JIN

Latest standardized assignees - inventors removed

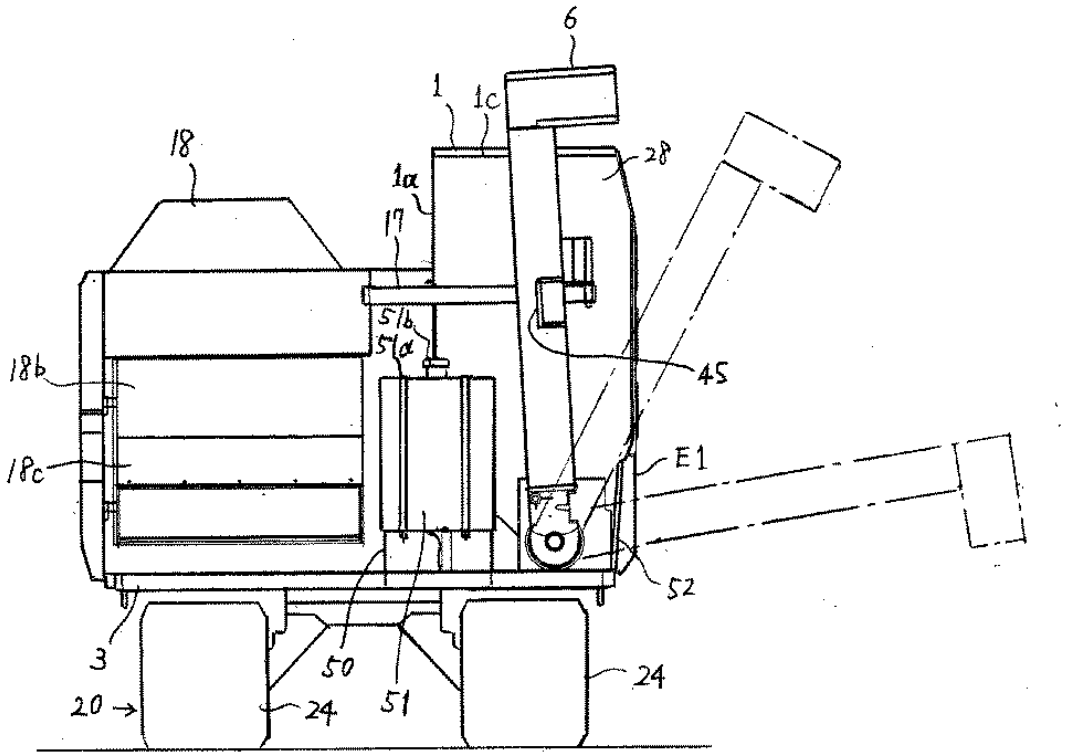
CHENGDU TIANQI METALLIC PRODUCTS

Family 76/667 - FAMPAT - ©Questel

Title

(JP2013240291)
Combine harvester

Images



Publication data including kind & date

CN202799663	U	2013-03-20	CN202799663U
CN202799659	U	2013-03-20	CN202799659U
TW201313116	A	2013-04-01	TW201313116
KR20130035180	A	2013-04-08	KR20130035180
CN103026860	A	2013-04-10	CN103026860
CN103026853	A	2013-04-10	CN103026853
CN202889954	U	2013-04-24	CN202889954U

CN202931791	U	2013-05-15	CN202931791U
JP2013240291	A	2013-12-05	JP2013240291
IN3035/DEL/2012	A	2014-08-01	IN2012DE03035
IN3034/DEL/2012	A	2014-08-01	IN2012DE03034
KR101428554	B1	2014-08-08	KR101428554
VN39416	A	2014-10-27	VN--39416
VN39417	A	2014-10-27	VN--39417
TWI484902	B	2015-05-21	TWI484902
CN103026860	B	2015-09-23	CN103026860B
CN103026853	B	2015-09-23	CN103026853B

Abstract

(JP2013240291)

PROBLEM TO BE SOLVED: To improve efficiency of grain-unloading operation while facilitating maintenance by allowing a grain-storing apparatus to be turned to the outside direction of a machine body.SOLUTION: In the combine harvester which is built by installing a threshing apparatus (18) in one side of right and left sides of a body frame (3) including a traveling apparatus (20), a grain storage apparatus (1) equipped with a conveying cylinder (6) for grain discharge in the other side of the right and left sides of the body frame (3), and a reaping device (21) in the front side of the body frame (3).The grain storage apparatus (1) is pivotally supported so as to be turnable around vertical shafts (5, 19), and the conveying cylinder (6) is pivotally supported so as to be freely raised, laid and turned around the shaft center in the front and rear direction, there are further provided a holding apparatus (1g) for holding the grain storage apparatus (1) at a harvesting operation position on the body frame (3), and a locking device (9) for fixing the conveying cylinder (6) in an erected posture at a housing position on the body frame (3).

Inventors

Kiyoshi Izumi
Michio Ishikawa
OSAKI MASAMI
AKIYAMA TAKAFUMI
SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI

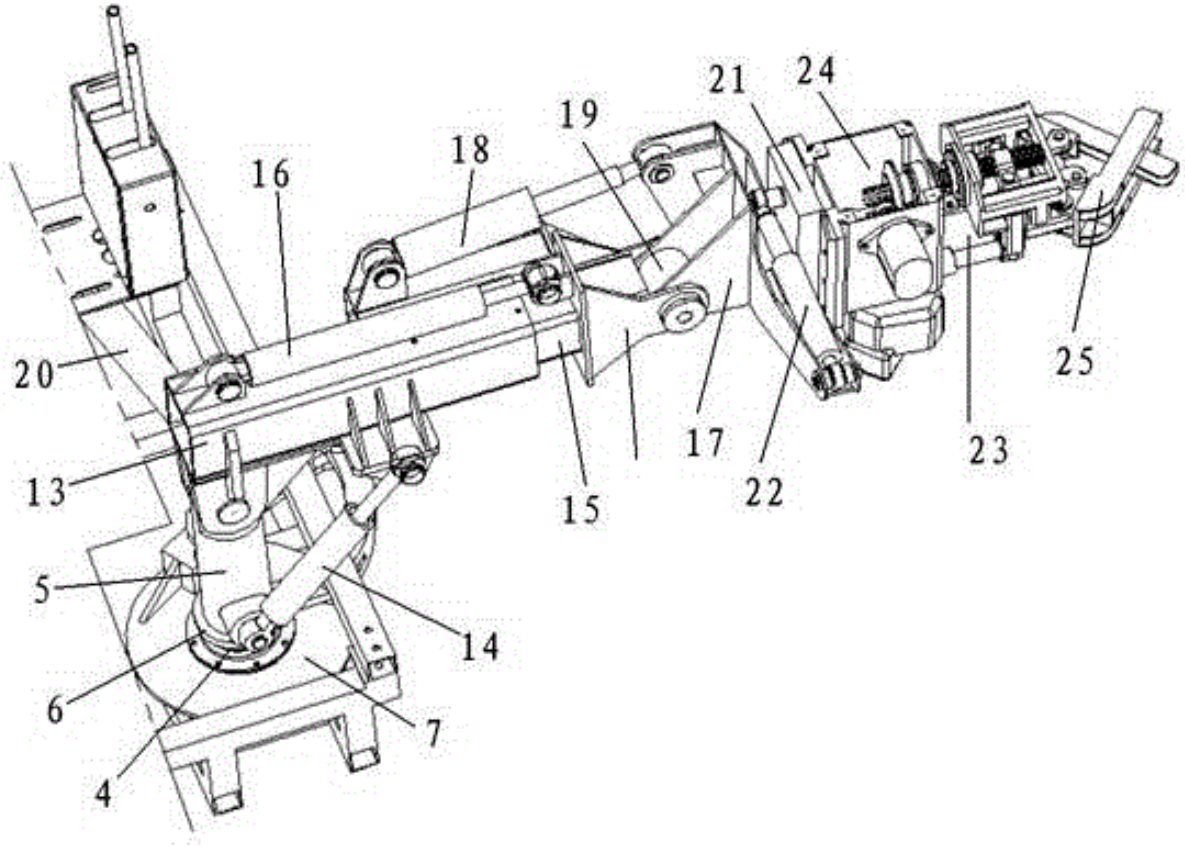
Family 77/667 - FAMPAT - ©Questel

Title

(CN104221606)

Self-propelled vibrating forest fruit harvester and harvesting method for same

Images



Publication data including kind & date

CN104221606	A	2014-12-24	CN104221606
CN104221606	B	2016-05-25	CN104221606B

Abstract

(CN104221606B)

The invention discloses a self-propelled vibrating forest fruit harvester and a harvesting method.The harvester comprises a walking chassis, a picking mechanical arm and a vibrating picking head, wherein the picking mechanical arm is arranged on the walking chassis; the vibrating picking head is arranged on the head of the picking mechanical arm; the picking mechanical arm and the vibrating picking head form an execution mechanism.The harvester is characterized in that the picking mechanical arm is of a single-arm telescopic structure, and is arranged in a corner at the front end of the walking chassis; a rotating connecting rod mechanism is arranged between an upright post of the picking mechanical arm and the walking chassis; a main column can swing by a certain angle around the upright post under the action of the rotating connecting rod mechanism.According to the harvester and the harvesting method, the rotation of the picking mechanical arm on the chassis is matched with the accurate positioning of upper and lower swinging blocks and left and right swinging blocks, so that the positioning of the harvester in various directions can be greatly improved, the harvester can be simply and reliably operated, and various fruit picking requirements can be completely met.

Inventors

LI LIJUN
GAO ZICHENG
MIN SHUHUI
YANG DAOYU
WANG PENGHUI
YAN XUAN

Latest standardized assignees - inventors removed

CENTRAL SOUTH UNIVERSITY

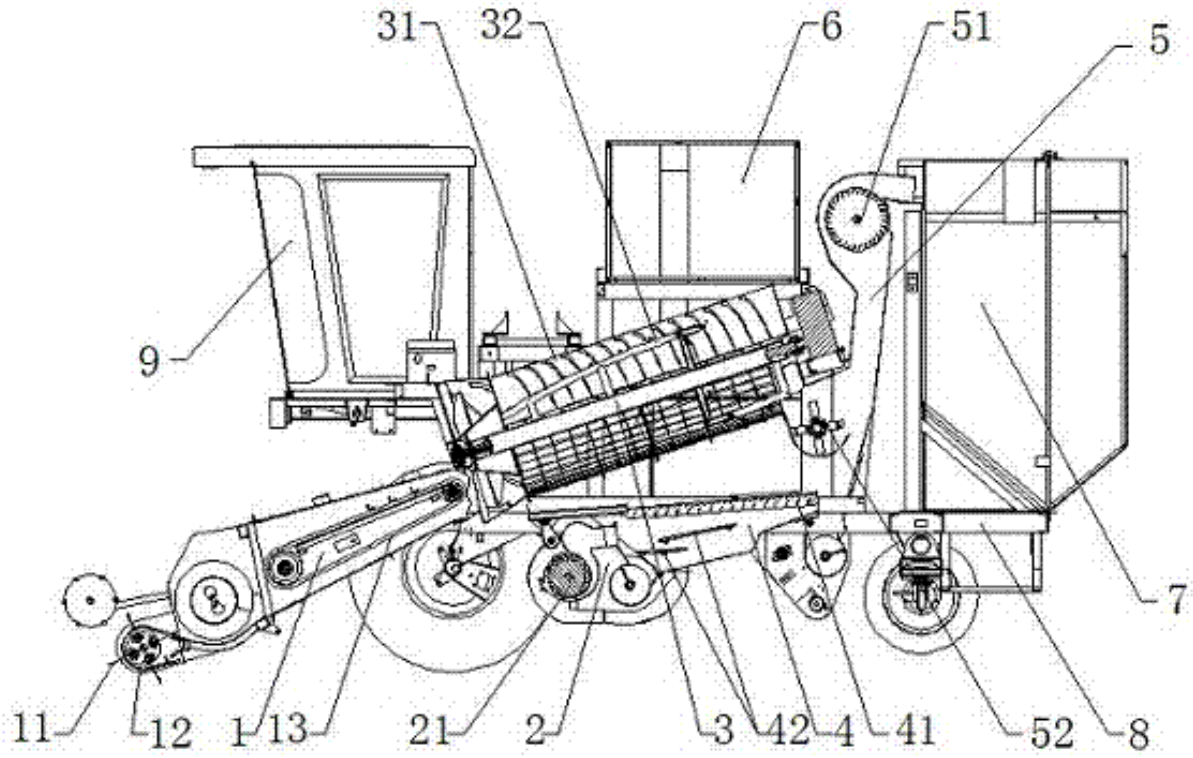
Family 78/667 - FAMPAT - ©Questel

Title

(CN107278483)

Peanut harvester

Images



Publication data including kind & date

CN107278483	A	2017-10-24	CN107278483

Abstract

(CN107278483)

The invention relates to a peanut harvester which comprises a frame, a peanut vine feeding and conveying device, a peanut picking device, a weed discharging device, a peanut cleaning device, a vibrating screen peanut screening device, a fan peanut feeding device, a peanut storage cabin and a sundries lifting device.A telescopic spring-finger pickup is arranged at the front end of the peanut vine feeding and conveying device, the peanut picking device comprises a fruit removal roller and a fruit picking screw conveyor, and the fruit picking screw conveyor is mounted in the fruit removal roller.According to the peanut harvester, peanut vines can be automatically fed into the feeding and conveying device, peanuts and the peanut vines can be automatically separated and stored, picking up efficiency is improved, and labor cost is reduced.

Inventors

WANG JINGCHAO

LI YAJUAN

SU XIAOQING

Latest standardized assignees - inventors removed

PUYANG NONGFA MACHINERY MANUFACTURING

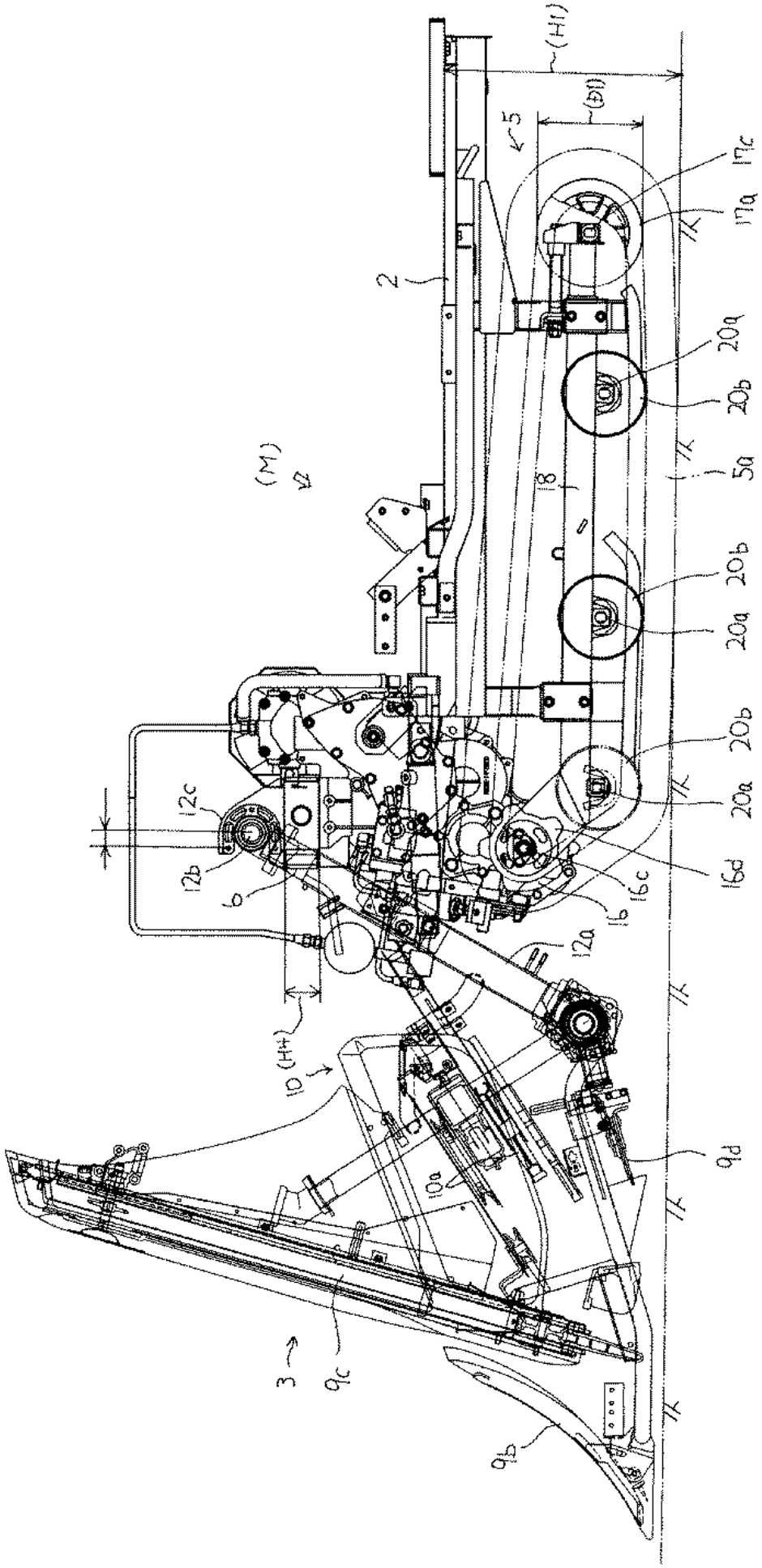
Family 79/667 - FAMPAT - ©Questel

Title

(JP2005229936)

Traveling frame of combine harvester

Images


(H1)
(D1)
5
17c
17a
2
20a
20b
(M)
12
18
5a
20b
20a
20b
20a
12c
12b
6
16d
16c
16
12a
10 (H+)
9d
10a
3
9c
9b

Publication data including kind & date

JP2005229936	A	2005-09-02	JP2005229936
JP4525104	B2	2010-08-18	JP4525104

Abstract

(JP4525104)
PROBLEM TO BE SOLVED: To commonly use a reaping machine attached to a standard machine in which ground height of traveling undercarriage is a standard height and a reaping machine attached to a high ground level machine having high ground height.
SOLUTION: A reaping machine 3 is attached through a spacer 6 attached to the reaping machine 3 to a traveling frame of a combine harvester when a standard machine (M) in which the ground height of a traveling undercarriage 2 is a standard height (H1) is used and a reaping machine 3 is attached to the traveling frame of the combine harvester after removing the spacer 6 when high ground level machine (L) having high ground height (H2) is used.The difference (▵H3) of ground heights from the ground to traveling undercarriages 2 of the standard machine (M) and the high ground level machine (L) is kept to be nearly the same as the height (H4) of the spacer 6.The difference (▵D3) between the outside diameter (D1) of an idle roller 17a of the standard machine (M) installing a traveling crawler 5a and the outside diameter of an idle roller of the high ground level machine (L) is kept to be nearly the same as the height (H4) of the spacer 6.
COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

SATOJI HISAYUKI
NAGAI TOSHIRO

Latest standardized assignees - inventors removed

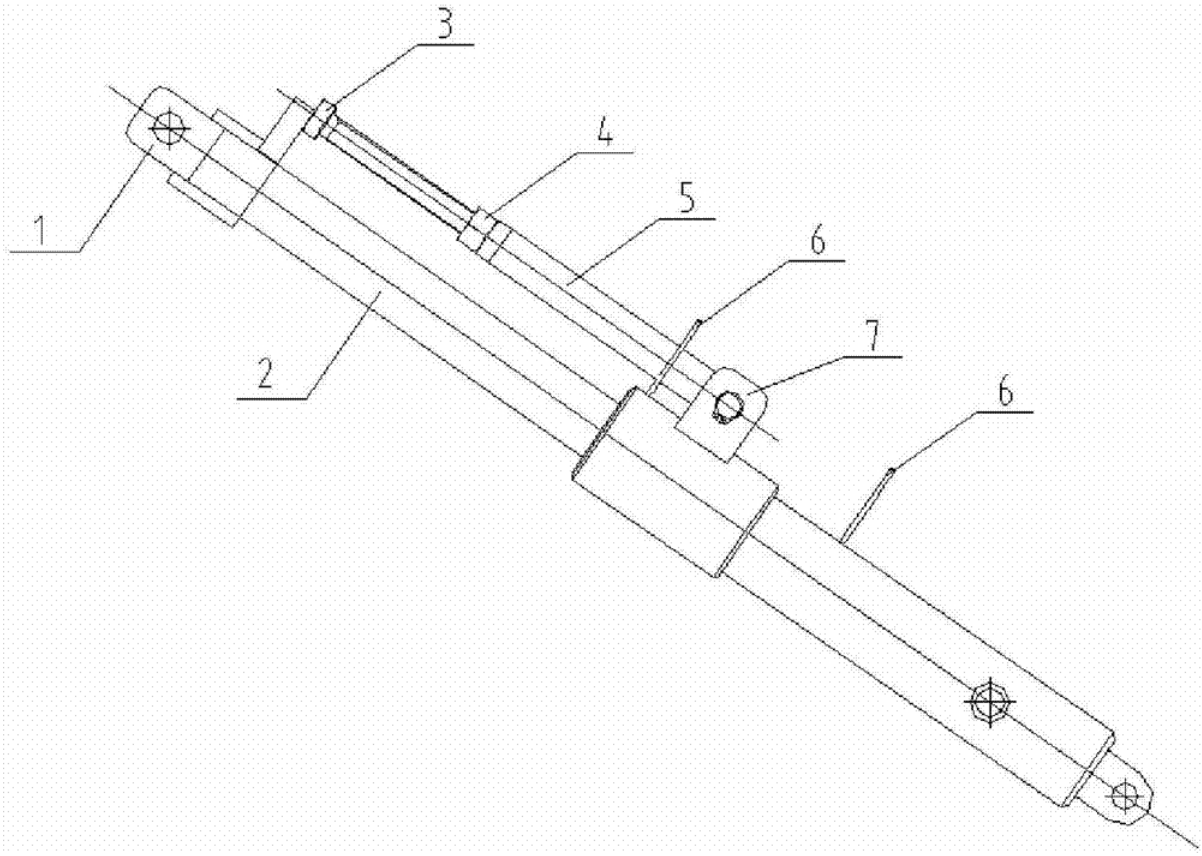
ISEKI AGRICULTURAL MACHINERY

Family 80/667 - FAMPAT - ©Questel

Title

(CN206851404U)
Spacing safety device of harvester cylinder stroke

Images



Publication data including kind & date

CN206851404 U 2018-01-09 CN206851404U

Abstract

(CN206851404U)

The utility model discloses a spacing safety device of harvester cylinder stroke, including spacing seat, flexible hydro -cylinder, adjusting bolt, bolt fastening seat and fixing base, spacing seat set up the top portion at flexible hydro -cylinder, adjusting bolt fix on the bolt fastening seat, the bolt fastening seat is connected on the fixing base of flexible hydro -cylinder.Flexible hydro -cylinder adjustment adjusting bolt's under whole circumstances of stretching out length then fastening adjusting nut, the orientation of adjusting bolt fixing base makes adjusting bolt and spacing seatparallel and level, and flexible hydro -cylinder is locked, can not shrink the action, has solved hydraulic system sudden failure and has made header brusque dip, leads to the fact the problem of personal safety hidden danger.The utility model discloses the stroke of hydro -cylinder of will stretching out and drawing back can carry on spacingly according to particular case, satisfies different functions, and simple structure, low cost make the personal safety obtain the assurance again.

Inventors

WANG GUODONG

GONG XUELIANG

SONG LAIHUI

Latest standardized assignees - inventors removed

ZOOMLION HEAVY MACHINERY

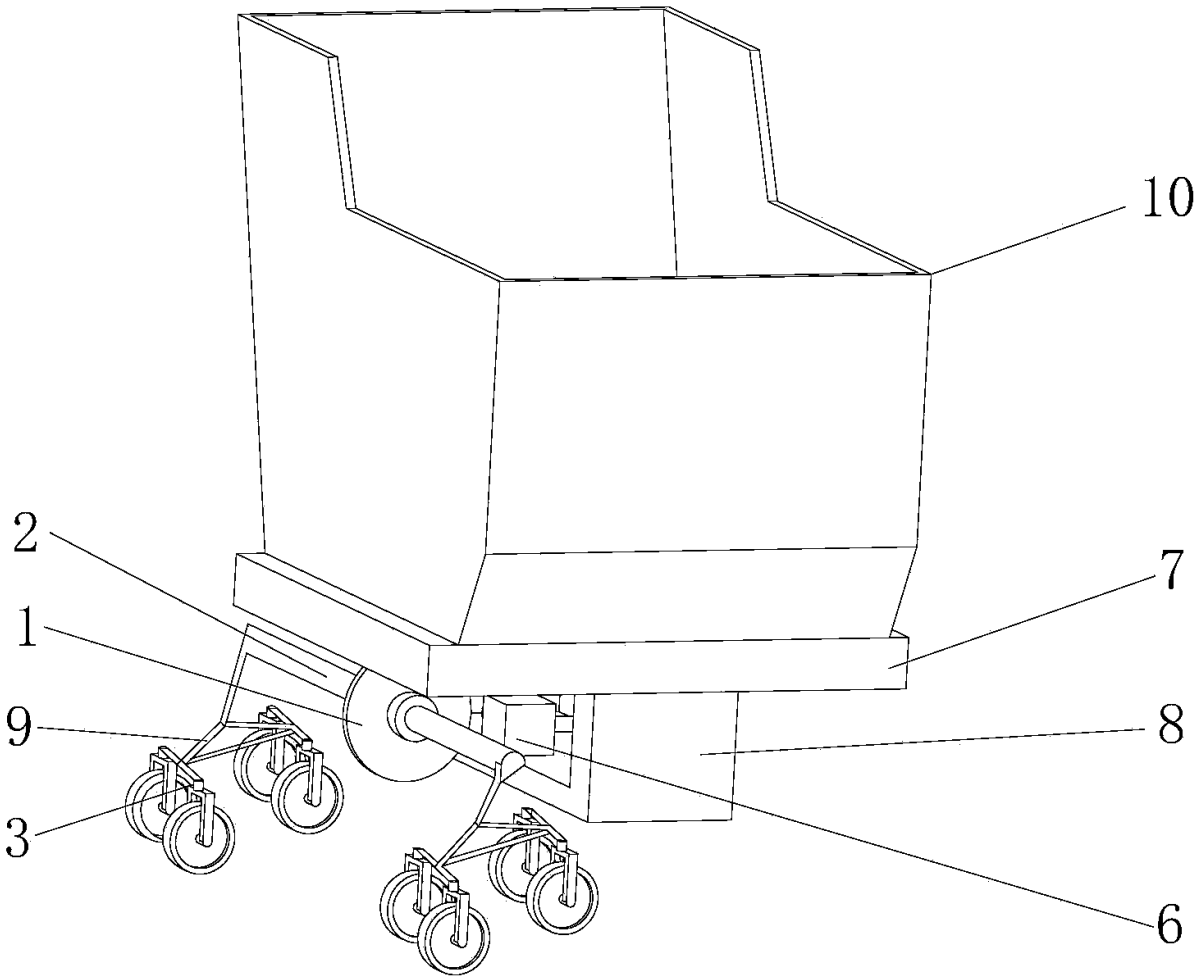
Family 81/667 - FAMPAT - ©Questel

Title

(CN203675665U)

Overturn prevention system of grain harvester

Images



Publication data including kind & date

CN203675665 U 2014-07-02 CN203675665U

Abstract

(CN203675665U)

The utility model discloses an overturn prevention system of a grain harvester.The overturn prevention system comprises an auxiliary supporting mechanism which is arranged at the lower part of a rack of the grain harvester and can move left and right to form a supporting point during working on a slope, a sensor for detecting an inclination angle signal of the grain harvester, a controller for sending a main driving control signal and an additional driving control signal according to an inclination angle signal detected by the sensor, and a driving device for driving the auxiliary supporting mechanism to move towards the inclination direction of a machine body according to the main driving control signal sent by the controller.The overturn prevention system can achieve an auxiliary supporting effect on the machine body according to the gradient of a mountain area, so that the supporting point of the grain harvester is increased, and the phenomenon that the machine body overturns due to continuous increase of the weight of a grain storehouse can be avoided; the overturn prevention system is suitable for mountain areas with different gradients, so that the grain harvesting work is facilitated; furthermore, the dangerous coefficient in a grain harvesting working process is greatly reduced, and the safety is improved.

Inventors

LI ZHENCAI

JIN HONGLIANG

Latest standardized assignees - inventors removed

LONG RANGE TECHNOLOGY PARK SHENYANG

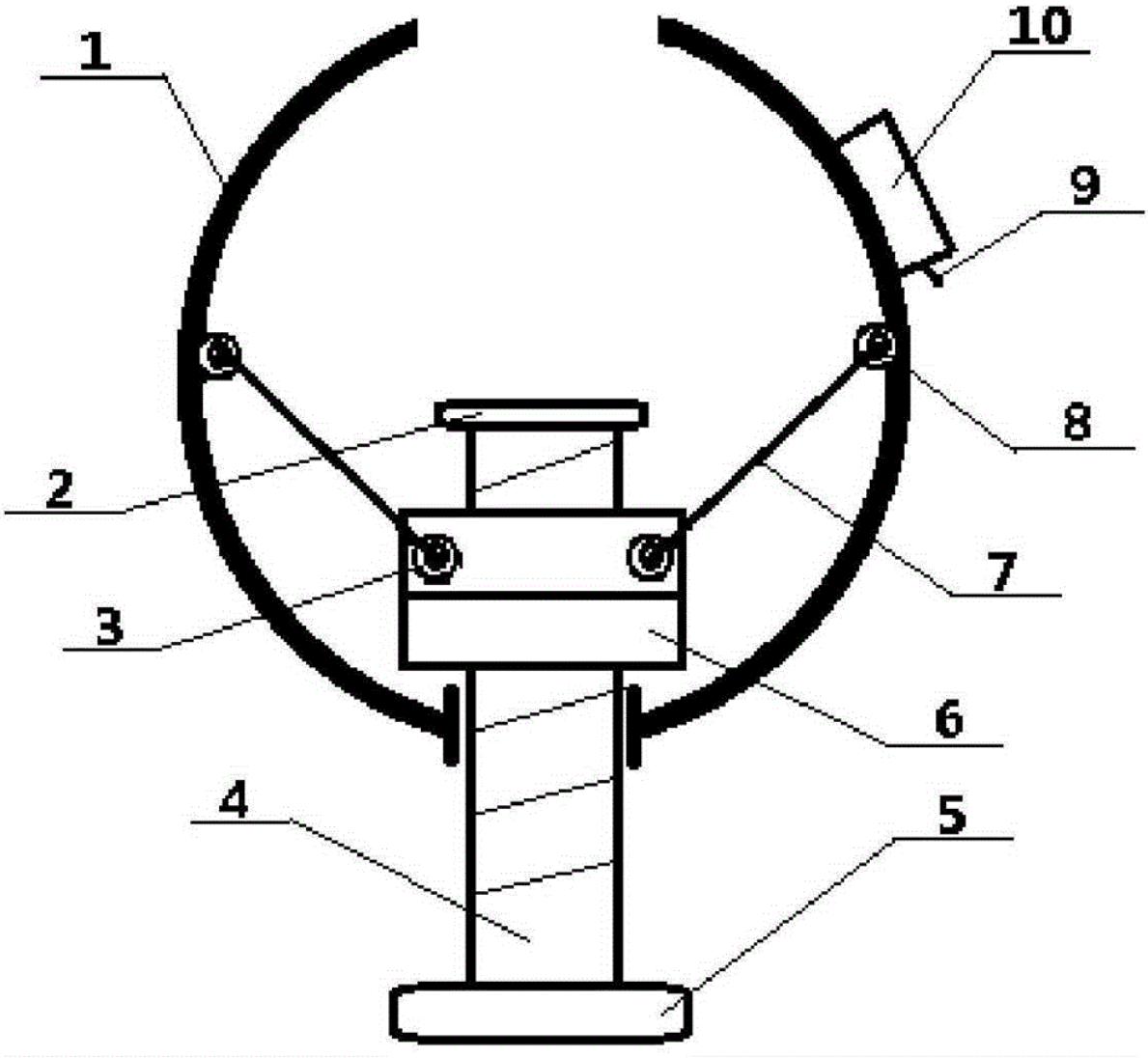
Family 82/667 - FAMPAT - ©Questel

Title

(CN103918407)

Rocking and vibrating type sweet osmanthus flower harvester and harvesting method

Images



Publication data including kind & date

CN103918407	A	2014-07-16	CN103918407
CN103918407	B	2016-05-18	CN103918407B

Abstract

(CN103918407B)

The invention provides a rocking and vibrating type sweet osmanthus flower harvester which comprises a power device, a trunk rocking and vibrating device and a sweet osmanthus flower storing device.The trunk rocking and vibrating device comprises a screw rod.The two sides of the screw rod are respectively connected with one semi-circular arc fastening plate.The portions, in the fastening plates, of the screw rod are provided with double nuts.The two sides of the double nuts are provided with first connecting pins connected with telescopic rods outwards.The other ends of the telescopic rods are supported on the inner walls of the fastening plates through second connecting pins.A vibration exciter with a toggle switch is fixed on the outer wall of each fastening plate.The sweet osmanthus flower storing device comprises storing cloth with a round hole in the center, and a setting steel wire arranged on the periphery of the storing cloth.The storing cloth is provided with a joint from the center to the edge.Magnets are distributed on the two sides of the joint.A harvesting method comprises the steps of fixing the trunk rocking and vibrating device on a trunk of a osmanthus tree, setting the vibration frequency and the vibration time of the vibration exciter, turning on the toggle switches of the vibration exciters in the working state, and finally electrifying the vibration exciters to shake sweet osmanthus flowers down.The harvester and the harvesting method can improve the working efficiency, increase the sweet osmanthus flower recovery rate and improve the quality of the harvested sweet osmanthus flowers.

Inventors

ZHANG HANGWEI
HUANG JIANFENG

DONG JIXIAN
CHEN CHANJUAN
CAO LIYUN

Latest standardized assignees - inventors removed

SHAANXI UNIVERSITY OF SCIENCE AND TECHNOLOGY

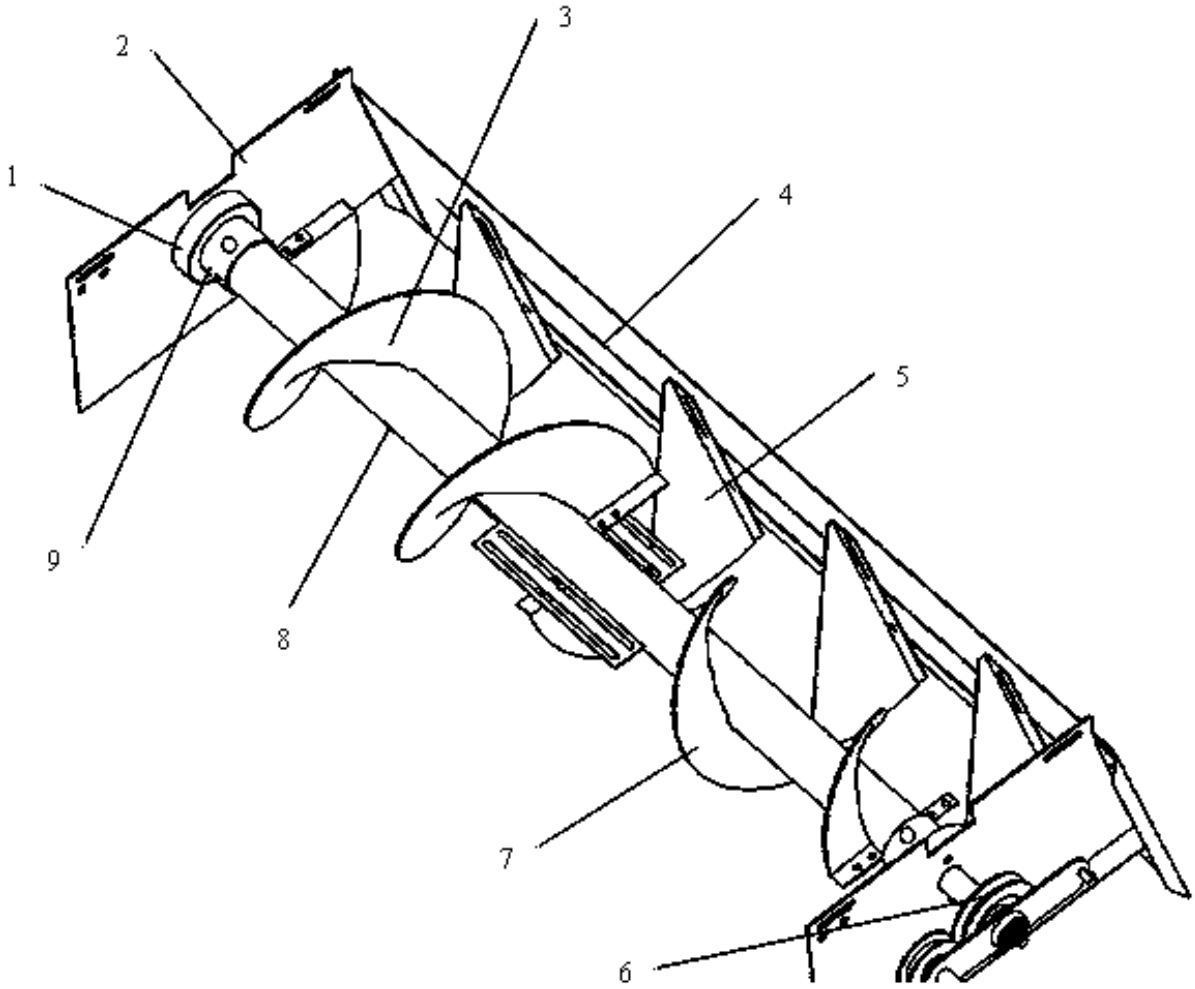
Family 83/667 - FAMPAT - ©Questel

Title

(CN102696338B)

Adjustable straw diffuser matched with semi-feed type combined harvester

Images



Publication data including kind & date

CN102696338	A	2012-10-03	CN102696338
CN102696338	B	2014-12-24	CN102696338B

Abstract

(CN102696338B)

An adjustable straw diffuser matched with a semi-feed type combined harvester comprises a two-way spiral auger, a two-way spiral auger support device, and a straw crushing and guiding device, wherein the two-way spiral auger is arranged on the two-way spiral auger support device and comprises a middle shaft (8), a left-rotation elastic helical surface (3) and a right-rotation elastic helical surface (7); the middle shaft (8) comprises a smooth shaft (17), shaft-end fixed plates (14) and inter-shaft adjusting plates (15); two through holes are formed on each of the two ends of the left-rotation elastic helical surface (3), one end of the left-rotation elastic helical surface (3) is connected with the through holes of the shaft-end fixed plate (14) through bolts, and the other end is connected with adjusting plate through grooves (16) of the inter-shaft adjusting plates (15) through the bolts; and the right-rotation elastic helical surface (7) rotates to the right.According to the invention, the length and size of the helical surface, as well as the relative position and angle of a guide plate, can be

adjusted and set through the elastic helical surface and the through grooves, and accordingly, experimental studies of optimizing parameters can be effectively completed, and the adaptability to different crops and cropping intensities is strengthened.

Inventors

LIU JIZHAN
LIU WEI
LI PINGPING
YANG SIJUN

Latest standardized assignees - inventors removed

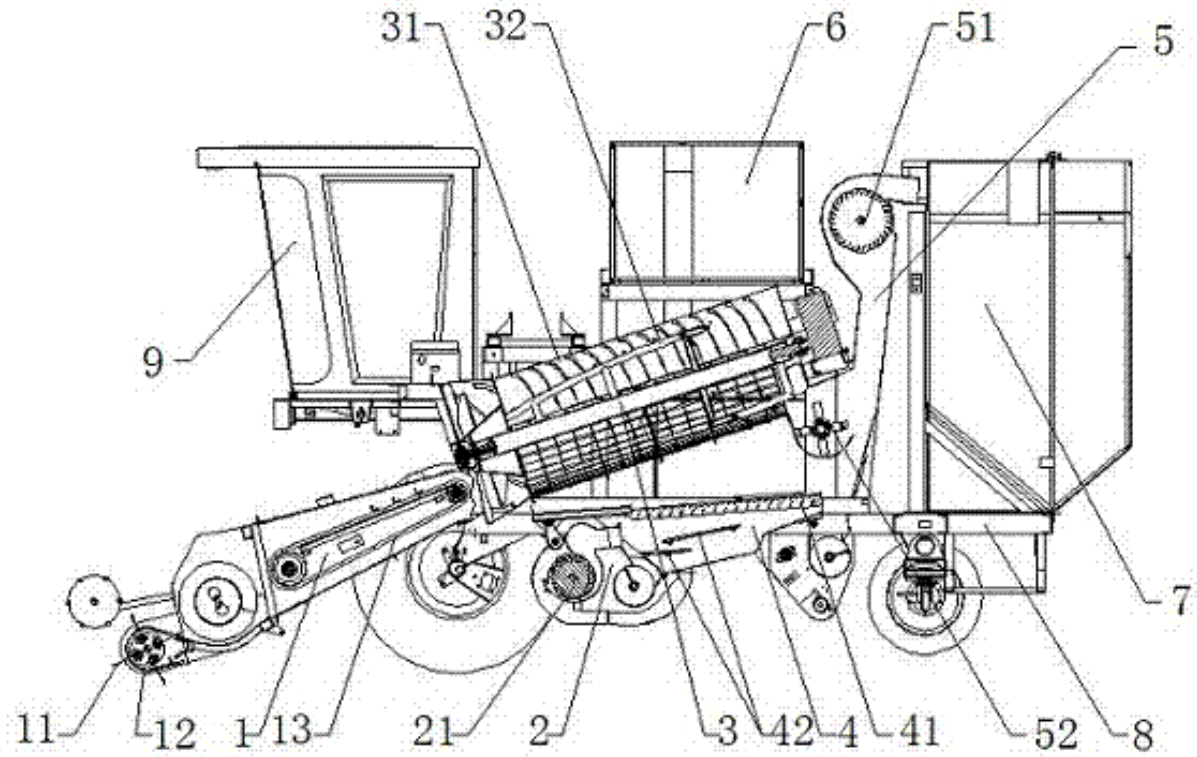
JIANGSU UNIVERSITY

Family 84/667 - FAMPAT - ©Questel

Title

(CN207070628U)
Peanut harvester

Images



Publication data including kind & date

CN207070628 U 2018-03-06 CN207070628U

Abstract

(CN207070628U)

The utility model relates to a peanut harvester, including the frame, peanut seedling feeding conveyor, peanut seedling feeding conveyor's front end is provided with telescopic bullet tooth pickup, and the fruit device is plucked to the peanut, and the peanut is plucked the fruit device and is included the threshing cylinder and pluck the fruit screw feeder, plucks the fruit screw feeder and installs in the threshing cylinder, arrange the grass device, peanut cleaning plant, shale shaker sieve fruit device, fruit device on the fan, peanut storage, miscellaneous surplus hoisting device.The utility model discloses can make the peanut seedling begin to peanut and the separation of peanut seedling from feeding conveyor to save respectively, all realize the automation mechanized operation, improve and pick up efficiency, reduce labour cost.

Inventors

WANG JINGCHAO
LI YAJUAN

SU XIAOQING

Latest standardized assignees - inventors removed

PUYANG NONGFA MACHINERY MANUFACTURING

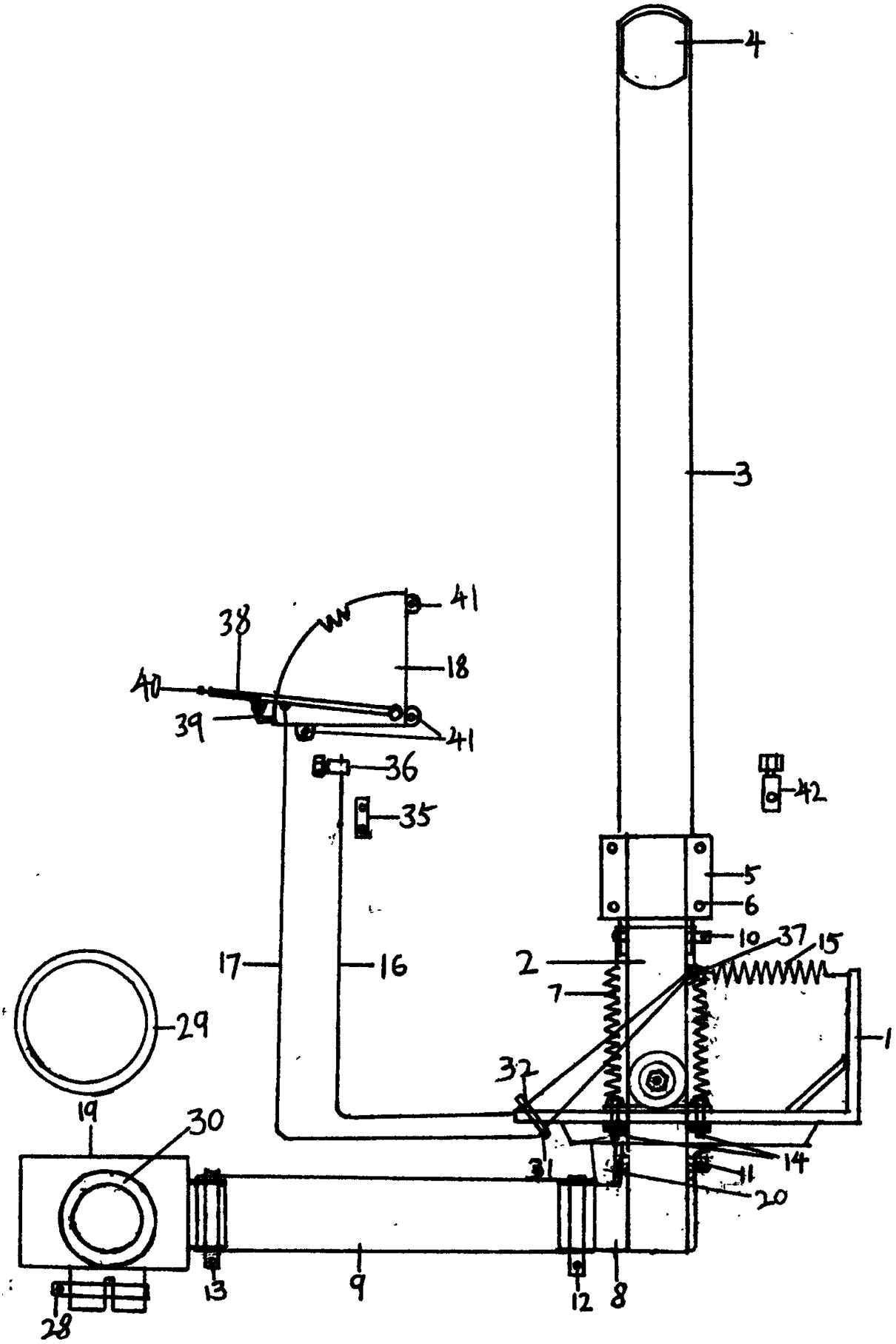
Family 85/667 - FAMPAT - ©Questel

Title

(CN202857318U)

Lifting type air inlet device of engine in combine harvester

Images



Publication data including kind & date

CN202857318 U 2013-04-10 CN202857318U

Abstract

(CN202857318U)

The utility model discloses a lifting type air inlet device of an engine in a combine harvester.A rotary shaft frame and a rotary shaft assembly are arranged on the rear wall of a granary in the combine harvester; a hard plastic air inlet pipe, a

wave-shaped telescopic plastic hose, a quarter bend, a plastic helical pipe and an air filter connection variable diameter assembly are arranged on a rotary shaft and connected in sequence; and the rotary shaft assembly is controlled by a passive control pull cable, a manual control pull cable and a lifting spring together to rotate for lifting the position of an air inlet nozzle.

Inventors

MENG HONGTAO

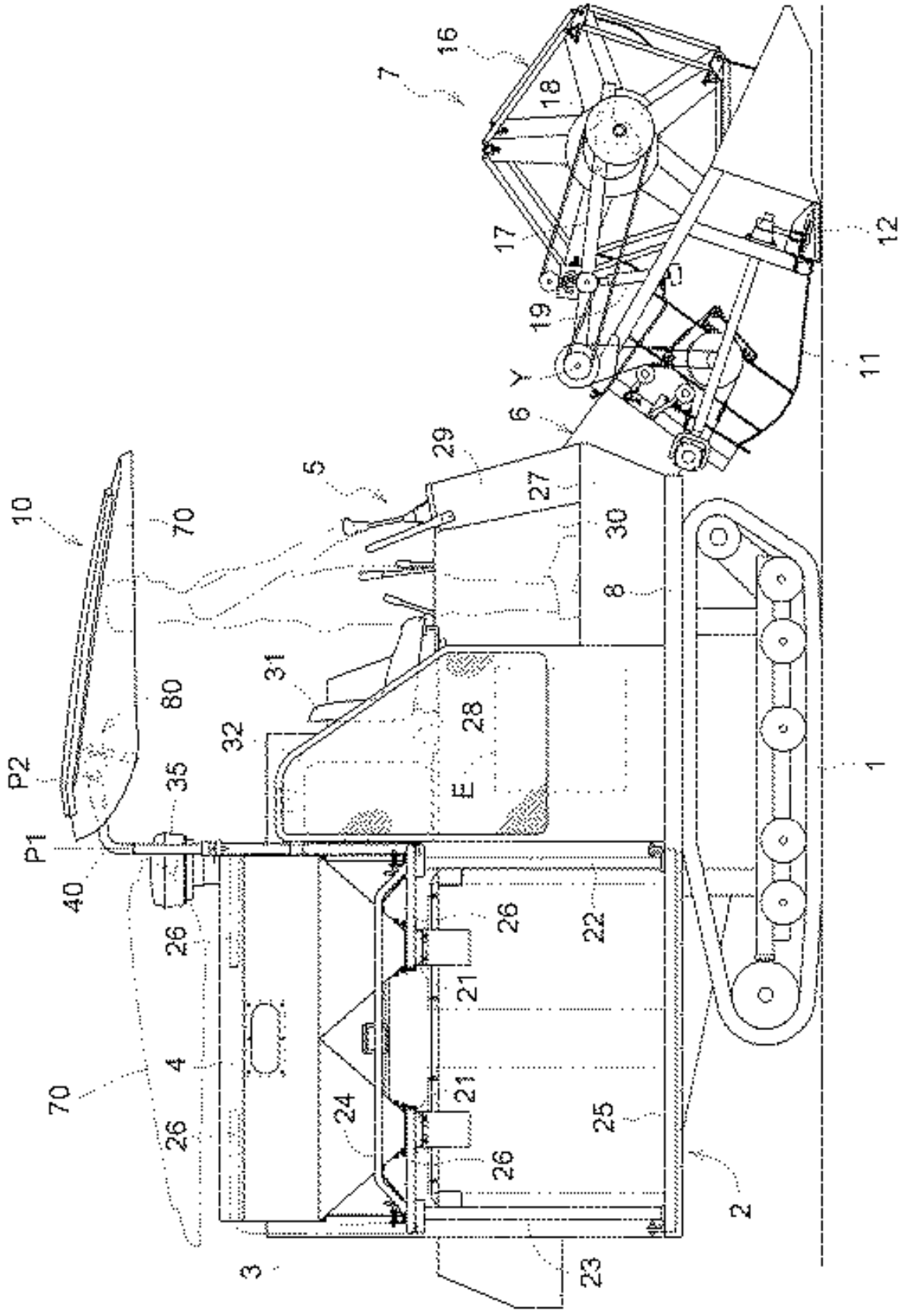
Family 86/667 - FAMPAT - ©Questel

Title

(JP2009207480)

Combine harvester

Images



Publication data including kind & date

JP2009207480	A	2009-09-17	JP2009207480
TH101650	A	2010-05-31	TH-101650
JP5344854	B2	2013-11-20	JP5344854
TH44163	B	2015-05-11	TH--44163B

Abstract

(JP5344854)

PROBLEM TO BE SOLVED: To attain a combine harvester capable of improving operability of a canopy while preventing the canopy from contacting with trees or the like so as not to be damaged.

SOLUTION: The combine harvester having a threshing part 3 or a grain recovering part 4 on the rear side of an operating part 5 and being equipped with a canopy 10 covering the upper side of the operating part 5 is provided, wherein, a roof member 70 covering the upper side of the operating part 5 and a post 40 turnably supported at the rear part of the operating part 5 around a vertical axis are equipped to compose the canopy 10 by connecting the roof member 70 at the upper part of the post 40.

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

Yuichi Bunno

Asakura Norio

SEGAWA TAKUJI

Hiroshi Fukai

Latest standardized assignees - inventors removed

KUBOTA

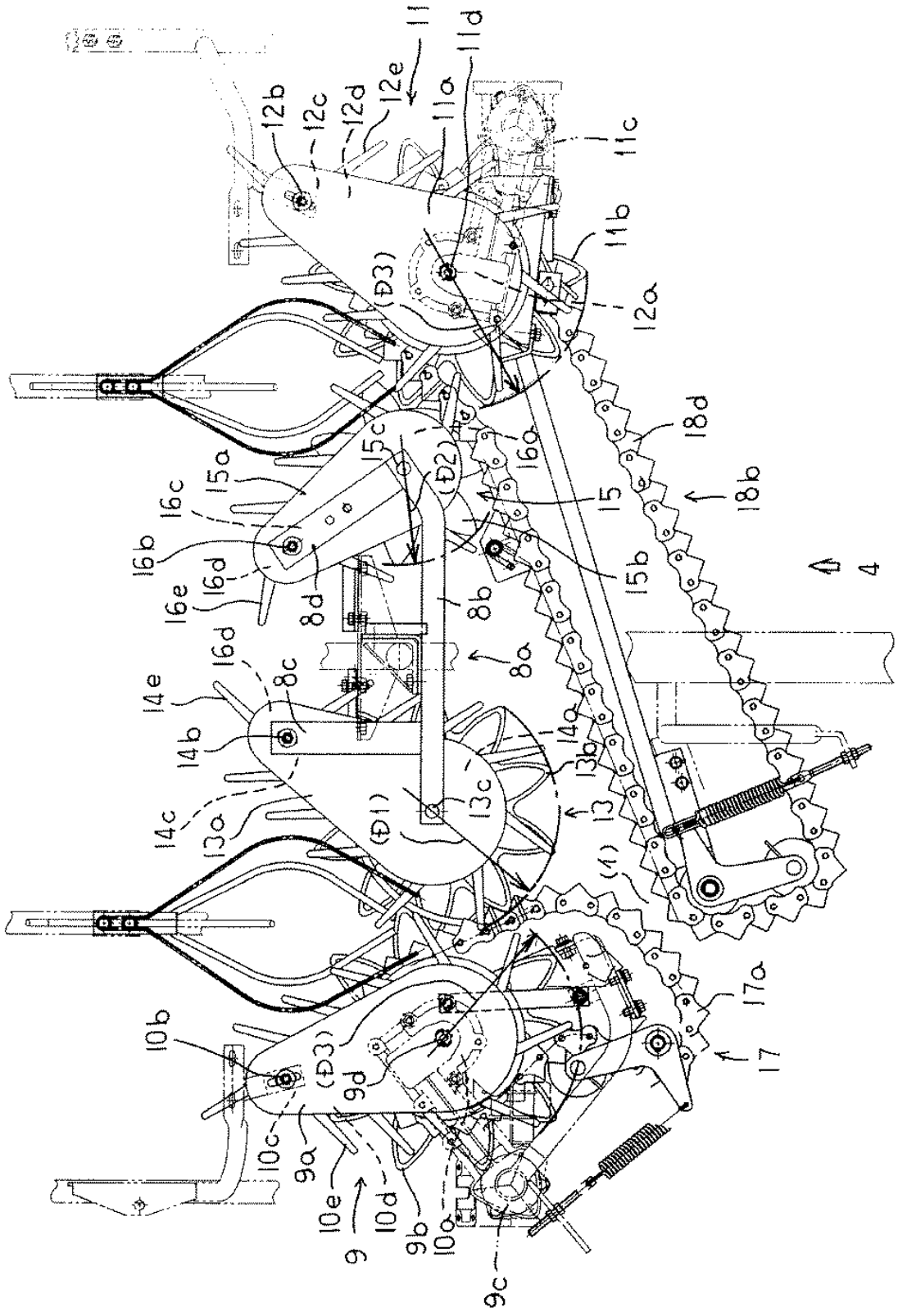
Family 87/667 - FAMPAT - ©Questel

Title

(JP2007053955)

Grain culm-transferring device of combine harvester

Images



Publication data including kind & date

JP2007053955	A	2007-03-08	JP2007053955
JP4910334	B2	2012-04-04	JP4910334

Abstract

(JP4910334)

PROBLEM TO BE SOLVED: To provide a combine harvester settled the problem that, as the outer diameters of outside left, outside right, center left and center right raking star wheels of outside left, outside right, center left and center right raking devices of the combine harvester, which devices rake in and transfer plural lines of grain culm of a reaper, are the

same, so the total length of the reaping machine is long, the total length of the combine harvester is also long and thereby operability is poor, weight is heavy, and cost is high.

SOLUTION: The outer diameters D1 and D2 of center left and center right raking star wheels 13b, 15b of outside left, outside right, center left and center right raking devices 9, 11, 13, 15 for raising and transferring the raised grain culm are formed to be smaller than outer diameters D3, D3 of the outside left and outside right raking star wheels 9b, 11b, at the rear side of a raising device 6 raising grain culm of the front side of a reaper 4 for reaping and transferring the grain culm.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

Masayuki Awa

SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI

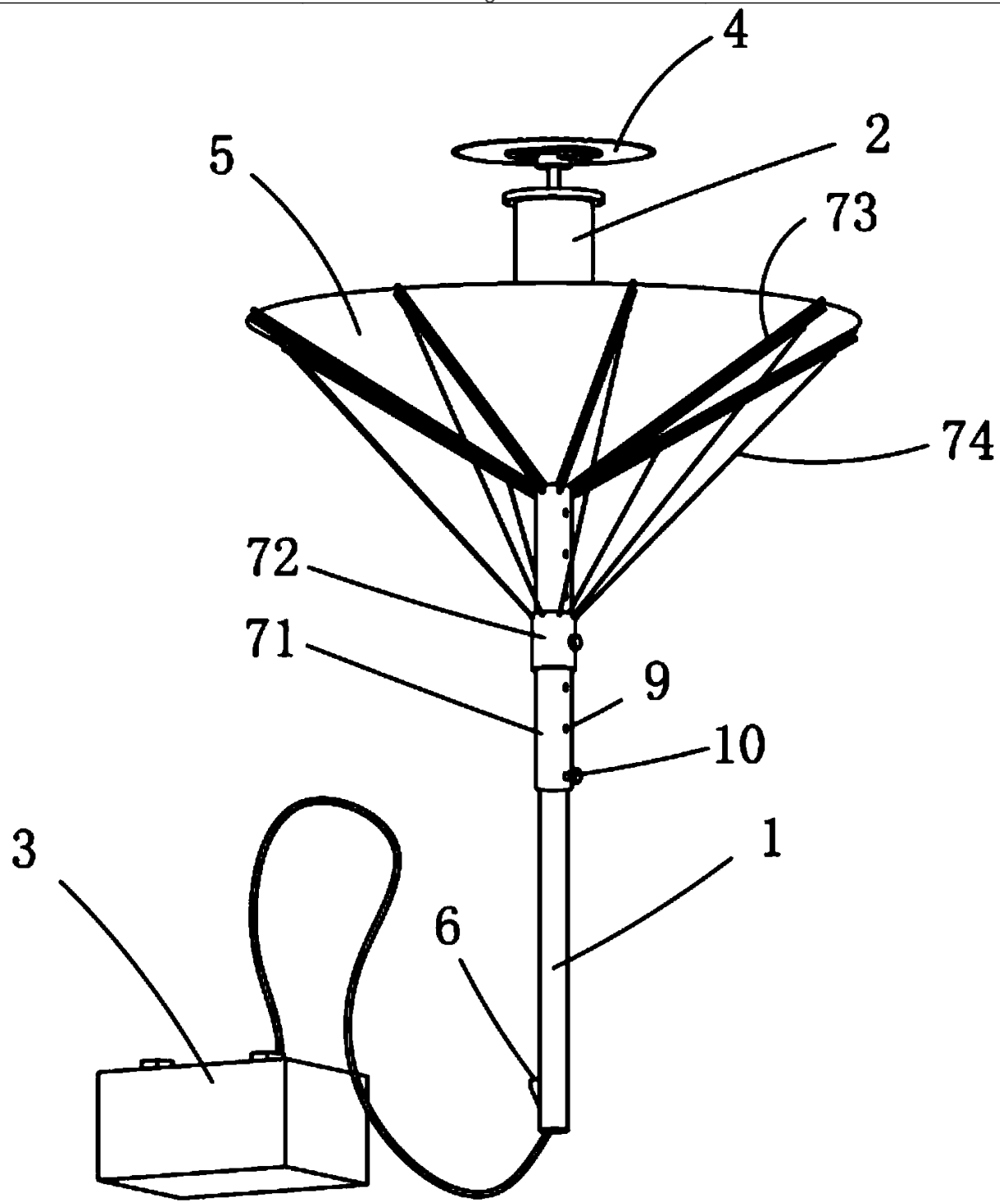
Family 88/667 - FAMPAT - ©Questel

Title

(CN203748269U)

Electric dried and fresh fruit harvester

Images



Publication data including kind & date

CN203748269 U 2014-08-06 CN203748269U

Abstract

(CN203748269U)

The utility model relates to an electric dried and fresh fruit harvester which comprises a telescopic control connection rod (1), a micro motor (2) fixed on the control connection rod (1), and a battery pack (3) which is separated from the control connection rod (1).A disc saw (4) is fixed on an output shaft of the micro motor (2), and an umbrella-shaped harvesting net (5) used for receiving dried and fresh fruits is fixed on the control connection rod (1) and located below the disc saw (4).Power of the micro motor (2) is provided by the battery pack (3), and a switch (6) for controlling the micro motor (2) is arranged on the control connection rod (1).The electric dried and fresh fruit harvester has the advantages of being reasonable in design, practical in function, and convenient to operate.The requirement for technologies and labor in harvesting of the dried and fresh fruits is broken through, and the dried and fresh fruits can be conveniently, efficiently and safely taken down from trees and stored together.

Inventors

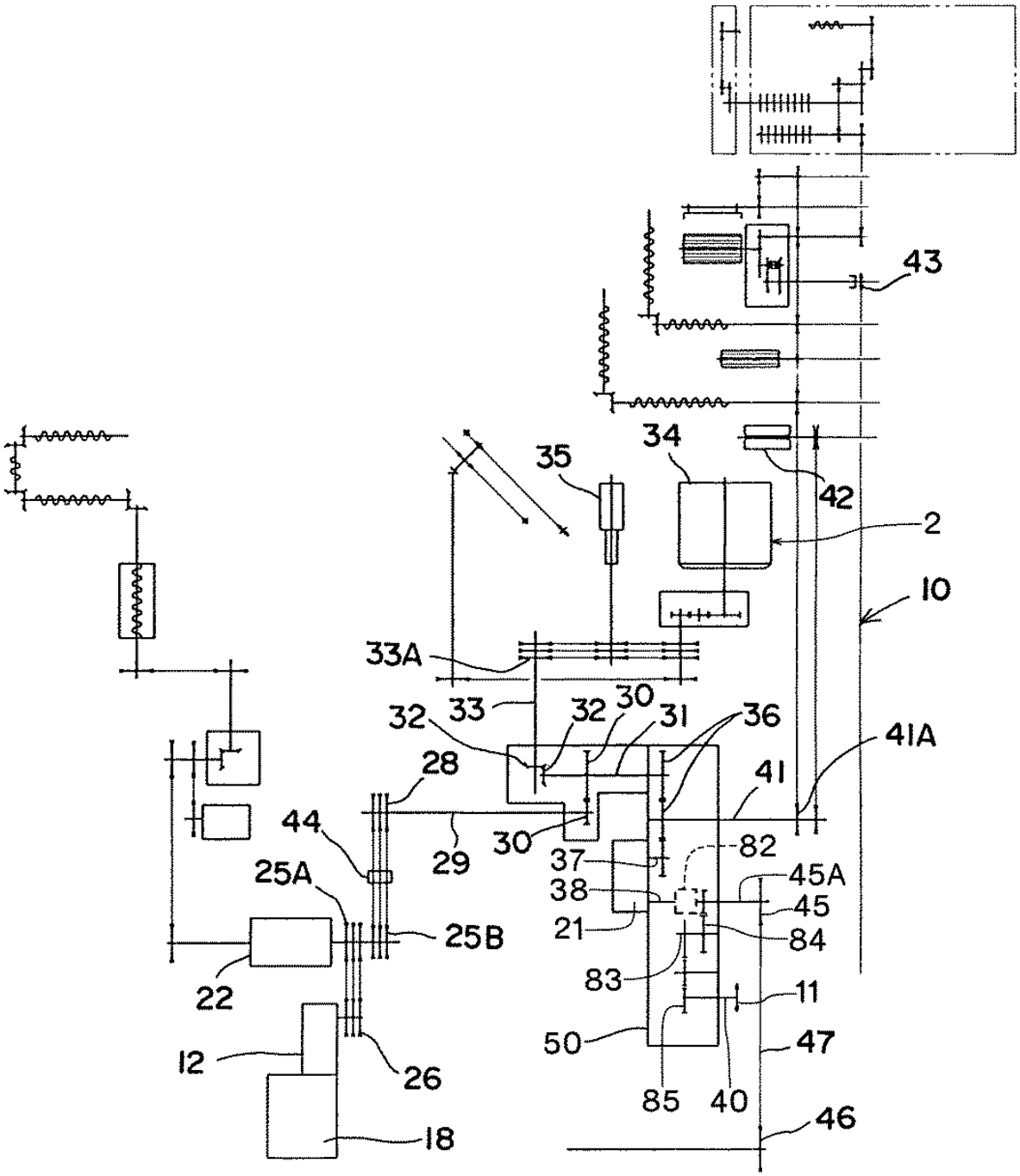
YANG JIAN
YANG QIANQIAN
ZHANG YOUSHENG

Family 89/667 - FAMPAT - ©Questel

Title

(JP2011024523)
Combine harvester

Images



Publication data including kind & date

CN101836536	A	2010-09-22	CN101836536
KR20100105338	A	2010-09-29	KR20100105338
JP2010213625	A	2010-09-30	JP2010213625
TW201034560	A	2010-10-01	TW201034560
JP2011024523	A	2011-02-10	JP2011024523
JP2011067098	A	2011-04-07	JP2011067098

JP2011092106	A	2011-05-12	JP2011092106
KR101064244	B1	2011-09-14	KR101064244
JP4835747	B2	2011-12-14	JP4835747
TWI373305	B	2012-10-01	TWI373305
CN101836536	B	2013-05-01	CN101836536B
JP5288132	B2	2013-09-11	JP5288132
JP5387825	B2	2014-01-15	JP5387825
JP5446548	B2	2014-03-19	JP5446548

Abstract

(JP5446548)

PROBLEM TO BE SOLVED: To provide a combine harvester simplified in transmission structure and facilitated in assembling.

SOLUTION: There is provided a combine harvester configured to divide and output rotation power to at least two transmission pathways (7, 8) of a reaping threshing transmission case (4) arranged in front of a thresher (3) and a running HST (6) arranged at a running mission device (5), wherein the reaping threshing transmission case (4) is, inside thereof, equipped with a transmission pathway (9) outputting power to the thresher (3) at the transmission upper side, a reaping HST (10) is connected to the transmission down side to transmit power, the reaping HST (10) and the running HST (6) are configured to be variably speed-controlled, and the reaping HST (10) is configured to dividedly transmit the power output from the hydraulic motor (10a) side to a reaping input shaft (11) and a transferring chain (13) arranged near the transfer start end part of a feed chain (12).

COPYRIGHT: (C)2011,JPO&INPIT

Inventors

Yasushi Ihara

Masami Matsui

KAMIDO KOREYUKI

Tomoyuki Ichimaru

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

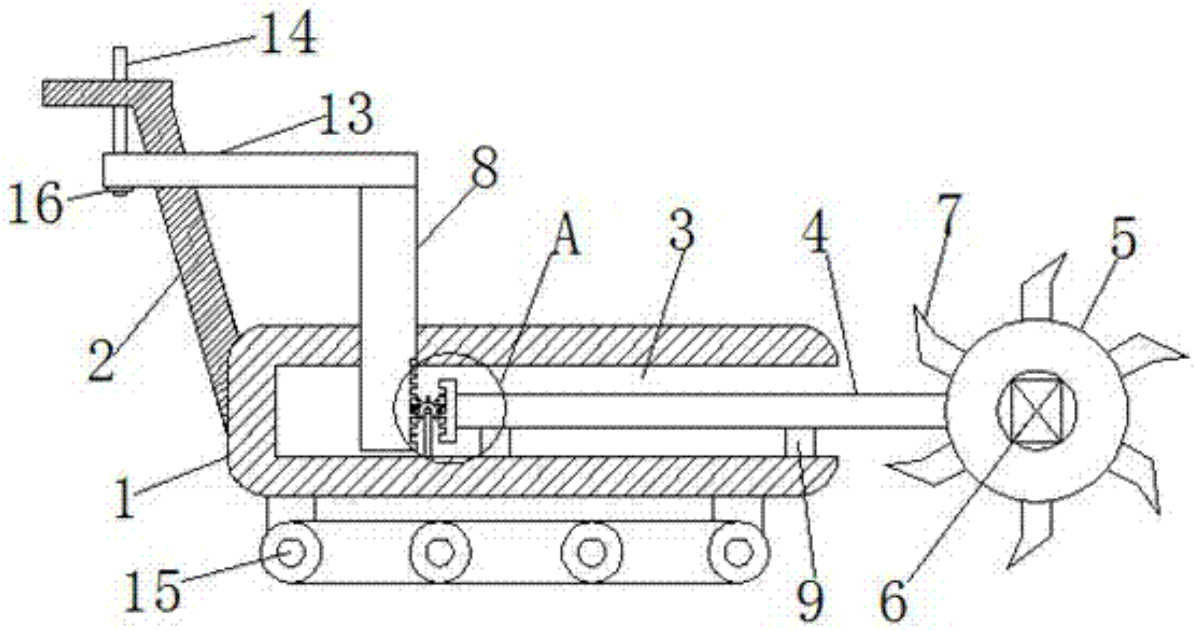
Family 90/667 - FAMPAT - ©Questel

Title

(CN207022491U)

Novel chive harvester

Images



Publication data including kind & date

CN207022491 U 2018-02-23 CN207022491U

Abstract

(CN207022491U)

The utility model discloses a novel chive harvester, include the casing and set up the handle at the casing lateral wall, its characterized in that, be equipped with the mounting groove on the casing,and the opening of mounting groove keeps away from the handle setting, be equipped with the connecting rod in the mounting groove, the connecting rod is through the downside inner wall fixed connection of a plurality of telescopic links with the mounting groove, the one end that the mounting groove bottom was kept away from to the connecting rod is connected with driving motor, and driving motor's output shaft fixedly connected with gyro wheel, the gyro wheel outer wall encircles and is equipped with a plurality of cutters, the fixed rack that is equipped with of one end of gyro wheel is keptaway from to the connecting rod, be equipped with the pull rod in the mounting groove, and the pull rod runs through the upside lateral wall setting of mounting groove, be equipped with between pullrod and the rack with gear matched's gear, and the gear passes through dead lever and mounting groove one side lateral wall fixed connection.The utility model discloses simple structure, convenient operation, labour saving and time saving has guaranteed that the quality of results chives is good.

Inventors

ZHANG FEI

Latest standardized assignees - inventors removed

JIANCHUAN ZHEN ZHEN FU AGRICULTURAL PRODUCTS PROCESSING

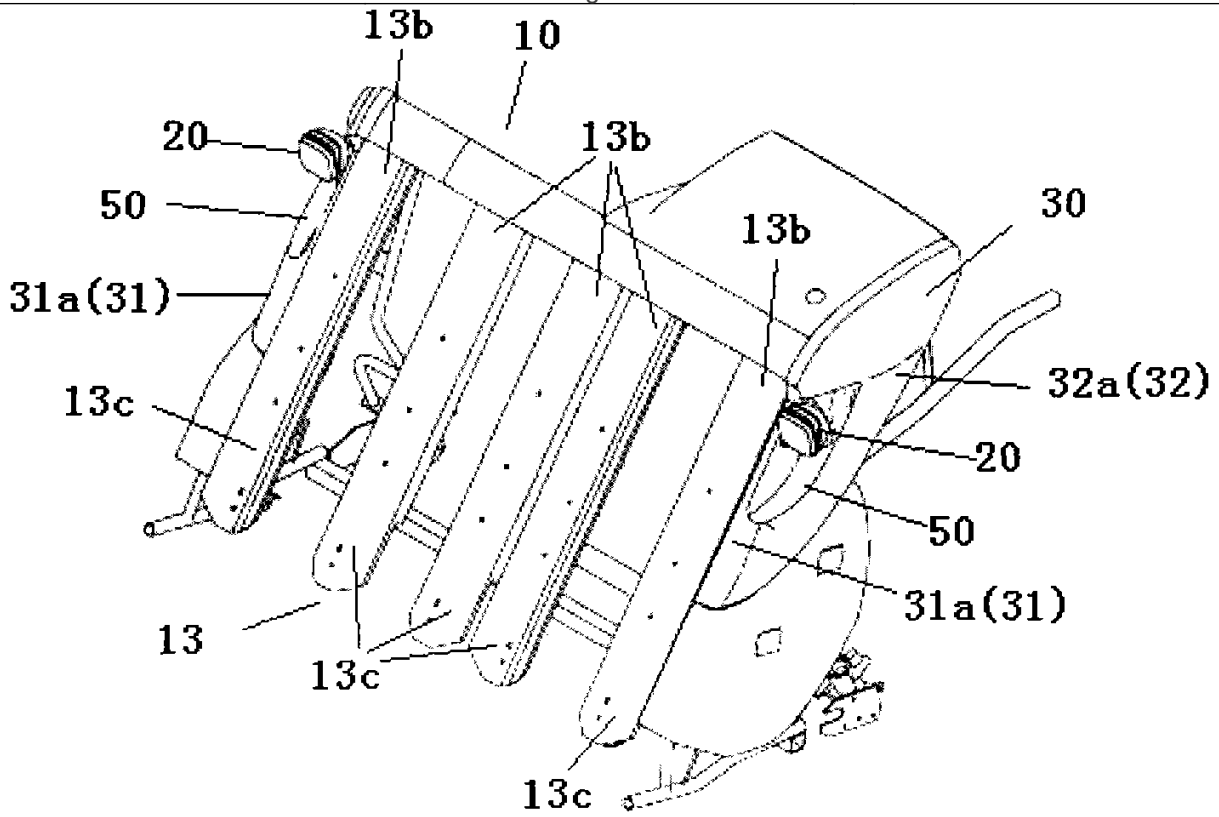
Family 91/667 - FAMPAT - ©Questel

Title

(CN201663818U)

Harvester

Images



Publication data including kind & date

CN201663818 U 2010-12-08 CN201663818U

Abstract

(CN201663818U)

The utility model provides a harvester.The harvester is provided with a harvesting front-processing part in the front of a harvester body.The harvesting front-processing part comprises a pull-up device and side shields, wherein the side shields cover the left side and the right side of the front-processing part respectively and are connected with the pull-up device.The harvester is characterized in that a concave part is formed on each side shield, and a headlamp is arranged in the concave part.The headlamp of the harvester can not hook crops, and the irradiation direction of the headlamp can be changed freely according to different purposes, besides, when the headlamp irradiates downwards, the harvesting part can not obstruct the light rays of irradiation.

Inventors

SONG XIAZHAO

Yamamoto Yu Ming

OHNO, TAKAYUKI

Latest standardized assignees - inventors removed

KUBOTA

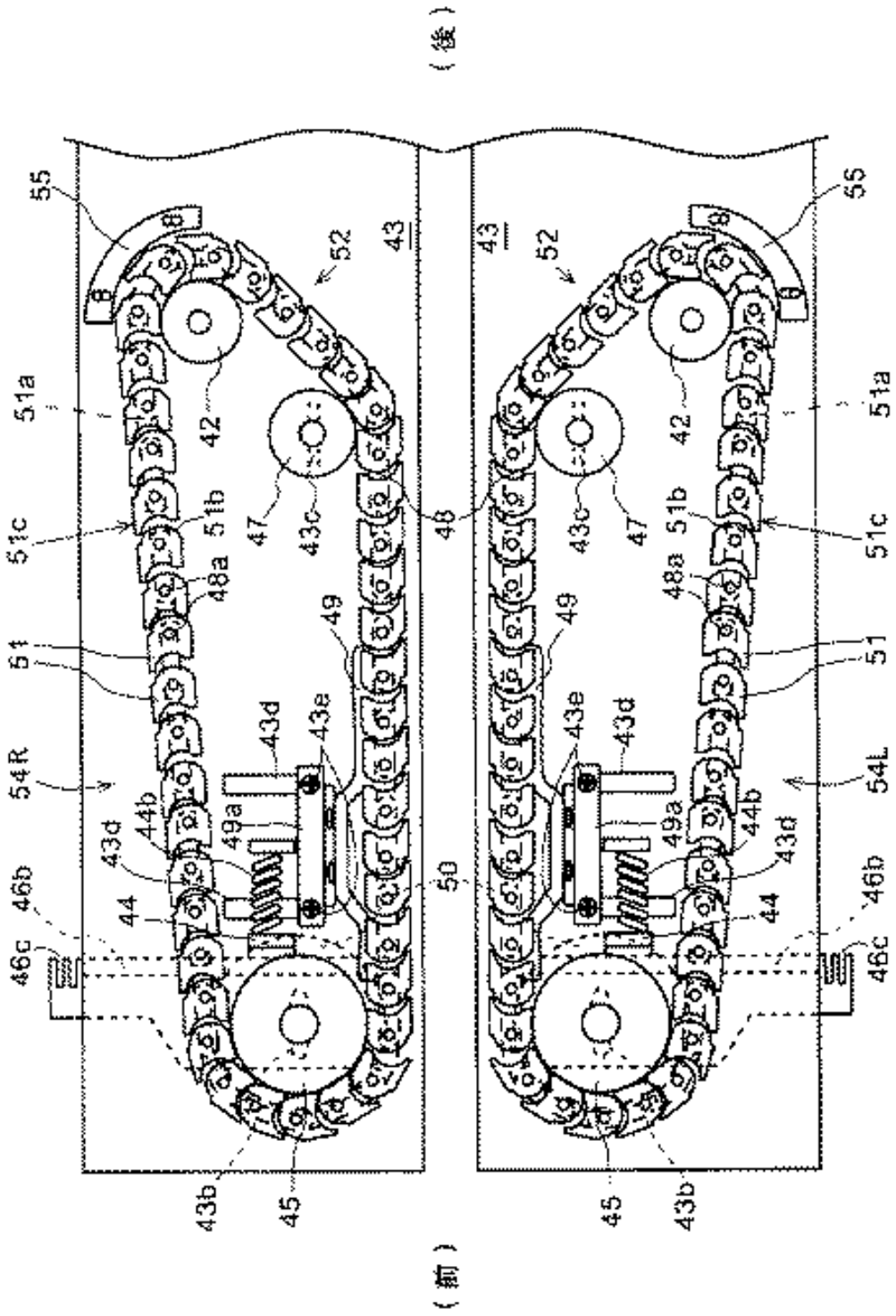
Family 92/667 - FAMPAT - ©Questel

Title

(JP2013027352)

Root vegetable harvester

Images



Publication data including kind & date

JP2013027352	A	2013-02-07	JP2013027352
JP5853467	B2	2016-02-09	JP5853467

Abstract

(JP5853467)

PROBLEM TO BE SOLVED: To provide a root vegetable harvester which does not delay harvesting operation by bringing the vegetables' root parts of farm products into contact with the starting end side of a shoulder arranging apparatus regardless of the size of the diameters.SOLUTION: In the root vegetable harvester, shoulder arrangement can be performed by bringing the vegetables' root parts into contact with the lower parts on the starting end sides of the shoulder

arranging apparatuses 54L and 54R even if they are farm products small in diameter by providing it with a space adjusting mechanism X1 which adjusts the space on the starting end side between the shoulder arranging apparatuses 54L and 54R.Therefore, this can prevent the farm products from clogging the shoulder arranging apparatuses 54L and 54R, whereby the work efficiency improves more than prior art, and further the harvester is provided with an automatic tensing mechanism X2 which energizes it toward the space part on the starting end side of the shoulder arranging apparatuses 54L and 54R and opens the space when a load works on the shoulder arranging apparatuses 54L and 54R.Therefore, if farm products large in diameter of stems and leaves pass the space, they open automatically, which prevents the stems and leaves from clogging them and prevents the delay in harvesting work.

Inventors

HASE KIHACHIRO
Masami Muramachi
TAKAGI SHINGO
Takanori Iwabe
Hideaki Kurose
YUMITATSU TAKESHI

Latest standardized assignees - inventors removed

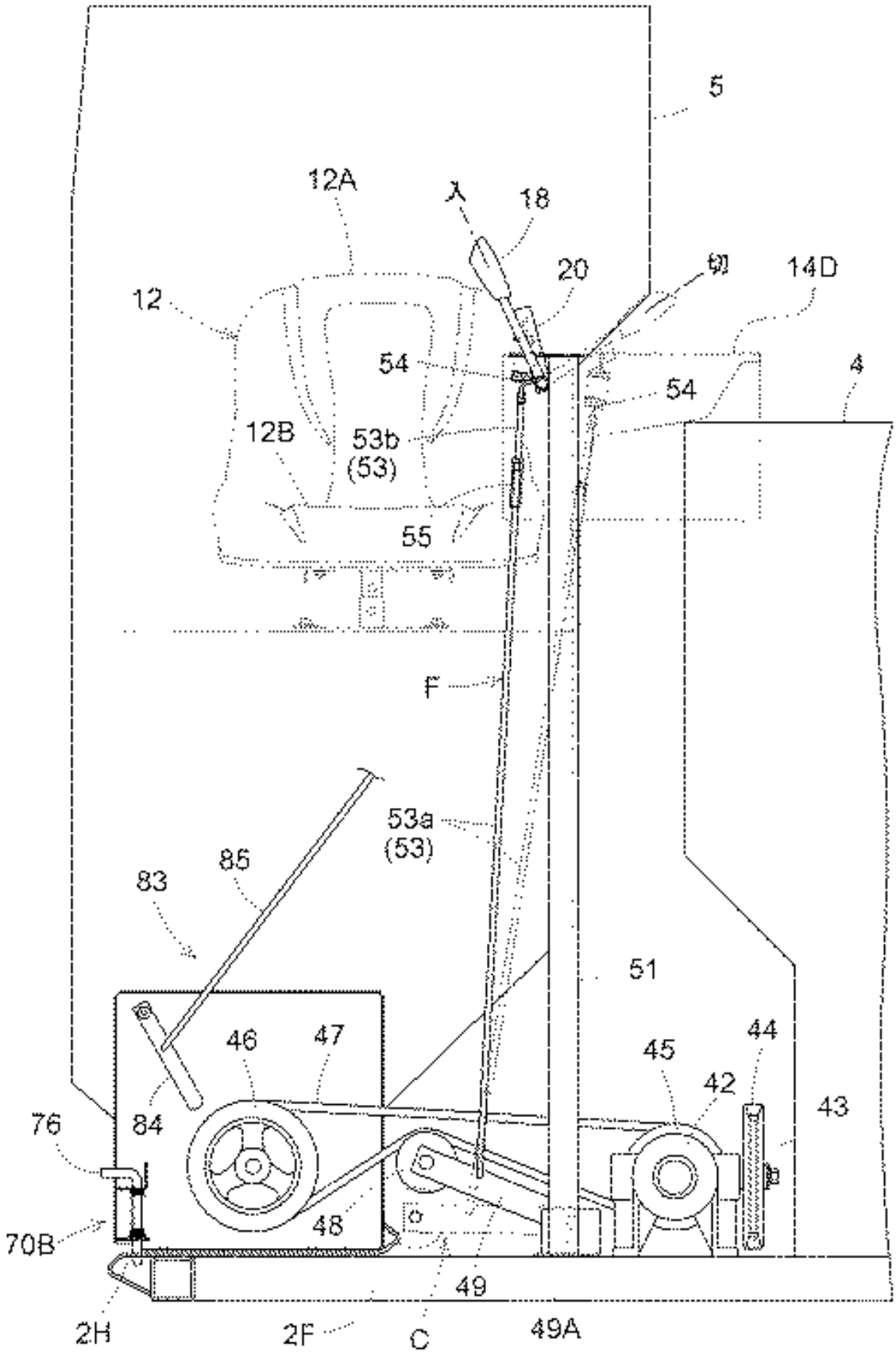
ISEKI

Family 93/667 - FAMPAT - ©Questel

Title

(JP2012228229)
Combine harvester

Images



Publication data including kind & date

JP2012228229	A	2012-11-22	JP2012228229
CN202773377	U	2013-03-13	CN202773377U
JP5788705	B2	2015-10-07	JP5788705

Abstract

(JP5788705)

PROBLEM TO BE SOLVED: To provide a combine harvester enabling an operator to easily confirm the length of a coil

spring from a driver's seat.SOLUTION: The driver's seat 12 and an engine are arranged in front positions of a traveling machine body, and a grain tank 5 for storing grains is arranged behind them.An unloader is provided for delivering grains from the grain tank 5, and a delivery clutch C is provided for switching on/off driving force transmitted from the engine to the unloader.The delivery clutch C includes a transmission belt 47 wound between a driving pulley 45 rotated by the engine, and an input pulley 46 to the unloader 6, and a tension roller 48 applying tension to the transmission belt 47.At least one operating rod 53a or 53b and the coil spring 54 are interposed in series between the tension roller 48 and on/off operating members 18, 20 arranged near the driver's seat 12, and the coil spring 54 is arranged above the longest operating rod 53a.

Inventors

Shimoda Yohei

Tomoya Matsubayashi

MATSUSHITA HIROAKI

Latest standardized assignees - inventors removed

KUBOTA

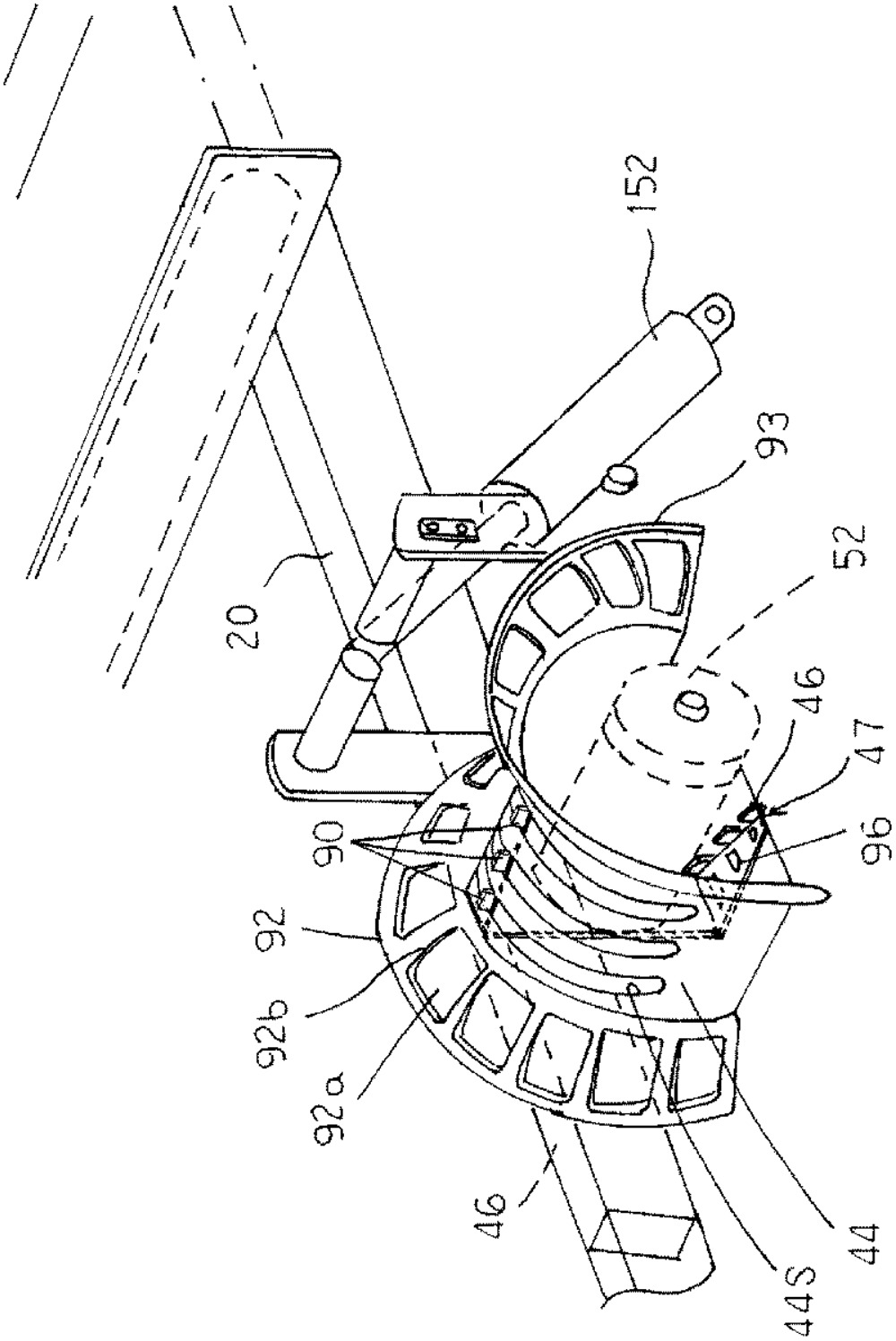
Family 94/667 - FAMPAT - ©Questel

Title

(JP2013201915)

Root crop harvester

Images



Publication data including kind & date

JP2013201915	A	2013-10-07	JP2013201915
JP5970904	B2	2016-08-17	JP5970904

Abstract

(JP5970904)

PROBLEM TO BE SOLVED: To provide a root crop harvester having a cleaning mechanism for its hairy root cutter effectively cutting off hairy root even if the machine body is inclined right and left, with the cleaning mechanism automatically removing cutoff hairy root and mud deposited onto the cutter.SOLUTION: A root crop harvester is such that: a hairy root cutter 57 removing the hairy root of root crops under conveyance by a pull conveyor 24 pulling root crops off a farm and conveying them is laid beneath the conveyance path of the pull conveyor 24.In this harvester, it is characterized in that: the hairy root cutter 57 is constituted of a guide bar 44 guiding root crops received and a rotary cutting blade 47 cutting off hairy root going in a slit 44s provided on the guide bar 44; and the rotary cutting blade 47 is set with a scraper 90 for cleaning up mud and cutoff hairy root deposited onto the cutter, projected from the slit 44s above the guide bar 44.

Inventors

Masami Muramachi
TAKAGI SHINGO
Takanori Iwabe
Hideaki Kurose
YUMITATSU TAKESHI

Latest standardized assignees - inventors removed

ISEKI

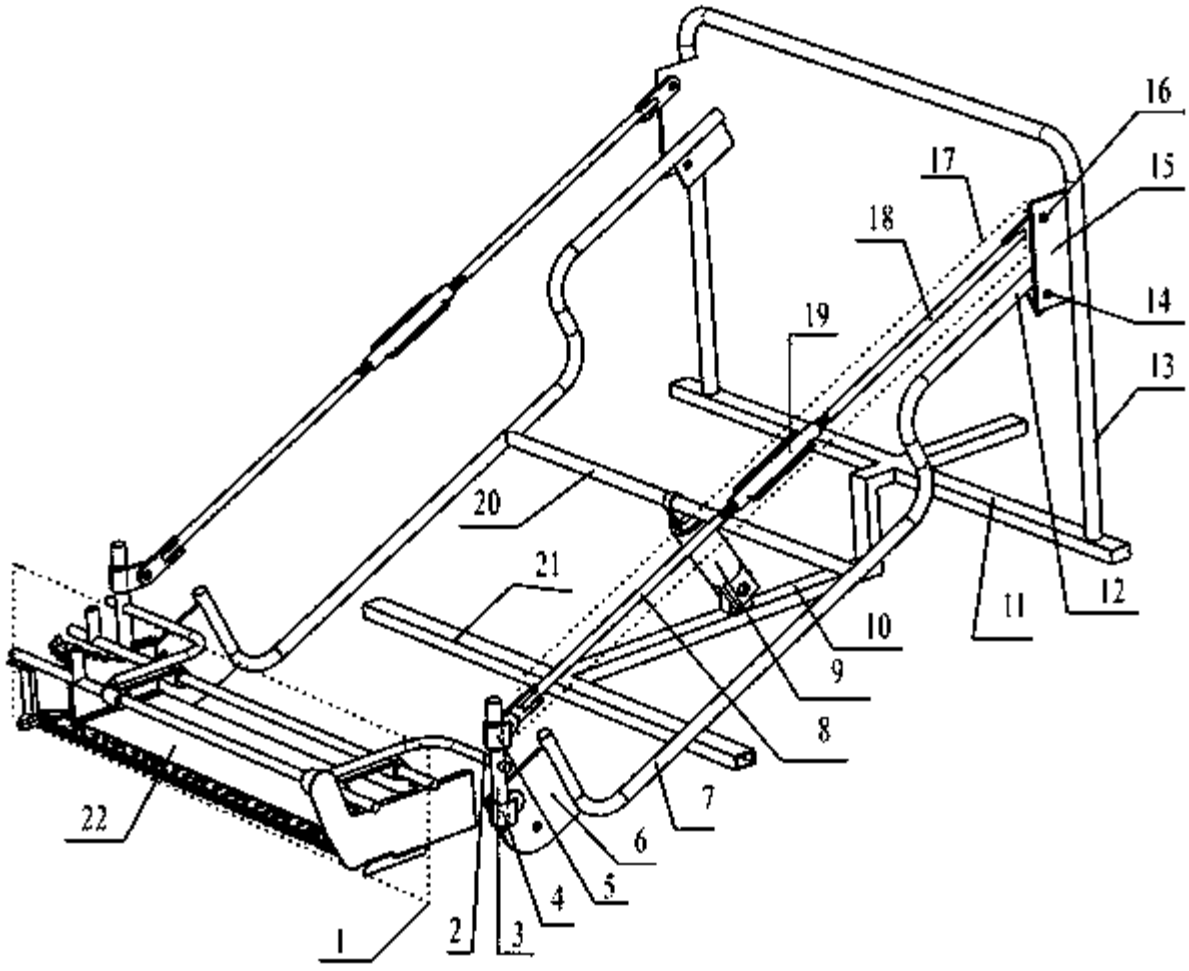
Family 95/667 - FAMPAT - ©Questel

Title

(CN103703935B)

Header height adjustment device of bur clover harvester

Images



Publication data including kind & date

CN103703935	A	2014-04-09	CN103703935

CN103703935	B	2015-07-08	CN103703935B

Abstract

(CN103703935B)

The invention belongs to the field of vegetable harvesters, and relates to a header height adjustment device of a bur clover harvester.The header height adjustment device comprises a cutting device, cutting device connecting pieces, a parallel four-rod mechanism, an upwards-pushing transverse rod, a pushing rod assembly, supporting stand columns and a frame, wherein the cutting device is fixedly connected with the cutting device connecting pieces, the cutting device connecting pieces are fixedly connected with the parallel four-rod mechanism, the parallel four-rod mechanism is connected with the supporting stand columns, and the supporting stand columns are fixed to the frame.The parallel four-rod mechanism comprises cutting connecting rods, lifting connecting rods, fixed connecting rods and adjustable connecting rods, and the cutting connecting rods, the lifting connecting rods, the fixed connecting rods and the adjustable connecting rods are hinged through pins.The lifting connecting rods are fixedly connected with the upwards-pushing transverse rod, the upwards-pushing transverse rod is hinged to the pushing rod assembly, the pushing rod assembly is fixed to the frame and provides lifting power for the parallel four-rod mechanism to drive the cutting device to be lifted, and a header horizontally moves in the lifting process.The lengths of the adjustable connecting rods are changed in a threaded connection mode, so that the parallel four-rod mechanism is conveniently assembled.A lithium battery is adopted for providing power for a whole lifting device, and the header height adjustment device is clean and environmentally friendly.

Inventors

CHEN SHUREN

WU MINGCONG

Latest standardized assignees - inventors removed

JIANGSU UNIVERSITY

Family 96/667 - FAMPAT - ©Questel

Title

(WO200443135)

Harvester for herbs and aromatic fruits

Publication data including kind & date

WO2004043135	A1	2004-05-27	WO200443135
AU2003216565	A1	2004-06-03	AU2003216565
HRP20020898	A2	2004-12-31	HRP20020898
HRPK20020898	B3	2006-05-31	HRPK20020898

Abstract

(WO200443135)

The harvester for herbs and aromatic fruits is a device that enables a quick, easy and efficient harvesting of herbs or aromatic fruits, in all conditions.Elastic fingers (1) are fixed to the support (5).Required elasticity of fingers (1), as well as the elastic connection between fingers (1), is provided by openings (2).This enables that fingers pass freely through branches to the fruits to be picked, and clean fruits are harvested.A bending joint (7) enables the adjustment of inclination, and the telescopic stick enables the adjustment of required length.In this manner, it is enabled that the process of harvesting herbs or picking fruits is carried out from to the ground, so that pickers are safe from bites, stings, cuts or falls from the tree.For harvesting herbs, a blade (4) is mounted to the support (5), and it cuts the herbs grasped by elastic fingers (1).Thicker parts (3) of the fingers (1), by their relative displacement at even fingers in relation to the odd ones, shape the interspace between fingers to look like a meandering path which, together with the curvature of fingers, ensures the safe grasp of the herbs or the aromatic fruits to be picked, practically eliminating the possibility that grasped stems of herbs, or aromatic fruits respectively, set free from the grasp of fingers (1) without control.

Inventors

PERESA BARTOL

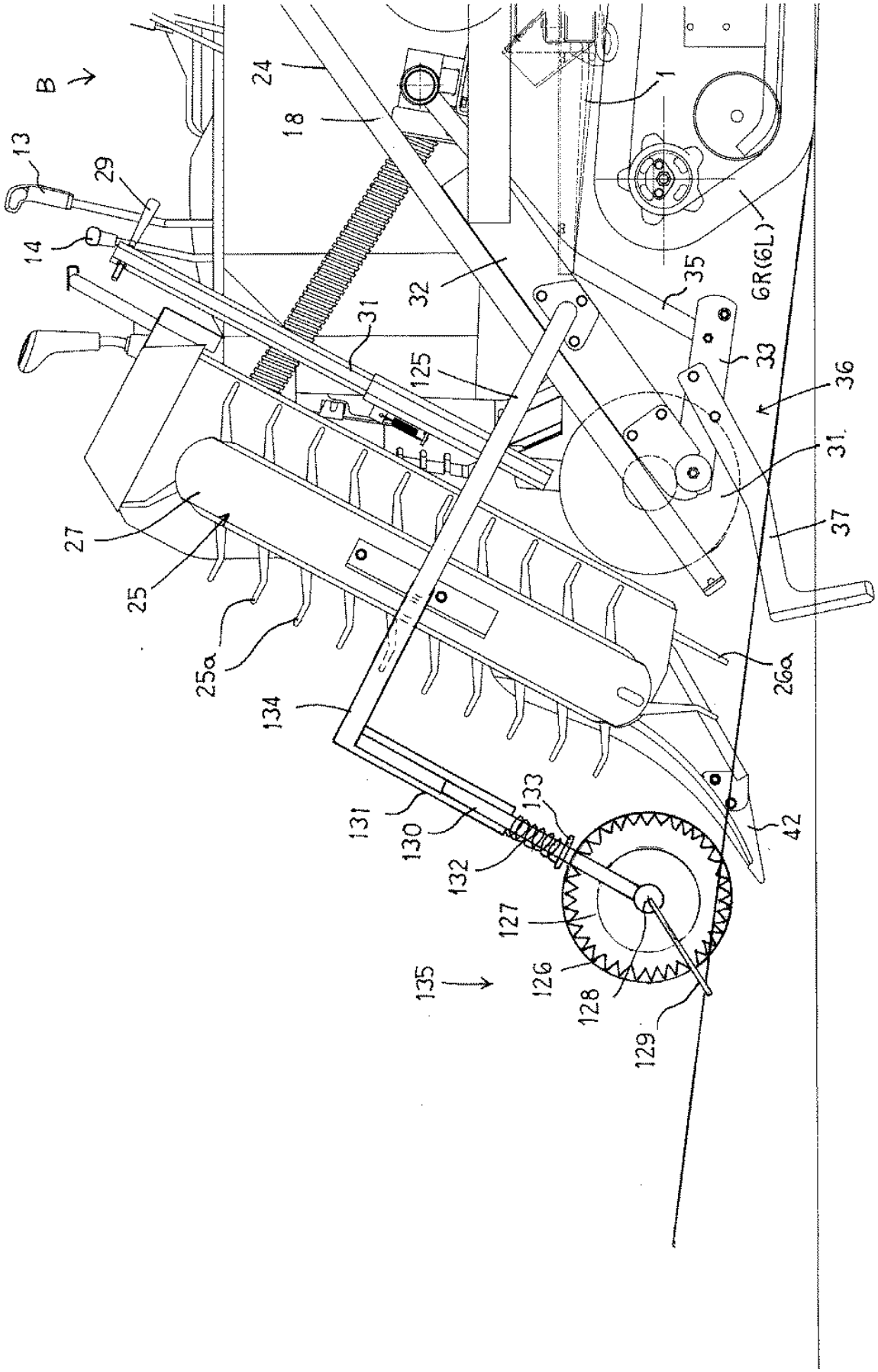
Family 97/667 - FAMPAT - ©Questel

Title

(JP2013009649)

Root vegetable harvester

Images



Publication data including kind & date

JP2013009649	A	2013-01-17	JP2013009649
JP5842412	B2	2016-01-13	JP5842412

Abstract

(JP5842412)

PROBLEM TO BE SOLVED: To provide a root vegetable harvester, efficiently performing harvest work by setting pulling-out of root vegetable at the front part of a machine body to only one line.SOLUTION: In this self-propelled root vegetable harvester, a vertically raising device 25 for raising the stem and leaf of root vegetable planted in a field and a sideways raising device 26 for sending the raised stem and left sideways are provided in front of a pulling-out and conveying device 24 for sending backward the root vegetable pulled out of the field.The root vegetable harvester includes a stem and leaf separating device 135 for dividing sideways the stem and leaf of the root vegetables twined in front of the vertically raising device 25.

Inventors

HASE KIHACHIRO
Masami Muramachi
TAKAGI SHINGO
Takanori Iwabe
Hideaki Kurose
YUMITATSU TAKESHI

Latest standardized assignees - inventors removed

ISEKI

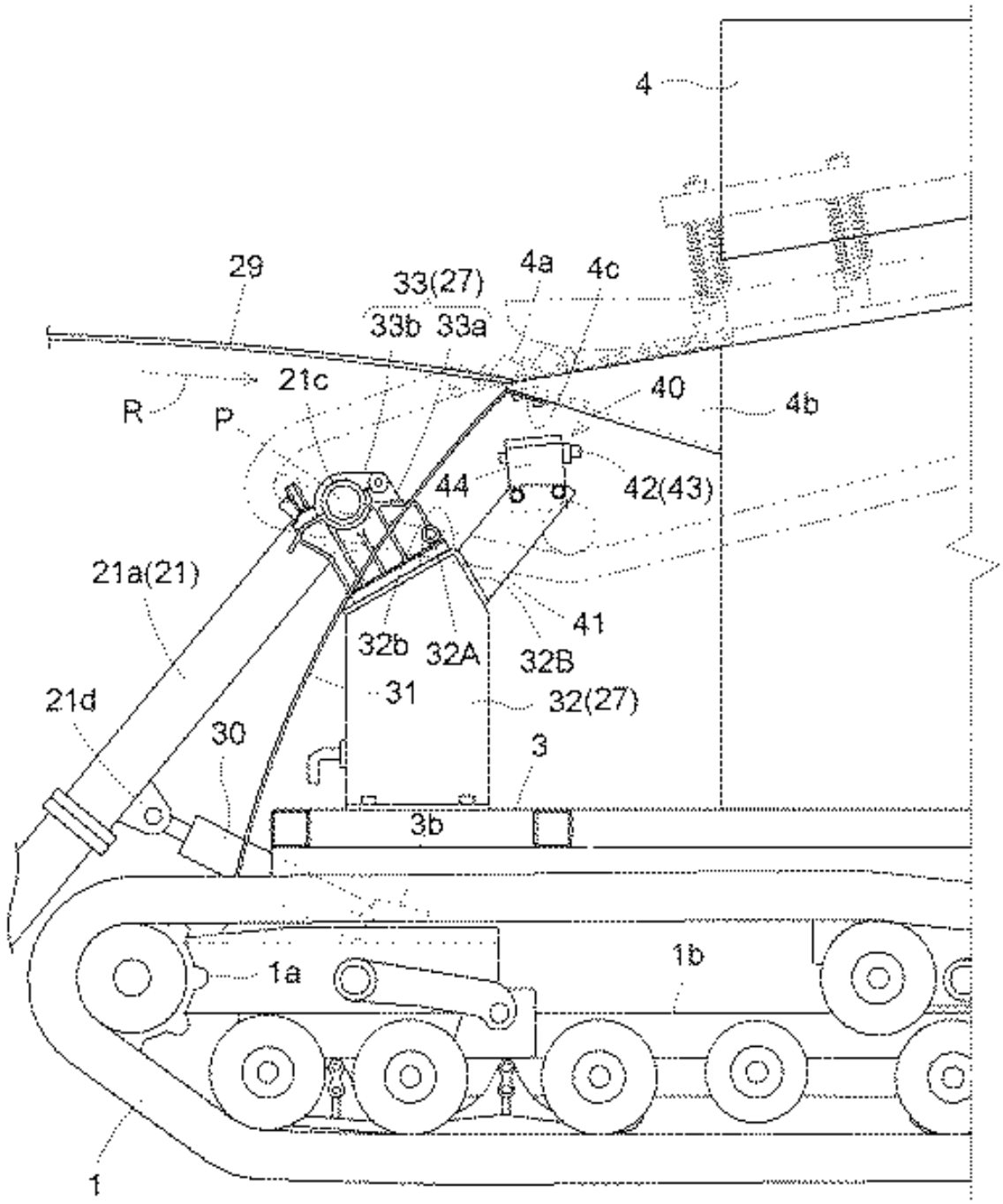
Family 98/667 - FAMPAT - ©Questel

Title

(JP2012060956)

Exhaust structure of combine harvester

Images



Publication data including kind & date

KR20110109855	A	2011-10-06	KR20110109855
JP2011211911	A	2011-10-27	JP2011211911
JP2012060956	A	2012-03-29	JP2012060956
JP5364024	B2	2013-12-11	JP5364024
JP5635854	B2	2014-12-03	JP5635854
KR20170121107	A	2017-11-01	KR20170121107
KR101848915	B1	2018-04-13	KR101848915
KR20180093856	A	2018-08-22	KR20180093856
KR101890173	B1	2018-08-22	KR101890173

Abstract

(JP5635854)

PROBLEM TO BE SOLVED: To make the exhaust structure of a combine harvester equipped with a reaping part installed at the front part of a traveling machine body, an operating part installed at the rear direction of the reaping part, a threshing device and a recovering part for recovering cereal grains, installed in parallel in the right and left direction of rear direction

of the operating part and an exhaust pipe for exhausting exhaust gas from an engine installed at the lower direction of the operating part, so that the exhaust gas hardly moves toward an operator in the operating part and also straw dusts and mud hardly pile up over the whole part of the exhaust pipe.SOLUTION: This exhaust structure of the combine harvester is provided by passing the exhaustive pipe XP as slanting and facing upward between the threshing device 4 and recovering part 5 from the exhaust part 67 of the engine 60, and being supported by a box body 4S constituting the threshing device 4.

Inventors

MATSUSHITA HIROAKI

Toshio Tominaga

Tomoya Matsubayashi

Takeshi Kawano

Latest standardized assignees - inventors removed

KUBOTA

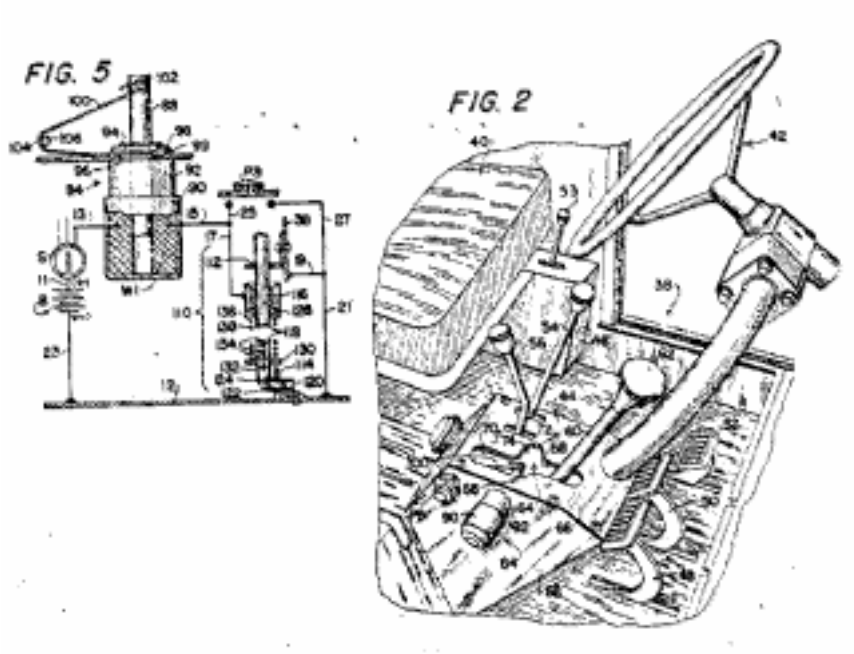
Family 99/667 - FAMPAT - ©Questel

Title

(FR2221066)

Device for locking the reverse of a combine harvester.

Images



Publication data including kind & date

DE2405696	A1	1974-10-03	DE2405696
FR2221066	A1	1974-10-11	FR2221066
DE2405696	B2	1975-06-12	DE2405696
CA978755	A	1975-12-02	CA-978755
FR2221066	B1	1976-12-17	FR2221066
GB1463395	A	1977-02-02	GB1463395

Abstract

(FR2221066)

A reverse drive lockout mechanism for a combine harvester having a crop-gathering platform which is provided with ground-engaging control fingers, the lockout mechanism preventing the harvester from inadvertently being driven in reverse when such control fingers are in ground proximity.A normally de-energized solenoid, mounted on the speed lever console, maintains its plunger projected and in the path of movement of the speed lever, thus preventing entry of the lever into the reverse speed range.A switch assembly becomes effective when the platform is raised a predetermined distance

from the ground to establish an electrical circuit through the solenoid winding, thus retracting the plunger and allowing the speed lever to be moved in the reverse speed range.

(From US3808784 A)

Inventors

GARDNER, FRANK H., IOWA, IA.

KRUKOW, EUGENE J., CORDOVA

STROUP, NORMAN G., ORION

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

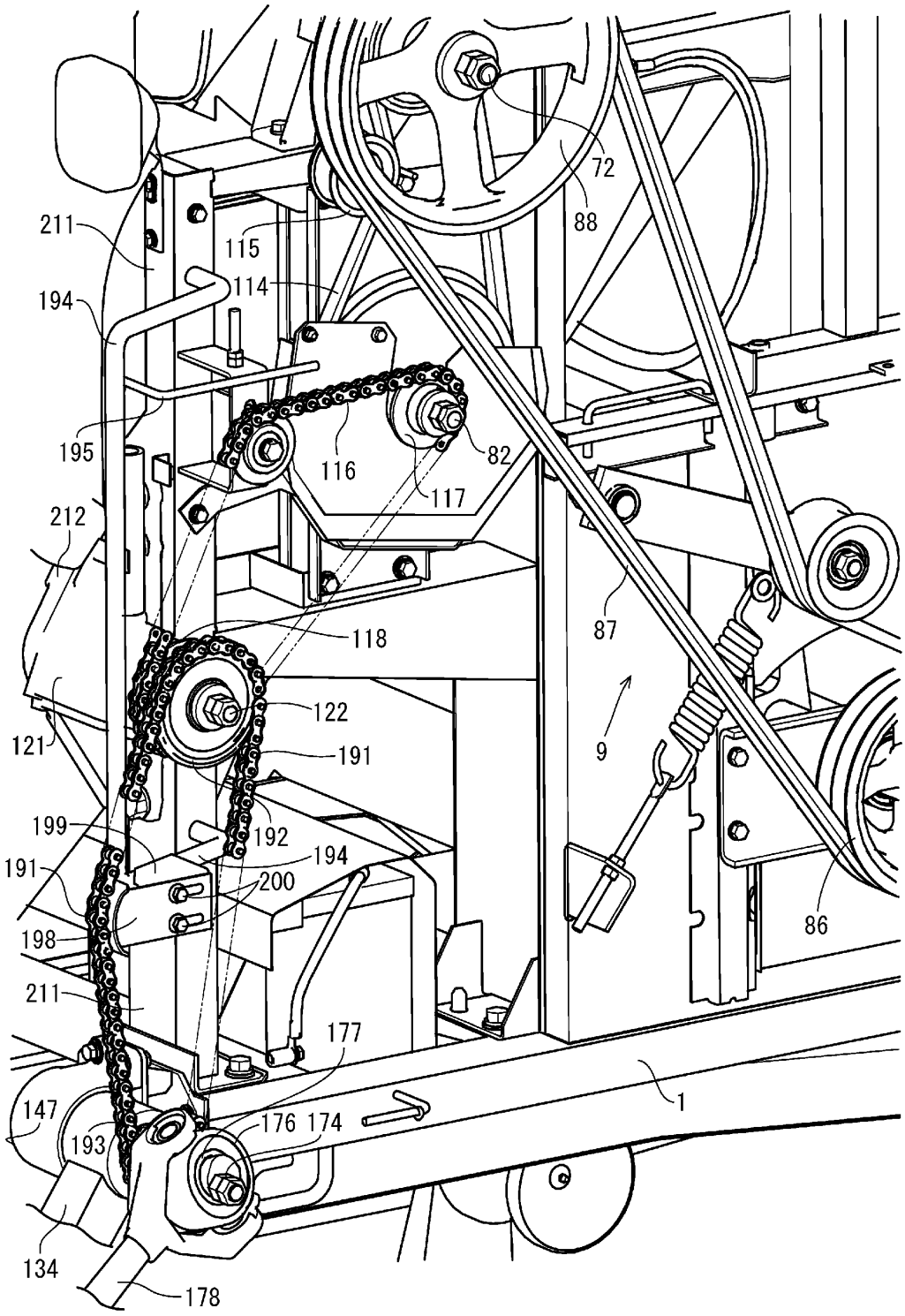
Family 100/667 - FAMPAT - ©Questel

Title

(WO201477317)

Combine harvester

Images



Publication data including kind & date

WO2014077317	A1	2014-05-22	WO201477317
JP2014100067	A	2014-06-05	JP2014100067
CN104780753	A	2015-07-15	CN104780753

Abstract

(WO201477317)

The present invention addresses the problem of providing a combine harvester configured so as to easily allow differentiation of use for work in which a second cutting blade (133) is necessary from work in which the second cutting blade (133) is unnecessary.This combine harvester is equipped with: a harvesting device (3) provided with a first cutting

blade (15); a threshing device (9) having a threshing cylinder (21); a traveling machine body (1) provided with an engine (7) and a driver seat (42); and a second cutting blade (133) for cutting the residual culms of the first cutting blade (15).A portion of the harvesting drive force is transmitted to the second cutting blade (133) via a second cutting blade drive chain (191).The combine harvester is configured so that operation of the clutch of a second cutting blade-driving mechanism (173) can be accomplished from outside the machine by disposing the second cutting blade-driving mechanism (173) on the outboard side of the drive path for the harvesting device (3).

Inventors

SATOU TAKAYASU

IRIE NOBUYUKI

HAYASHI JYUNJI

Latest standardized assignees - inventors removed

YANMAR

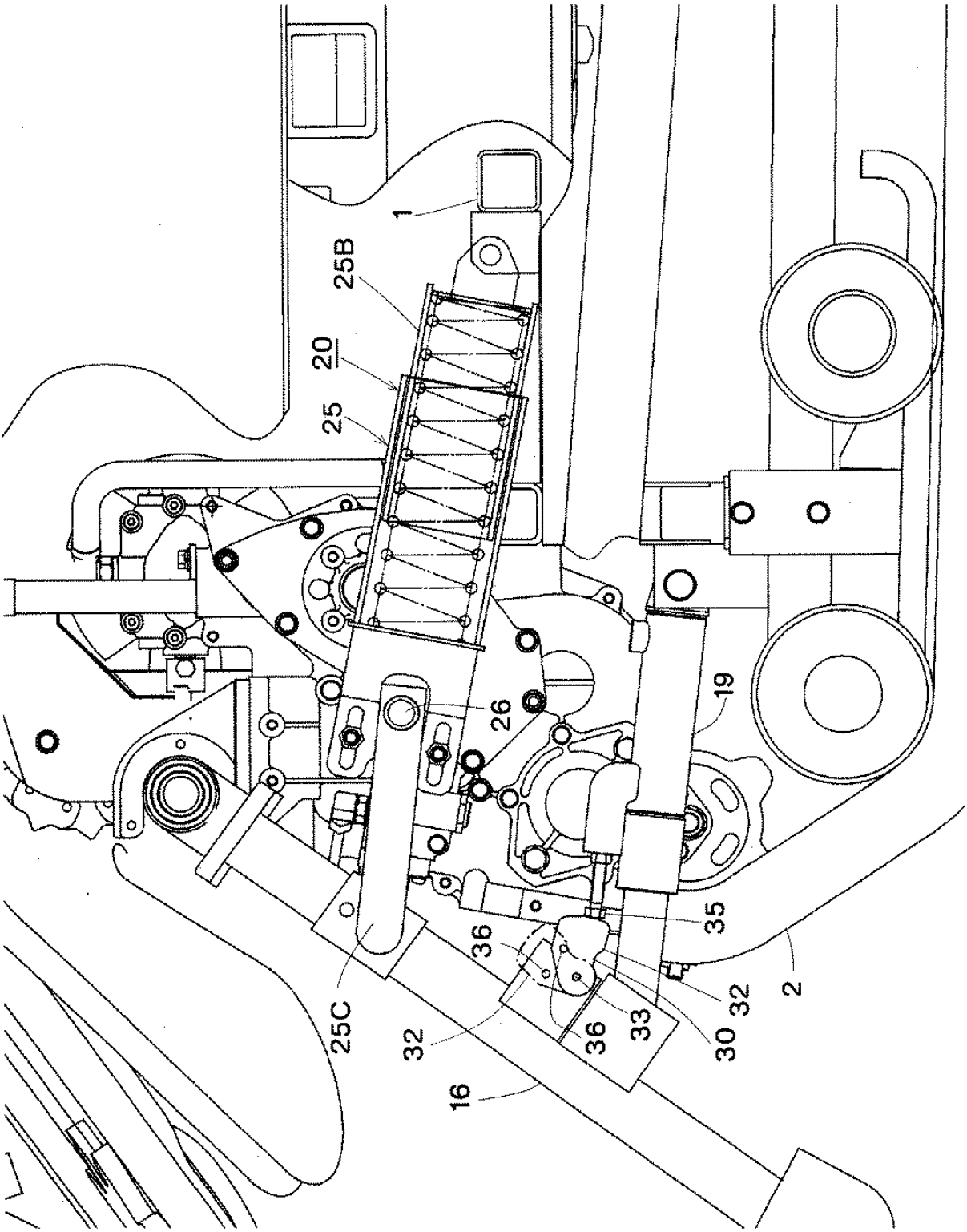
Family 101/667 - FAMPAT - ©Questel

Title

(JP2012152135)

Combine harvester

Images



Publication data including kind & date

JP2012152135 A 2012-08-16 JP2012152135

Abstract

(JP2012152135)

PROBLEM TO BE SOLVED: To solve the problem that in a constitution in which a combine harvester includes a drop regulation means for regulating the lowest drop position of a reaping apparatus or in a constitution to reduce the ground contact pressure of the reaping apparatus, the reaping apparatus may be brought into contact with a field.SOLUTION: The combine harvester includes a travel device 2 below a machine frame 1, a thresher 3 on the upper one side of the machine frame and the reaping apparatus 4 in front, which is supported vertically rotatably by a reaping support frame 16 and lifted and lowered by a reaping vertical cylinder 19.The combine harvester has an auxiliary urging means 20 that assists an upper evacuation of the reaping apparatus 4 when the reaping apparatus 4 is urged to a rising side and a sledge body 8B

mounted on the lower part of the reaping apparatus 4 is pushed up by the projection of a farm field, separately from the reaping vertical cylinder 19, and the drop regulation means 30 for regulating the lowest drop position of the reaping apparatus 4.The lowest drop regulation position by the drop regulation means 30 is changeable.

Inventors

SAKAMOTO NORIYUKI

Kazuya Okumura

Hiroshi Iwamoto

Latest standardized assignees - inventors removed

ISEKI

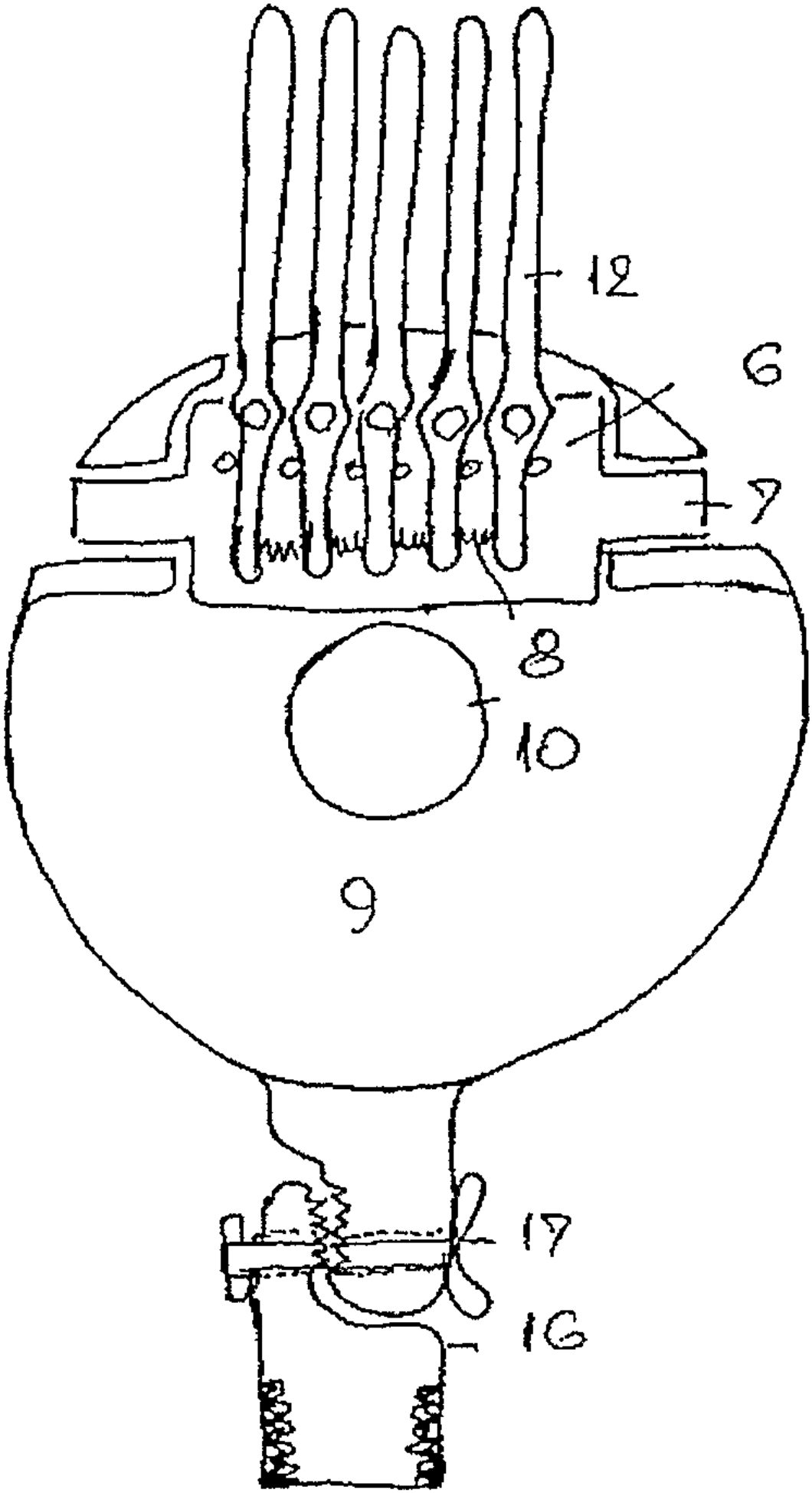
Family 102/667 - FAMPAT - ©Questel

Title

(WO200447517)

Olives and coffee beans harvester

Images


12
6
7
8
10
9
17
16

Publication data including kind & date

WO2004047517	A1	2004-06-10	WO200447517
AU2002350984	A1	2004-06-18	AU2002350984

Abstract

(WO200447517)

The olives and coffee beans harvester according to the invention is a device that, by its compact, light and flexible design and embodiment enables simple, quick and easy harvesting of pure fruits in all conditions.The finger prop (6) with fingers (12) that throws fruits into the receptacle (9) is mounted onto the receptacle (9).On the finger prop (6) there are axles (7) to connect with a battery-driven, motor-driven or hydraulic drive that provides required vibrations by horizontal oscillating movements.The slide joint (16), to which a telescopic stick of adjustable length is attached, enables the change of angle and height during the harvest.The opening at the bottom of the receptacle (9) and the flexible tube (10) provide that harvested fruits pass to the bag or collecting vessel.The elastic connection between fingers (12), provided by means of springs (8), enables easy passage of fingers (12) through the offshoots, and efficient harvesting of pure fruits.

Inventors

PERESA BARTOL

Latest standardized assignees - inventors removed

AGROKOLEKT D O O

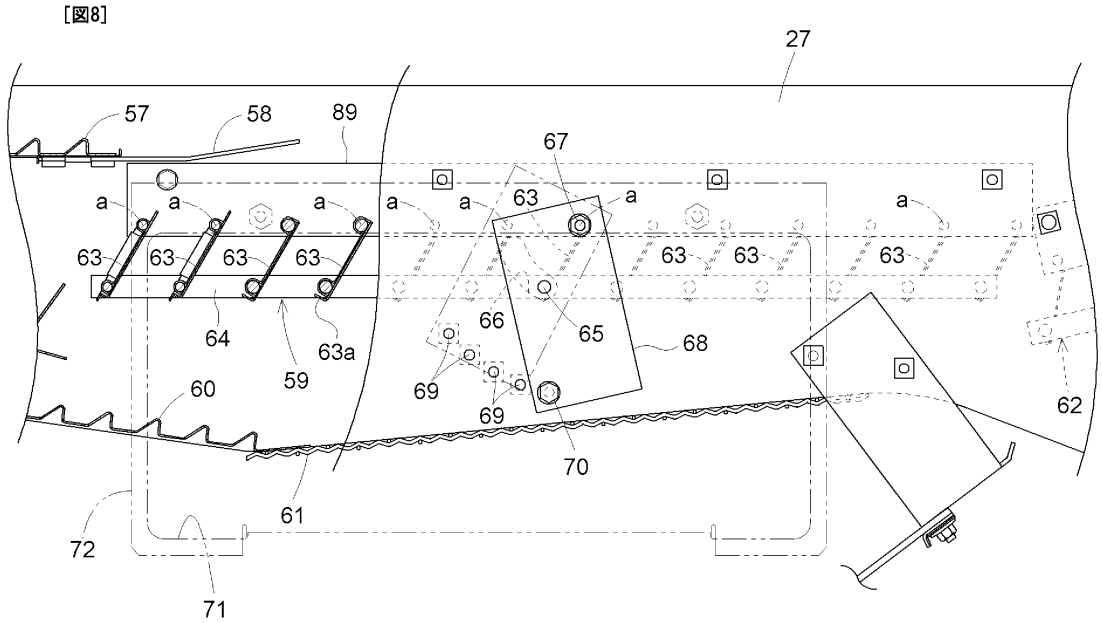
Family 103/667 - FAMPAT - ©Questel

Title

(WO201061668)

Combine

Images



Publication data including kind & date

WO2010061668	A1	2010-06-03	WO201061668
JP2010166885	A	2010-08-05	JP2010166885
JP2010172265	A	2010-08-12	JP2010172265
JP2010233476	A	2010-10-21	JP2010233476
IN6254/CHENP/2010	A	2011-05-27	IN2010CN06254
VN26397	A	2011-06-27	VN--26397
JP4769312	B2	2011-09-07	JP4769312

CN202077421	U	2011-12-21	CN202077421U
CN202535741	U	2012-11-21	CN202535741U
VN0013932	B	2015-05-25	VN--13932B
IN285242	B	2017-07-21	IN-285242

Abstract

(WO201061668)

A combine, wherein a chaff sieve (59), the degree of opening of which can be changed, is provided at a sorting section (26) of a threshing device (3). A support point shaft (67) is provided to a side portion of the chaff sieve (59), an operating shaft (65) which is connected to a support frame (64) which is pivotably supporting sorting plates is provided to the chaff sieve, an operating member (68) is connected between the support point shaft (67) and the operating shaft (65), and the operating member (68) is fixed to a side plate (27a) of a sieve case (27) through a positioning fixing member (70). By this, the support frame (64) is fixed to set the degree of opening of the chaff sieve (59).

Inventors

TANAKA YUJI
AZUMA TAIICHIROU
OKUDA SHIRO
INOUE YOSHIHIRO
YAMASHITA NAOKI
BUNNO YUICHI
TAKASAKI KAZUYA
HAYASHI SHIGEYUKI
MITSUI TAKAFUMI

Latest standardized assignees - inventors removed

KUBOTA

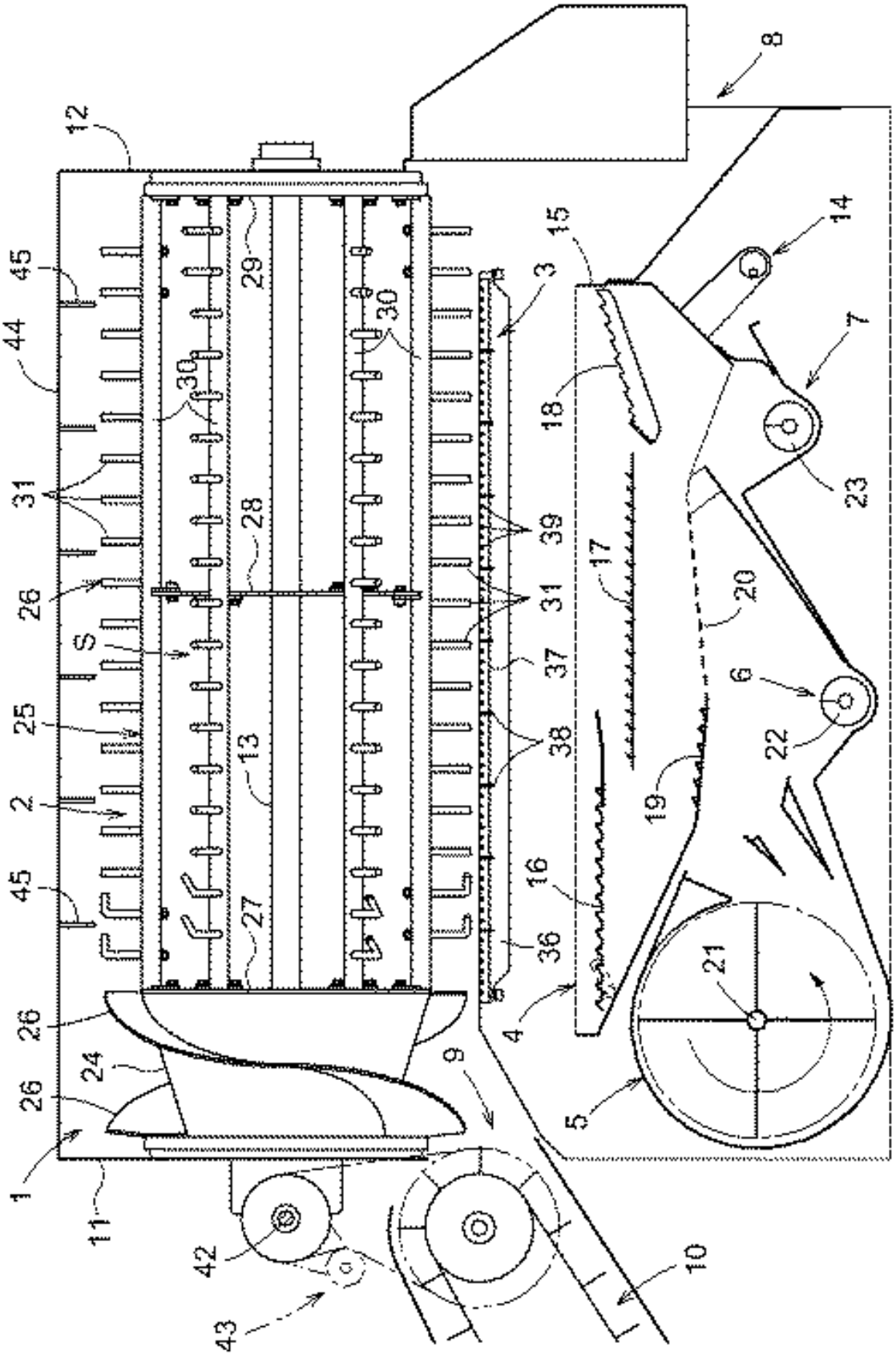
Family 104/667 - FAMPAT - ©Questel

Title

(JP2007174999)

Discharged culm-treating structure of whole culm-charging type combine harvester

Images



Publication data including kind & date

CN1895019	A	2007-01-17	CN1895019
JP2007020450	A	2007-02-01	JP2007020450
JP2007174999	A	2007-07-12	JP2007174999
JP2007175000	A	2007-07-12	JP2007175000
JP4413187	B2	2010-02-10	JP4413187
JP4484779	B2	2010-06-16	JP4484779

JP4488432	B2	2010-06-23	JP4488432
CN1895019	B	2011-08-03	CN1895019B
CN102239775	A	2011-11-16	CN102239775
CN102239774	A	2011-11-16	CN102239774
CN102239773	A	2011-11-16	CN102239773
CN102239774	B	2013-12-04	CN102239774B
CN103477811	A	2014-01-01	CN103477811
CN103493645	A	2014-01-08	CN103493645
CN103477811	B	2016-08-17	CN103477811B
CN103493645	B	2016-11-23	CN103493645B
CN102239773	B	2016-11-30	CN102239773B
CN102239775	B	2016-12-14	CN102239775B
CN106941862	A	2017-07-14	CN106941862
CN106973652	A	2017-07-25	CN106973652
CN107046953	A	2017-08-18	CN107046953
CN107094422	A	2017-08-29	CN107094422
CN107094442	A	2017-08-29	CN107094442
CN107094440	A	2017-08-29	CN107094440

Abstract

(JP4488432)

PROBLEM TO BE SOLVED: To favorably carry out fine cut and release of discharged culms while suppressing increase of load and cost up as a whole combine harvester and complication of constitution.

SOLUTION: In a discharged culms treating structure of whole culms-charging type combine harvester constituted so as to apply threshing treatment by charging whole reaped grain culms into a threshing apparatus 5, a plurality of threshing teeth 48 are aligned and arranged at prescribed intervals in the circumferential direction and longitudinal direction of a threshing cylinder 16 in a posture protruded from the threshing cylinder 16 toward the outside in the threshing cylinder 16 rotating by using longitudinal spindle 15 as a supporting point, and a plurality of culms-cutting blades 52 are installed so as to go from the outside of threshing teeth into spaces between rotative locus K of corresponding threshing teeth 48 in a fixed member 51 disposed on the outside of threshing cylinder 16 at prescribed intervals from rotative locus of threshing teeth 48.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

FUKUOKA YOSHITAKE

Latest standardized assignees - inventors removed

KUBOTA

Family 105/667 - FAMPAT - ©Questel

Title

(CN201479594U)

Multifunctional high efficiency harvester

Images

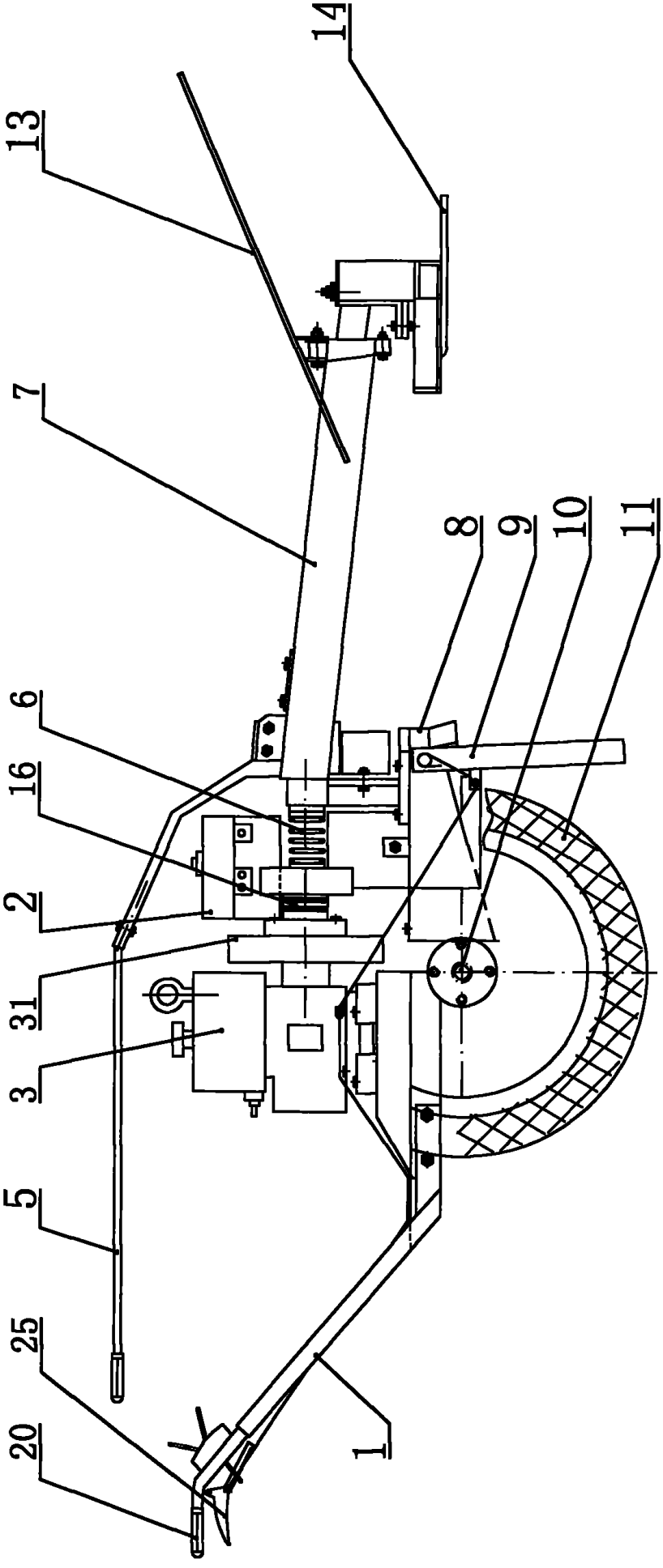


图 1

Publication data including kind & date

CN201479594 U 2010-05-26 CN201479594U

Abstract

(CN201479594U)

The utility model relates to a multifunctional high efficiency harvester comprising an operation rod, a stander, travelling wheels, a diesel engine, a slitting disc and a harvest operating rod.A rear axle differential is mounted between two travelling wheels; the power input end of the rear axle differential is in transmission connection with an output shaft of the diesel engine through a travelling transmission mechanism; the slitting disc is rotatably mounted at the front end of a slitting disc transmission mechanism; the rear end of the slitting disc transmission mechanism is rotatably connected with the front end of the stander through a longitudinal shaft; the rear end of the slitting disc transmission mechanism is in transmission connection with the output shaft of the diesel engine through a universal connector and a slitting disc clutch; and the front end of the harvest operating rod is connected with the rear end of the slitting disc transmission mechanism.The multifunctional high efficiency harvester has the characteristics of compact structure, light weight, small volume, simple operation, convenient transferring between fields, cleaning harvest, high production efficiency, safety, reliability, wide adaptability, simple and convenient maintenance and the like, and is suitable for sericulture farmers, cane plantation farmers and the like, especially suitable for families mainly doing sericulture and cane plantation and special service teams.

Inventors

ZHANG ZHILIANG

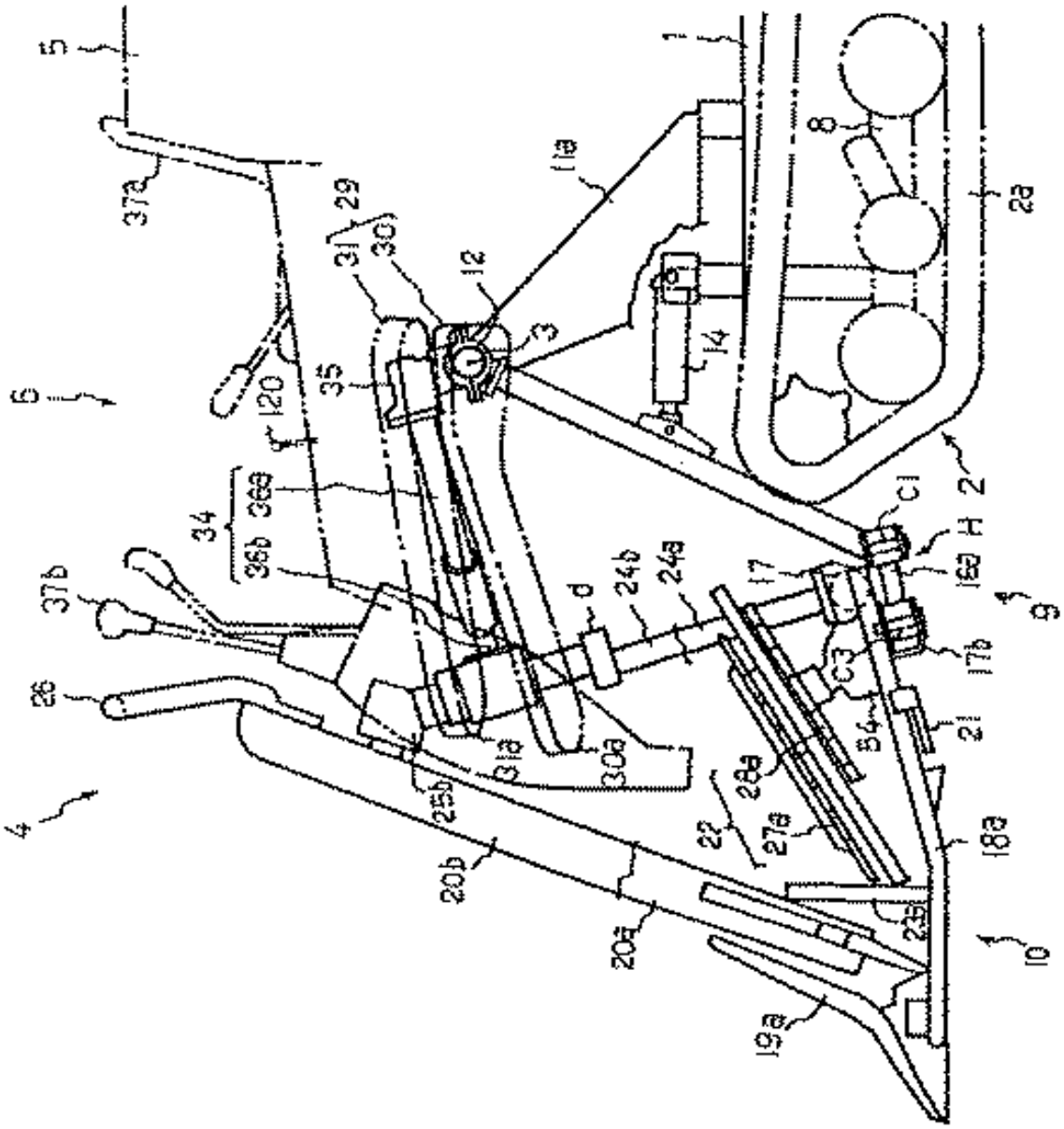
Family 106/667 - FAMPAT - ©Questel

Title

(JP2003333915)

Combined harvester

Images



Publication data including kind & date

JP2003333915	A	2003-11-25	JP2003333915
JP3847209	B2	2006-11-22	JP3847209

Abstract

(JP3847209)

PROBLEM TO BE SOLVED: To provide a combined harvester so improved that a transversely- driving unit 100 for a reaping unit front section 10 and a support structure therefor are made to be compact and rigidity of the support structure for the reaping unit front section 10 is ensured by the transversely-driving unit 100.

SOLUTION: In this combined harvester, a cylindrical driving case member 101 which is a part of transversely-driving unit 100 for transversely shifting the reaping unit front section 10 is fixed to the front end of a reaping main frame 13, a first support rod member 102 is extended from one end of the cylindrical driving case member 101, a second supporting rod member 103 is extended from the other end of the cylindrical driving case member 101, oscillating arms 16a, 16b are extended from top ends of the first support rod member 102 and the second support rod member 103, respectively, and both top ends of a pair of the oscillating arms are engaged with the reaping unit front section 10, so that the reaping unit front section 10 is supported.

COPYRIGHT: (C)2004,JPO

Inventors

KUSUSE YOSHIO

YABUKI MAKOTO

HAYASHI JUNJI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

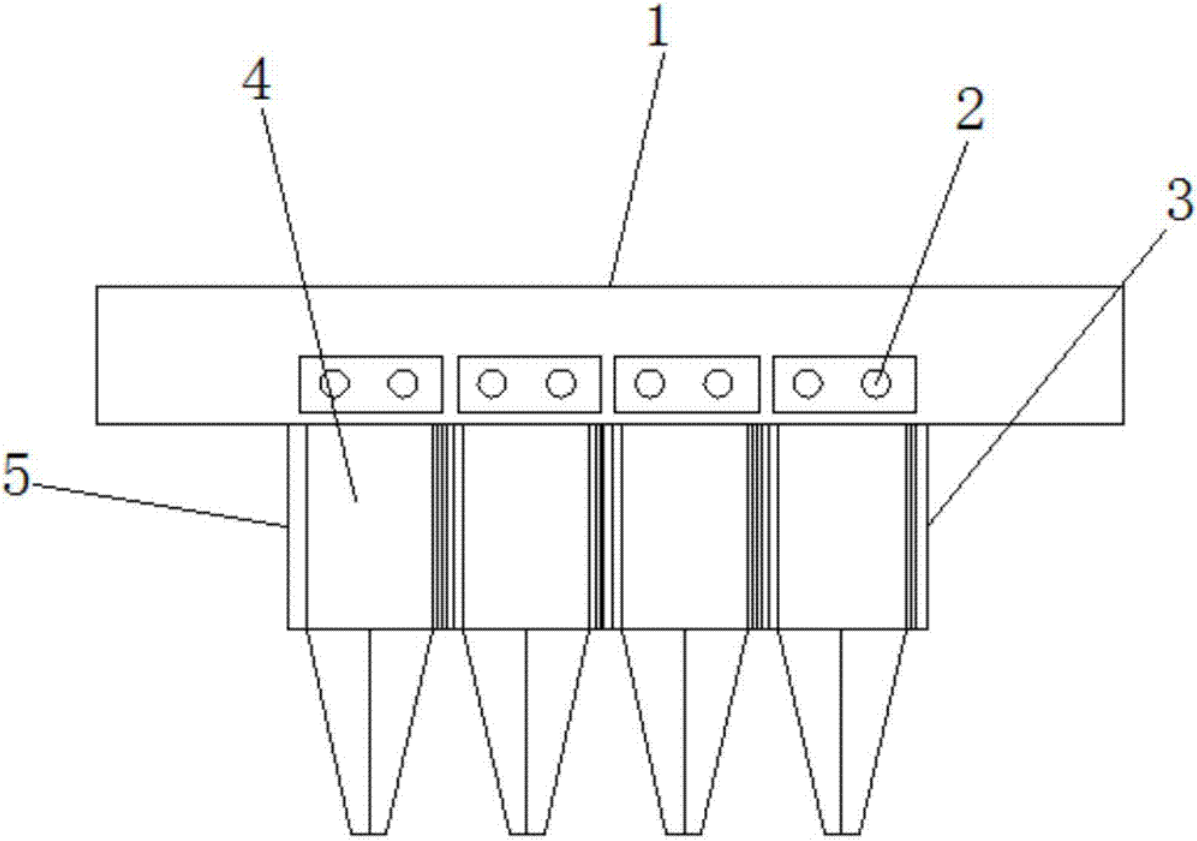
Family 107/667 - FAMPAT - ©Questel

Title

(CN107371549)

Adjustable digging shovel for root-tuber crop harvester

Images



Publication data including kind & date

CN107371549 A 2017-11-24 CN107371549

Abstract

(CN107371549)

The invention discloses an adjustable digging shovel for a root-tuber crop harvester.The adjustable digging shovel comprises an installation frame and digging shovel bodies, the digging shovel bodies are arranged at the bottom of the installation frame at equal intervals, and the installation frame is of a C-shaped structure; an installation head is fixedly arranged at one end of each digging shovel body, and the installation heads are movably arranged in the installation frame; nut holes are formed in one side face of the installation frame, cavities are formed in the side symmetric with the nut holes, an opening is formed in the side, close to the corresponding installation head, of each cavity and communicated with the installation frame, and two balance lifting devices are arranged in each cavity.According to the adjustable digging shovel, by forming multiple installation holes in the installation frame, a user can conveniently install a certain number of digging shovel bodies according to specific conditions in use; besides, by arranging first movable rubber anti-slip plates, under pressing of two anti-slip plates, the installation heads can be prevented from shaking in use after being installed.

Inventors

WU KAI

LIU FEI

ZHANG JIAN

LI CHENG

Latest standardized assignees - inventors removed

CHENGDU KECHUANGGU SCIENCE & TECHNOLOGY

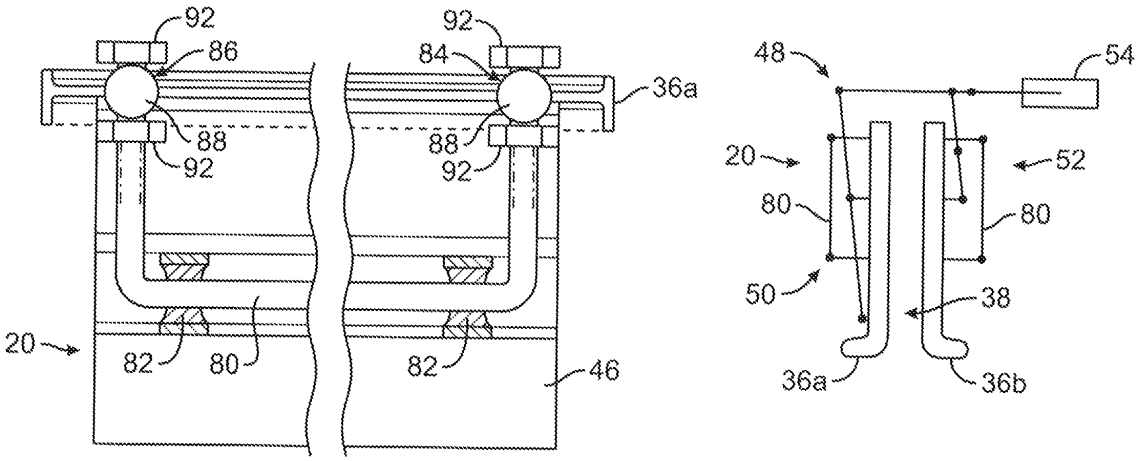
Family 108/667 - FAMPAT - ©Questel

Title

(EP3236737)

Adjustable row unit deck plate for a header of agricultural harvester

Images



Publication data including kind & date

US20160174462	A1	2016-06-23	US20160174462
WO2016106306	A1	2016-06-30	WO2016106306
BR112017013326	A1	2017-08-29	BR112017013326
US9750187	B2	2017-09-05	US9750187
CN107257620	A	2017-10-17	CN107257620
EP3236737	A1	2017-11-01	EP3236737
IN201717021605	A	2017-11-17	IN201717021605
BR112017013326	A2	2018-01-09	BR112017013326

Abstract

(EP3236737)

An adjustable row unit (20) for a header (12) of an agricultural harvester is disclosed.The row unit includes a movable deck plate (36a).The deck plate is connected to a row unit frame (46) extending in a fore and aft direction of the header.A pivot shaft (80) extends in the fore and aft direction and is pivotably connected to the row unit frame and the deck plate.A rocker assembly (52) connects the deck plate to the pivot shaft for enabling selective positioning of the deck plate relative to the row unit frame in a direction substantially transverse to the fore and aft direction and whereby parallelism between the deck plate (36a) and an opposing deck plate (36b) is maintained throughout the crop harvesting process.

Inventors

WALKER ERIC L

Latest standardized assignees - inventors removed

CNH INDUSTRIAL

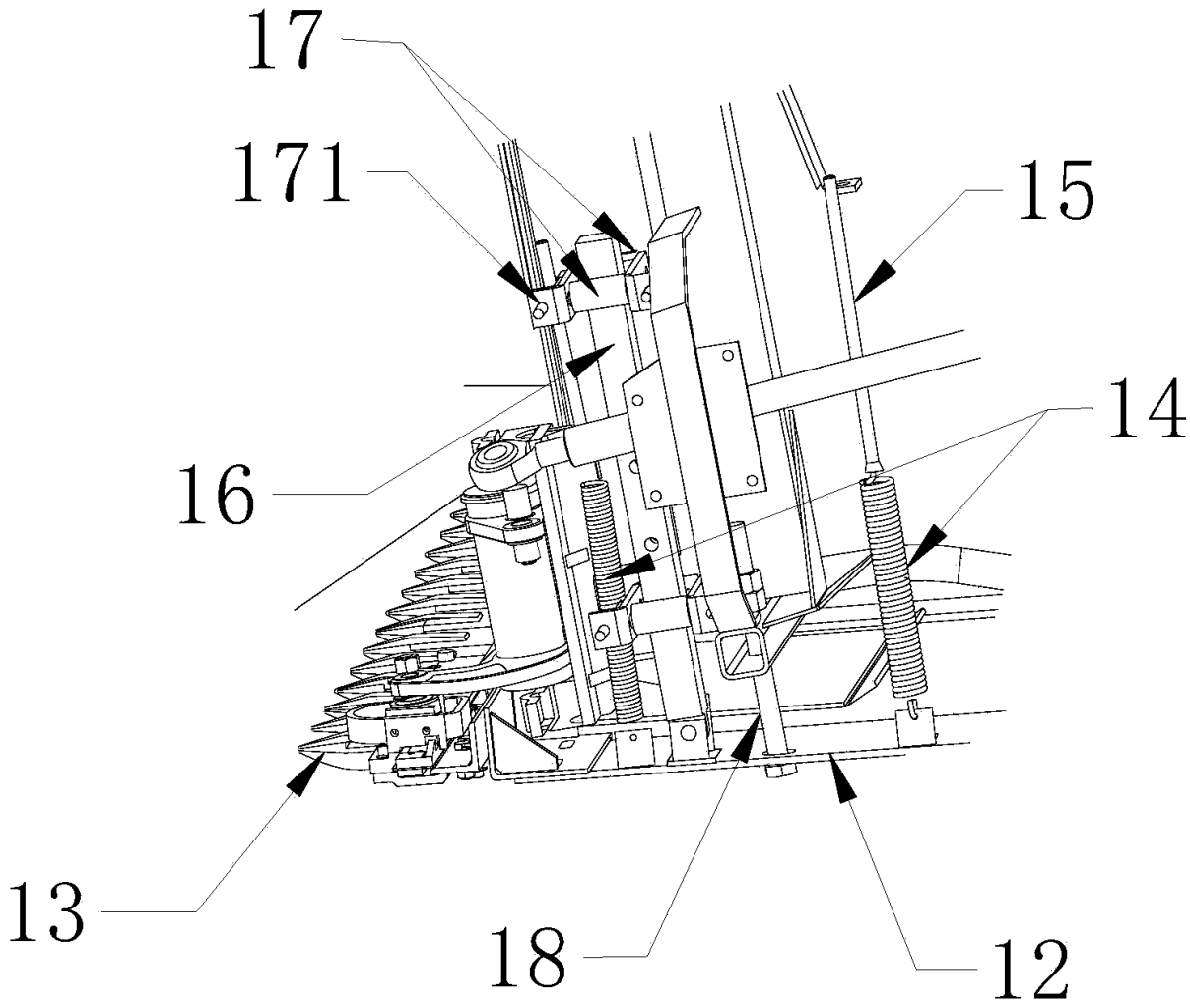
Family 109/667 - FAMPAT - ©Questel

Title

(CN204317035U)

Floating cutting table and combine harvester comprising floating cutting table

Images



Publication data including kind & date

CN204317035 U 2015-05-13 CN204317035U

Abstract

(CN204317035U)

The utility model provides a floating cutting table and a combine harvester comprising the floating cutting table.The floating cutting table comprises a fine adjusting floating mechanism, wherein the fine adjusting floating mechanism consists of a slide plate group, a plate spring group and a cutter floating assembly and comprises a tension spring, a guide rod and a rolling wheel group, the slide plate group is positioned at the bottom of the cutting table and comprises a plurality of large and small slide plates, one end of each plate spring is fixedly arranged on the slide plates, the other end of each plate spring extends towards the back lower side and is hinged onto a back main framework of the cutting table through a pin shaft, one end of the tension spring is fixedly arranged at one end, near the cutter, of the plate spring, the other end of the tension spring is hung on a front lower part main framework of the cutting table through a long screw bolt, one end of the guide rod is hinged onto the plate spring, the position of the upper part of the guide rod is limited in the rolling wheel group allowing the guide rod to vertically slide, and the rolling wheel group is fixedly arranged on the side wall framework of the cutting table.The floating cutting table provided by the utility model has the advantages that the production rate during the grain harvesting by the combine harvester is effectively improved, and the grain harvesting loss is reduced.

Inventors

LIANG SUNING

JIN CHENGQIAN

YONGSHENG,XIAO CHEN

NI YOULIANG

TANG ZONGYI

Latest standardized assignees - inventors removed

NANJING RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION MINISTRY OF AGRICULTURE OF THE

PEOPLE S REPUBLIC OF CHINA

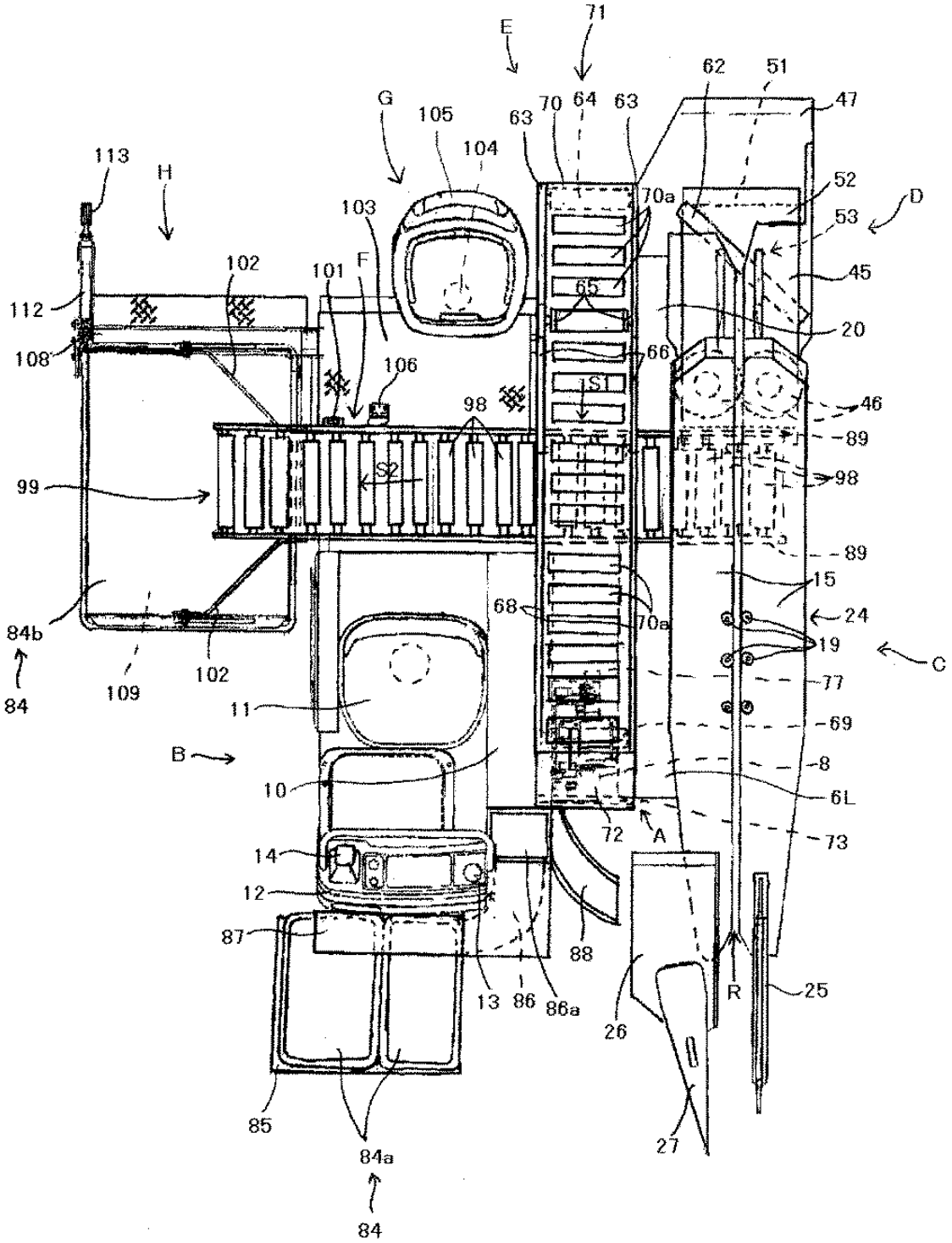
Family 110/667 - FAMPAT - ©Questel

Title

(JP2010124757)

Root vegetable harvester

Images



Publication data including kind & date

JP2010124757	A	2010-06-10	JP2010124757
JP5321019	B2	2013-10-23	JP5321019

Abstract

(JP5321019)

PROBLEM TO BE SOLVED: To provide a root vegetable harvester capable of performing both of the steering of a machine body and selection even by one person, and also having a high selection accuracy.

SOLUTION: This root vegetable harvester is constituted by installing a traveling device 6 at the lower part of a frame 20, installing a drawing out/conveying device 24 for drawing out crops and conveying in rear direction at the right and left one side of the frame 20, installing a steering part B equipped with a steering seat 11 at the right and left another side of the frame 20, installing a stem and leaf-cutting device 46 at the conveying end side of the drawing out/conveying device 24, installing a remaining leaf-treating device 53 for conveying the crops of which stem and leaf parts are cut off and treating the remaining leaves of the crops in the lower direction of the stem and leaf-cutting device 46, installing a first selecting/conveying conveyer 71 for conveying the crops by relaying from the remaining leave-treating device 53, installing a conveying device 77 for conveying by receiving the crops from the first selecting/conveying conveyer 71, installing a second selecting/conveying conveyer 99 for receiving the crops from the conveying device 77 and conveying by passing through the lower direction of the first selection/conveying conveyer 71 and the rear part of the steering part B to a housing part H, and installing a sub-working part G equipped with a sub-working seat 105.

COPYRIGHT: (C)2010,JPO&INPIT

Inventors

ODAGIRI HAJIME

TAKAGI SHINGO

Takanori Iwabe

Akira Yoshii

Latest standardized assignees - inventors removed

ISEKI

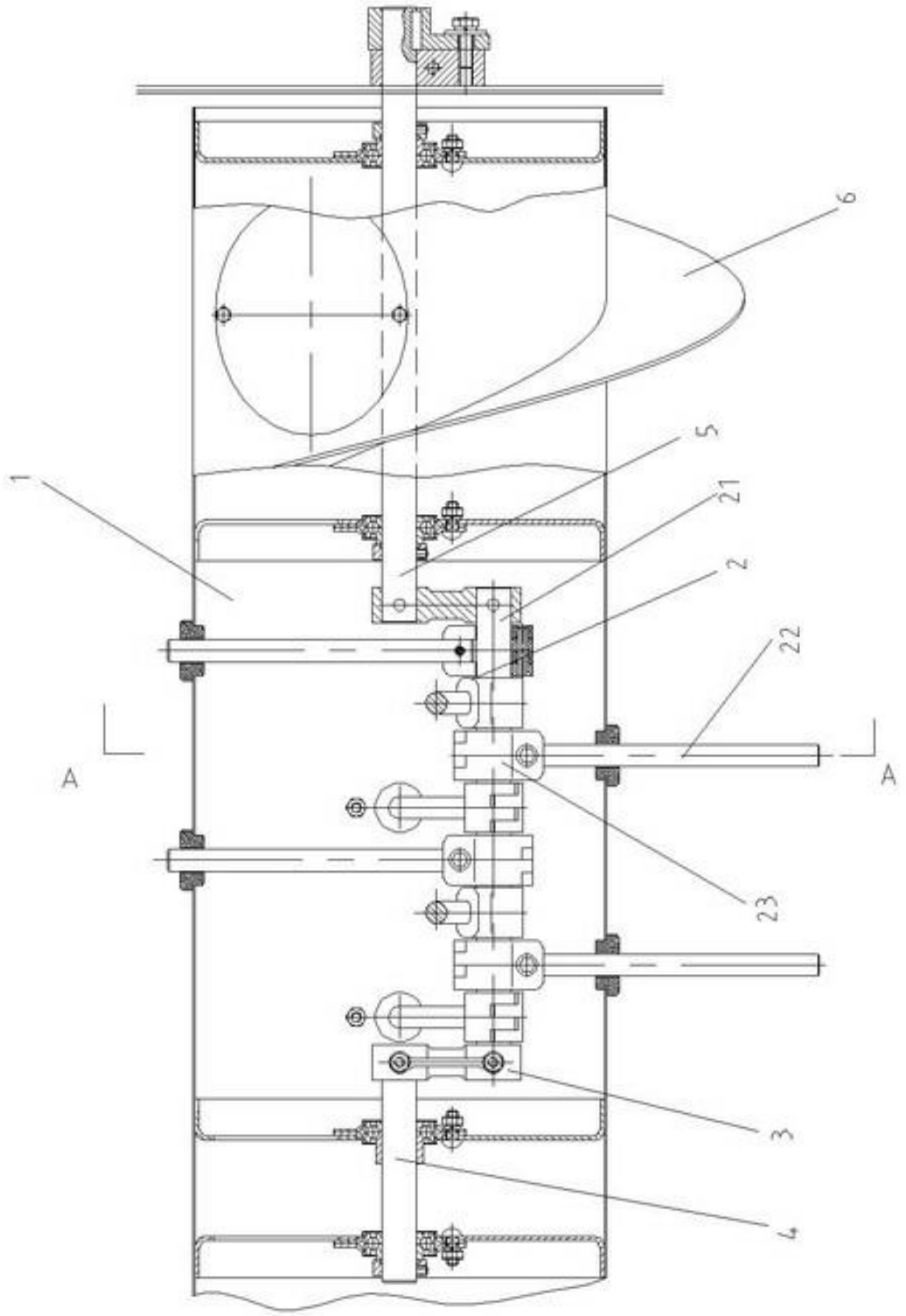
Family 111/667 - FAMPAT - ©Questel

Title

(CN201957467U)

Harvester cutting platform auger retractable gear fixing device

Images



Publication data including kind & date

CN201957467 U 2011-09-07 CN201957467U

Abstract

(CN201957467U)

The utility model discloses a harvester cutting platform auger retractable gear fixing device, comprising a retractable gear, a retractable gear hinged seat, a connecting bolt and a nut; the retractable gear hinged seat comprises two clamp-shape half hinged seats, one end of the two clamp-shape half hinged seats is hinged by round pin, the radial inner bore formed when two clamp-shape half hinged seats close is hinged with retractable gear axis; one end of the retractable gear stretches into the axial through-hole formed when the other end of the two clamp-shape half hinged seats is closed, and is

fixedly connected with the retractable gear hinged seat through the connecting bolt and the nut; the other end of the retractable gear penetrates the excircle of the auger expansion cylinder.The two clamp-shape half hinged seats of the utility model have the same shape, and good interchangeability.The retractable gear will not be loose or come off.The clamp-shape half hinged seats can be unfolded like the shape of the Chinese character ''yi (one)'', thus changing the retractable gear is very convenient.The nylon retractable gear seats are not only wear-resistant, but also not wearing down the retractable gear axis with long term operation.

Inventors

XING LICHENG

Latest standardized assignees - inventors removed

JIANGSU WORLD AGRICULTURAL MACHINERY

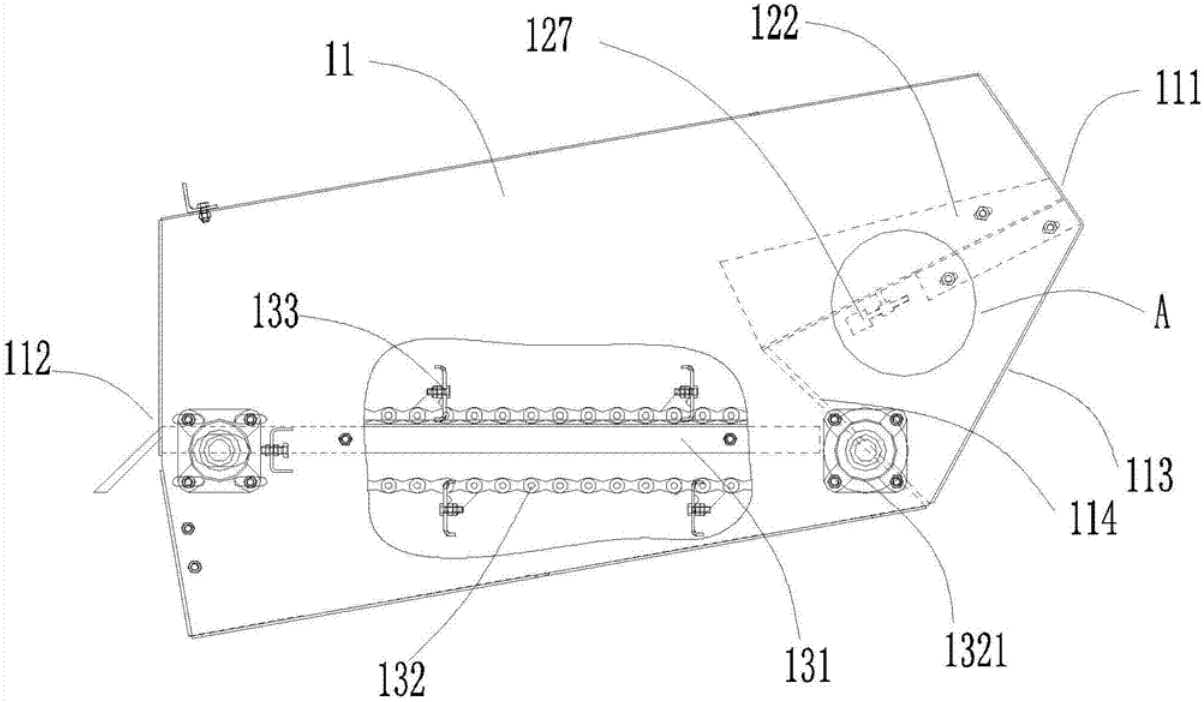
Family 112/667 - FAMPAT - ©Questel

Title

(CN207678284U)

A bright maize reaping apparatus for installing on autumn rice harvester

Images



Publication data including kind & date

CN207678284	U	2018-08-03	CN207678284U

Abstract

(CN207678284U)

The utility model discloses a bright maize reaping apparatus for installing on autumn rice harvester, the device can install on the peeler chassis of autumn rice harvester for the peeler assembly of replacement autumn rice harvester.The sieve that the device includes protecting sheathing, located protecting sheathing inside moves device and conveyor, set up feed inlet and the discharge gate can be simultaneously accepted with the lift conveyer export of autumn rice harvester and ear box's entry on protecting sheathing's the end plate respectively, the sieve moves the device, accepts and is the decurrent dustpan of slope form with the feed inlet inboard, and the filter base plate of its bottom goes up cloth has a plurality of filtration pores of crossing, and filter base plate's bottom isequipped with its reciprocating motion's of drive drive arrangement, conveyor follows feed inlet one side with bright maize and pushes the discharge gate to.The device can utilize autumn corn harvester to realize realizing to the reaping of bright maize that a machine is dual -purpose to solve the maize and reap the problem that investment cost is higher, impurity is many.

Inventors

XIA GAIFENG

JIANG JIANLIANG

Latest standardized assignees - inventors removed

HEBEI ZHONGNONG BOYUAN AGRICULTURAL EQUIPMENT

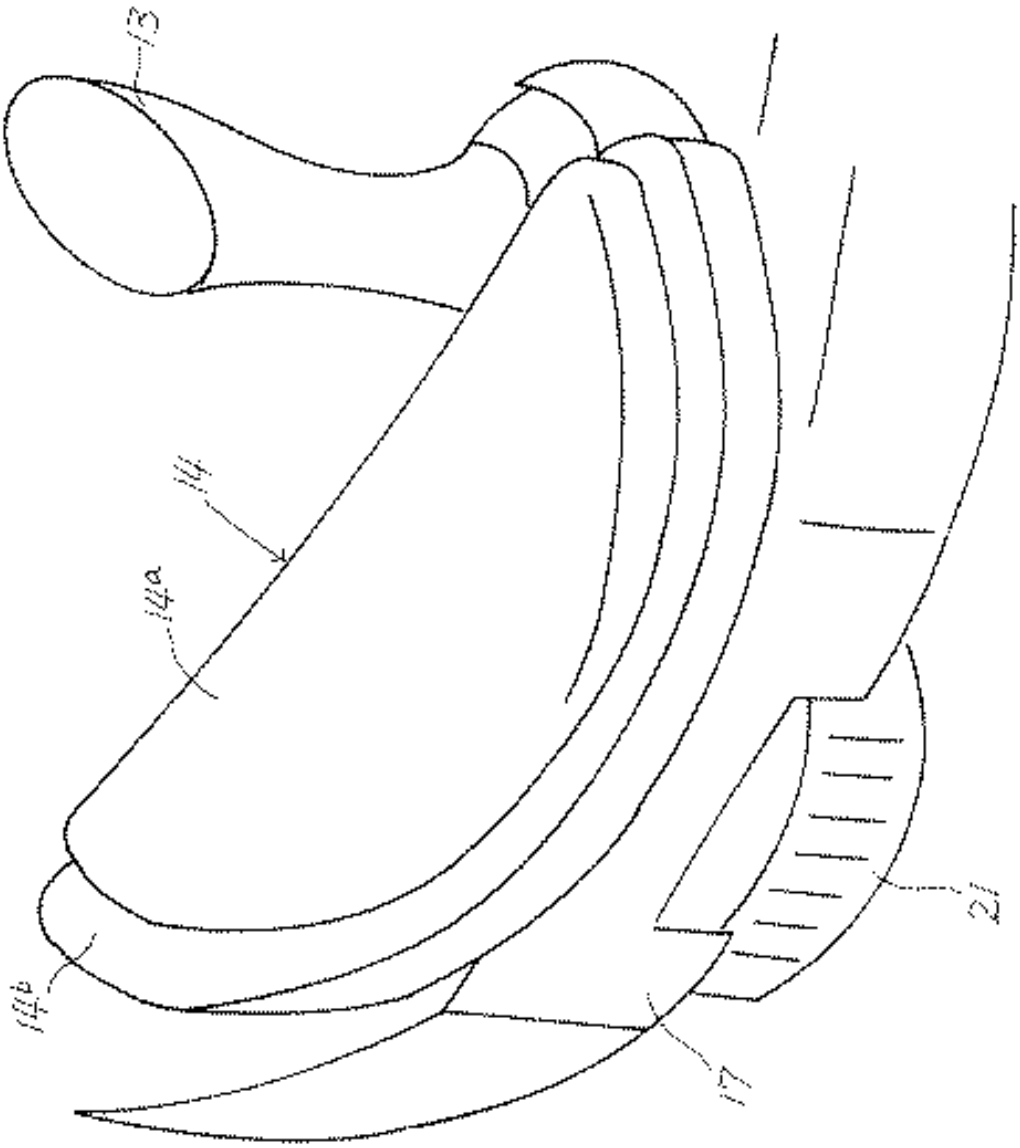
Family 113/667 - FAMPAT - ©Questel

Title

(JP2004161130)

Self-propelled vehicle

Images



Publication data including kind & date

KR20040022147	A	2004-03-11	KR20040022147
JP2004097056	A	2004-04-02	JP2004097056
JP2004161130	A	2004-06-10	JP2004161130
KR100479582	B1	2005-04-06	KR100479582
JP4042503	B2	2008-02-06	JP4042503
JP4264700	B2	2009-05-20	JP4264700

Abstract

(JP4264700)

PROBLEM TO BE SOLVED: To functionally arrange a hand rest and a rear view mirror for operating a power steering lever suitable for a self-propelled vehicle such as especially a small-size combine.

SOLUTION: A cockpit 20 is provided on a self-propelled type vehicle body, the power steering lever 10 to control to adjust the turning of the vehicle to the cockpit 20, the rear view mirror 32 is provided ahead of the power steering lever 10 on the right, and the hand rest 33 is provided at the rear of the power steering lever.The power steering lever can be operated with a hand remaining put on the hand rest 33.The rear view mirror 32 is supported by the vehicle body so as to rotate within vehicle body width when viewed in a plane.Accordingly, when working in the vicinity of a wall, the rear view mirror 32 can be easily put in, enabling work in such a state, and the self-propelled vehicle can be placed in a narrow barn.

COPYRIGHT: (C)2004,JPO

Inventors

FUJITA YASUSHI
OKADA TOSHIHIKO
UEJI YOSHITAKA
YAMAMOTO JIRO
AKAMATSU KATSUTOSHI
FUKUCHI KAZUNORI
NIIMI SHIZUO
KATO TAKESHI
HIRAYAMA HIDETAKA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

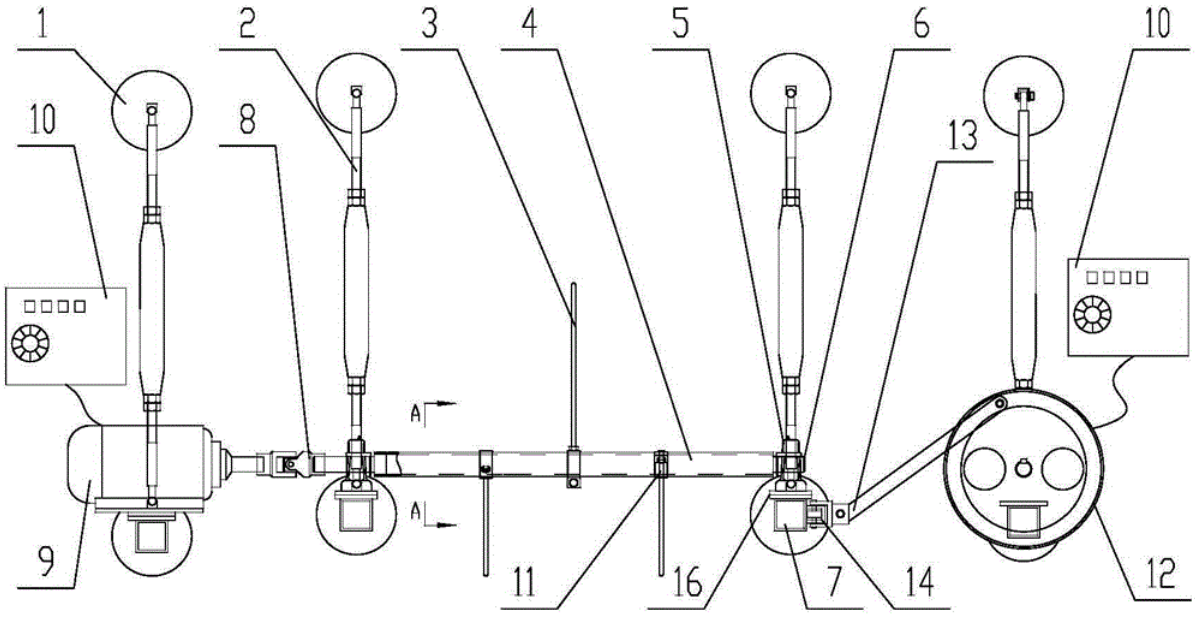
Family 114/667 - FAMPAT - ©Questel

Title

(CN205454622U)

Harvester is arranged grass and is prevented stifled device

Images



Publication data including kind & date

CN205454622	U	2016-08-17	CN205454622U

Abstract

(CN205454622U)

The utility model discloses a harvester is arranged grass and is prevented stifled device belongs to agricultural machine technical field, and its structure includes the transmission hollow shaft, installs a plurality of group tooth on the transmission

hollow shaft, dialling the tooth and being the heliciform along the axis direction of transmission hollow shaft and distributing, be reciprocating motion at its axis direction when the transmission hollow shaft is rotatory, the transmission hollow shaft drives dials the tooth motion, is equipped with the connecting device who is connected with the harvester on the transmission hollow shaft.The utility model discloses a tooth spiral drive to be dialled to the transmission hollow shaft changes and is reciprocating motion at the axis direction of transmission hollow shaft simultaneously, has increased and has shed the area, dial the tooth and transfer to the material of grass discharge port department, shed in real time, has effectively avoided grass discharge port department material with any pile up, stop up, and what guarantee product quality detection worked goes on smoothly.

Inventors

WEI YUANZHEN
XUE MING
MA XIAO
LIU QINGGUO
CHEN MINGCHUAN

Latest standardized assignees - inventors removed

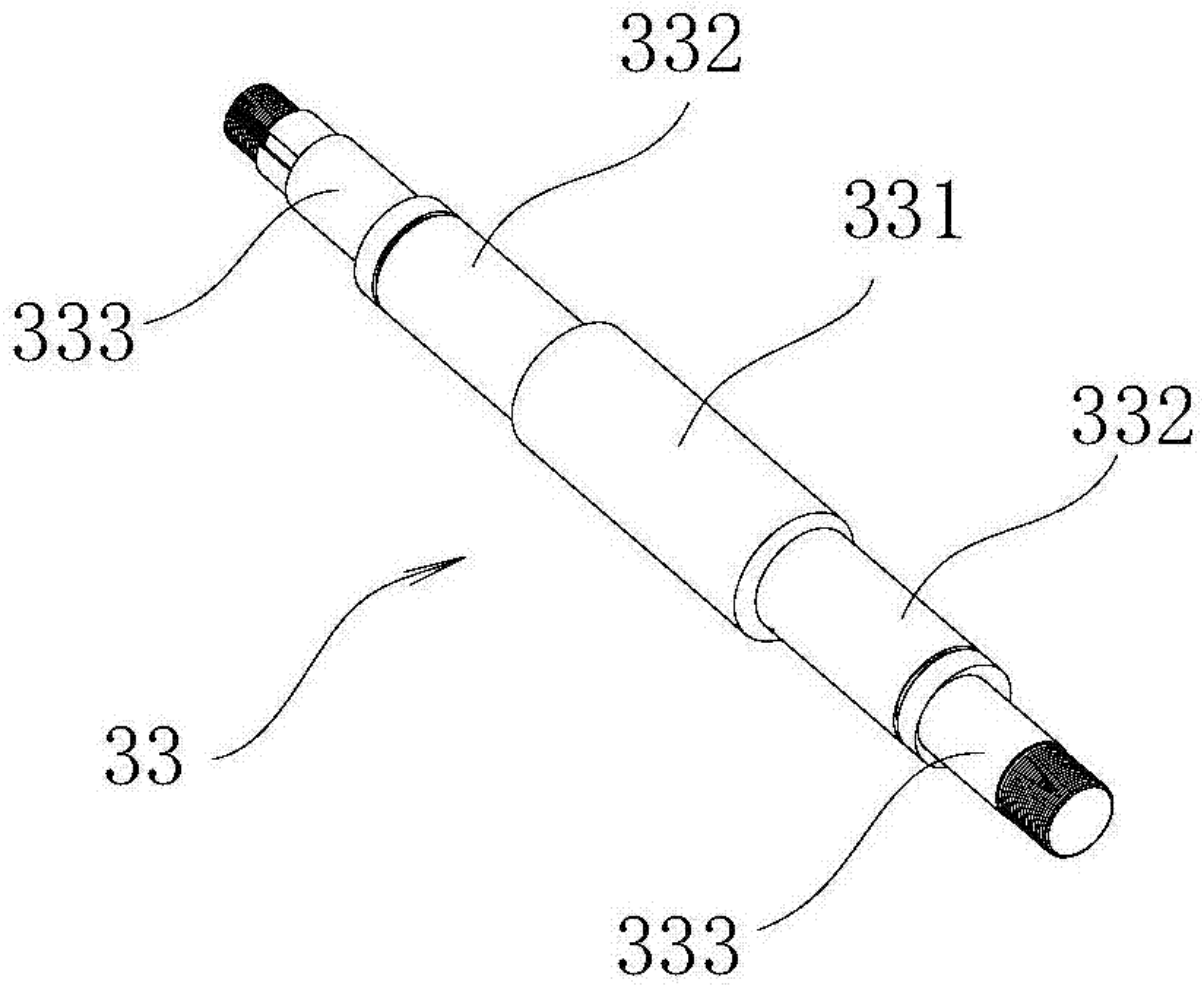
SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES

Family 115/667 - FAMPAT - ©Questel

Title

(CN108293402)
Radish harvester

Images



Publication data including kind & date

CN108293402	A	2018-07-20	CN108293402

Abstract

(CN108293402)

The invention relates to a radish harvester.The radish harvester is characterized in that a moving fame is connected with a traction mechanism; a leaf cutting mechanism, a root digging mechanism anda collecting mechanism are arranged along the front and rear ends, in the length direction, of the moving frame; the leaf cutting mechanism comprises a horizontal-sheet cutting knife, and the cuttingedge of the cutting knife is in the length direction of the moving frame; the root digging mechanism comprises two soil splitting plates, the two soil splitting plates are obliquely arranged along thefront and rear ends, in the length direction, of the moving frame, the front ends of the two soil splitting plates are higher than the rear ends, the two soil splitting plates are distributed in a splayed shape, and the ends, at the front end of the moving frame, of the soil splitting plates are large-spacing ends; the feeding end of the collecting mechanism is arranged below the rear ends of thetwo soil splitting plates, and the discharging end of the collecting mechanism is communicated with a feeding port of a bin.The cutting knife of the leaf cutting mechanism is used for cutting radishleaves, so that radish leaf cutting is made convenient; then, the two soil splitting plates of the root digging mechanism are used for digging out radishes.The harvester can significantly improve the radish harvesting efficiency.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED

Latest standardized assignees - inventors removed

LI CUIPING

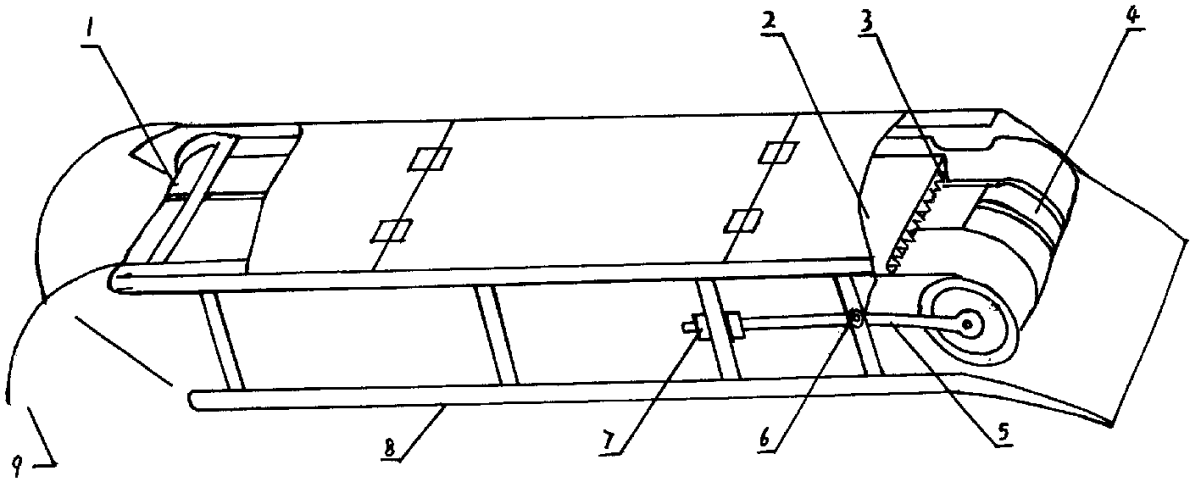
Family 116/667 - FAMPAT - ©Questel

Title

(CN2746736U)

High speed, grain wasting proof ytpe intermediate transporter of harvester

Images



Publication data including kind & date

CN2746736 Y 2005-12-21 CN2746736U

Abstract

(CN2746736U)

The utility model discloses a center delivery device for harvesters, which is positioned at the left side of the harvester and is connected with a header and a thresher.The center delivery device is composed of a hopper, a driving cylinder, a driven cylinder, a conveying belt and a regulating screw.The driving cylinder is arranged on the rear end of a machine frame, and the driven cylinder is arranged on a right and a left regulating screw in the front side of the machine frame, and the front side of the screw is provided with an eccentric wheel, and the rear side of the screw is provided with a regulating nut, and the rear end of the regulating screw is arranged on a vertical beam in the rear side.The center delivery device has reasonable design and compact structure, the dry wheat and the wet wheat have the same operation, the center delivery device does not need to spray the food, and the center delivery device has small noise and high efficiency in working.

Inventors

XIE GUANGDOU

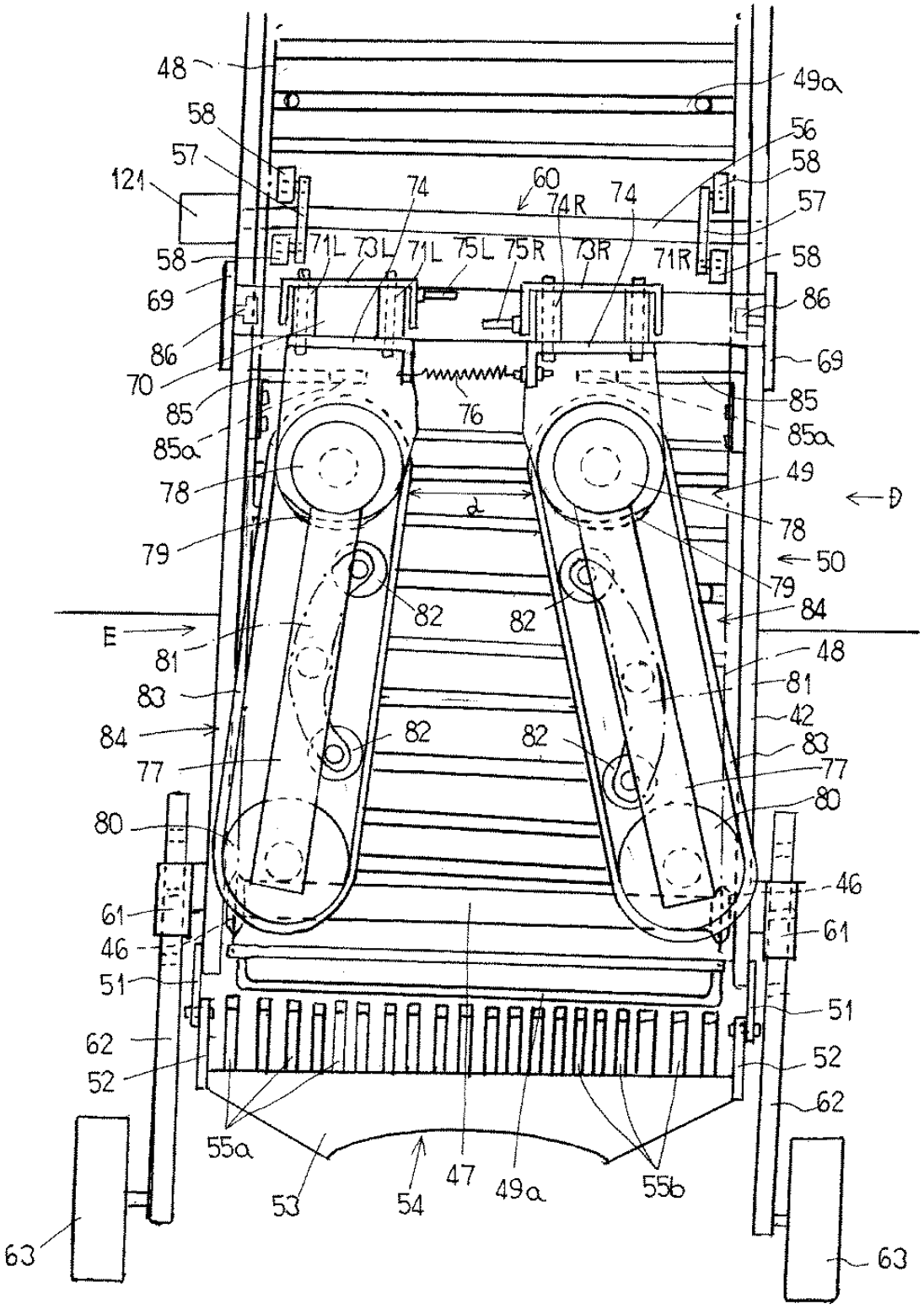
Family 117/667 - FAMPAT - ©Questel

Title

(JP2009153406)

Crop separating harvester

Images



Publication data including kind & date

JP2009153406	A	2009-07-16	JP2009153406
JP5245396	B2	2013-07-24	JP5245396

Abstract

(JP5245396)

PROBLEM TO BE SOLVED: To provide a digging harvester having a balanced machine body and enabling the digging work and separation work of crops in high efficiency.

SOLUTION: The crop separating harvester is provided with a traveling apparatus B to travel on a field, a digging and transporting apparatus D to dig up the crop T from the field and transport backward, a first separation apparatus E to separate the crop T during the transportation with the digging and transporting apparatus D, a second separation apparatus G to separate the crop T which is not separated by the first separation apparatus E, and a separating and transporting apparatus F receiving the separated crop T from the digging and transporting apparatus D and selectively transporting to the back of the machine body.The crop separating harvester is further provided with a first driving device 2 placed at the back and the right or left side of the machine body and supplying driving force to the traveling apparatus B, the second separation apparatus G and the lifting member 68 of the digging and transporting apparatus D, and a second driving device 9 placed in front of the machine body at a side opposite to the first driving device and supplying driving force to the digging and transporting apparatus D, the first separation apparatus E and the separating and transporting apparatus F.

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

ODAGIRI HAJIME

TAKAGI SHINGO

Takanori Iwabe

Kiyoshi Izumi

Latest standardized assignees - inventors removed

ISEKI

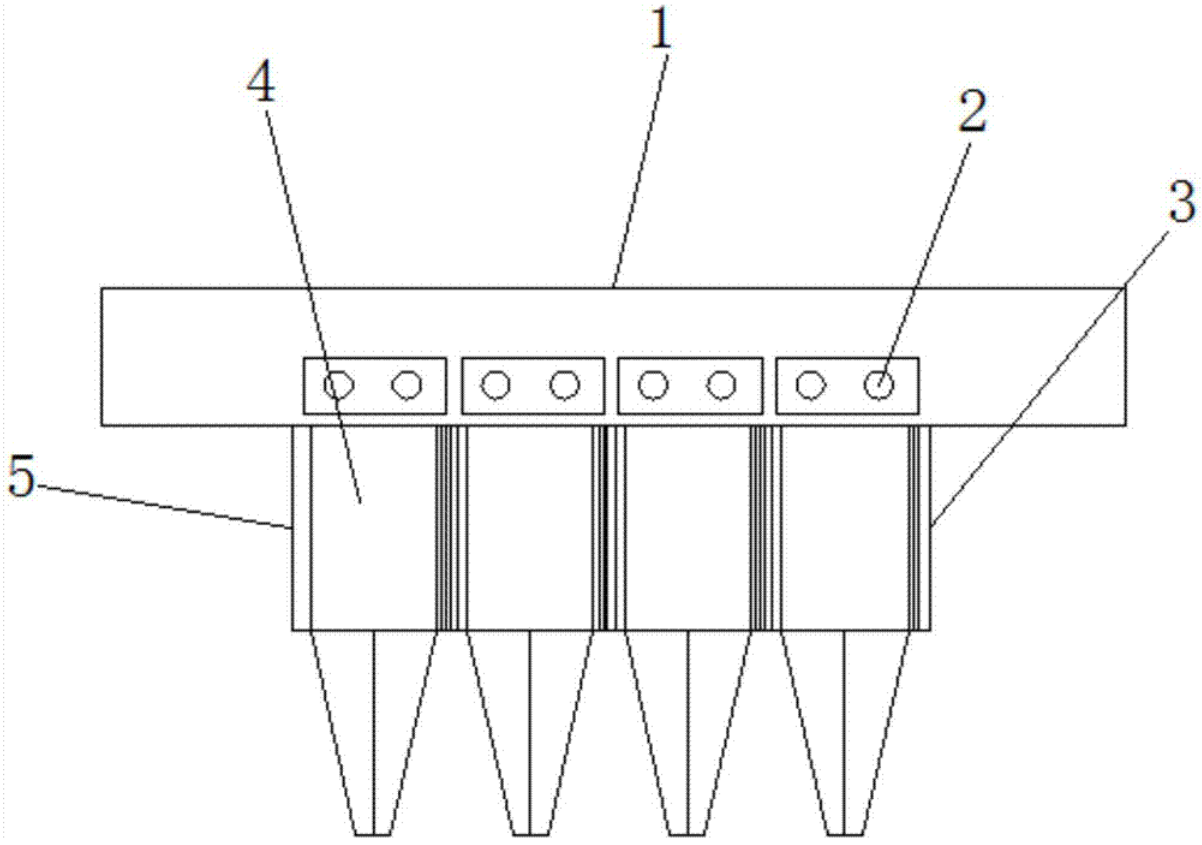
Family 118/667 - FAMPAT - ©Questel

Title

(CN207369604U)

Root -tuber crops is digger blade for harvester

Images



Publication data including kind & date

CN207369604	U	2018-05-18	CN207369604U

Abstract

(CN207369604U)

The utility model discloses a root -tuber crops is digger blade for harvester, including mounting bracket and digger blade main part, mounting bracket below equidistance is provided with the digger blade main part, and the C of mounting bracket shape structure, the fixed installation head that is provided with of one end of digger blade main part, and install first movable the setting in the mounting bracket, be provided with nut hole on the mounting bracket side, and has offered the cavity with one side of nut hole symmetry, is close to one side of installation head on the cavity and has seted up the opening, and the opening part communicates in the mounting bracket, be provided with two sets of balanced elevating gear in the cavity.The utility model discloses in, through setting up a plurality of mounting holes on the mounting bracket, can convenient to use person when using, quantity according to the particular case who uses installs the digger blade main part in addition through setting up the first rubber antiskid ribbed tile that can move about, makes the installation head can prevent to rock when using through two rubber antiskid ribbed tile extrusion after the installation.

Inventors

WU KAI
LIU FEI
ZHANG JIAN
LI CHENG

Latest standardized assignees - inventors removed

CHENGDU KECHUANGGU SCIENCE & TECHNOLOGY

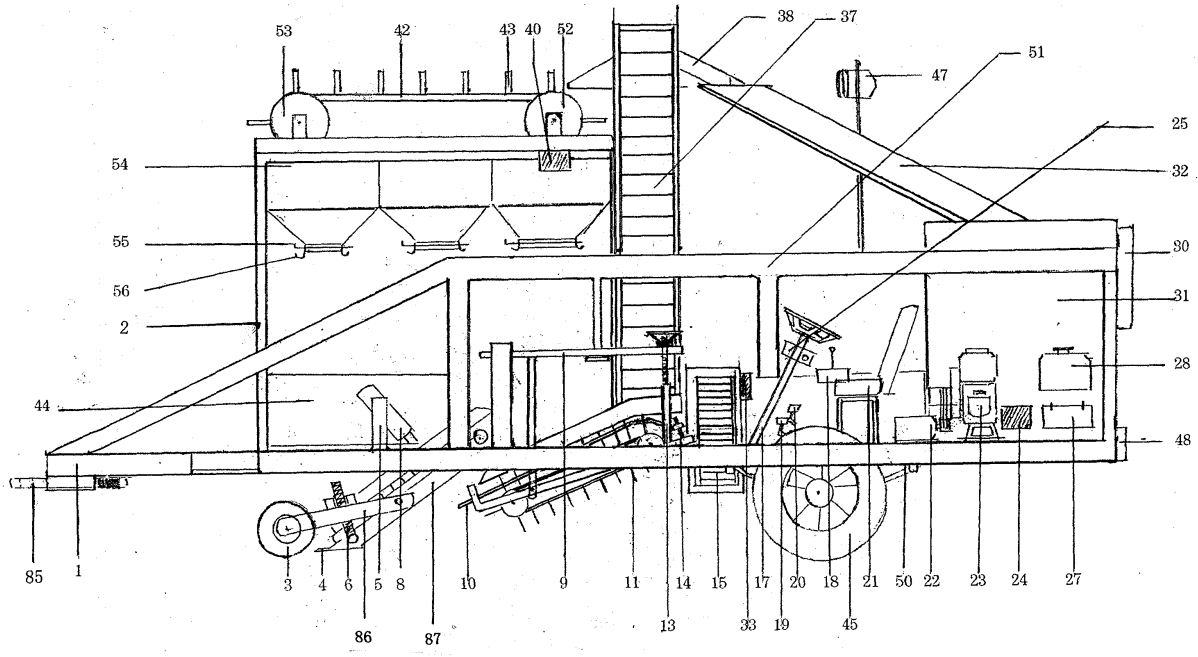
Family 119/667 - FAMPAT - ©Questel

Title

(CN103503627)

Multifunctional trail-type potato combine harvester

Images



Publication data including kind & date

CN103503627 A 2014-01-15 CN103503627

Abstract

(CN103503627)

Disclosed is a multifunctional trail-type potato combine harvester.The multifunctional trail-type potato combine harvester is characterized by comprising a harvesting machine frame [1], a digging shovel [4], a lifting conveyer belt [7], a separation machine frame [59], a stretchy connector [36], a vertical elevator [37], a three-item plug board sliding channel bucket [38], a sub machine box [46], an externally-hanging folding conveyer belt [39], a potato collection box [31], a diesel engine [23], a

gear pump [24], a distributor [18], a hydraulic motor [33] and the like.The multifunctional trail-type potato combine harvester is used for harvesting potatoes, and meanwhile most stone impurities on the surface layer of farmland can be picked out; manual work is saved, mechanical operation is achieved, and the working efficiency is high; the function is complete.By means of the multifunctional trail-type potato combine harvester, the functions of digging, impurity separating, impurity collecting, potato classifying, bagging, side-output truck loading joint operation, placing and stacking and the like can be achieved at one time, and thus one harvester can achieve multiple purposes.When being not used for harvesting potatoes, the multifunctional trail-type potato combine harvester can be used for conducting the soil sanitation operation alone before spring sowing and after autumn harvest.Independent power output can be achieved.After entering the harvester, the potatoes can not make contact with a chain, and therefore the defects that the length of the chain is increased so that soil leakage can happen and the chain is forcibly vibrated by an eccentric gear so that potato skin can be damaged are overcome.

Inventors

LI WEIJIA

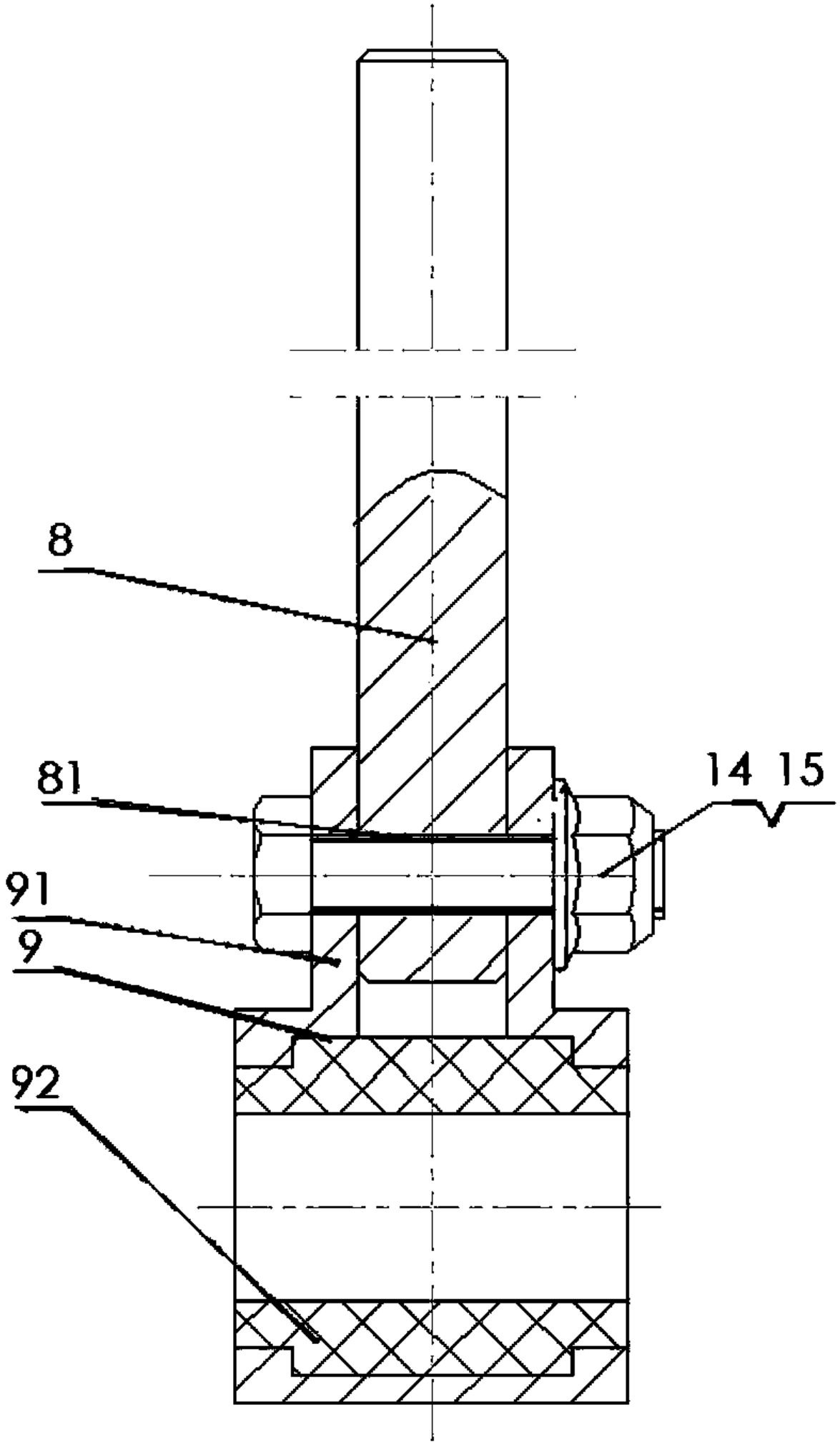
Family 120/667 - FAMPAT - ©Questel

Title

(CN203691979U)

Feeding auger flexible teeth fixation structure of harvester

Images


8
81
14 15
91
9
92

Publication data including kind & date

CN203691979 U 2014-07-09 CN203691979U

Abstract

(CN203691979U)

The utility model discloses a feeding auger flexible teeth fixation structure of a harvester, which comprises flexible teeth, a flexible teeth base and an auger roller, wherein the flexible teeth are inserted into a through hole which is coaxial with the flexible teeth base and disposed on the flexible teeth base and are firmly connected; the insertion end of the flexible teeth is the fixation end of the flexible teeth and the fixation end of the flexible teeth is equipped with an inner threaded hole which is perpendicular to the fixation end axially; and coaxial through holes with the same sizes are disposed on the flexible teeth base and at positions corresponding to two ends of the inner threaded hole, and the flexible teeth and the flexible teeth base realize fixed connection by bolts and nuts at positions of the corresponding inner threaded hole and the through holes on both sides.In the utility model, the flexible teeth and the flexible teeth base have simple structures, the flexible teeth base is firmly connected to the threaded hole on one end of the flexible teeth, the flexible teeth will not be loosened or separated from the flexible teeth base because of centrifugal force during rotation of the flexible teeth, and the structure is safe and reliable.

Inventors

ZHAN BIAO

Latest standardized assignees - inventors removed

CHERY HEAVY INDUSTRY

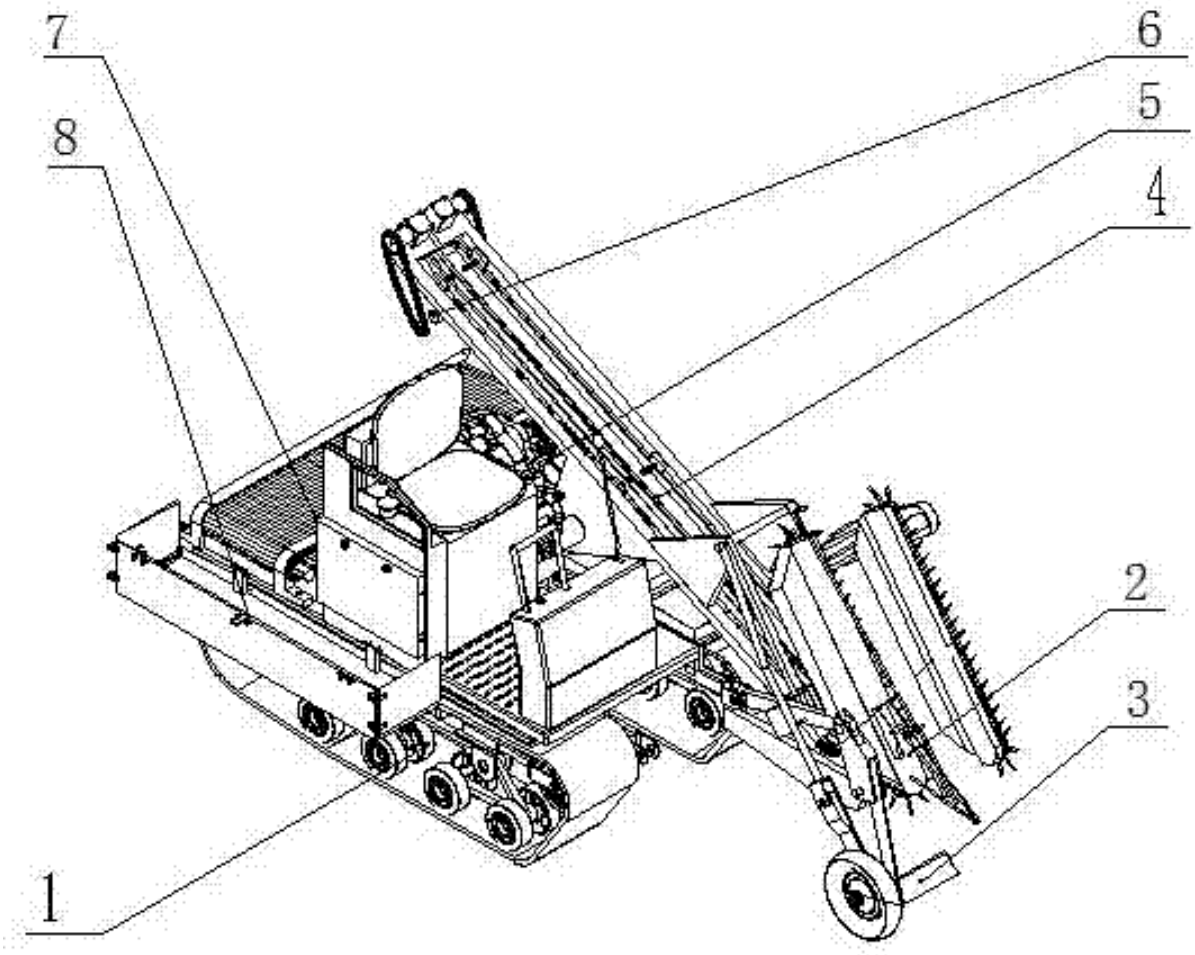
Family 121/667 - FAMPAT - ©Questel

Title

(CN107750576)

Self-propelled garlic combine harvester

Images



Publication data including kind & date

CN107750576 A 2018-03-06 CN107750576

Abstract

(CN107750576)

The invention relates to a self-propelled garlic combine harvester, which comprises a chassis, an excavating device, a straw pulling and dividing device, a clamping and conveying device, a garlic bulbconveying device, a collection device and an aligning and root cutting device; a seedling cutting device is installed on a total frame of the clamping and conveying device; and the aligning and rootcutting device is arranged in front of the seedling cutting device and is fixed on the bottom surface of the total frame.The self-propelled garlic combine harvester provided by the invention can finish excavation, soil removal, root cutting, conveying and collection of garlic in a single row at one time, can be adapted to and satisfy different row spacing, can regulate an inclined angle between astraw dividing device and the ground according to different planting modes and growth conditions of the garlic to be adapted to the garlic in different specifications, and can regulate an inclined angle of a clamping device according to different work needs.By adopting the self-propelled garlic combine harvester provided by the invention, a clamping and depth control soil removal device adopts two clamping belts, so that contact areas of the clamping belts and garlic seedlings are increased, and damages to the garlic seedlings by the clamping belts are avoided; and the size and the space occupied by the collection device during walking can be reduced through folding.

Inventors

HOU JIALIN

WANG LIYUAN

LI YUHUA

LIU XIAO

Latest standardized assignees - inventors removed

SHANDONG AGRICULTURAL UNIVERSITY

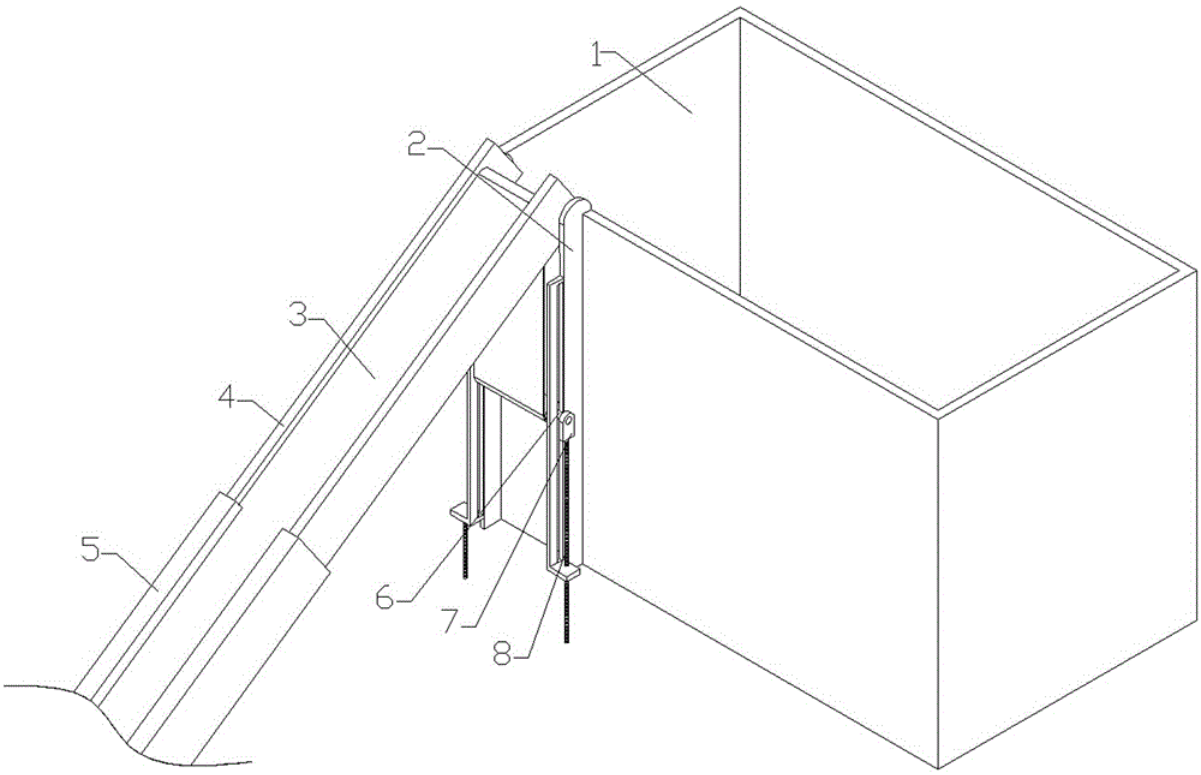
Family 122/667 - FAMPAT - ©Questel

Title

(CN205284183U)

Small -size grain harvester combine

Images



Publication data including kind & date

CN205284183 U 2016-06-08 CN205284183U

Abstract

(CN205284183U)

The utility model provides a small -size grain harvester combine, belongs to agriculture harvester apparatus equipment technical field, including collection box, fixed riser, fixed swash plate, conveyer belt, flexible swash plate, activity pivot, connecting block, threaded rod, and its characterized in that: the fixed riser of each fixedly connected with of bilateral symmetry of top surface right hand edge department before the collection box, the fixed swash plate of the inboard top surface top fixedly connected with of edge of fixed riser, top surface cartridge has flexible swash plate under the fixed swash plate, fixed swash plate with flexible swash plate is by the mutual fixed connection of conveyer belt, every each cartridge of fixed riser side top surface the place ahead edge has activity pivot, every each fixed cartridge of activity pivot side top outside of surface edge has connecting block, every the fixedly connected with of department threaded rod in the middle of the surface of top under the connecting block, can be at any time with the flexible length that changes of the swash plate on the harvester, can make the harvester install on the tractor of equidimension model not.

Inventors

PENG XIA

Liu Tao

Latest standardized assignees - inventors removed

SHIHEZI UNIVERSITY

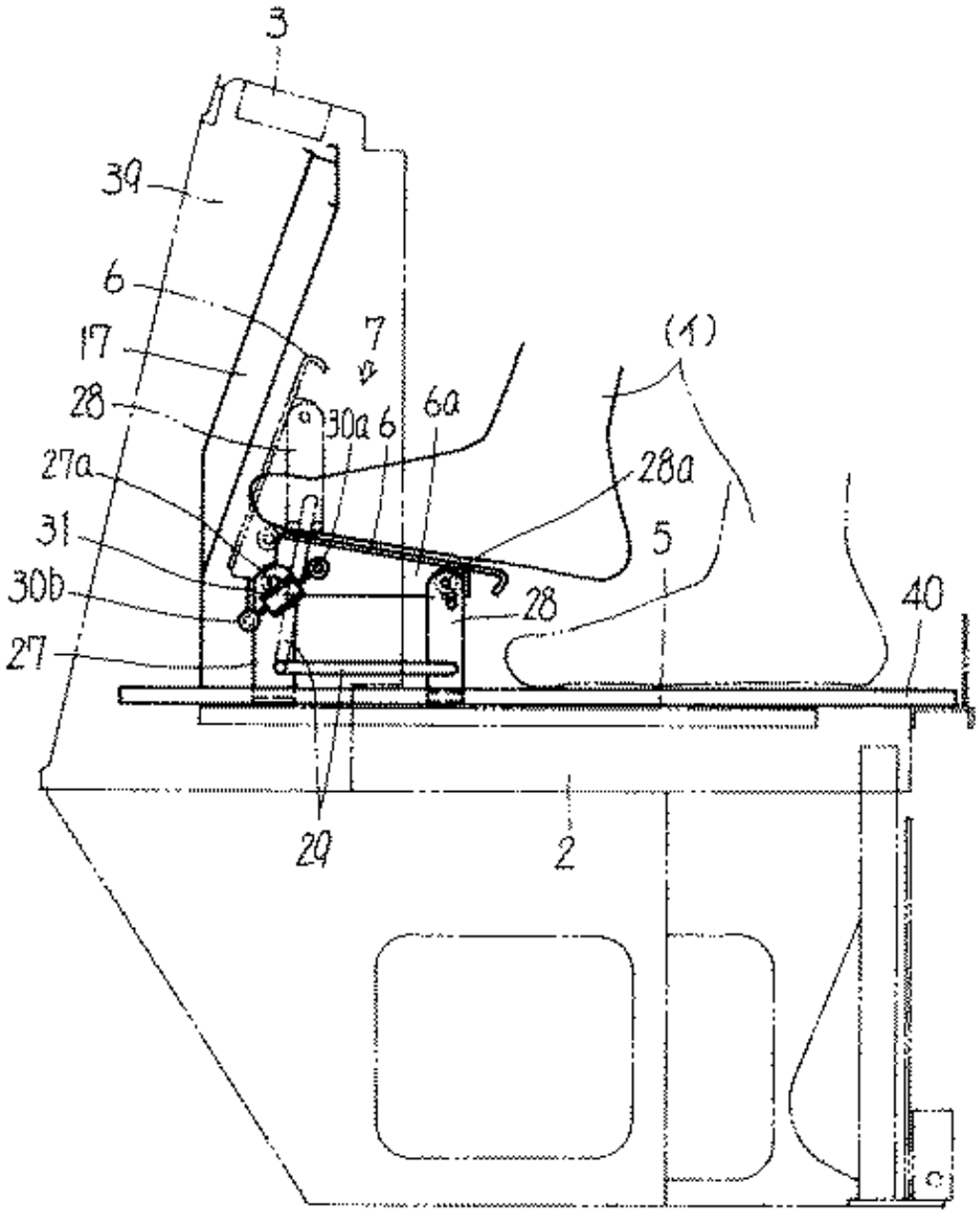
Family 123/667 - FAMPAT - ©Questel

Title

(JP2001069843)

Storable type footstool device for combine harvester

Images



Publication data including kind & date

JP2001069843	A	2001-03-21	JP2001069843
JP3826630	B2	2006-09-27	JP3826630

Abstract

(JP3826630)

PROBLEM TO BE SOLVED: To provide the subject device capable of eliminating a great change in relationship of a maneuvering seat with a footstool, thereby eliminating fatigue of an operator and improving the maneuverability and good in comfortableness to ride on the maneuvering seat by installing a freely storable footstool for placing feet of the operator in a specific position.SOLUTION: This footstool device for a combine harvester is obtained by installing a freely storable footstool 6 for placing feet of an operator on the upper side of a step surface 5 of a mobile chassis 2 and in front of a freely liftable and lowerable maneuvering seat 4 for boarding an operator for performing traveling operations, etc., in the combine

harvester comprising an operating device 3 installed on the upper side of the mobile chassis 2 and the maneuvering seat 4 at the rear of the operating device 3.Thereby, the footstool 6 can be operated into a state for placing the feet of the operator by rotating and operating the footstool 6 for placing the feet with the lifting of the maneuvering seat 4 at the time of lifting thereof.

Inventors

IWANAGA KENJI

NISHIZAKI HIROSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

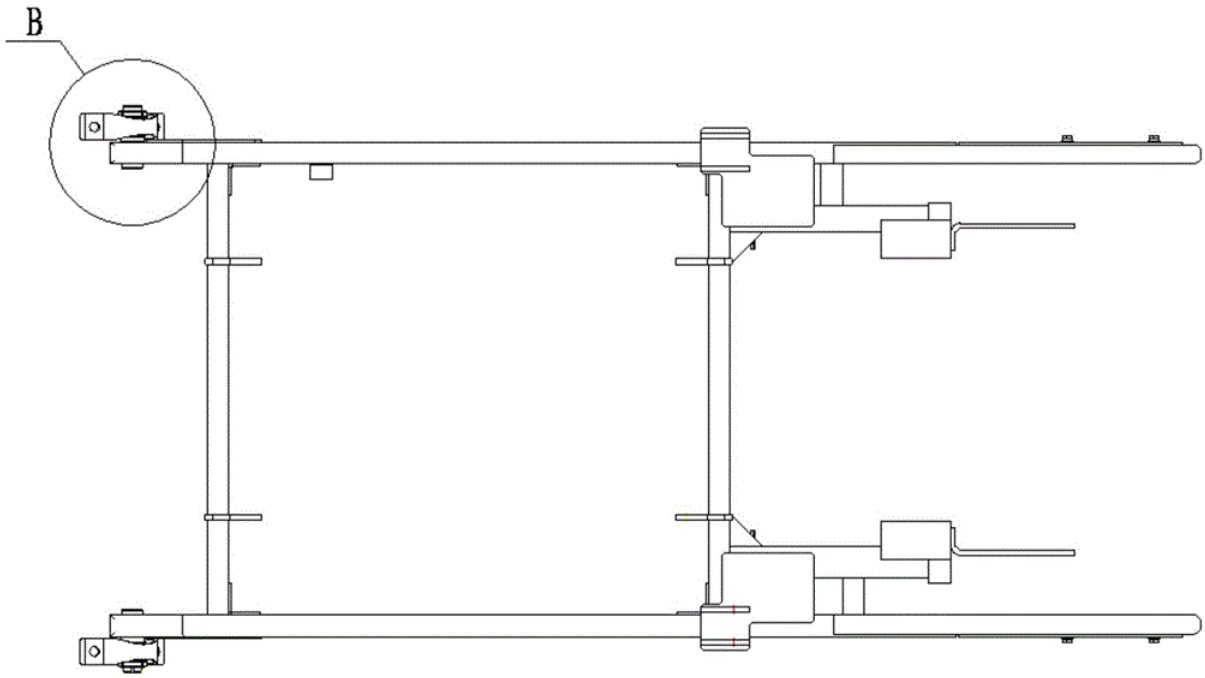
Family 124/667 - FAMPAT - ©Questel

Title

(CN105917853)

Swing supporting structure

Images



Publication data including kind & date

CN105917853	A	2016-09-07	CN105917853
CN206118433	U	2017-04-26	CN206118433U

Abstract

(CN105917853)

The invention discloses a swing supporting structure.The swing supporting structure comprises a swing frame, side plates and bearings, wherein the left and right side plates are mounted on left and right side plate fixing seats and elbows at one end of the swing frame, and one end of each side plate bends inwards and then is connected with an input end of a primary conveying mechanism; the bearings are mounted on bearing shafts at the other end of the swing frame and arranged in bearing mounting seats which are fixed on the whole rack; the swing supporting structure further comprises left and right telescopic cylinders, a left telescopic cylinder hinge seat is arranged in the middle of the swing frame and hinged with one end of the left telescopic cylinder, a right telescopic cylinder hinge seat is arranged in the middle of the swing frame and hinged with one end of the right telescopic cylinder, and the other ends of the left and right telescopic cylinders are hinged to the whole rack; during work, the bearing shafts are taken as fulcrums, up and down swing is realized through stretching and retreating of the cylinders, so that a cutting-off and feeding mechanism, a lodging mechanism and the primary conveying mechanism of a conveying device, which are mounted on the swing frame, of a cane harvester swing up and down simultaneously to adjust positions.

Inventors

PENG KANGYI

Latest standardized assignees - inventors removed

GUANGDONG KOLEA MODERN AGRICULTURAL EQUIPMENT

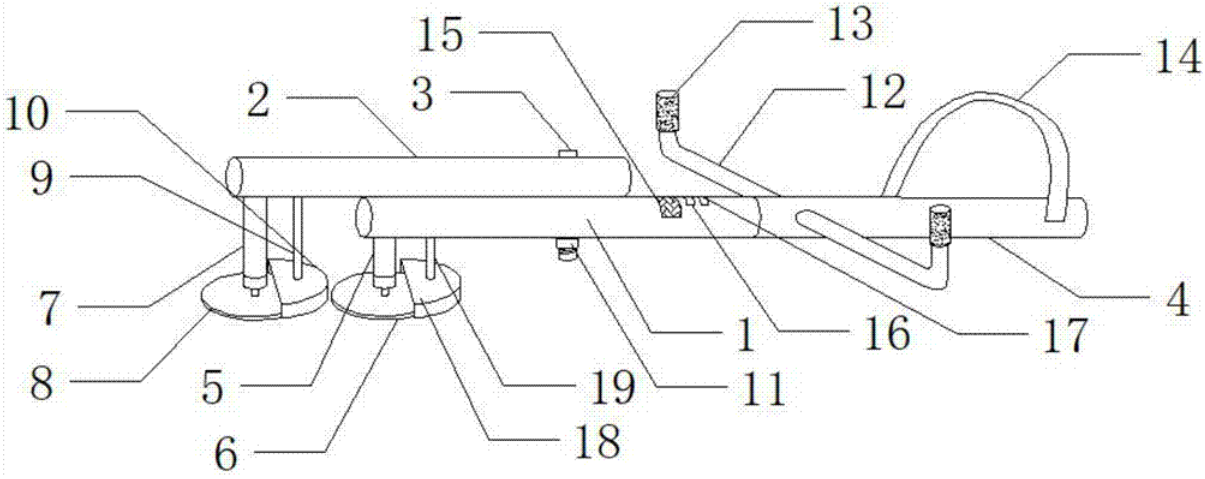
Family 125/667 - FAMPAT - ©Questel

Title

(CN207399872U)

Improvement type agricultural harvesting machine

Images



Publication data including kind & date

CN207399872 U 2018-05-25 CN207399872U

Abstract

(CN207399872U)

The utility model provides an improvement type agricultural harvesting machine, including reaping pole no. 1, reaping pole no. 2, telescopic link, screw rod and nut, reap two settings on the pole andreaping a pole top, it is equipped with through -hole no. 1 and through -hole no. 2 on the pole no. 2 respectively with reaping to reap pole no. 1, the screw rod passes through -hole no. 1 and is connected with the nut with through -hole no. 2, a pole one end is being gathered in in the telescopic link setting, reap pole no. 1 and reap two other ends on the pole and install motor no. 1 and motor no. 2 respectively, install harvesting cutter piece no. 1 and harvesting cutter piece no. 2 on the output shaft of motor no. 1 and motor no. 2 respectively, harvesting cutter piece no. 1 is equipped with respectively with two tops of harvesting cutter piece and keeps off protection plates no. 1 and fender protection plates no. 2, keep off protection plates no. 1 through branch no. 1 with gather inpole no. 1 and be connected, keep off protection plates no. 2 through branch no. 2 with gather in pole no. 2 and be connected, this improvement type agricultural harvesting machine modern design, rational in infrastructure, convenient to use, it is big to gather in the area.

Inventors

LI LIQIN

CHEN QIAN

LI JIAHAO

LU LIMING

Latest standardized assignees - inventors removed

SICHUAN AGRICULTURAL UNIVERSITY

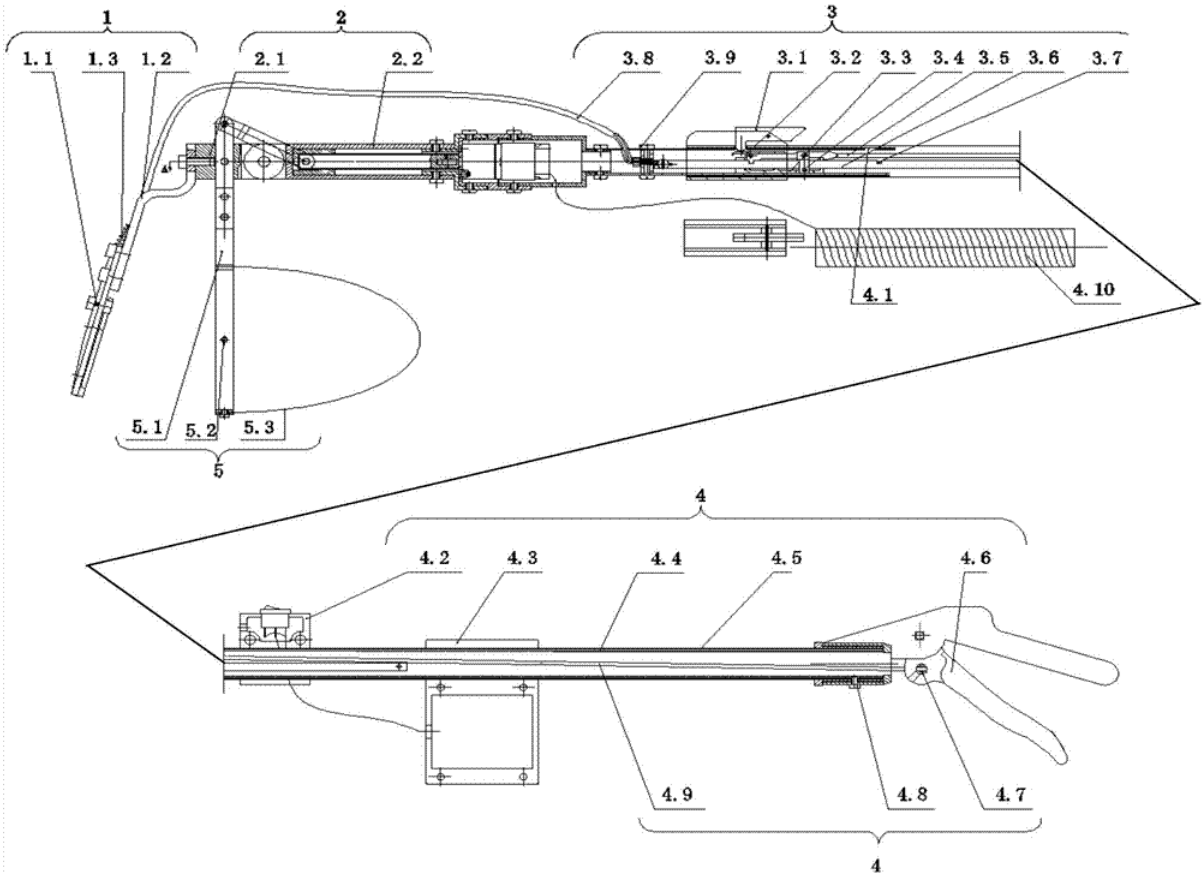
Family 126/667 - FAMPAT - ©Questel

Title

(CN208016377U)

Multi-position fruit picker

Images



Publication data including kind & date

CN208016377 U 2018-10-30 CN208016377U

Abstract

(CN208016377U)

The present utility model relates to a multi-position fruit picker, comprising a composite of scissors, the scissors are screwed onto a pivot joint on the composite, which is inserted into and through rotating joints telescopic rod is screwed from the rabbet, a transmission mechanism mounted in the interior telescopic rod, crates crates through connecting rod to rotate on the joint.The present utility model has the following advantages: 1, composite scissors, repeatable shearing, firm fruit crates placed precisely in the well. 2, Revolute joints, can be rotated to a horizontal position by about 60 (degree) C, thus achieving various picking-shear azimuth. 3, A telescopic rod, extending to 3 m 1 m may be from left and right, to pick fruits of different heights. 4, Tubular-fruit harvester, accelerated fruit collection speed, improve picking efficiency. 5, Simplify the mechanical structure of the present utility model, the operation is simple, easy control, low cost, is not easily damaged, adaptable to most consumers, there is a good application prospect in widespread use.

Inventors

YIN YEHONG
CAO YI
Zhang Jie
MEI JIANFENG
YIN LI
WANG QUAN

Latest standardized assignees - inventors removed

HEBEI UNIVERSITY OF TECHNOLOGY

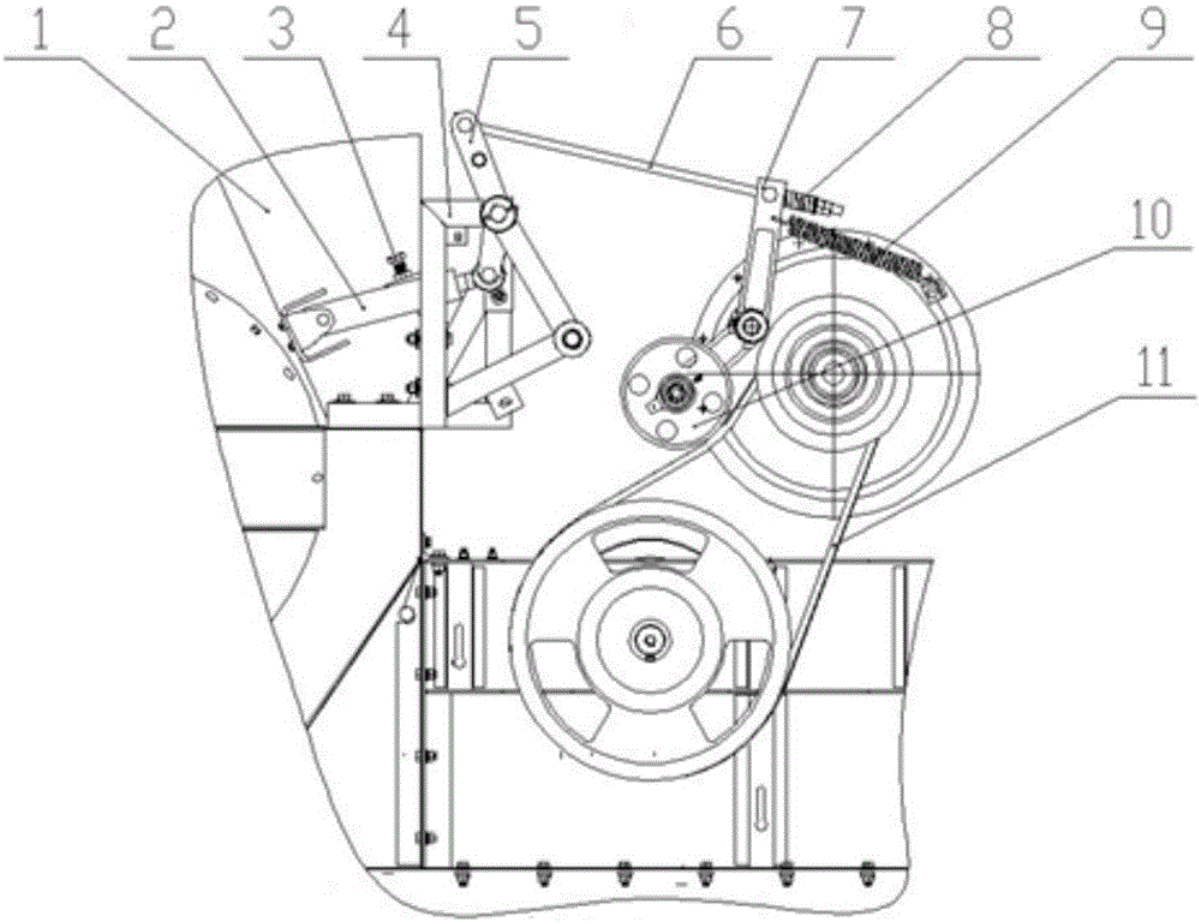
Family 127/667 - FAMPAT - ©Questel

Title

(CN106612968)

Harvester hydraulic main clutch device

Images



Publication data including kind & date

CN106612968 A 2017-05-10 CN106612968

Abstract

(CN106612968)

The invention discloses a harvester hydraulic main clutch device.The device comprises a grain tank welding part, an oil cylinder, a tensioning wheel, a four-linked belt, a support, a first rotary arm welding part, a second rotary arm welding part, a pull rod welding part and a tensioning arm.The tensioning arm is hinged to a power output shell, and the first rotary arm welding part, the second rotary arm welding part and the pull rod welding part form a self-locking mechanism.A compressed spring is arranged at the tail end of the pull rod welding part, a reset spring is arranged on the tensioning arm, a limiting bolt is disposed on the support, a control handle controls stretching and retracting of the oil cylinder to drive the first rotary arm welding part to rotate, the tensioning arm is driven by the pull rod welding part to rotate, and finally the four-linked belt is tightly pressed and loosened by means of the tensioning wheel.The harvester hydraulic main clutch device solves the problem that control force of a harvester is too large in the combination and separation processes, so that tensioning force of a main clutch belt better meets utilization requirements, the labor intensity of an operator is effectively reduced, transmission efficiency of the belt is improved, and the service life of the belt is prolonged.

Inventors

YANG ZHIPING
WEI BENTONG
HUANG YUHUA
ZHANG ZHENDONG
LI TIANFU

Latest standardized assignees - inventors removed

ZOOMLION HEAVY MACHINERY

Family 128/667 - FAMPAT - ©Questel

Title

(IN2011CH01173)

An integrated sugarcane harvester

Images

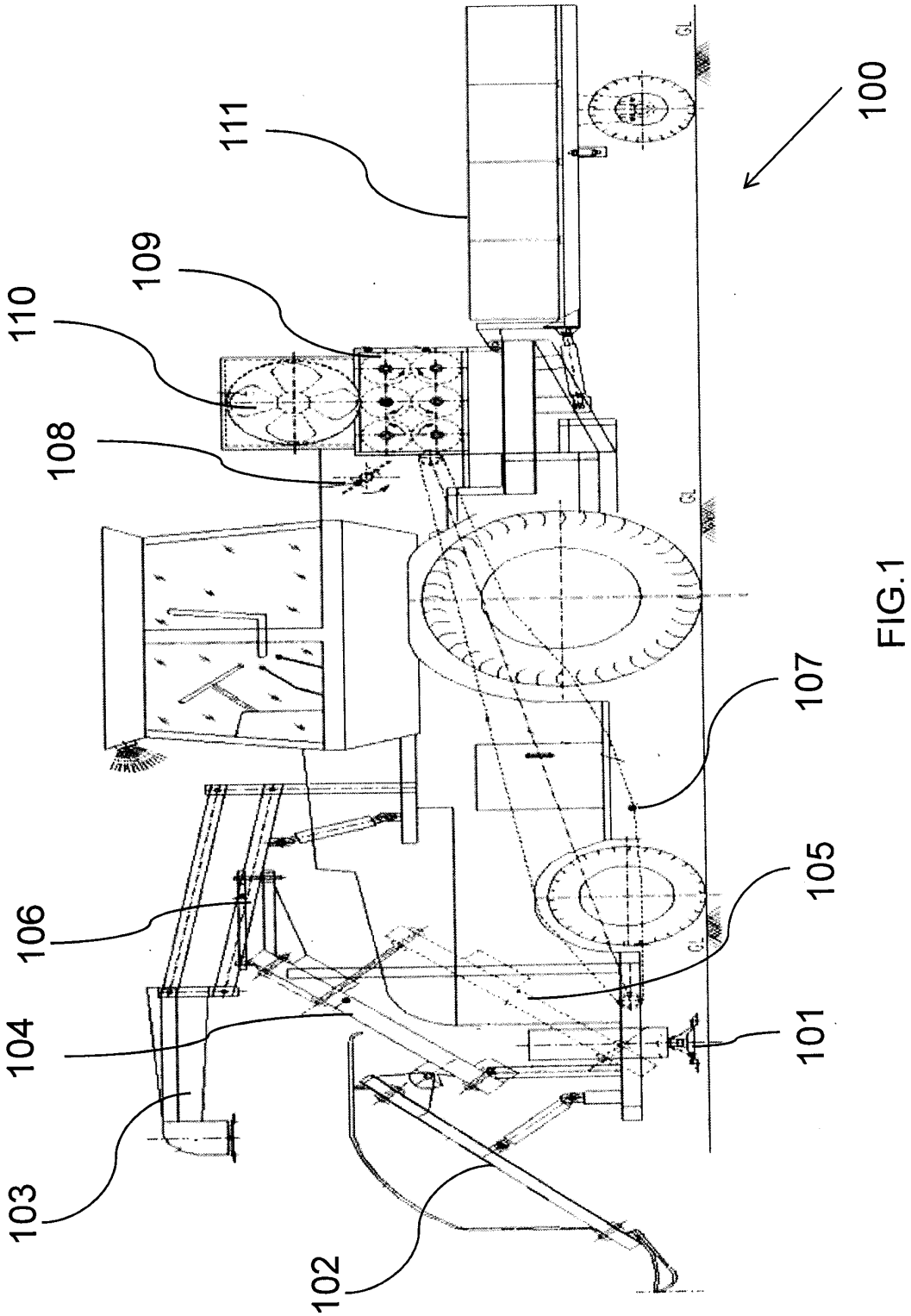


FIG.1

Publication data including kind & date

IN1173/CHE/2011 A 2011-05-13 IN2011CH01173

Abstract

(IN2011CH01173)

The invention provides an integrated sugarcane harvester for complete harvestation of sugarcane, wherein the sugarcane

harvester includes a chassis.A first cutter is mounted on the chassis for removing the top portion of the sugarcane.A second cutter is mounted vertically below the first cutter on the chassis for dislodging the sugarcane from the ground.A pair of aligning apparatus mounted at an inclination on the chassis for gathering the dislodged sugarcane.A guider arrangement is mounted parallel to the aligning apparatus for vertical transportation of the dislodged sugarcane.Further, a cleaner box is coupled to the guider arrangement for removing the trash from the sugarcane prior to harvesting onto a container.

Inventors

PATIL ASHOK

Latest standardized assignees - inventors removed

SHRI HIRANYAKESHI SAHAKARI SAKKARE KARKHANE NIYAMIT

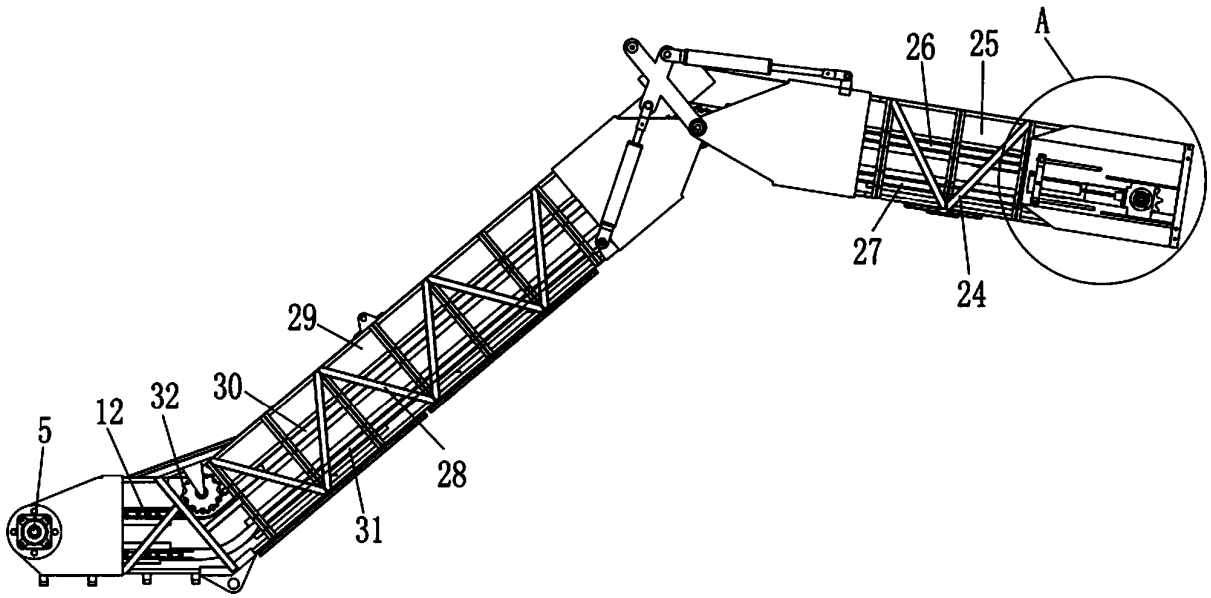
Family 129/667 - FAMPAT - ©Questel

Title

(CN204335377U)

Foldable scraper type conveying arm used for sectional sugarcane harvester

Images



Publication data including kind & date

CN204335377 U 2015-05-20 CN204335377U

Abstract

(CN204335377U)

The utility model discloses a foldable scraper type conveying arm used for a sectional sugarcane harvester.The conveying arm comprises an upper arm section, a lower arm section, a folding drive part and a chain scraper mechanism.One end of the upper arm section is hinged to a first driven chain wheel shaft, and a driving chain wheel shaft is installed at the other end of the upper arm section; one end of the lower arm section is hinged to the first driven chain wheel shaft, a second driven chain wheel shaft is installed at the other end of the lower arm section, the other end of the lower arm section is hinged to a horizontal angle rotary disc through a first pin shaft, and the lower arm section is connected with the sectional sugarcane harvester through a first hydraulic cylinder; the upper arm section and the lower arm section are driven through the folding drive part so that the upper arm section and the lower arm section can be folded or opened; the upper arm section and the lower arm section are each provided with a bottom plate used for bearing materials; two chains of the chain scraper mechanism are wound around chain wheels at the two ends of the first driven chain wheel shaft, at the two ends of the second driven chain wheel shaft and at the two ends of the driving chain wheel shaft, and a scraper used for scraping the materials on the bottom plates is installed between the two chains.By means of the conveying arm, sugarcane sections can be accurately conveyed and can be folded during conveying.

Inventors

YANG DANTONG

LIU HAOCHUN
LIU QINGTING
Yang Dantong
HE LIN
ZOU XIAOPING
HUANG ZHENG

Latest standardized assignees - inventors removed

SOUTH CHINA AGRICULTURAL UNIVERSITY

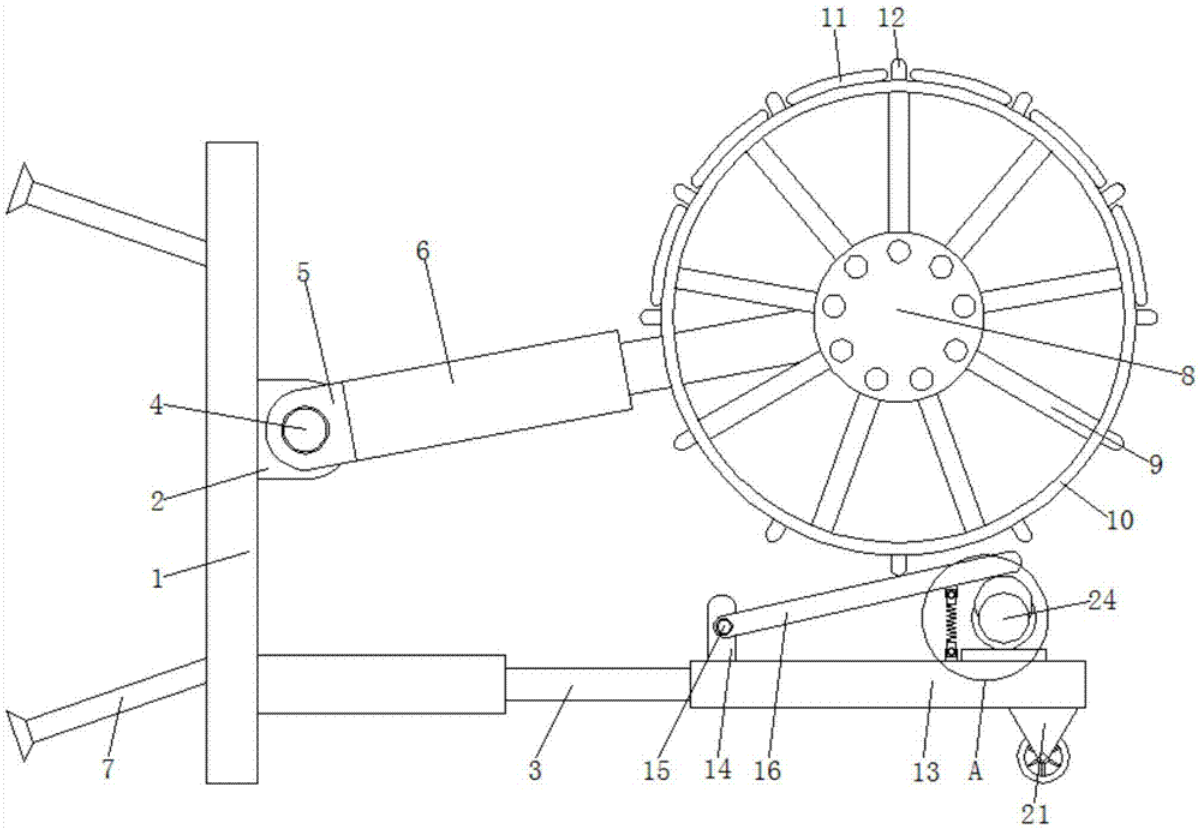
Family 130/667 - FAMPAT - ©Questel

Title

(CN108260409)

Fruit harvester

Images



Publication data including kind & date

CN108260409 A 2018-07-10 CN108260409

Abstract

(CN108260409)

The invention discloses a fruit harvester.The harvester comprises a support frame; one side surface of the support frame is respectively fixedly connected with a first fixing block and a first hydraulic telescopic rod; the first hydraulic telescopic rod is positioned right below the first fixing block; the front side of the first fixing block is fixedly connected with a first circular rod; the surface of the first circular rod is movably connected with the inner wall of a round hole formed in the front surface of a movable block; a side surface of the movable block is fixedly connected with asecond hydraulic telescopic rod; one end of the second hydraulic telescopic rod is fixedly connected with an air pump; the surface of the air pump is fixedly connected with a framework; one end of the framework is fixedly connected with the inner surface of a circular ring; the surface of the circular ring is respectively fixedly connected with inflated leather bags and convex blocks; the air outlet of the air pump communicates with the inflated leather bags through hoses; and each inflated leather bag is positioned between two adjacent convex blocks of the nine convex blocks.According to the invention, with the arrangement of the air pump, the circular ring, a movable rod, a rolling plate and an arc-shaped block, manual picking is not needed, and the working

efficiency of picking nuts is improved.

Inventors

GUO YUNHAN

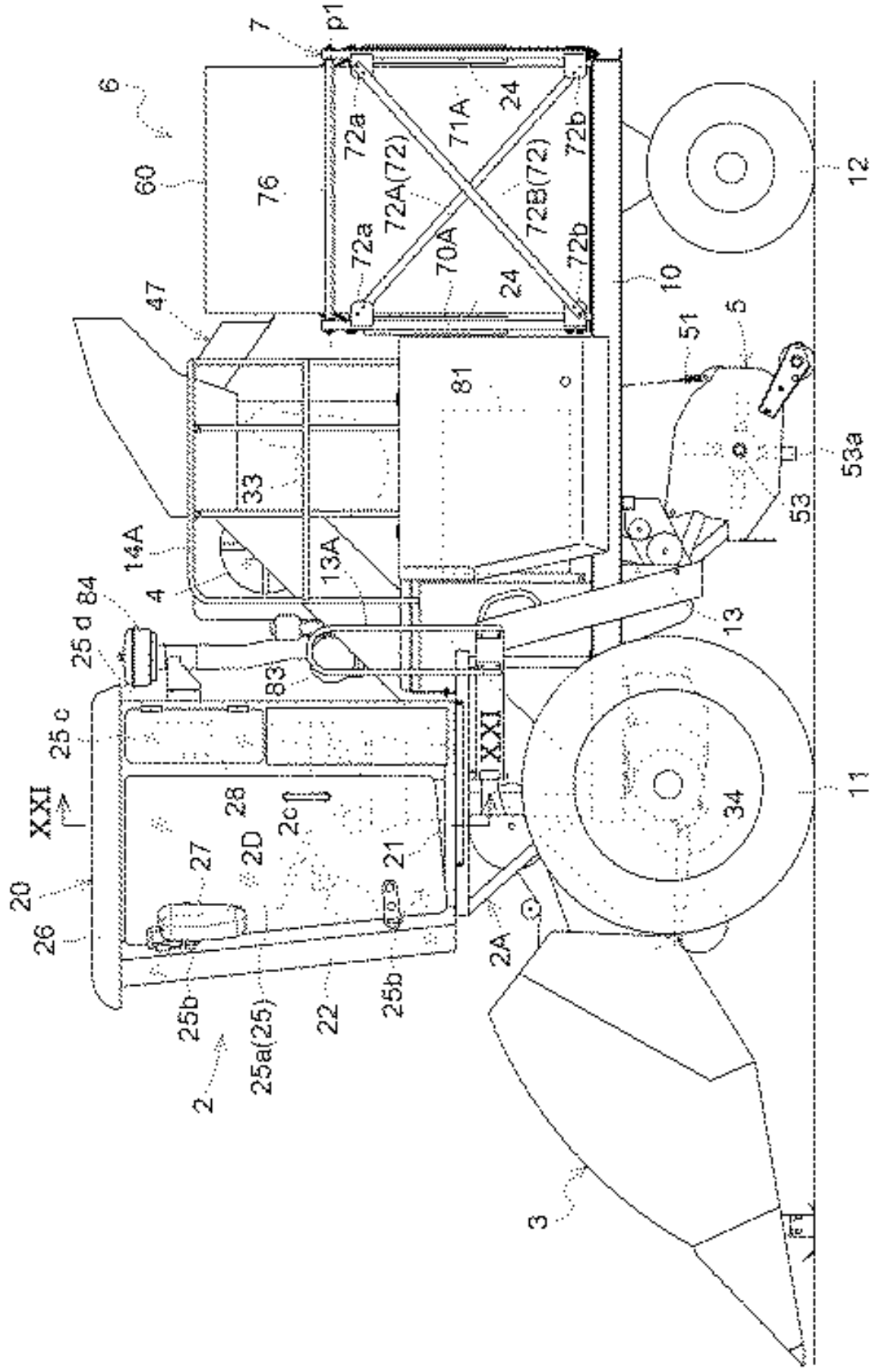
Family 131/667 - FAMPAT - ©Questel

Title

(JP2014198009)

Corn harvester

Images



Publication data including kind & date

CN203851490	U	2014-10-01	CN203851490U
JP2014198009	A	2014-10-23	JP2014198009

Abstract

(JP2014198009)

PROBLEM TO BE SOLVED: To simplify work of collecting corn crops from a storage tank for harvested corn crops.SOLUTION: A storage tank 60 that can store crops discharged from a conveyance end of a feeder 4 can switch between a rising attitude and a falling attitude by rising and falling while rocking around a rocking axis p1 in the front-back direction of a traveling vehicle body.The storage tank 60 can store the crops in the rising attitude, and can discharge the stored crops to a lateral side of the traveling vehicle body in the falling attitude.

Inventors

MINAMI TERUO

Yasuhiro Nagata

FUKUOKA YOSHITAKE

Mikio Okada

Latest standardized assignees - inventors removed

KUBOTA

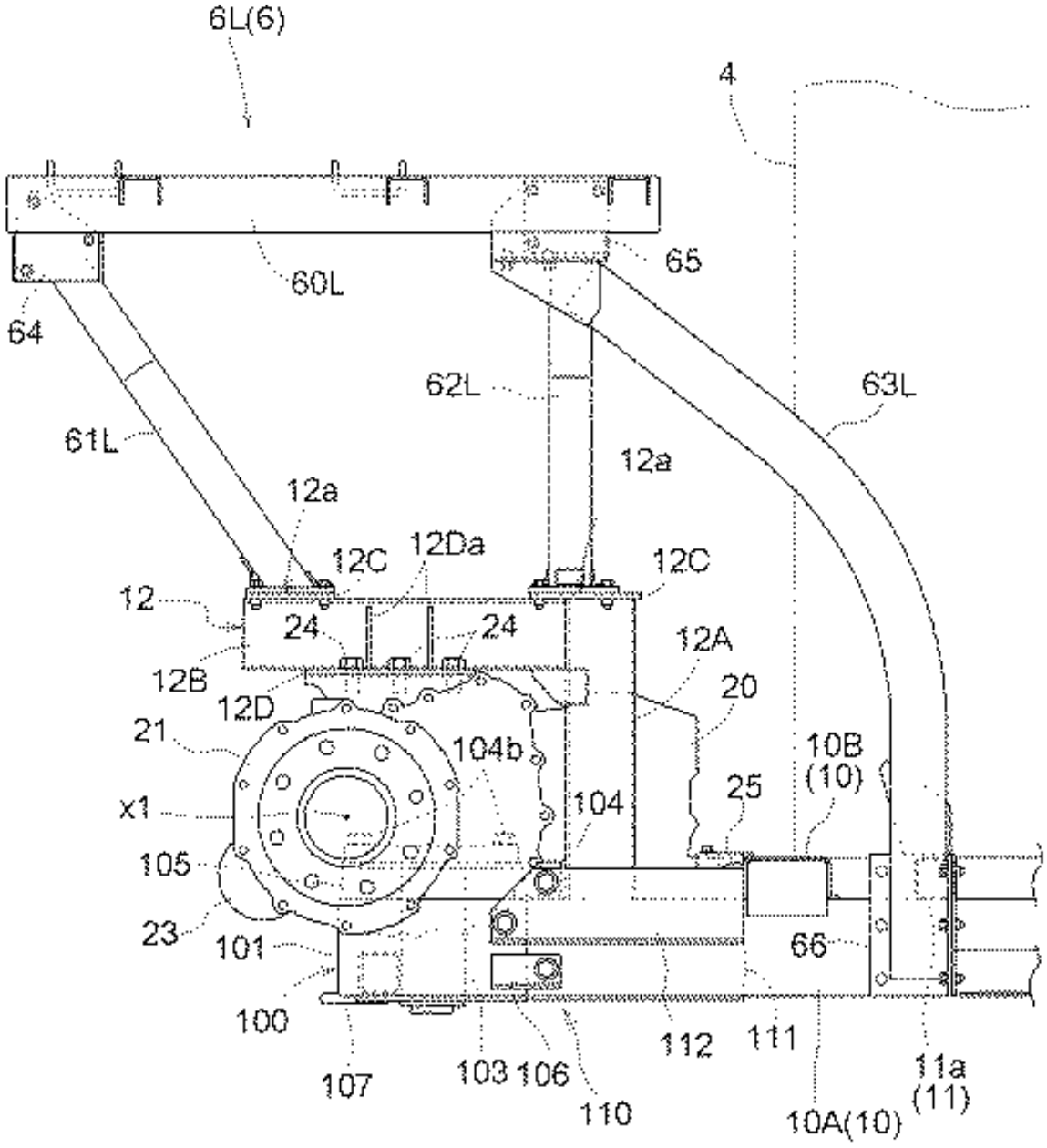
Family 132/667 - FAMPAT - ©Questel

Title

(JP2015065873)

Harvester

Images



Publication data including kind & date

CN204146039	U	2015-02-11	CN204146039U
JP2015065873	A	2015-04-13	JP2015065873

Abstract

(JP2015065873)

PROBLEM TO BE SOLVED: To provide a harvester in which a vertical direction length of an operation part frame for supporting the operation part is shortened as much as possible on maintaining forward visibility well by setting an operation part in a predetermined height, and the rigidity is improved while avoiding an increase of strength and the number of usage of an operation part frame in itself.SOLUTION: A harvester includes a main frame 10 with a working device installed thereon, and a support base frame 12 connected to the main frame 10 and having an operation part frame 6 installed thereon.The support base frame 12 includes an installation part 12a of the operation part frame 6 for supporting the operation part at the position higher than the upper surface of the main frame 10, and is disposed so that a drive shaft to a traveling device provided to a transmission unit 21 may be positioned below this support base frame 12.

Inventors

New housekeeping
YAGISAWA TOSHIO
Koji Yamagata
Hiroshi Taka in
Chiharu Kami Kita

Latest standardized assignees - inventors removed

KUBOTA

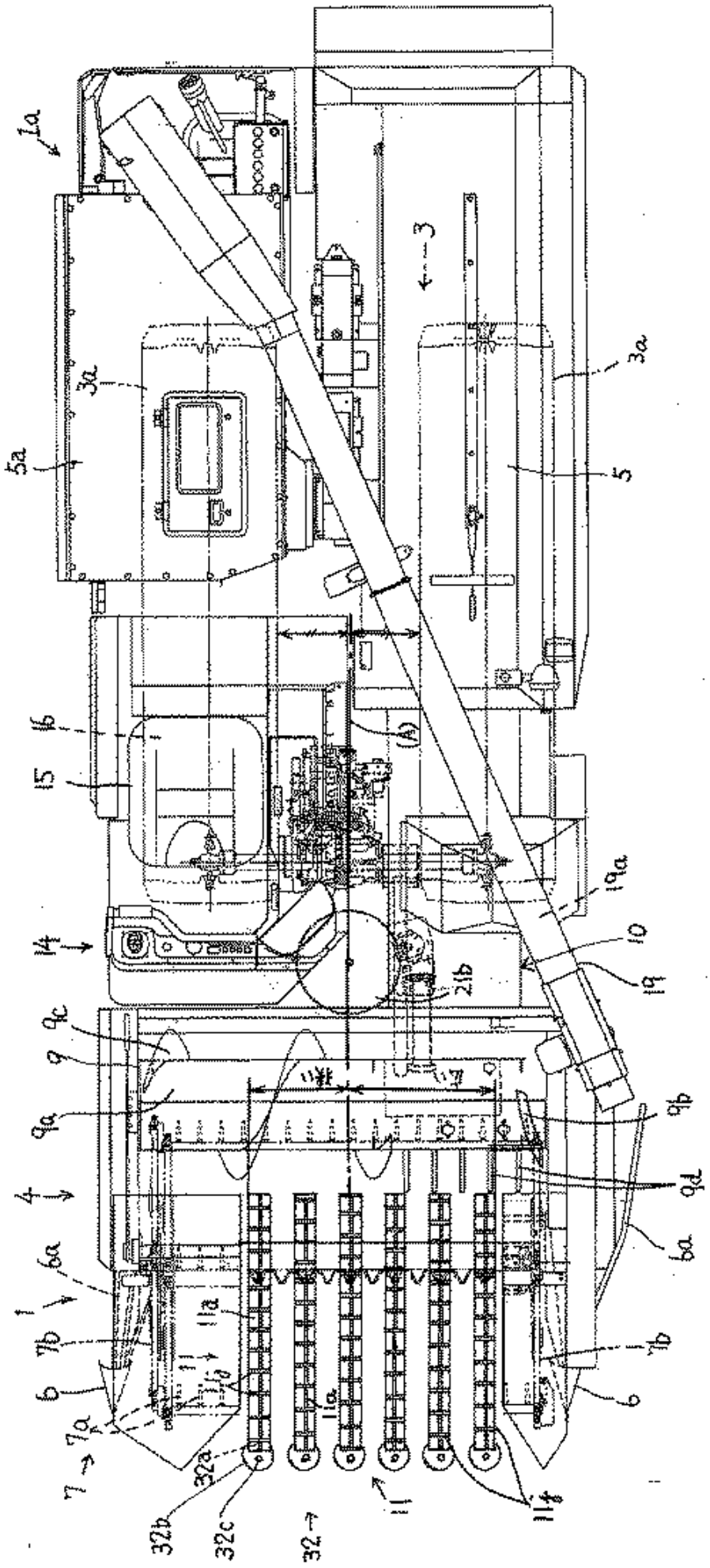
Family 133/667 - FAMPAT - ©Questel

Title

(JP2007252260)

Harvester

Images


1a
3
3a
3a
5a
5
16
15
(A)
19a
14
10
19
21b
9c
9
9a
9b
9d
4
6a
6a
1
11a
7b
7b
6
6
7a
7
32a
32b
32c
32
11
11a
11

Publication data including kind & date

JP2007252260	A	2007-10-04	JP2007252260
JP4789249	B2	2011-10-12	JP4789249

Abstract

(JP4789249)

PROBLEM TO BE SOLVED: To provide a harvester designed to smoothly harvest plants with long culm length and high height.

SOLUTION: The harvester includes a traveling gear 3 installed under the machine body, a reaping apparatus 4 set up in the front of the machine body and functioning to convey reaped plants such as sunflower rearward, and a threshing apparatus 5 installed on the rear side of the reaping apparatus 4 and functioning to shell seeds.In this harvester, the reaping apparatus 4 is equipped with a cutting device 8 for cutting off plants in a planted state, a traverse feeder 9 for conveying the thus cut off plants and a conveying apparatus 10 for relaying and feeding the thus conveyed plants to the threshing apparatus 5, wherein multiple conveying devices 11 with narrow width are arranged at intervals transversely in front of the traverse feeder 9.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

OHARA KAZUSHI

IIIZUMI KIYOSHI

KIKUZAWA HIROMASA

MIZUMOTO TAKESHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

EHIME PREFECTURE

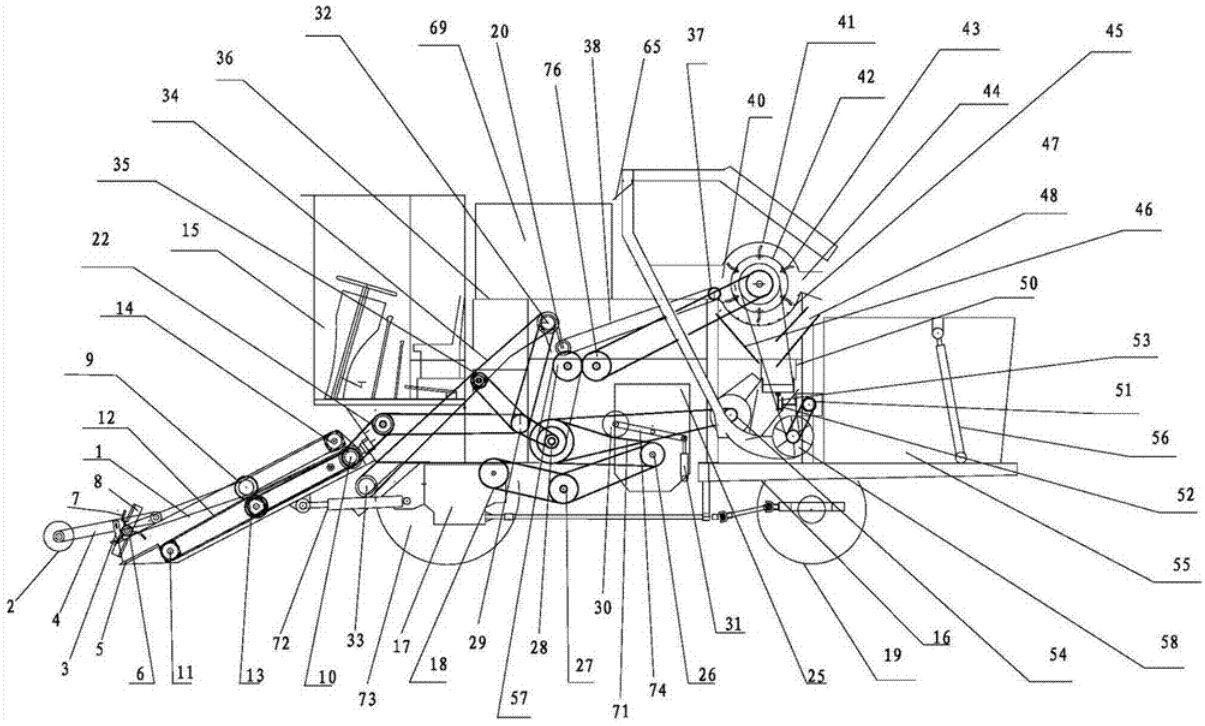
Family 134/667 - FAMPAT - ©Questel

Title

(CN106068882)

Self-propelled peanut combined harvester

Images



Publication data including kind & date

CN106068882	A	2016-11-09	CN106068882

CN106068882 B 2017-11-03 CN106068882B

Abstract

(CN106068882B)

The invention relates to a self-propelled peanut combined harvester, aiming at effectively solving the problems of a peanut harvester that the harvesting efficiency is low, the net rate is low, fruits and leaves cannot be completely separated and seedling leaves cannot be recycled.The self-propelled peanut combined harvester is characterized in that a rack is provided with a first conveying device, a second conveying device, a third conveying device, an auger conveying and separating device, a vibration sieve and a fruit wind sieving and separating device, which are driven by an engine respectively; a positioning, soil crushing and feeding device is arranged at a feeding end of the first conveying device; a discharging end of the first conveying device is connected with the feeding end of the second conveying device; the discharging end of the second conveying device is connected with the feeding end of the third conveying device; the discharging end of the third conveying device is connected with the feeding end of the auger conveying and separating device; the discharging end of the auger conveying and separating device is connected with the feeding end of a seedling leaf collection box.The self-propelled peanut combined harvester is novel and unique in structure, easy to operate, good in sieving effect, high in working efficiency, high in net rate and wide in applicable range, the fruits and the leaves can be completely separated and the seedling leaves can be recycled as feed.

Inventors

ZHU JINGPENG

Latest standardized assignees - inventors removed

XINXIANG GRAND PHARMACEUTICAL MACHINERY

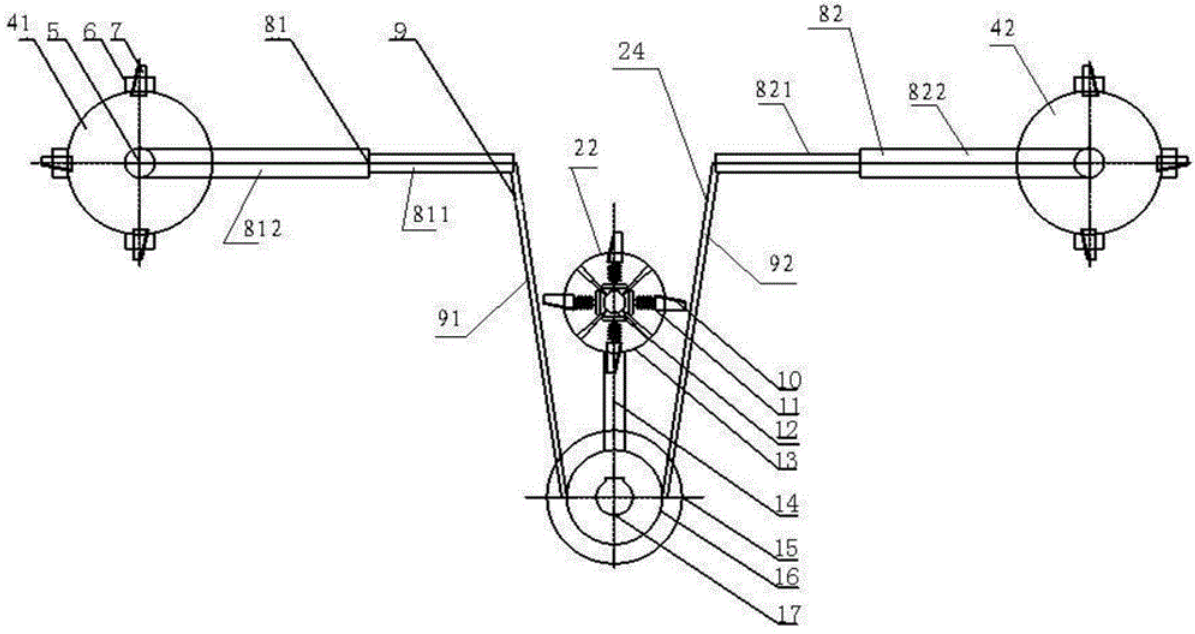
Family 135/667 - FAMPAT - ©Questel

Title

(CN103858598)

Tip cutting device of sugarcane harvesting machine

Images



Publication data including kind & date

CN103858598 A 2014-06-18 CN103858598

CN103858598 B 2016-06-29 CN103858598B

Abstract

(CN103858598B)

The invention relates to a tip cutting device of a sugarcane harvesting machine.The tip cutting device comprises guiding barrels, a telescopic drive device and a tip cutting mechanism, wherein the outer wall of each guiding barrel is provided

with a plurality of projections and a plurality of first cutting blades, the quantity of the guiding barrels is two, and the first guiding barrel and the second guiding barrel are symmetric to each other; the telescopic drive device comprises a guide rod and a loop bar which is matched with the guide rod and is horizontally arranged, the end part of a first guide rod of a first telescopic drive device and the end part of a second guide rod of a second telescopic drive device are respectively connected with a baffle plate, and the cross section of the arrangement of the two baffle plates is in a V-shaped structure; the tip cutting mechanism is arranged between the two baffle plates, the edge of a tip cutting disc is provided with a plurality of second tip cutting blades, one end of each tip cutting blade is provided with a distance adjusting device and connected with the tip cutting disc, and the tip cutting disc is connected with a longitudinal adjusting device.By adopting the tip cutting device of the sugarcane harvesting machine, the distance between the tip cutting parts is adjusted according to the harvesting situation of a sugarcane field, the impurity content can be effectively reduced, and the sugarcane quality is improved.

Inventors

HUANG YIQI
LI XIAOFENG
WANG XIAOBO
TANG WENHENG
LUO ZHAOYU
LU HONG
YANG YONGZHENG
LIN XUHUA

Latest standardized assignees - inventors removed

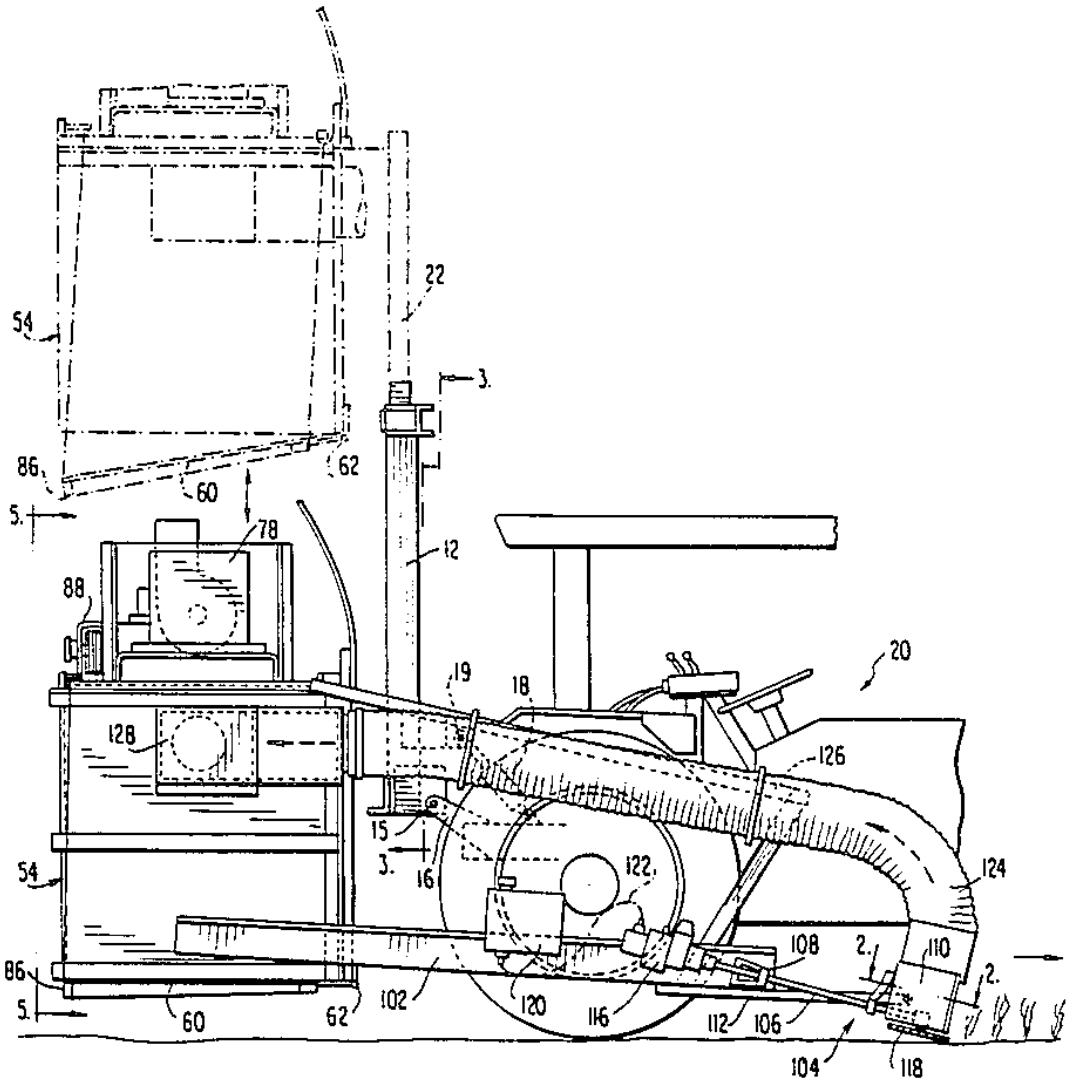
GUANGXI UNIVERSITY

Family 136/667 - FAMPAT - ©Questel

Title

(US4838012)
Vegetable harvester

Images



Publication data including kind & date

US4838012 A 1989-06-13 US4838012

Abstract

(US4838012)

A vegetable harvester of the type adapted to be mounted on a tractor locates the cutting mechanism, the pneumatic transport system and a collection box on a common frame which is movable vertically relative to the tractor on which it is mounted to adjust the height of the cutting blade and to raise the collection box to a height whereby the contents may be discharged through a bottom opening into a larger receptacle.The common frame is mounted on a telescopic slide frame which in turn is pivotally mounted at its lower end to the conventional three point hitch of a tractor whereby the telescopic frame and the common frame during the cutting mechanism may be tilted relative to the vertical to adjust the angle of the cutting mechanism relative to the ground.

Inventors

BOWEN III PERRY G

Family 137/667 - FAMPAT - ©Questel

Title

(US3664526)

Harvester

Images

SHEET 1 OF 9

FIG. 1.

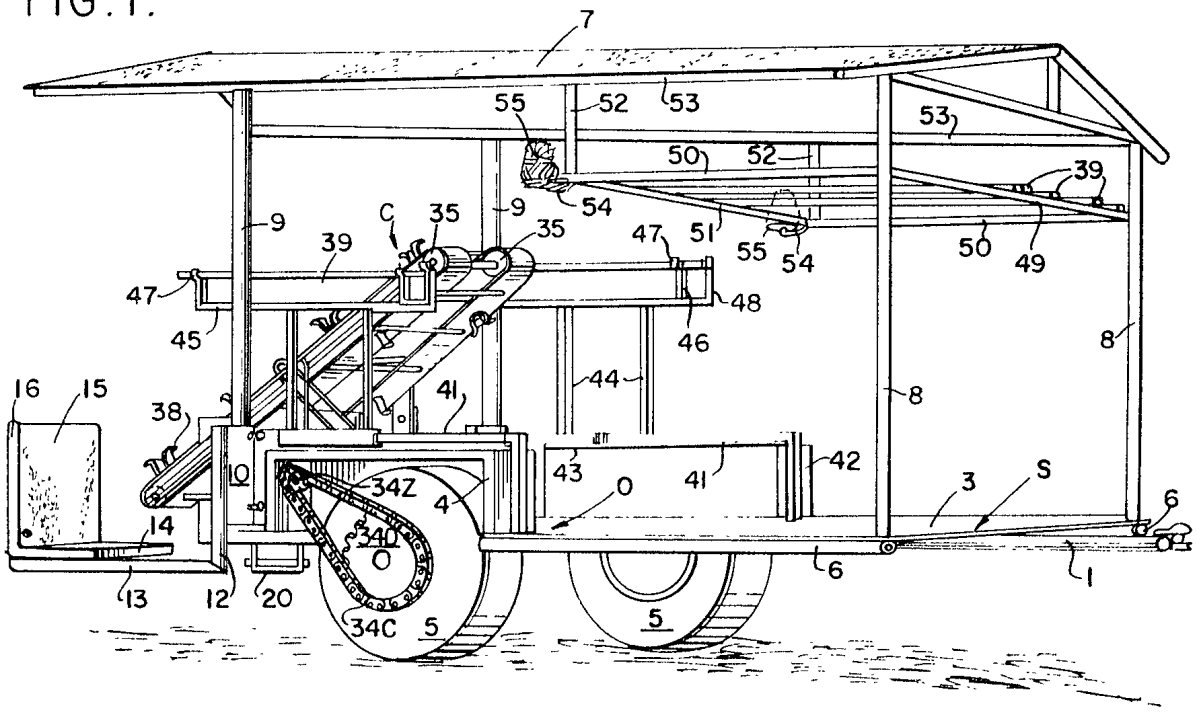
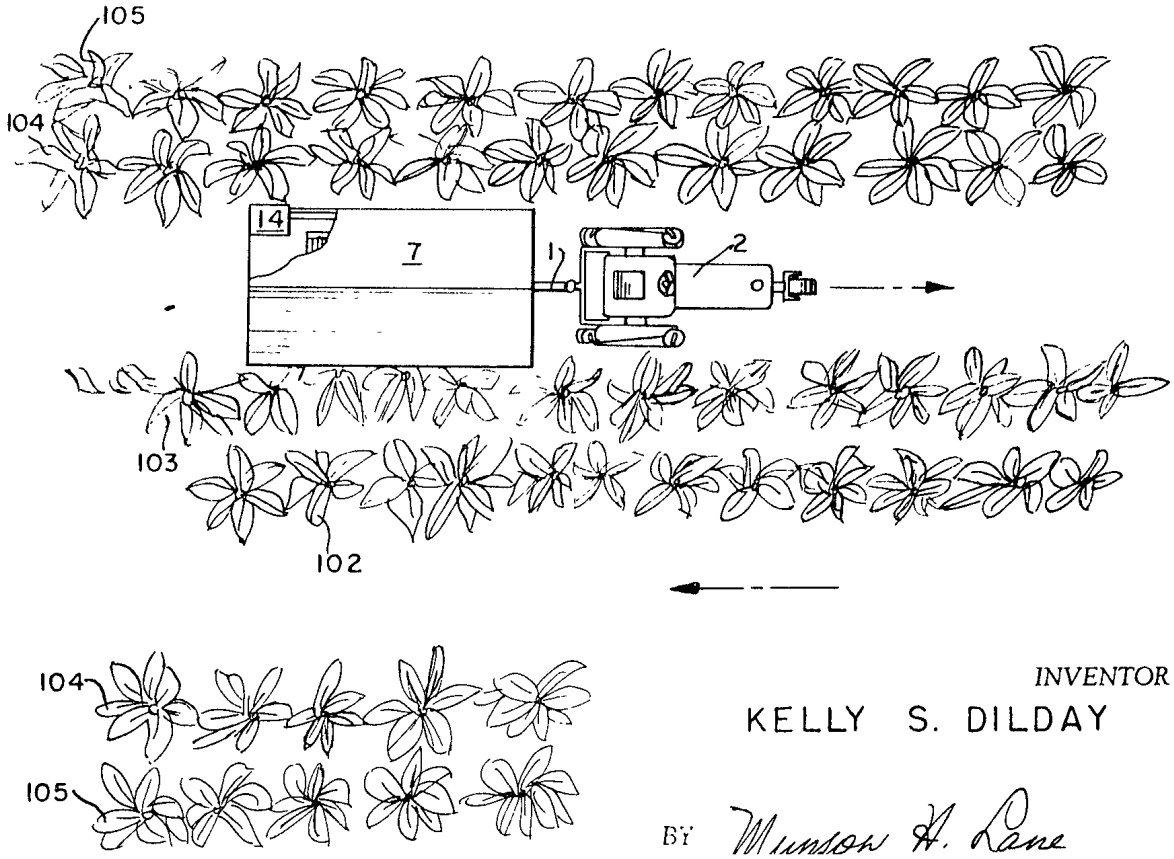


FIG. 2.



INVENTOR
KELLY S. DILDAY

BY Munson H. Lane

Publication data including kind & date

US3664526 A 1972-05-23 US3664526

Abstract

(US3664526)

A harvester particularly useful in harvesting tobacco by providing a vehicle having vertically adjustable seats for persons

who pick the leaves of tobacco with the vehicle having a support in the form of a conveyor for receiving the picked leaves from the persons and transporting the leaves to another location on the vehicle where one or two other persons place the tobacco on racks and such racks may be either the conventional tobacco sticks for drying in tobacco barns or may be pallets on which the tobacco leaves are laid and the pallets with the loaded leaves may be removed.

To obtain maximum advantage of the invention the crop is arranged in rows with two adjacent rows close together and alternate adjacent rows being spaced apart a sufficient distance for the vehicle to pass so that the vehicle has a low center of gravity and can be pulled by a conventional tractor.

Inventors

DILDAY KELLY S

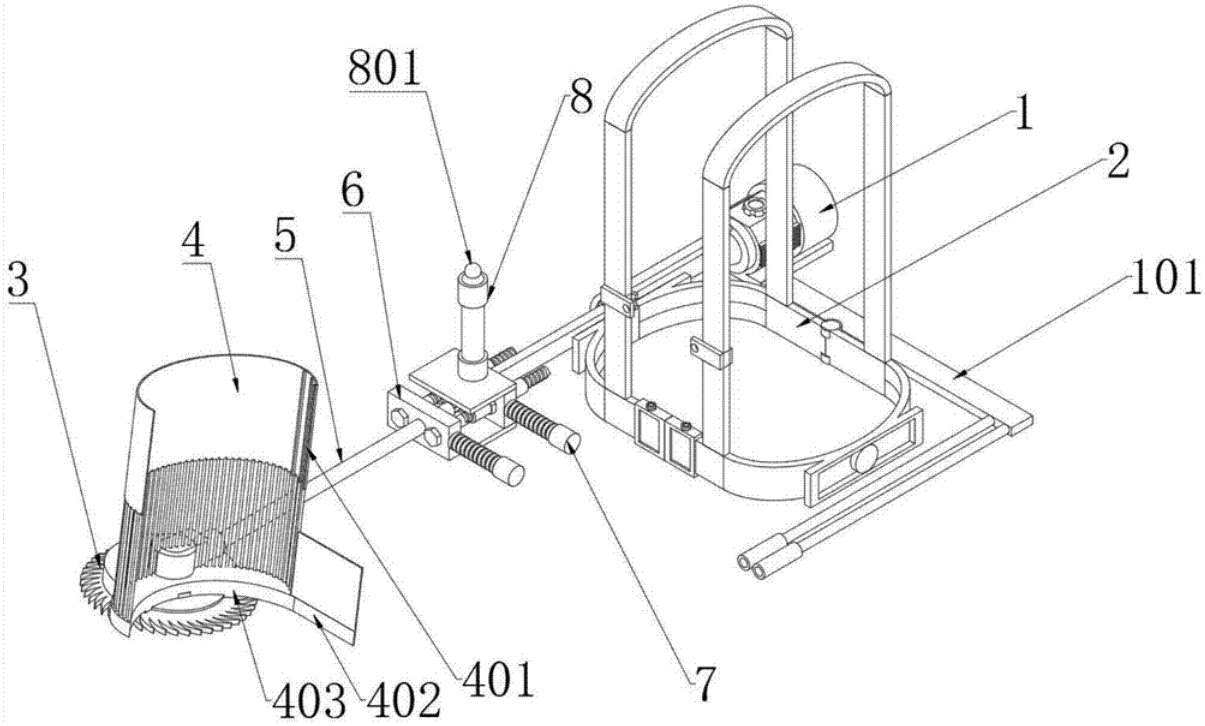
Family 138/667 - FAMPAT - ©Questel

Title

(CN108260403)

Handheld harvester

Images



Publication data including kind & date

CN108260403 A 2018-07-10 CN108260403

Abstract

(CN108260403)

The invention provides a handheld harvester.The handheld harvester comprises a small gasoline engine, a chute and a slider, wherein a loop bar is fixedly connected onto a fixed casing at the front end of the small gasoline engine, and an inner rotating rod is rotationally connected in the loop bar; the tail end of the loop bar is rotationally connected with a harvesting wheel, and an outer casingat the top of the harvesting wheel is upwards fixedly connected with a semicircular bundling cover; the middle-rear part of the loop bar is glidingly connected in a moving frame at the right end of aback carrying device through the slider.By means of an L-shaped balance device fixedly arranged along the horizontal line on the side wall of the right end of a base of the small gasoline engine, double balance rods are arranged at the part, parallel to the loop bar, of the balance device, and front ends of the double balance rods extend out of the front end of the back carrying device, so thatthe position of the harvester can be adjusted through the balance device after being carried on the back, the harvester is convenient to use, and labor is saved.

Inventors

CHEN BOPING

WANG JIE
LI HUAXIANG

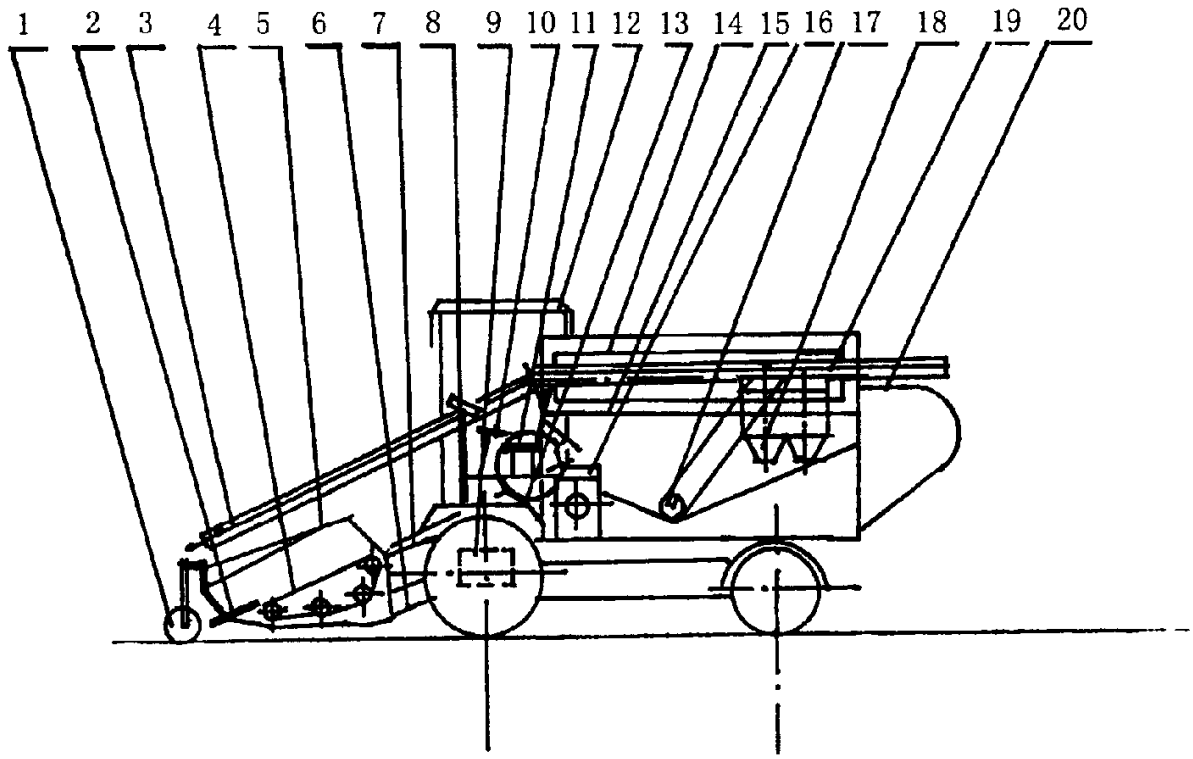
Family 139/667 - FAMPAT - ©Questel

Title

(CN2750640U)

Multifunctional earthnut combined harvester

Images



Publication data including kind & date

CN2750640	Y	2006-01-11	CN2750640U

Abstract

(CN2750640U)

The utility model relates to a multifunctional combined harvester for earthnuts, which comprises a digging element, a holding delivery device, an earthnut stripping and screening device, an earthnut box, a sundries discharging element, an engine, a wheel box, a traveling mechanism and a driving operating room, wherein the digging element, the holding delivery device, the earthnut stripping and screening device, and the earthnut box are connected to a vehicle frame.The digging element comprises branch devices, a digging shovel and an earth shaking and separating device, wherein the components are all arranged on a digger frame which is connected with the vehicle frame via a connecting frame and a hydraulic cylinder; the branch devices are arranged on both sides of the digging shovel, and the earth shaking and separating device is arranged behind the digging shovel.The holding delivery device comprises a lifting holding device in the front and earthnut stripping and holding device at the back, wherein the lifting holding device is connected with the earthnut-stripping holding device; the lifting holding device is arranged above the digging shovel and corresponds to the earth shaking and separating device at the upper part and the lower part respectively; the earthnut stripping and holding device is adjacent to the earthnut stripping and screening device and extends to the sundries discharging element at the rear part.The complete machine has the advantages of simple and compact structure, good conveying property, cleanness for stripping the earthnuts, less loss, less power consumption, and fewer product of foreign matters.

Inventors

WANG ZEQUN
YAN MINGDE
HAO XINMING

LIU GUANGHAI

Latest standardized assignees - inventors removed

CHINESE ACADEMY OF AGRICULTURAL MECHANIZATION SCIENCES

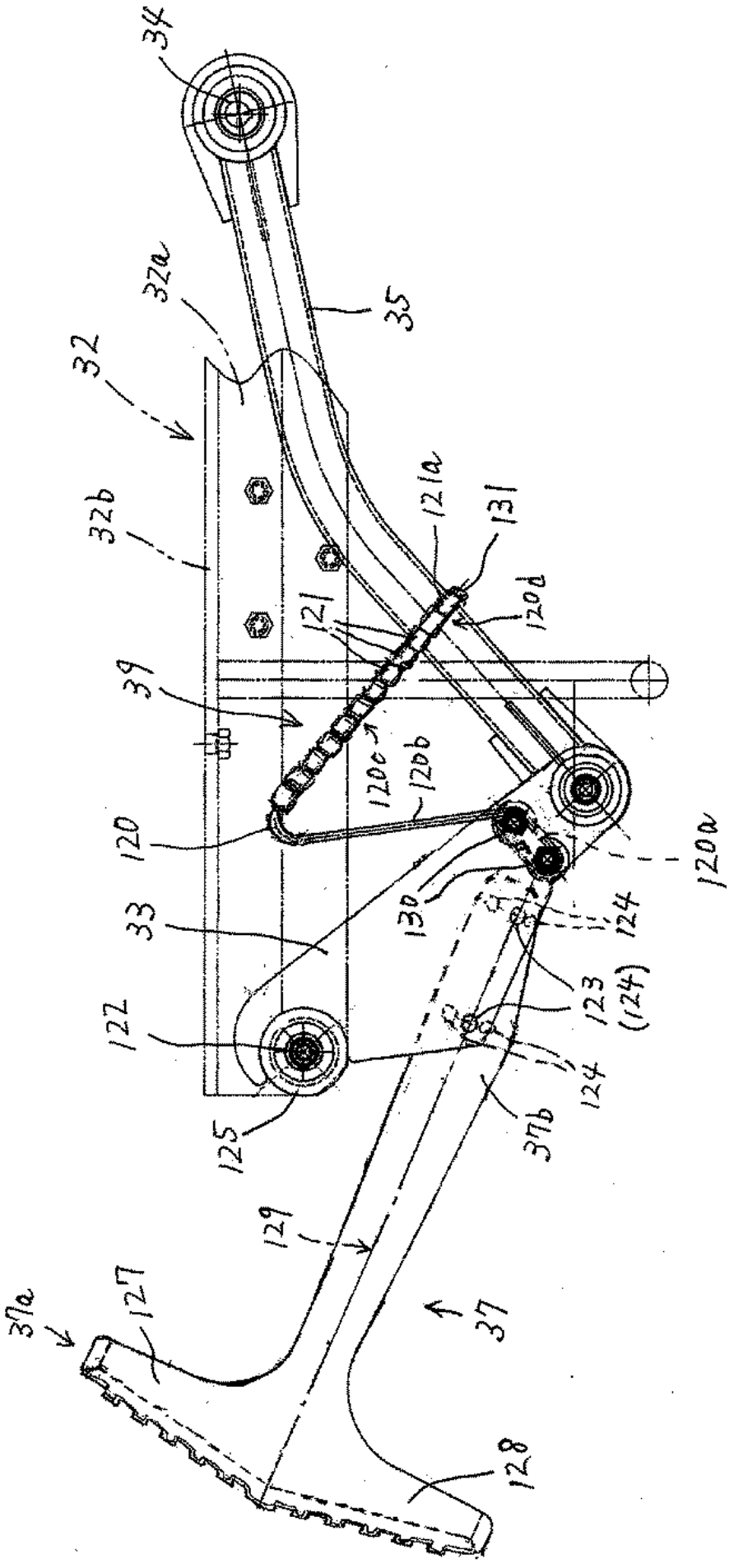
Family 140/667 - FAMPAT - ©Questel

Title

(JP2013009650)

Root vegetable harvester

Images


34
35
32a
32
32b
121a
131
120d
121
39
120c
120b
120
120a
130
33
124
123
(124)
122
124
125
37b
129
37a
127
37
128

Publication data including kind & date

JP2013009650	A	2013-01-17	JP2013009650
JP5842413	B2	2016-01-13	JP5842413

Abstract

(JP5842413)

PROBLEM TO BE SOLVED: To make harvest work proper by properly untying the soil near root vegetable in a field according to a difference in hardness of the soil and a difference in working condition such as a difference in pulling-out resistance, and favorably pulling out and conveying the root vegetable.SOLUTION: This root vegetable harvester includes: a traveling part; a soiler (37) for untying the soil near the root vegetable in the field while cutting; and a pulling out and conveying device for pulling out the root vegetable whose near soil is untied by the soiler (37), and conveying the root vegetable.The soiler (37) includes: a blade part (37a) partly rushing into the soil; and a mounting part (37b) to which the blade part (37a) is mounted, wherein the blade part (37a) is extended up and down, and the blade part (37a) is made different in shape between one end part (127) and the other end part (128) in the vertical direction, so that the blade part (37a) can be attached and detached in the opposite directions vertically.

Inventors

HASE KIHACHIRO
Masami Muramachi
TAKAGI SHINGO
Takanori Iwabe
Hideaki Kurose
YUMITATSU TAKESHI

Latest standardized assignees - inventors removed

ISEKI

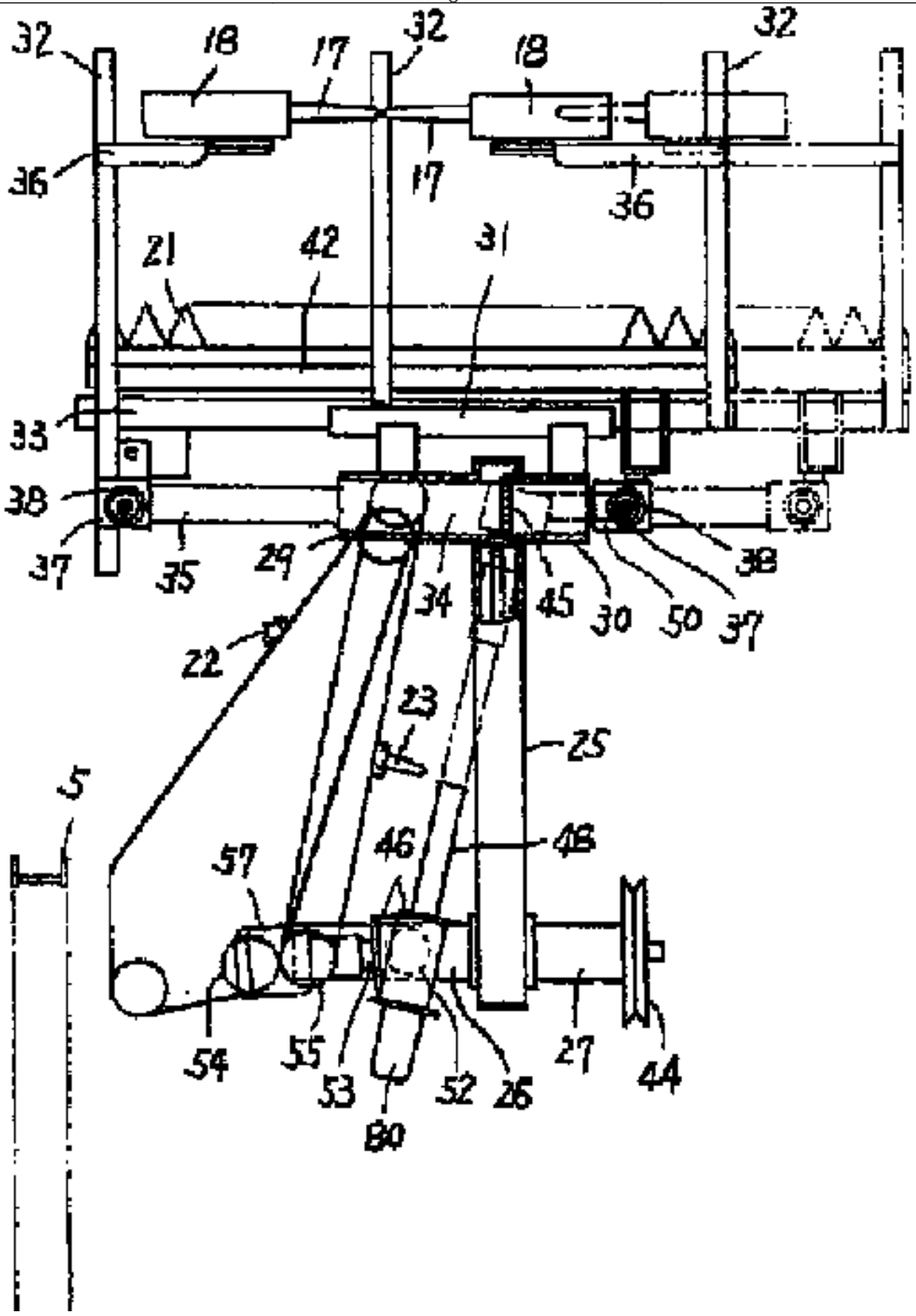
Family 141/667 - FAMPAT - ©Questel

Title

(JP09163845)

Combine harvester

Images



Publication data including kind & date

JPH09163845	A	1997-06-24	JP09163845
JP2922159	B2	1999-07-19	JP2922159

Abstract

(JP2922159)

PROBLEM TO BE SOLVED: To provide a combine harvester aiming at the simplification of a reaping transmission structure for transmitting a power to a reaping part capable of freely sliding in a widthwise direction.SOLUTION: This combine harvester is provided by constituting a culm raising member (18) linked to the front part of a traveling machine body through a reaping main frame (25) around a transversal shaft (26) in a widthwise direction as capable of freely lifting and swinging, and a reaping blade (21) capable of freely sliding and transferring in the widthwise direction relative to a

reaping main frame (25), also arranging a reaping input shaft on the same shaft as the transversal shaft (26) in the widthwise direction, and installing a reaping transmission shaft for transmitting the power from the reaping input shaft to the raising member (18) and the reaping blade (21) as freely expandable and flexible.

Inventors

OKAZAKI MASAHARU
MUKUSHIRO HIROSHI
YABUKI MAKOTO

Latest standardized assignees - inventors removed

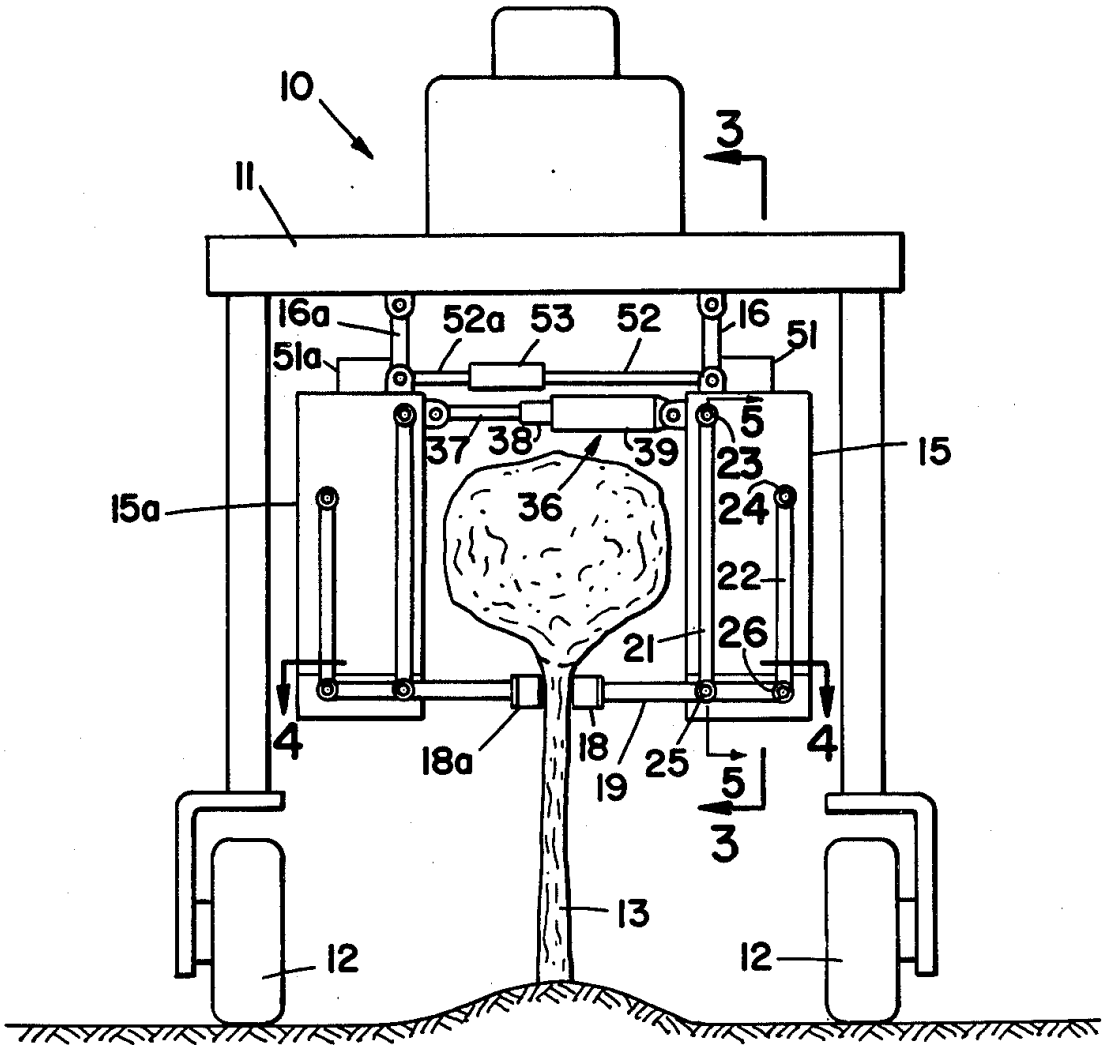
SEIREI KOGYO

Family 142/667 - FAMPAT - ©Questel

Title

(US4179871)
Suspension system for harvester shaker member

Images



Publication data including kind & date

IT7851884	D0	1978-11-13	IT7851884
ES474103	A1	1979-05-01	ES-474103
FR2417247	A1	1979-09-14	FR2417247
US4179871	A	1979-12-25	US4179871
AU4051378	A	1980-04-17	AU7840513
AU522856	B2	1982-07-01	AU-522856

FR2417247	B1	1985-05-10	FR2417247
IT1107760	B	1985-11-25	IT1107760

Abstract

(US4179871)

A suspension and support system for shaker elements of a mechanical harvester wherein a generally horizontal shaker element support is suspended from the frame of the machine by a pair of generally vertical links pivotally connected at their lower and upper ends respectively to the shaker element support and frame, the links being of unequal length so that the unequal swinging movement of the links relative to the frame will result in a solely horizontal movement of the shaker element which is mounted on the end of the horizontal support member.The pivot connections have no relatively moving, interengaged surfaces so as to prevent sticking of such connections in the event juice accumulates thereon.

Inventors

CLAXTON GERALD L

Latest standardized assignees - inventors removed

UP RIGHT

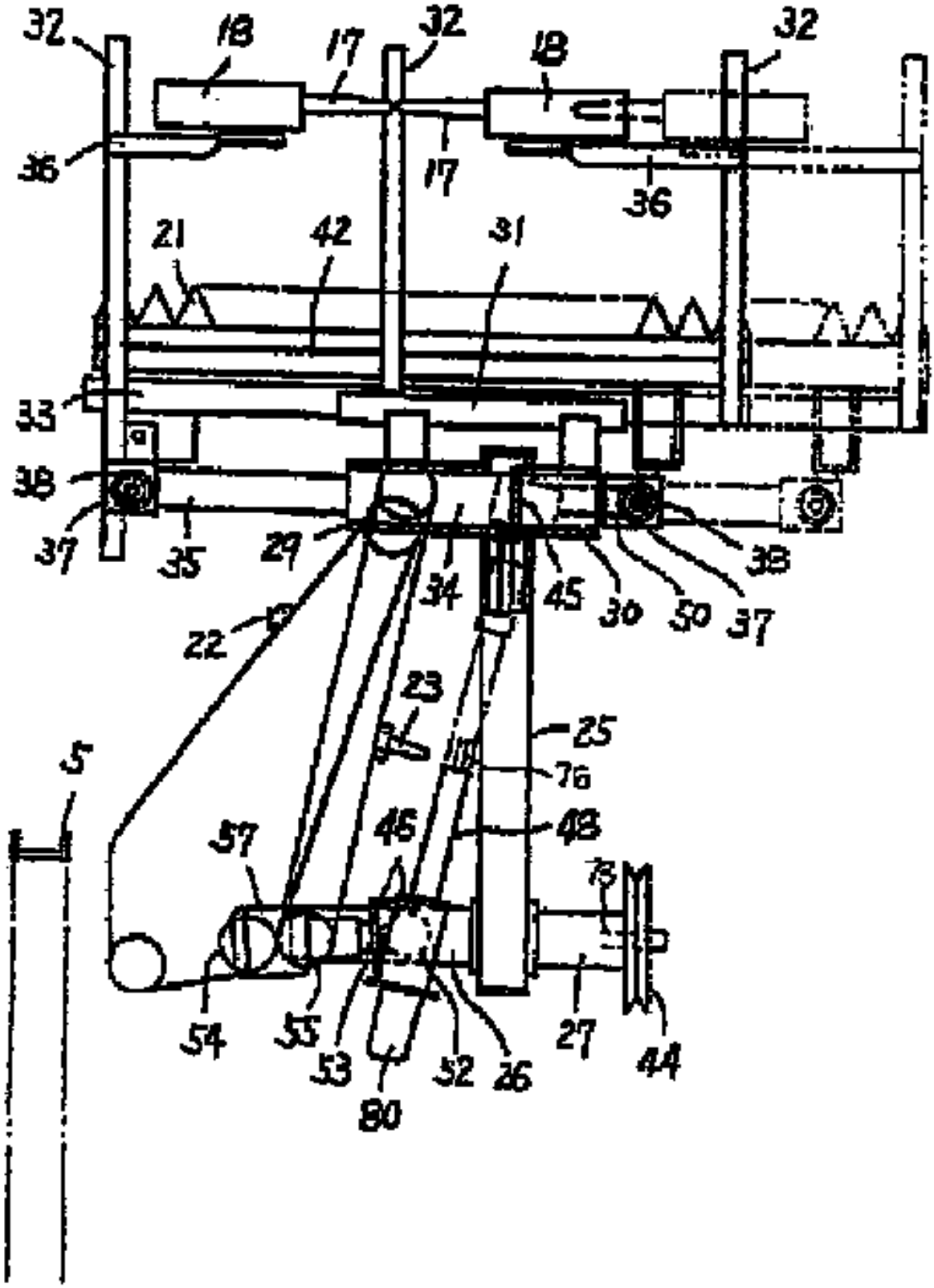
Family 143/667 - FAMPAT - ©Questel

Title

(JP11206228)

Combine harvester

Images



Publication data including kind & date

JPH11206228	A	1999-08-03	JP11206228
JP3292464	B2	2002-06-17	JP3292464

Abstract

(JP3292464)

PROBLEM TO BE SOLVED: To provide a combine harvester designed to simplify a reaping transmission structure for transmitting a power to a reaping part freely slidable right and left.SOLUTION: This combine harvester has a grain culm-raising member 18 and reaping blade 21, connected to the front part of a traveling machine body through a reaping main frame 25 so as to be freely swung upper and lower around a right and left direction lateral shaft 26, and constituted so as to be freely and relatively slidable in the lateral direction to the reaping main frame 25, a reaping input shaft arranged on the

same axis center as the right and left direction shaft 26, a reaping transmission shaft 76 for transmitting the power from the reaping input shaft to the grain culm-raising member 18 and the reaping blade 21, arranged in the front and rear direction, a grain culm- conveying part 22 and 23 to which the power is transmitted from the reaping input shaft 73, arranged so that the right and left direction distance may be kept constant and so as to be kept parallel to the reaping transmission shaft 76 in spite of bending displacement of the reaping transmission shaft 76.

Inventors

OKAZAKI MASAHARU

MUKUSHIRO HIROSHI

YABUKI MAKOTO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

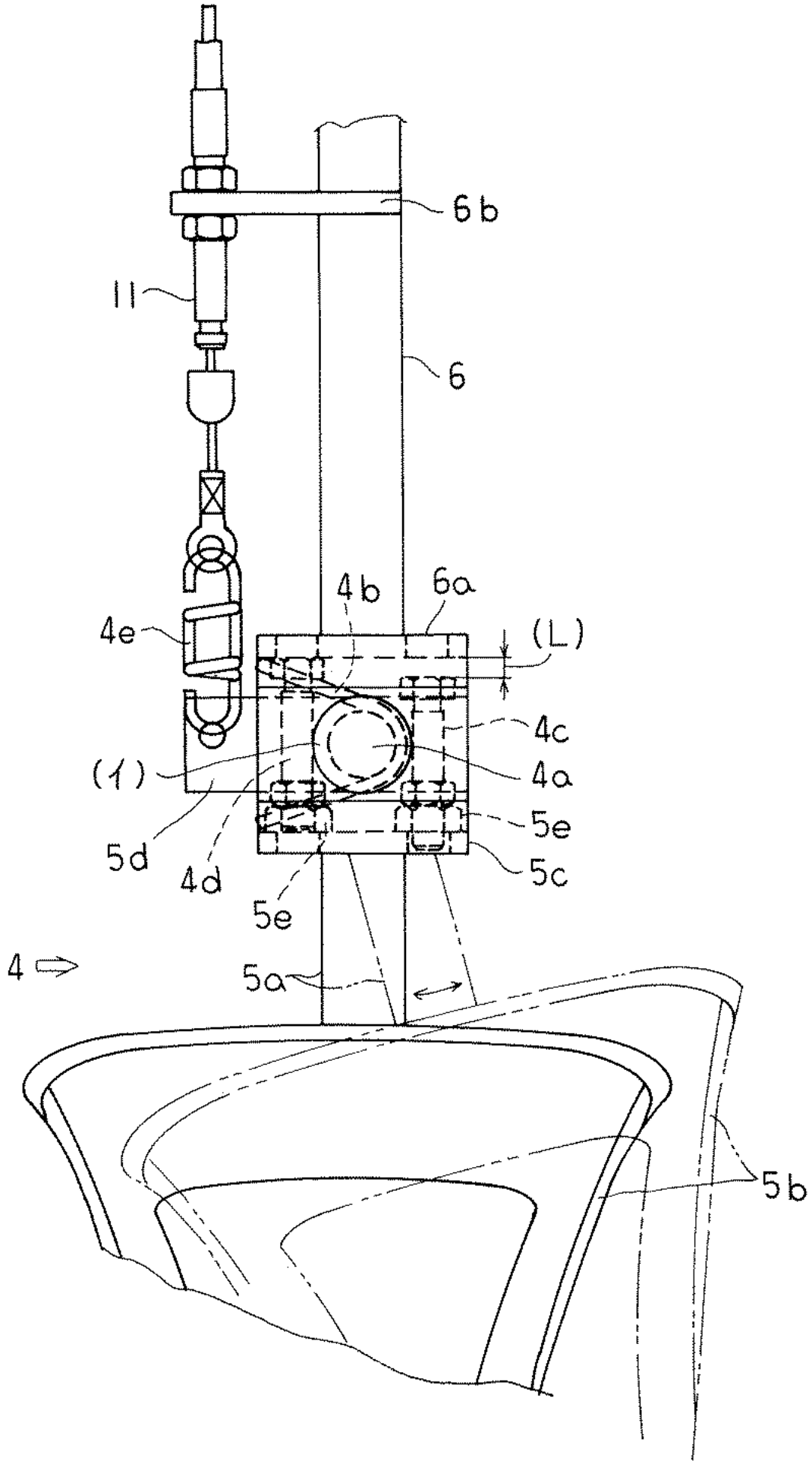
Family 144/667 - FAMPAT - ©Questel

Title

(JP2006158332)

Grain culm divider for combine harvester

Images



Publication data including kind & date

JP2006158332	A	2006-06-22	JP2006158332
JP4765305	B2	2011-09-07	JP4765305

Abstract

(JP4765305)
PROBLEM TO BE SOLVED: To provide a grain culm divider designed to prevent grain culms from being trodden under a traveling crawler through turningly moving operation of the divider at the right outerside for separating to-be-reaped grain culms sideways left and right.
SOLUTION: In such a combine harvester that a reaper 3 for reaping and conveying standing grain culms is provided in front of a travel chassis 2, wherein the reaper 3 is equipped with the grain culm divider 4, a grain culm raiser 7, a raking-in device 8a for raised grain culms, and a cutting blade device 9 for raked-in grain culms, successively from the front of the reaper 3, the grain culm divider 4 at the right outerside of the combine harvester has the following construction and mechanism: In front of a dividing pipe 6 provided forwardly projectedly from the rear portion of the reaper 3, a dividing rod 5a internally mounted in a dividing guide plate 5a is provided turnably left and right, and the dividing rod 5a and a remote control lever 10 are joined to each other via a joining member 11, and the grain culm divider 4 is provided in a turningly movable way left or right through the operation of the control lever 10.
COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

SATOJI HISAYUKI
SAKAMOTO NORIYUKI
OKUMOTO KOJI
SAITO MANABU
HIROTA MIKIJI
MIZUMOTO TOSHIHIKO

Latest standardized assignees - inventors removed

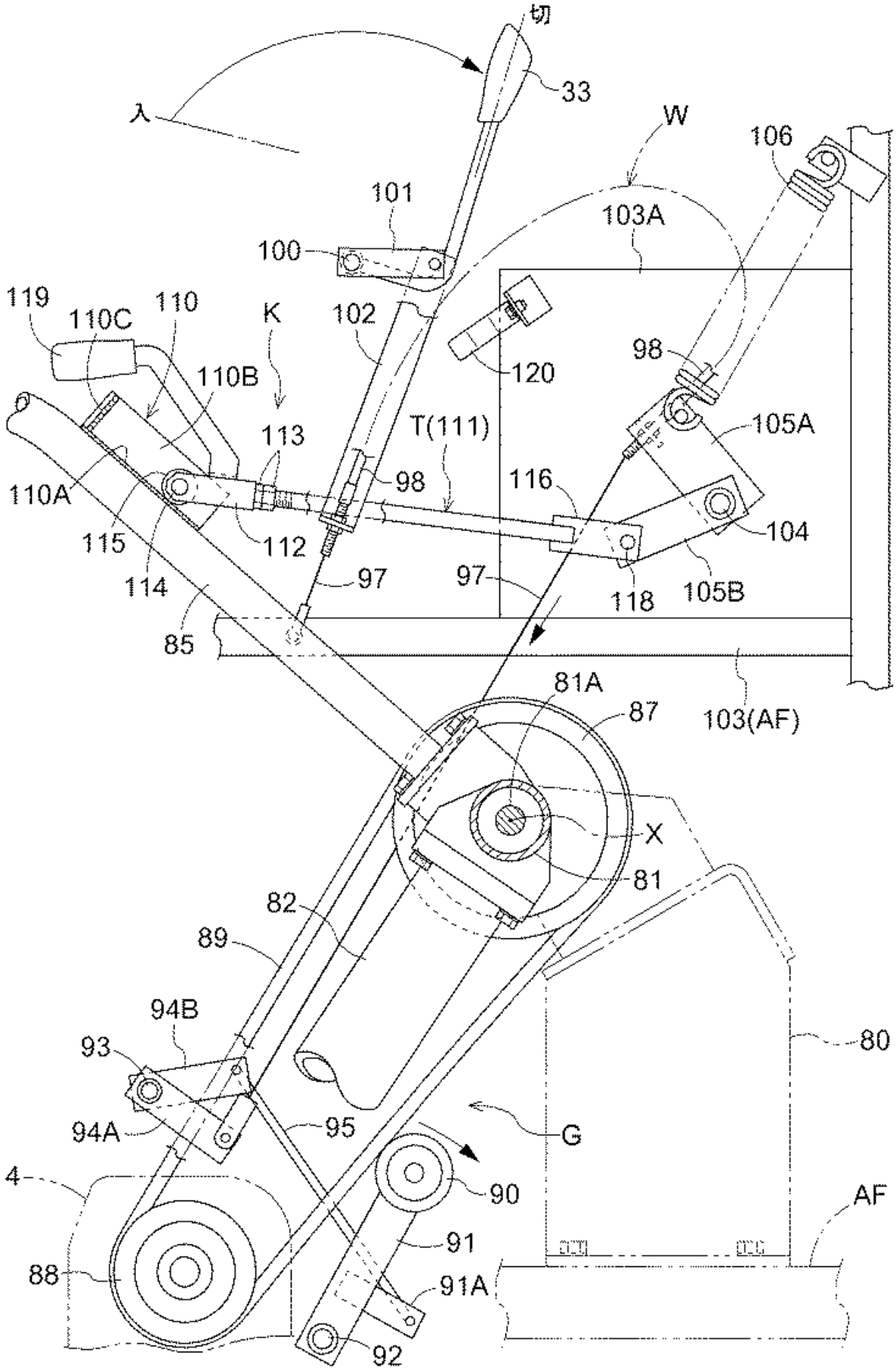
ISEKI AGRICULTURAL MACHINERY

Family 145/667 - FAMPAT - ©Questel

Title

(JP2014057540)
Combine

Images



Publication data including kind & date

CN203136537	U	2013-08-21	CN203136537U
JP2014057540	A	2014-04-03	JP2014057540
JP5822807	B2	2015-11-24	JP5822807

Abstract

(JP5822807)

PROBLEM TO BE SOLVED: To use a small number of components to form a linkage operation system for switching a reaping clutch from an on state to an off state in association with elevation of a reaping part.SOLUTION: One end of an inner wire 97 of an operation wire W is connected and fixed to a machine body frame AF, and the other end is connected to a first intermittent arm 94A of a reaping clutch G.One end of an outer wire 98 of the operation wire W is linked to a reaping clutch lever 33, and the other end is supported by a first intermediate arm 105A.The outer wire 98 is displaced in a direction for tensing the inner wire 97 when the reaping clutch lever 33 is operated to switch from an off position "off" to an on position "on," and the other end of the outer wire 98 is displaced in a direction for relaxing the inner wire 97 when a reaping part is elevated.

Inventors

Shimoda Yohei
TAKENAKA MITSURU
Tomoya Matsubayashi
HIRATA SUSUMU
SUZUKI SACHIHIRO
Ken Kuwashima

Latest standardized assignees - inventors removed

KUBOTA

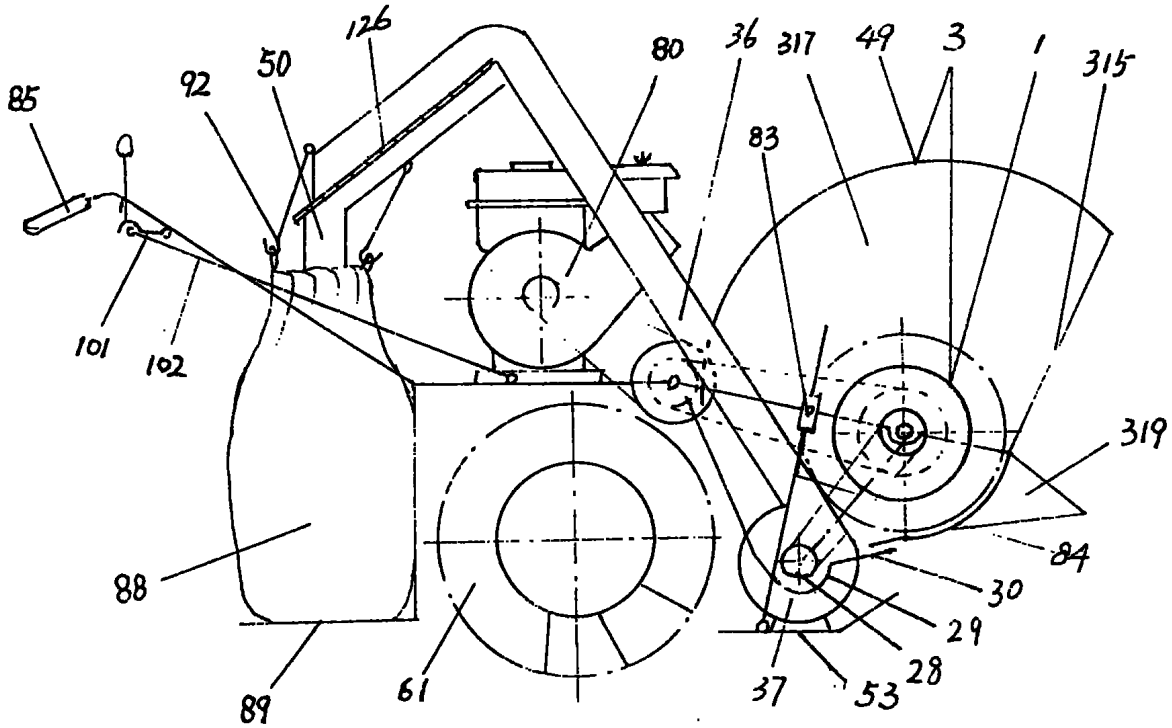
Family 146/667 - FAMPAT - ©Questel

Title

(CN1328942C)

Rice wheat primary thresher and harvester using same

Images



Publication data including kind & date

CN1194771	A	1998-10-07	CN1194771
CN1328942	C	2007-08-01	CN1328942C

Abstract

(CN1328942C)

A primary thresher for wheat and rice has drum or belt with peripheral hook teeth, which can catch the rice or wheat straws toward its upper part for directly threshing with less impurities and less amount of post treatments.The harvester using said

thresher has different types, such as manual type, self-propelling type, and trailing type.Its advantages include light weight, easy operation, lowcost, simple structure, low loss and high productivity.

Inventors

CHEN XINGZHONG

CHEN XINGFANG

CHEN XINGAN

Latest standardized assignees - inventors removed

ZHENG FENG

Family 147/667 - FAMPAT - ©Questel

Title

(US2742329)

Deflector for delivery pipe

Images

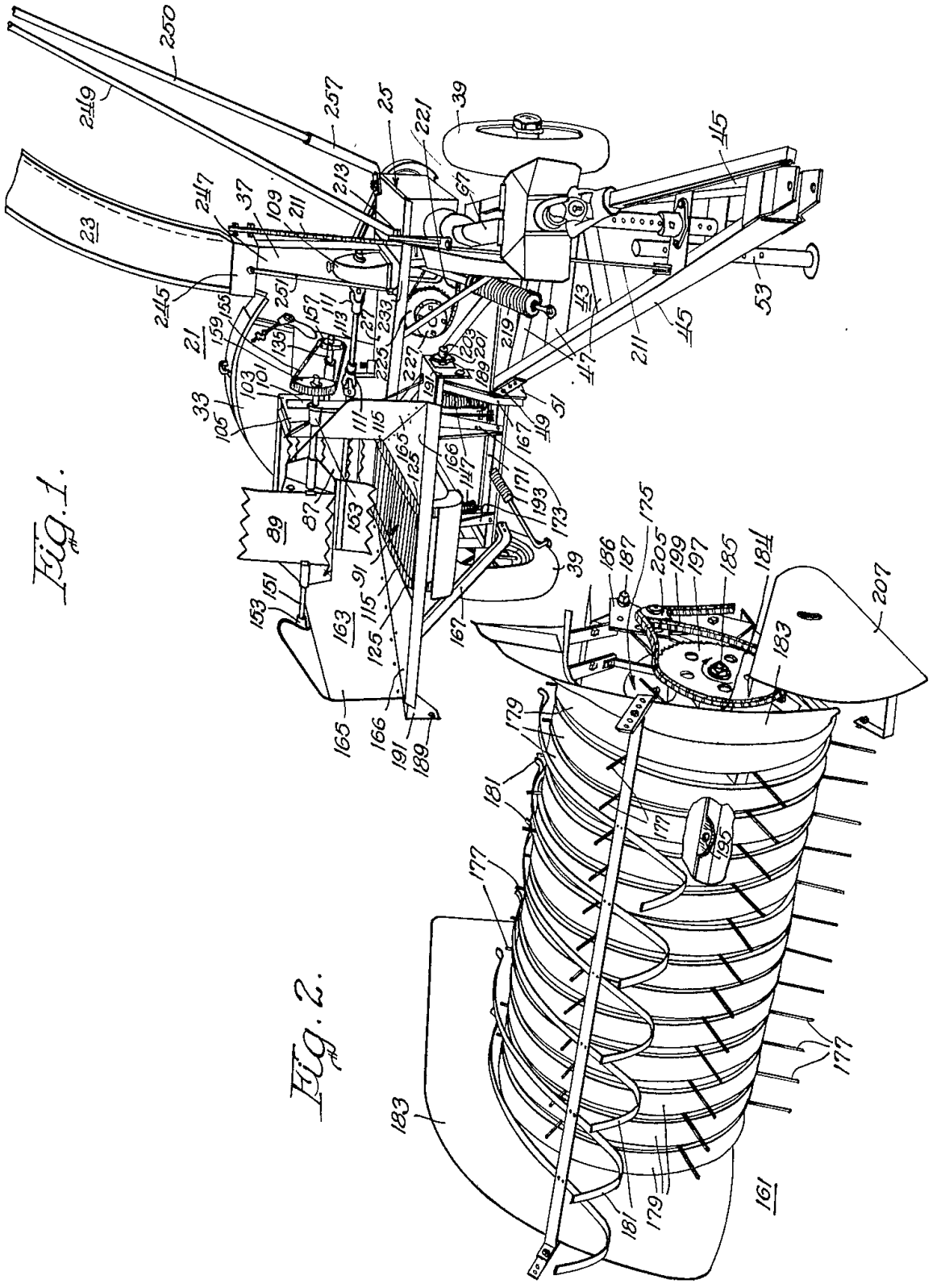


Fig. 1.

Fig. 2.

Inventor:
Charles W. Hansen.
By Soans, Pond & Anderson
Attorneys

Publication data including kind & date

US2661585	A	1953-12-08	US2661585
US2720424	A	1955-10-11	US2720424
US2742329			

A 1956-04-17 US2742329

Inventors

HANSEN CHARLES W

Latest standardized assignees - inventors removed

CNH GLOBAL

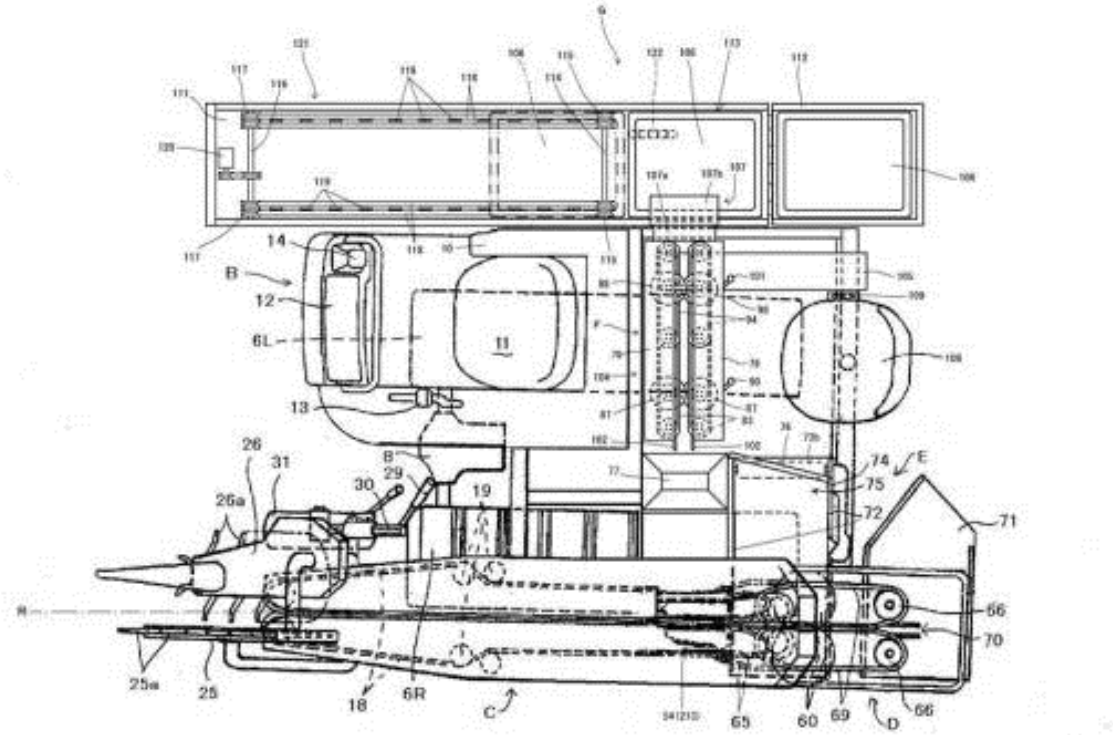
Family 148/667 - FAMPAT - ©Questel

Title

(JP2014008026)

Agricultural crop harvester

Images



Publication data including kind & date

JP2014008026	A	2014-01-20	JP2014008026
JP6069908	B2	2017-02-01	JP6069908

Abstract

(JP6069908)

PROBLEM TO BE SOLVED: To provide an agricultural crop harvester, capable of performing a preparation work simultaneously with the extracting harvest of a crop and capable of easily performing the cutting positioning of a foliage part in accordance with the crop.SOLUTION: The agricultural crop harvester comprises: an extracting and transporting device 24 for extracting crops from a farm field and transporting the crops; position arranging devices 54 and 213 for arranging the cutting positions of foliage parts of the crops at the extracting and transporting device 24; a foliage cutting device 61 for cutting the foliage parts of the crops arranged by the position arranging devices 54 and 213; a crop transporting device 75 for receiving the crops to fall down the foliage cutting device 61 and transferring the crops from one side of right and left sides to the other side of the right and left sides; a storage member 78 on the transport ending side of the crop transporting device 75; a transport starting end side of a preparation transporting device 104 on the other side of right and left sides of the storage member 78; and a housing part 113 arranged with a housing member 106, which houses the crops, below the transport ending side of the preparation transporting device 104.

Inventors

Masami Muramachi

TAKAGI SHINGO

Hideaki Kurose
YUMITATSU TAKESHI

Latest standardized assignees - inventors removed

ISEKI

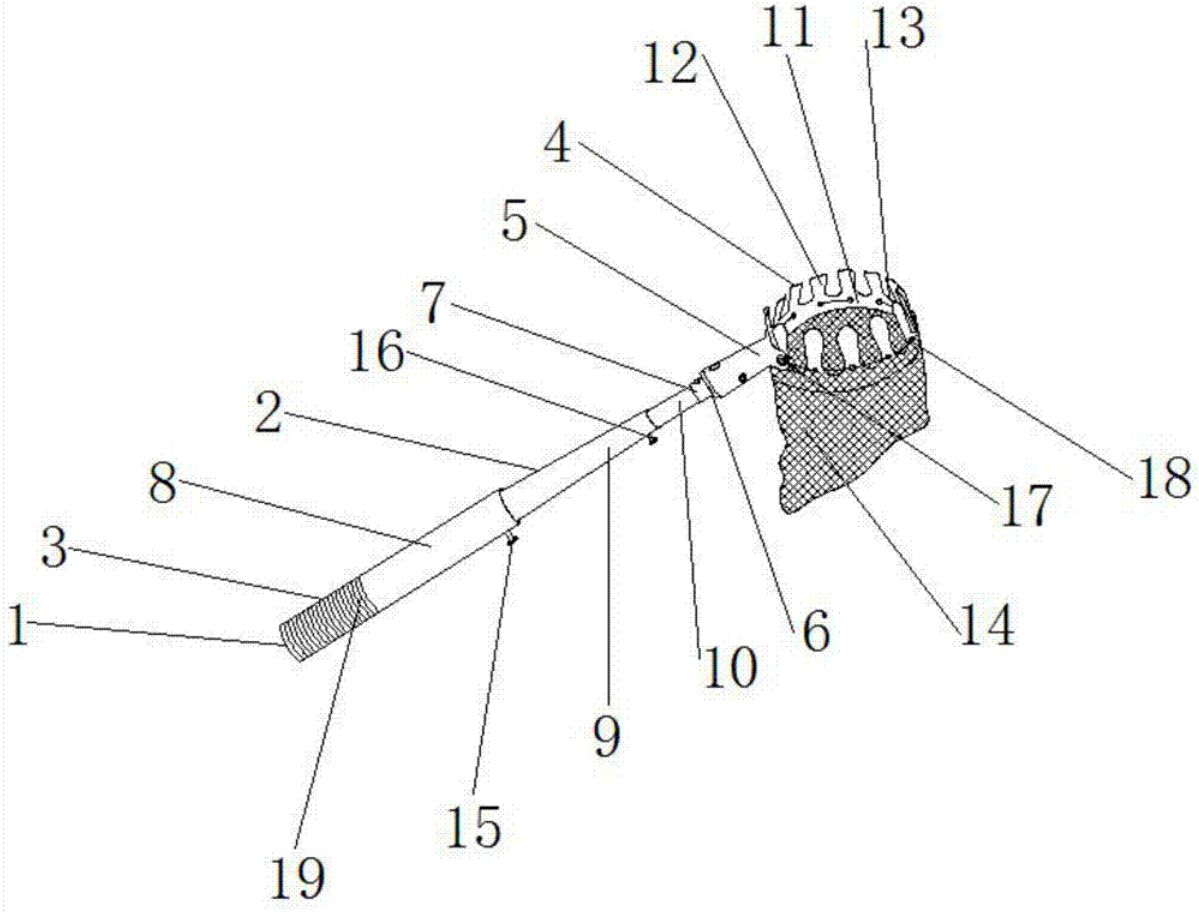
Family 149/667 - FAMPAT - ©Questel

Title

(CN207185240U)

Take portable's for red date fruit picking device

Images



Publication data including kind & date

CN207185240	U	2018-04-06	CN207185240U

Abstract

(CN207185240U)

The utility model discloses a take portable's for red date fruit picking device, the top of fruit picking device body is provided with flourishing fruit ware, the top of support is provided with smooth tooth, the both sides of smooth tooth are provided with the recess, the bottom of flourishing fruit ware is provided with the support, the inside embedding of support has the fixed orifices, the outside of fixed orifices is provided with the string bag, the bottom of flourishing fruit ware is provided with the bracing piece, the both sides at bracing piece top are provided with a the set screw,the inside embedding of bracing piece has solid fixed ring, gu fixed ring's bottom is provided with screwed joint, screwed joint's bottom is provided with telescopic rod, telescopic rod's top is provided with the second telescopic link, the bottom of second telescopic link is provided with first telescopic link, the bottom of first telescopic link is provided with the dead lever, the bottom of dead lever is provided with the handle, the surface of handle is provided with the antiskid and grinds the line, the utility model discloses the bottom of dead lever is provided with the handle, and thesurface of handle is provided with the antiskid and grinds the line, and the antiskid is wear -resisting, and is safe practical, has improved the life of handle.

Inventors

LI JIANGUI

ZHANG LEI
ZHU YINFEI
YU TING
LI JING
CAO YUJIANG
WANG NA

Latest standardized assignees - inventors removed

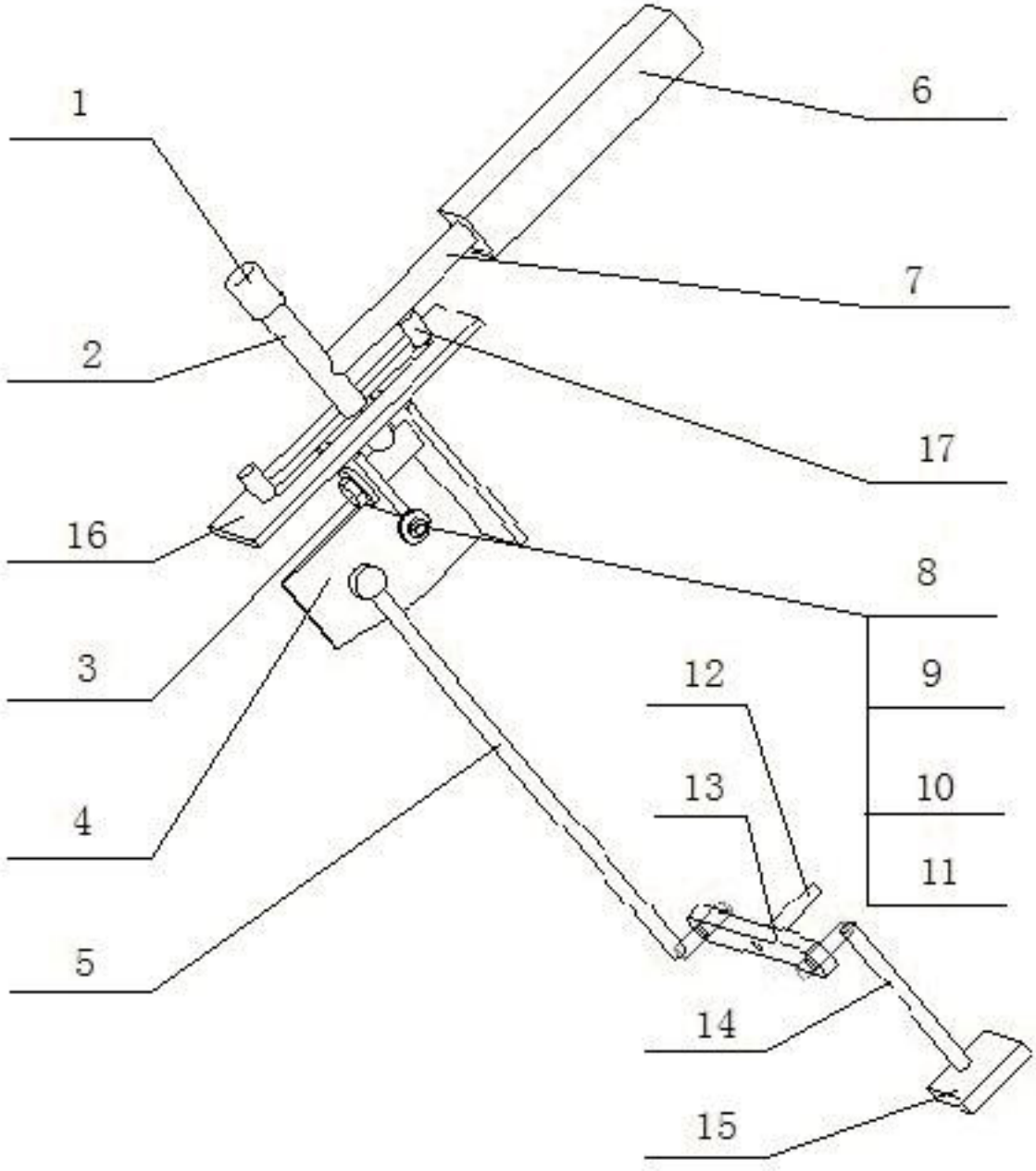
XINJIANG AGRICULTURAL UNIVERSITY
XINJIANG GOLDEN ORCHARD AGRICULTURE & FORESTRY TECHNOLOGY

Family 150/667 - FAMPAT - ©Questel

Title

(CN102668806)
Manual-automatic integrated hydraulic stepless speed regulation actuating mechanism of combine harvester

Images



Publication data including kind & date

CN102668806 A 2012-09-19 CN102668806

Abstract

(CN102668806)

The invention discloses a manual-automatic integrated hydraulic stepless speed regulation actuating mechanism of a combine harvester, mainly relating to the technical field of intelligent control of agricultural machinery.The manual-automatic integrated hydraulic stepless speed regulation actuating mechanism of the combine harvester is characterized by being composed of a manual-automatic changeover switch, a handle, a driver, a moving frame, bolt components, a driving oscillating bar, a pull rod, a connecting rod, a limit switch and a support base, wherein the manual-automatic switch is composed of a button switch and a state indicating lamp; the driver is mainly used for controlling precise location of the handle; the connecting rod is mainly used for driving a corresponding actuating mechanism; the driving oscillating rod is mainly used for coordinating rotation between the pull rod and the connecting rod; all the components are connected through bolt components; the limit switch is used for judging whether the handle reaches to a limiting position.The manual-automatic integrated hydraulic stepless speed regulation actuating mechanism of the combine harvester, disclosed by the invention, has the advantages of realizing automatic speed regulation of the combine harvester and laying a foundation for the intelligent control of the combine harvester.

Inventors

LI YAOMING
CHEN JIN
GU WENLONG
ZHENG SHIYU
LÜ SHIJIE
HANG CHAO
LI JIANHUA
LIU SHIJIE

Latest standardized assignees - inventors removed

JIANGSU UNIVERSITY

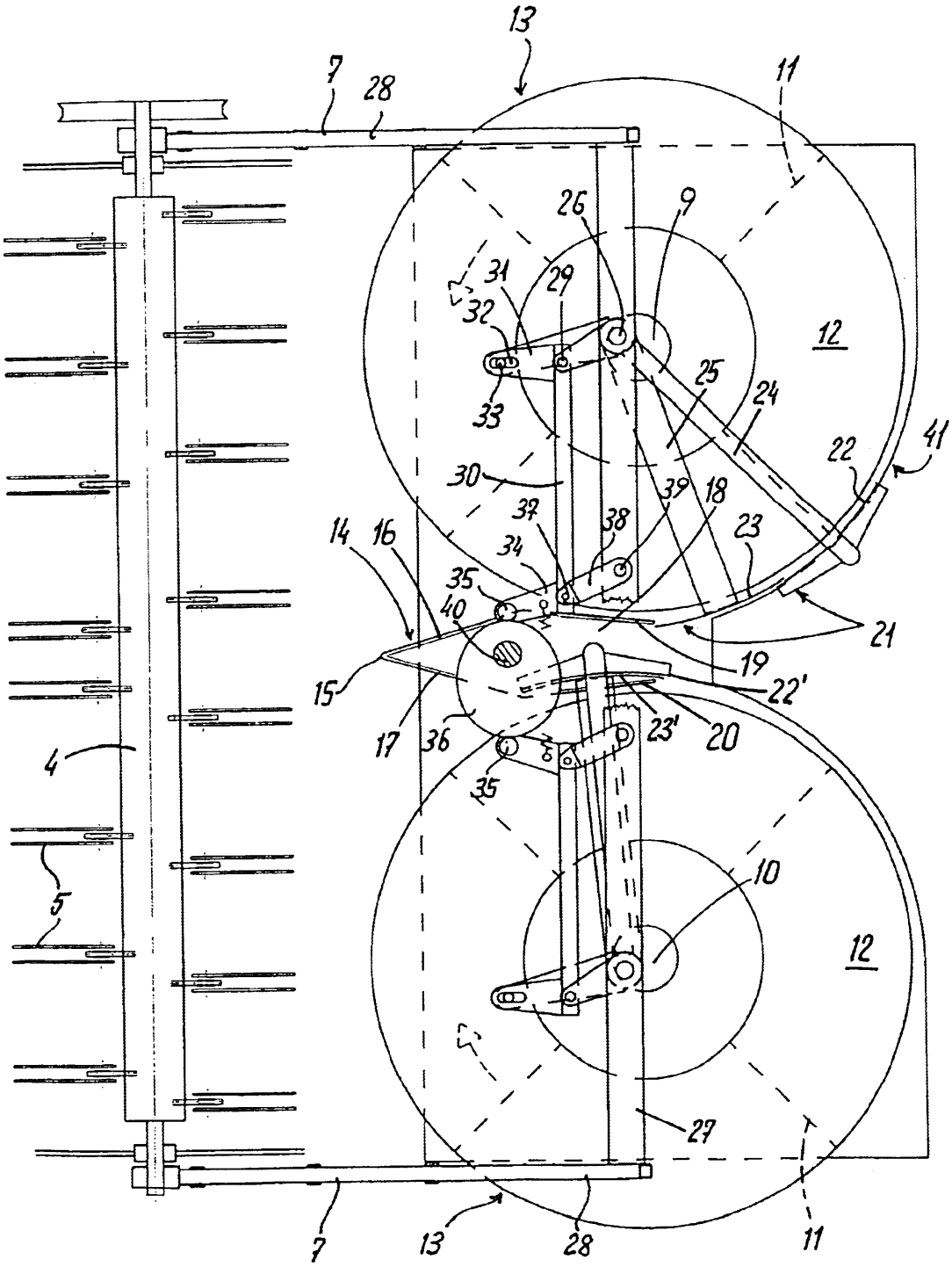
Family 151/667 - FAMPAT - ©Questel

Title

(EP1277387)

Combine harvester with chopper and contiguous discharge fan

Images



Publication data including kind & date

EP1277387	A1	2003-01-22	EP1277387
US20030017861	A1	2003-01-23	US20030017861
DE10133965	A1	2003-02-13	DE10133965
US6736721	B2	2004-05-18	US6736721
AT354939	T	2006-03-15	ATE354939
EP1277387	B1	2007-02-28	EP1277387
DK1277387	T3	2007-04-02	DK1277387T
DE50209570	D1	2007-04-12	DE50209570

Abstract

(EP1277387)

The agricultural thresher has a chopper on its discharge side with two adjacent radial throwing blowers and a separating

plate to define the crop feed into two streams.Each of the two adjustable thrower cover plates (21) are cylindrical and extend into a gap (18) between the side shanks (16,10) of the divider plate.The cover plates are pivotable to vary the direction of the crop flow.

Inventors

NIERMANN MARTIN
BRINKMANN JOERN
NOLLMANN JUERGEN
AMSBECK DIETER

Latest standardized assignees - inventors removed

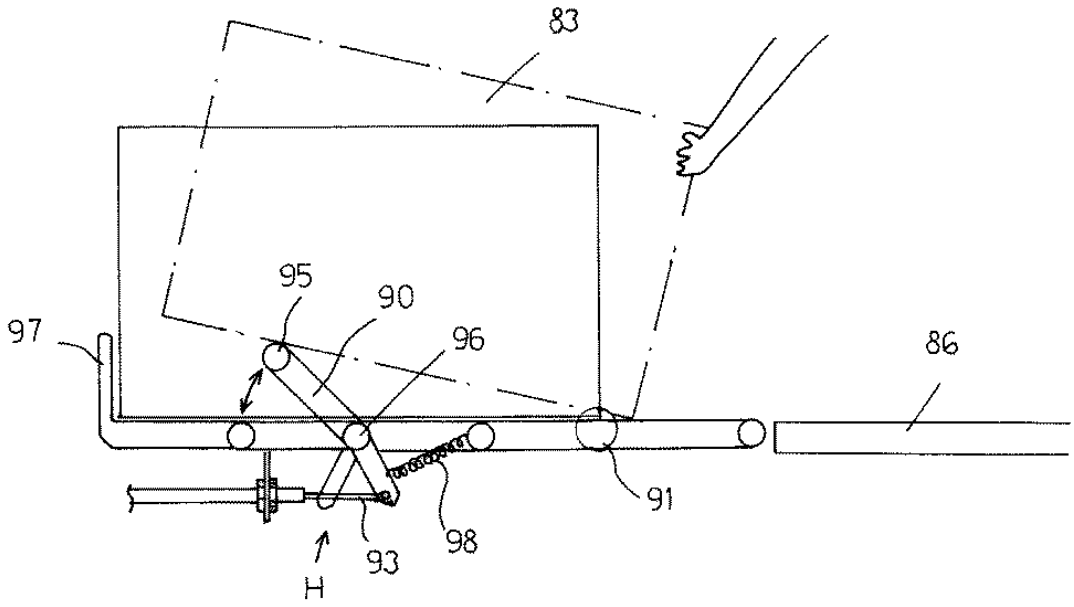
CLAAS SELBSTFAHRENDE ERNTEMASCHINEN

Family 152/667 - FAMPAT - ©Questel

Title

(JP2012157268)
Self-propelled root vegetable harvester

Images



Publication data including kind & date

JP2012157268	A	2012-08-23	JP2012157268
JP5793876	B2	2015-10-14	JP5793876

Abstract

(JP5793876)

PROBLEM TO BE SOLVED: To improve the workability of a conventional self-propelled root vegetable harvester so that an auxiliary worker can easily change a filled receiving container for an empty receiving container.SOLUTION: The self-propelled root vegetable harvester having a harvesting portion C for pulling out root vegetables from a field and used for conveying the root vegetables dug out with the harvesting portion C to a selecting and conveying portion E, and selecting the root vegetables by the auxiliary worker sitting on the side portion of the selecting and conveying portion E is characterized by disposing a receiving container-putting base 84 for putting the receiving container 83 at the final end lower portion of the selecting and conveying conveyer 78 of the selecting and conveying portion E, disposing a receiving

container-putting base 86 on one side of the receiving container-putting base 84, disposing a preliminary receiving container-putting base 85 on the other side, and disposing a pullout-assisting mechanism H for assisting the pullout of the receiving container 83 on the side of the receiving container-putting base 84 on the receiving container-putting base 84.

Inventors

ODAGIRI HAJIME

Masami Muramachi

TAKAGI SHINGO

Takanori Iwabe

Hideaki Kurose

Yoshimi Akira

Latest standardized assignees - inventors removed

ISEKI

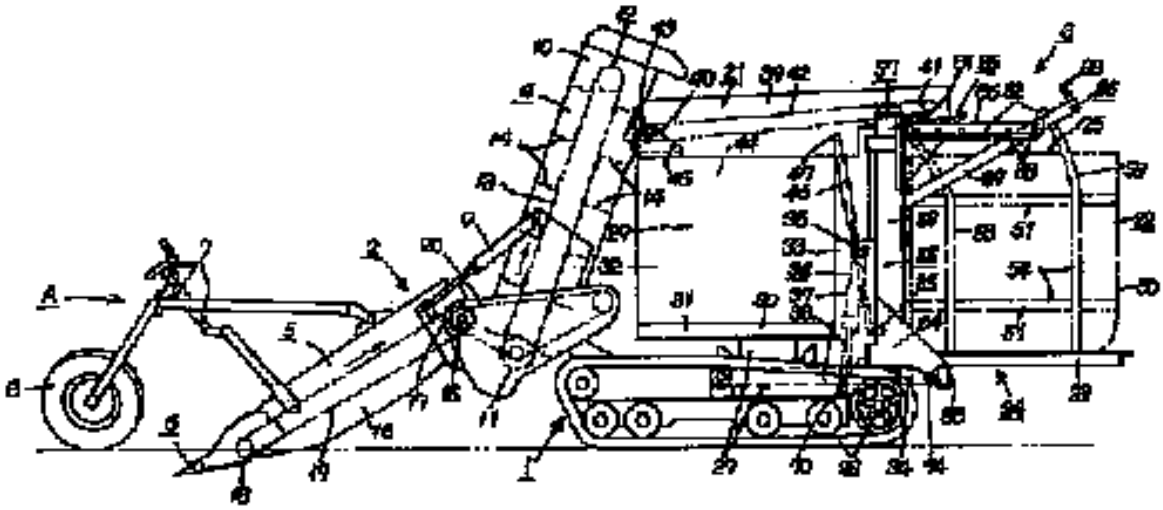
Family 153/667 - FAMPAT - ©Questel

Title

(JP11299318)

Harvester

Images



Publication data including kind & date

JPH11299318	A	1999-11-02	JP11299318
JP3310616	B2	2002-08-05	JP3310616

Abstract

(JP3310616)

PROBLEM TO BE SOLVED: To provide a harvester which is positioned between the takeout end part of a conveyor and a storing body to change the delivery directions of transported materials depending upon the amounts of a harvest and a material not to be harvested sent to a conveyor and to surely house only the harvest in a storing body.SOLUTION: This harvester is equipped with a self-propelled working machine main body 1, a transporting apparatus 2 which is attached to the working machine main body 1 and digs and sends a harvest and a loading apparatus 3 which is attached to the working

machine main body 1 and loads the harvest transported from the transporting apparatus 2.The loading apparatus 3 has a conveyor 21 for sending the harvest, a placing stand 24 having a loading space plate 23 for placing a storing body 22 having a housing mouth 25 of the harvest sent from the transportation end part of the conveyor 21, opening to the top and a transported material guide body 26 changeable from a first guide position which faces the transportation end part of the conveyor 21 and guides the harvest transported from the transportation end part of the conveyor 21 to the housing mouth 25 of the storing body 22 to a second guide position for guiding a material not to be harvested sent from the transportation end part of the conveyor 21 to the outside of the housing mouth 25.

Inventors

TAKIZAWA YOSHINORI

MURAYAMA IKUO

Latest standardized assignees - inventors removed

MATSUYAMA PLOW MFG

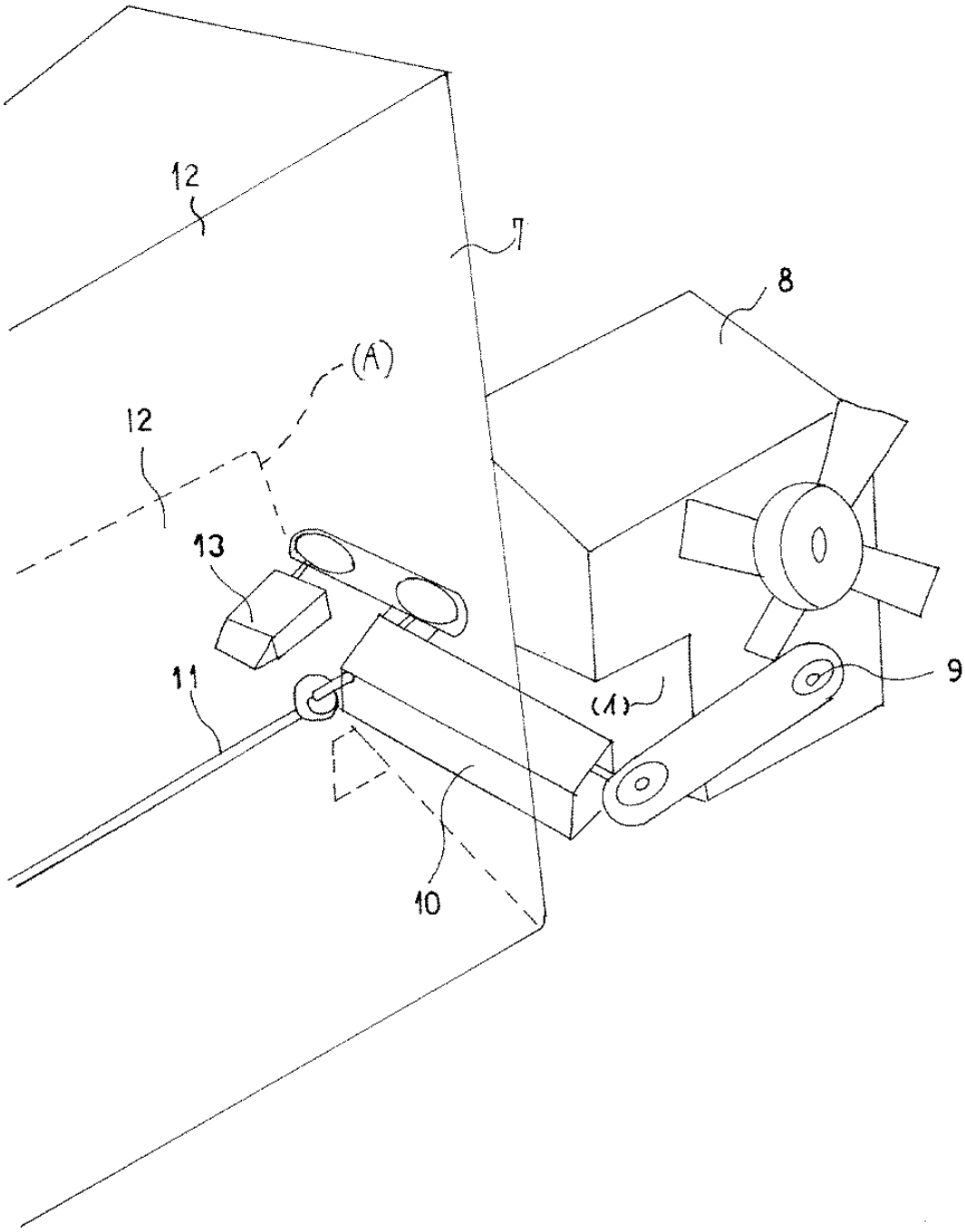
Family 154/667 - FAMPAT - ©Questel

Title

(JP2009077672)

Combine harvester

Images



Publication data including kind & date

JP2009077672 A 2009-04-16 JP2009077672

Abstract

(JP2009077672)

PROBLEM TO BE SOLVED: To provide a combine harvester so designed that a driving section comprising an engine 8 and a compressor 13 has a compact construction and is improved in durability through preventing excess load from applying onto the input shaft of the compressor 13.

SOLUTION: The combine harvester is so designed that a gear case (10) is set up so as to function to dividingly transmit a revolving mechanical power outputted from the crank shaft (9) of the engine (8) to an unloading conveyance spiral (11) provided on the lower part of grain tank (7) and to the compressor (13) beneath a grain-flowing-down guide plate (12) set up sidlingly at the bottom of the grain tank (7).Secondly, the combine harvester is so constructed that the compressor (13) is fitted on a recessed part (α) formed in the rear of the engine (8) and the compressor (13) is driven from the cooling fan shaft (8a) of the engine (8).

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

HAGIYAMA TAKESHI

DOI KAZUNORI

OCHI KOJI

NIIMI SHIZUO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

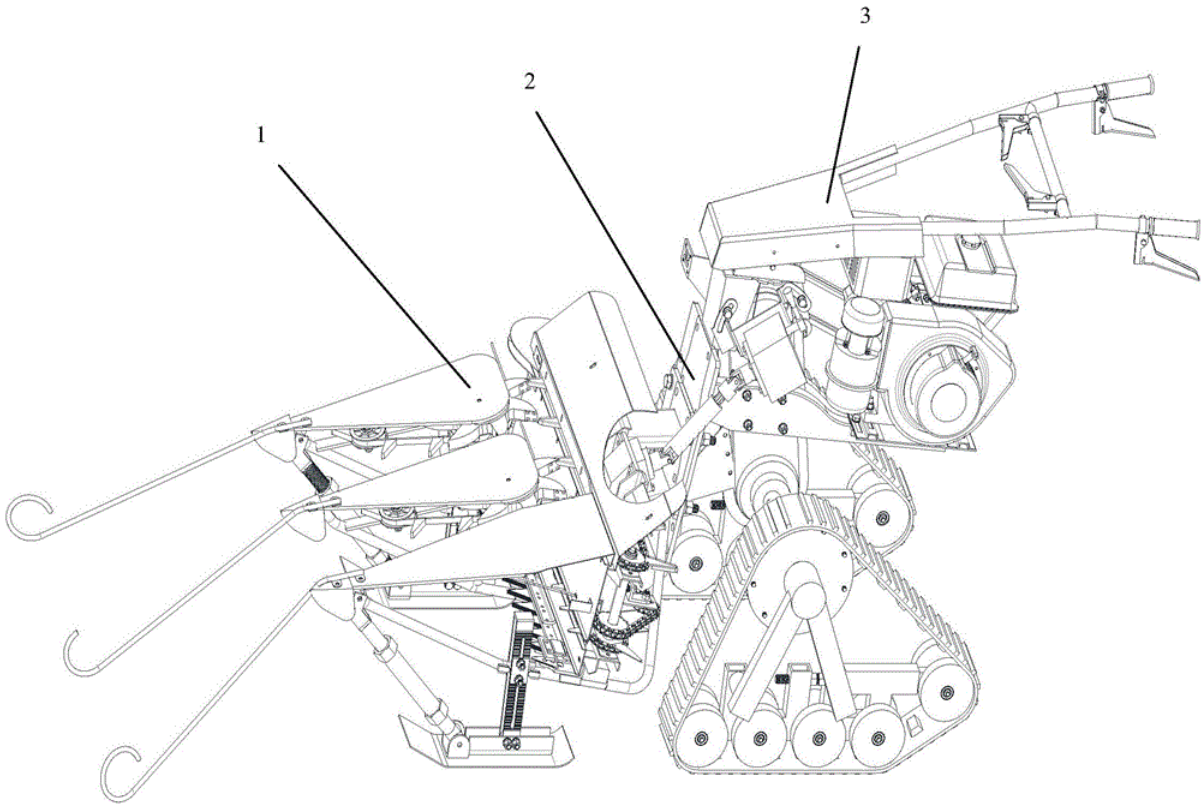
Family 155/667 - FAMPAT - ©Questel

Title

(CN205755541U)

Cutting height adjustable hybridization mulberry harvester

Images



Publication data including kind & date

CN205755541	U	2016-12-07	CN205755541U

Abstract

(CN205755541U)

The utility model relates to a cutting height adjustable hybridization mulberry harvester, including walking part, header and middle coupling part.Walking wheel adopt co -altitude not the triangle track or by the drive wheel that has height regulating mechanism etc.Can realize chassis ground clearance's adjustment, the header includes conveying mechanism, holds up standing grain mechanism, gathers together the mechanism, cutting knife, frame and header supporting mechanism, the header supporting mechanism adopts the piston shoes formula, middle coupling part includes big regulating plate, little regulating plate and universal slip joint, the utility model discloses can reach and cut the stubble and level, the harvester does not roll again and cuts the stubble, and still according to hybridization mulberry harvest season and production requirement, adjustment cutting height's purpose has simple structure, easily installs and characteristics such as maintenance, safe and reliable, has better practicality and popularization prospect.

Inventors

LI FADE

GAO TIANHAO
SONG ZHANHUA
Yan Yinfa
CHEN CHAOKE
WANG JING
WANG YONGBIN
XIE XUEWEN
CHEN HAORAN
GUO QINGHUI

Latest standardized assignees - inventors removed

SHANDONG AGRICULTURAL UNIVERSITY

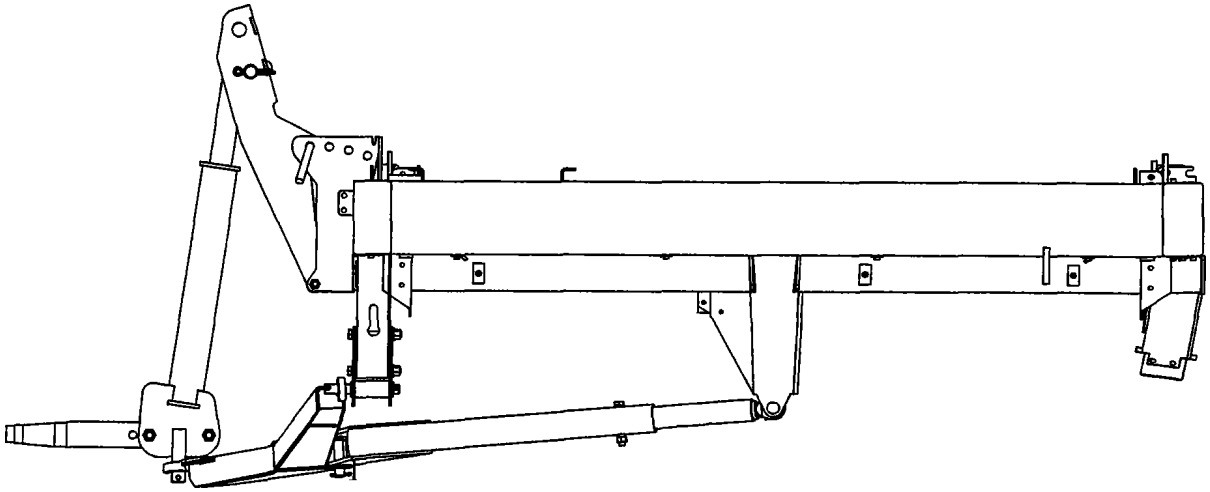
Family 156/667 - FAMPAT - ©Questel

Title

(CN203136532U)

Adjustable frame body of potato harvester

Images



Publication data including kind & date

CN203136532	U	2013-08-21	CN203136532U

Abstract

(CN203136532U)

The utility model belongs to the field of agriculture and animal husbandry machinery and particularly relates to an adjustable frame body of a potato harvester.The adjustable frame body of the potato harvester has the functions that the span is adjustable, the frame body can be lifted, the adjustable frame body of the potato harvester adapts to different road conditions and meets different work requirements and the operation requirements of gradient ground, and mainly comprises a mounting frame body, an adjusting bracket, a right traveling wheel shaft, a lift cylinder with a seat, a front and rear adjusting bracket solder, a front and rear adjuster, and a span adjusting bracket, wherein the adjusting bracket is positioned on the right side of the adjustable frame body, and is matched and fixed with two parts of the mounting frame body; the lift cylinder with the seat is positioned on the right side of the adjusting bracket, and is fixed with the adjusting bracket through a thick pin shaft, and is in rigid connection and fixing with the right traveling wheel shaft through a bolt B and a nut B, and a vertical shaft is welded on the lift cylinder with the seat and fixedly hinged to the front and rear adjusting bracket solder; and the front and rear adjusting bracket solder is positioned at the lower front part of the lift cylinder with the seat, and is fixedly connected with two parts of the mounting frame body through the span adjusting bracket and the front and rear adjuster.

Inventors

LI ZHIJIE
LIU ZHIGANG

LI WENGUANG
WANG ZHENHUA
DONG ZHONGYI
LUO JINHAI
GAO XIAOHONG
YANG LI
WANG QIANG
DU JIANQIANG
ZHANG NING
HAO XINGYU
ZHANG XIN
WANG RUIXIAN
LI WEI
SUN WENTING
GAO LEI
QIAN WANG
ZHAI GAIXIA
LI YONGLONG
ZHANG PING
CHENG JINYUAN

Latest standardized assignees - inventors removed

HUHHOT BRANCH OF CHINESE ACADEMY OF AGRICULTURAL MECHANIZATION SCIENCES

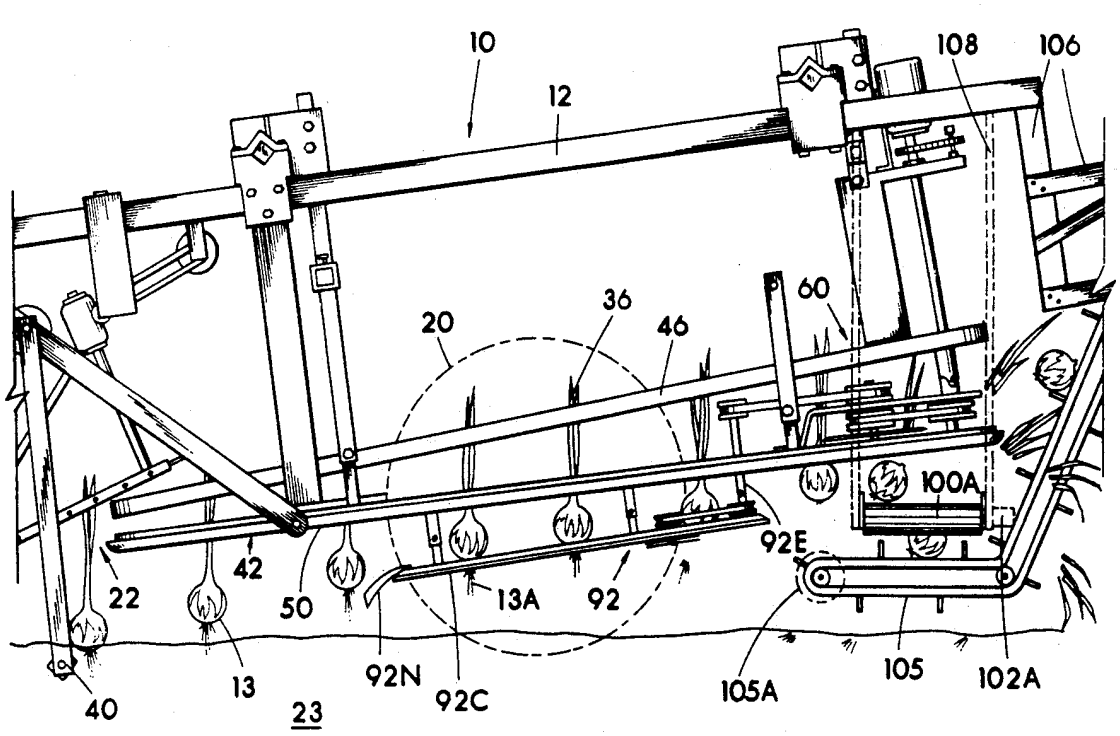
Family 157/667 - FAMPAT - ©Questel

Title

(US5207277)

Agricultural harvester

Images



Publication data including kind & date

US5207277 A 1993-05-04 US5207277

Abstract

(US5207277)

A bulb harvester with structure for lifting foliage attached to bulbs for presentation to an upper set of rotatably supported belts affixed to define a first foliage receiving crack.The first receiving crack is narrow for tightly gripping foliage attached to a bulb.The upper set of belts are positioned at a divergent angle relative to the ground.With rotation of the upper set of belts, gripped foliage with an attached bulb is drawn upward from the ground due to the divergent angle and transported toward the rear of the harvester.A lower set of elongated members define a second foliage receiving crack positioned below the first receiving crack to allow the first and second foliage receiving cracks to simultaneously possess the foliage of a bulb with the bulb positioned below a bottom plane of the lower set of elongated members.The upper set of belts are placed at a divergent angle relative to the lower set of elongated members to place the upper set of belts closer to the lower set of elongated members near the foliage lifting structure.The bottom plane of the lower set of elongated members provides an abutment surface for a bulb to abut against when drawn upward from the ground by the divergent angle of the upper set of belts with the abutting properly positioning the bulb prior to the cutting of the foliage from the bulb by cutting wheels.

Inventors

MEDLOCK HAROLD G

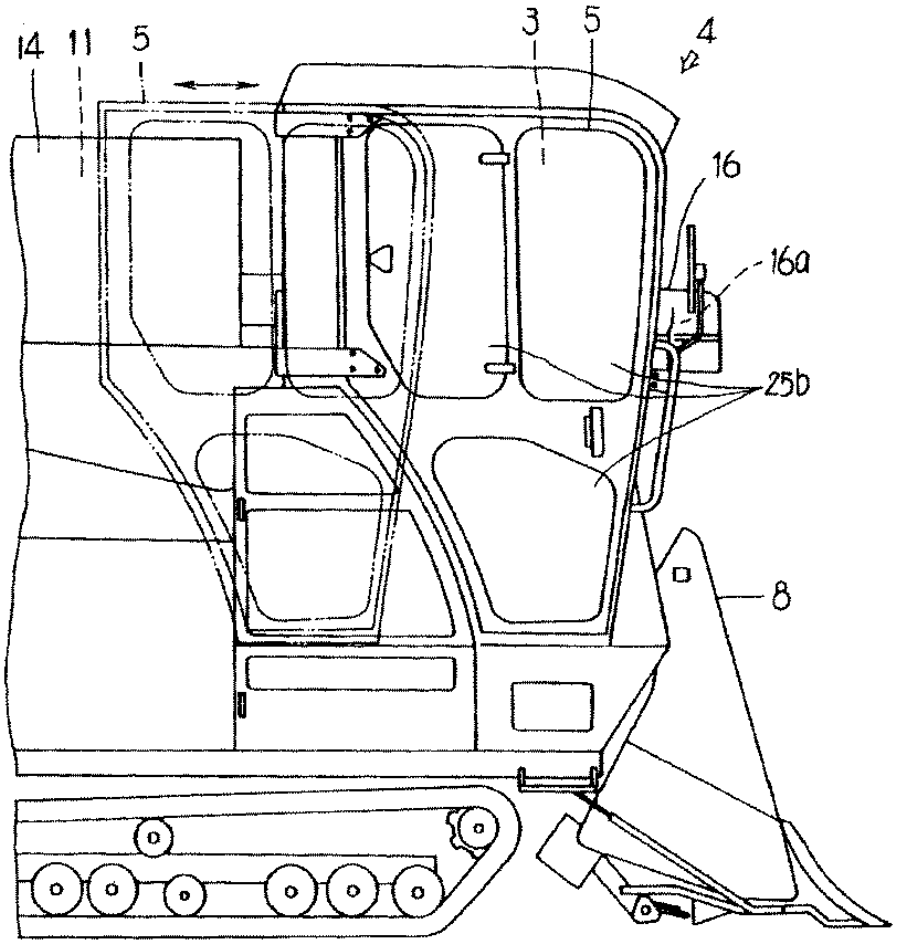
Family 158/667 - FAMPAT - ©Questel

Title

(JP2009240333)

Combine harvester

Images



Publication data including kind & date

JP2009240333	A	2009-10-22	JP2009240333
JP4748262	B2	2011-08-17	JP4748262

Abstract

(JP4748262)

PROBLEM TO BE SOLVED: To provide a combine harvester with a control room allowing the operator to get on and off even in a narrow space.

SOLUTION: The combine harvester includes a control room frame (4) which forms a control room (3) in front of a grain storing tank (14), the control room frame (4) being formed into a boxy shape by frame material, a door (5) freely opened and closed, having a window (25a) made of a resin or glass mounted on one side of the control room frame (4), a slide type opening/closing device (32) mounted on the inside of the door (5) to make the door (5) in open state by moving outward and then moving to a grain storing tank (14) side, an engine (6) mounted on the lower side of the control room frame (4), and an engine cover (7) freely opened and closed on the outside of the engine (6), wherein the door (5) is set to overlap with the engine cover (7) and the grain storing tank (14) in a side view, with the door (5) moved and opened toward the grain storing tank (14).

COPYRIGHT: (C)2010,JPO&INPIT

Inventors

YOSHINO MASAHIKO

DOI KAZUNORI

HAGIYAMA TAKESHI

OCHI KOJI

KOMATSU TAKUJI

KAJIWARA TAKAYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

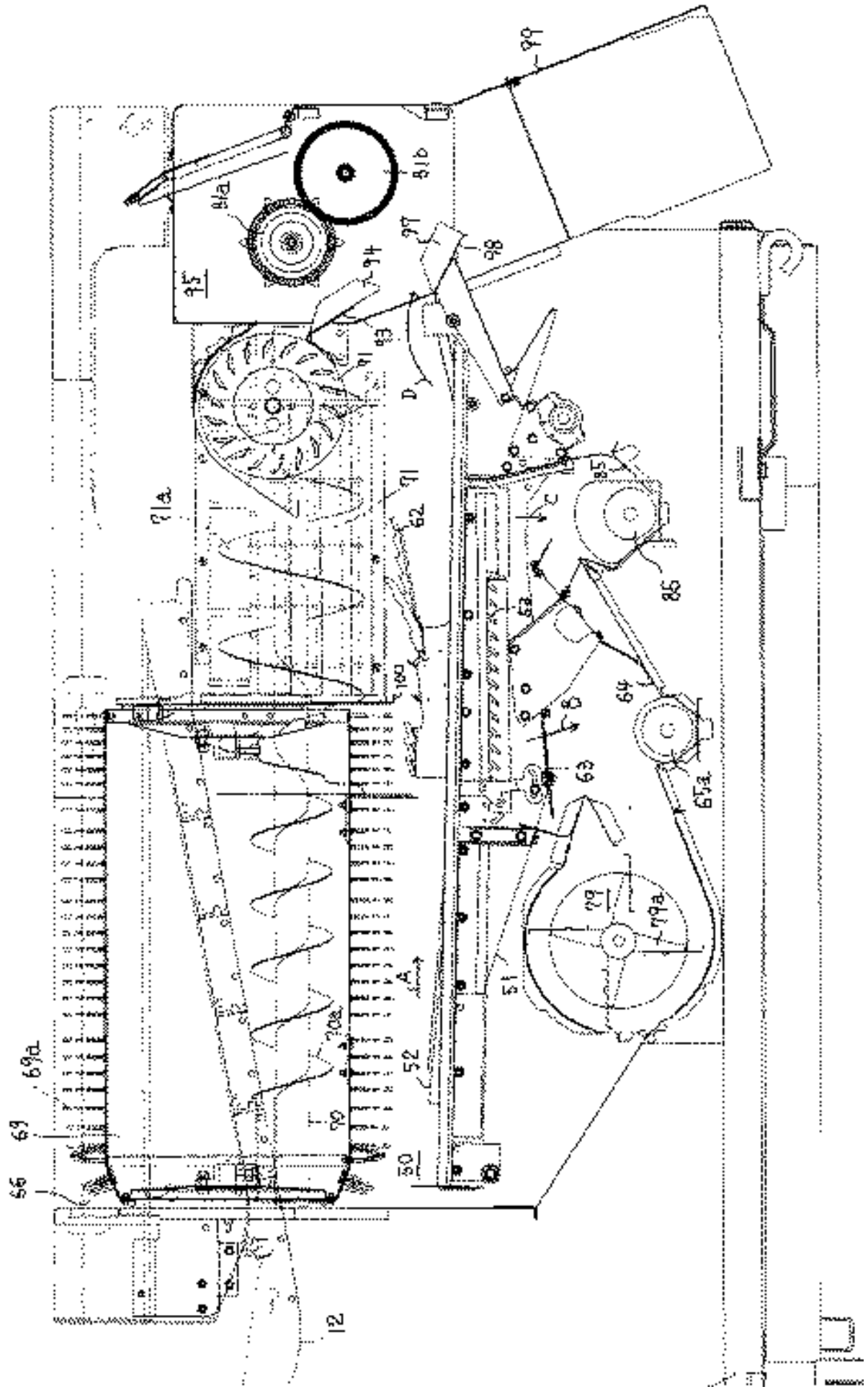
Family 159/667 - FAMPAT - ©Questel

Title

(JP2008237134)

Thresher

Images



Publication data including kind & date

CN101273686	A	2008-10-01	CN101273686
JP2008237134	A	2008-10-09	JP2008237134

CN101273686 B 2011-06-08 CN101273686B

Abstract

(JP2008237134)

PROBLEM TO BE SOLVED: To provide a thresher uniformly dispersing a layer of waste dust on a field without scattering waste straw, or the like, discharged to the exterior of a machine on the field, and having excellent performance for distributing and releasing the waste dust.

SOLUTION: The thresher is constituted as follows.A separation plate 93 is installed in the rear part of a threshing chamber 66 to discharge the waste straw to the outside, and a lower-back tilted plate 98 for guiding the waste dust discharged from the rear end part of a swinging shelf 51 of a selection chamber 50 to the exterior is installed.At least one lower-right air guide 97 in a back view is installed on the tilted plate 98, and the rear part of the tilted plate 98 is installed so as to be arranged at the rear part from a virtual extension line of the separation plate 93.The waste dust flowing down on the tilted plate 98 from the rear terminal part of the swinging shelf 51 is dispersed and discharged on the already reaped side of the field surface (the right-side field from the combine harvester) by allowing the air of the dust-discharging fan 91 to effectively act on the waste dust flowing down on the tilted plate 98 from the rear terminal part of the swinging shelf 51.As a result, the deviation of the thicknesses of the layer of the waste straw discharged on the field surface can be reduced, and the deviation of the quality of the soil is reduced to provide a stable yield.

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

OSAKI MASAMI

UEKA IKURO

Latest standardized assignees - inventors removed

ISEKI

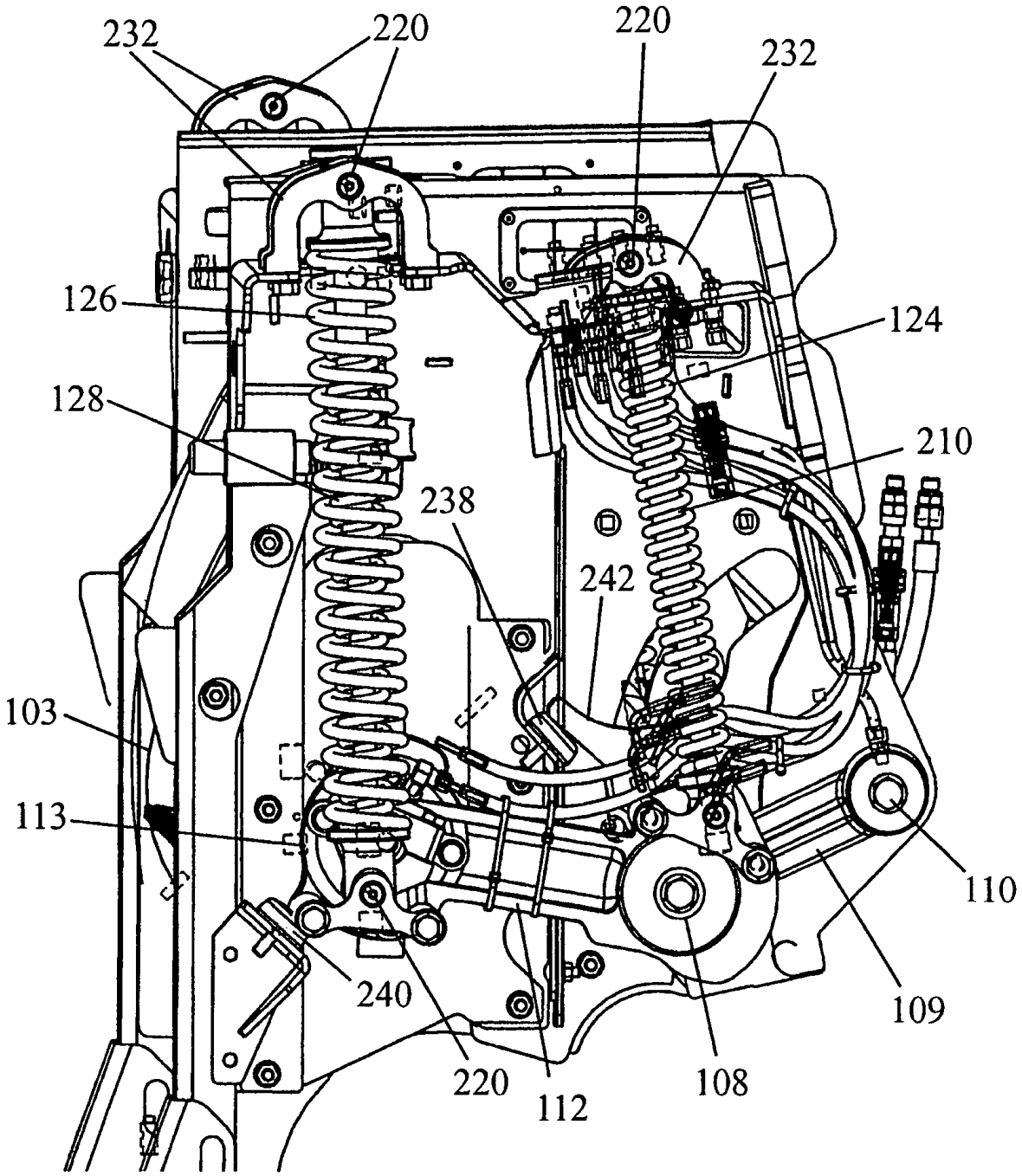
Family 160/667 - FAMPAT - ©Questel

Title

(EP1872649)

Spring system for a feeder roller of a harvester

Images



Publication data including kind & date

GB0612832	D0	2006-08-09	GB200612832
EP1872649	A1	2008-01-02	EP1872649
GB2439518	A	2008-01-02	GB2439518
US20080000209	A1	2008-01-03	US20080000209
EP1872649	B1	2009-08-26	EP1872649
AT440491	T	2009-09-15	ATE440491
DE602007002118	D1	2009-10-08	DE602007002118
US7677020	B2	2010-03-16	US7677020

Abstract

(EP1872649)

A spring system (122) is described for a feeder device (101) of an agricultural harvester having a first roller movably mounted in a casing (105) and biased by the spring system towards a second roller (107) in order the compress crop passing between the two rollers.The spring system comprises at least one spring (124) surrounding a guide rod (200) that

extends in use between a movable support of the first roller and the casing of the feeder device.The guide rod (200) is formed of two telescopically collapsible parts (210, 212), one connected to the roller support (108) and the other to the casing (105).

Inventors

TEETAERT PIERRE E

DUCOULOMBIER ANDRE S N C

Latest standardized assignees - inventors removed

BLUE LEAF IP

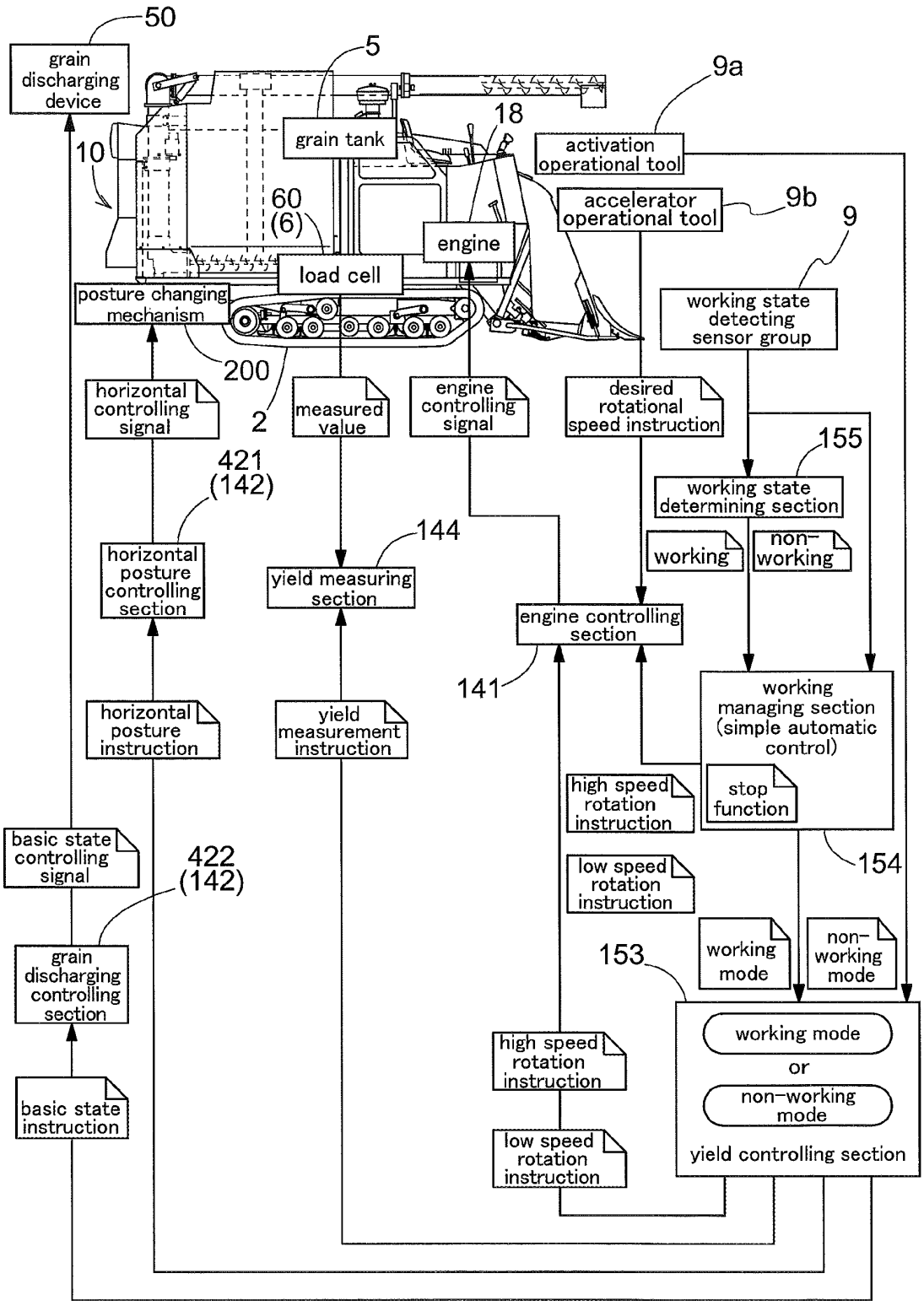
Family 161/667 - FAMPAT - ©Questel

Title

(EP3272204)

Combine harvester

Images



Publication data including kind & date

WO2016147452	A1	2016-09-22	WO2016147452
JP2016174540	A	2016-10-06	JP2016174540
JP2016185111	A	2016-10-27	JP2016185111
IN201747013981	A	2017-04-28	IN201747013981
CN107072150	A	2017-08-18	CN107072150
US20170311544	A1	2017-11-02	US20170311544
KR20170126848	A	2017-11-20	KR20170126848
EP3272204	A1	2018-01-24	EP3272204
JP6355584			

	B2	2018-07-11	JP6355584
JP6355579	B2	2018-07-11	JP6355579
US10143133	B2	2018-12-04	US10143133

Abstract

(EP3272204)

There are provided an engine controlling section 141 for controlling a rotational speed of an engine 18, a horizontal position controlling section 421 for rendering a vehicle body frame 10 to a horizontal position by controlling a position changing mechanism 200 configured to change a position of the vehicle body frame 10 by an operation of an actuator utilizing power from the engine 18, a yield measuring section 144 for measuring a yield of grains stored in a grain tank 5 based on measurement result of a load cell 60 configured to measure a weight of the grain tank 5, an activation operational tool 9a for outputting an activation signal for activating yield measurement by the yield measuring section 144, and a yield controlling section 153 configured to provide the engine controlling section 141 with a high speed rotation instruction for driving the engine 18 at a rated rotational speed in response to the activation signal and also to provide the horizontal position controlling section 421 with a horizontal position instruction for rendering the vehicle body frame 1 to the horizontal position.

Inventors

IKEDA HIROSHI

INOUE HIROTSUGU

HAMANISHI TADASHI

Latest standardized assignees - inventors removed

KUBOTA

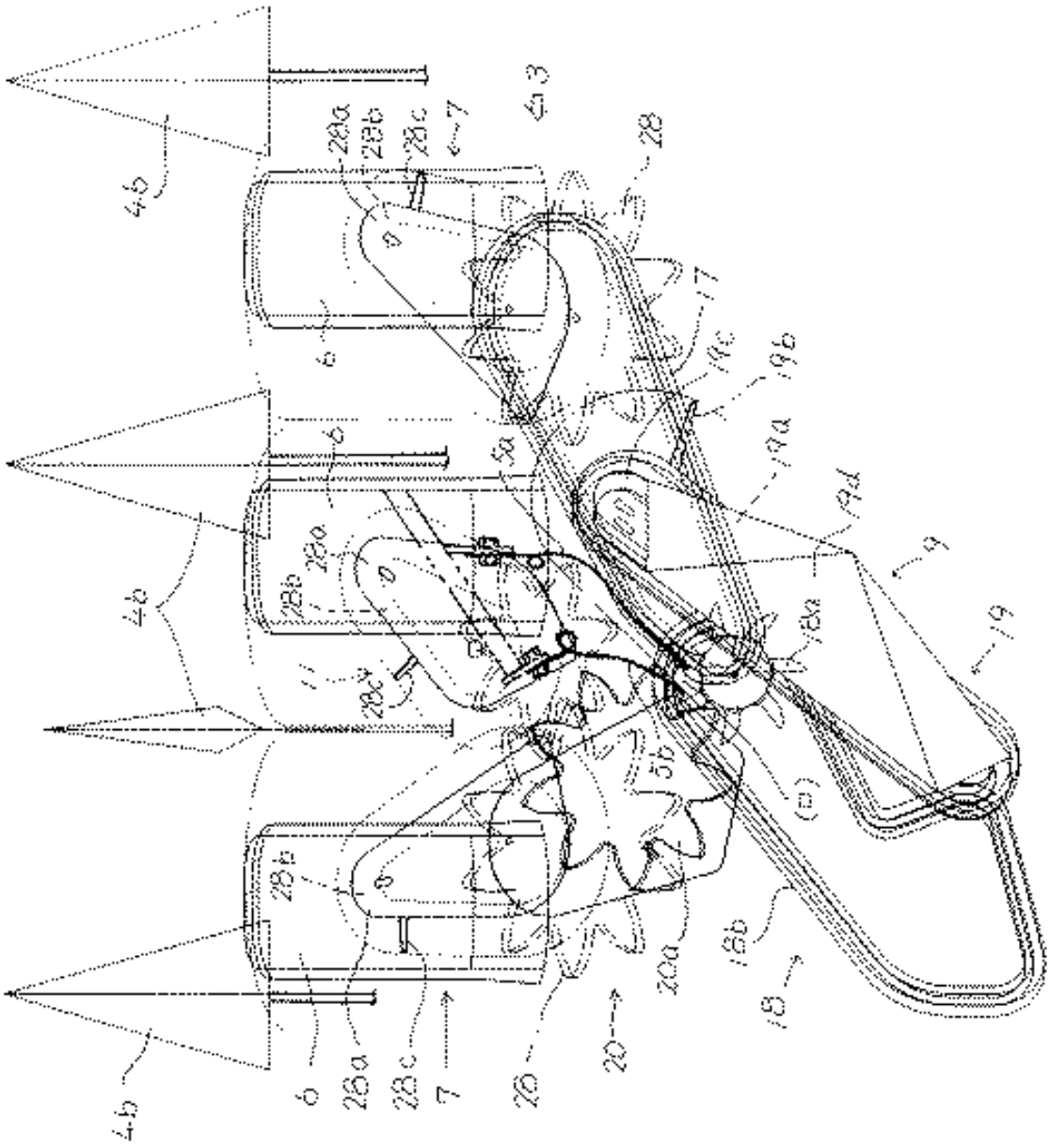
Family 162/667 - FAMPAT - ©Questel

Title

(JP2004147554)

Grain culm guide apparatus for combine harvester

Images



Publication data including kind & date

JP2004147554	A	2004-05-27	JP2004147554
JP4138450	B2	2008-08-27	JP4138450

Abstract

(JP4138450)

PROBLEM TO BE SOLVED: To solve a problem that grain culms reaped by a cutting blade apparatus while being raised by a raising apparatus and raked by a raking apparatus are sometimes not surely transferred to a supplying and transporting apparatus.

SOLUTION: The grain culm guide apparatus for a combine harvester has constitution that the grain culms are raised by a raising apparatus 6 and reaped by the cutting blade apparatus while being raked by raking and transporting apparatuses 7 and a middle raking and transporting apparatus.The reaped grain culms are transported and guided to a right driving star wheel 18a arranged at the transportation start part of the root transportation apparatus 18 of the supplying and transporting apparatus 9 and a left driven star wheel 20a fixed to a raking and supporting apparatus 20 by both right and left nipping guide rods 5a and 5b.The transportation end parts of both the right and left nipping guides 5a and 5b are positioned in the vicinity of the outer peripheral parts of the right driving and the left driven star wheels 18a and 20a.Waste straw

transportation guide plates are arranged below the raking and transporting apparatuses 7.

COPYRIGHT: (C)2004,JPO

Inventors

OKUMOTO KOJI

ANAMI MASAYUKI

SAITO MANABU

TAKEKATA TAKESHI

KIYASU KAZUHARU

DOIHARA JUNJI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

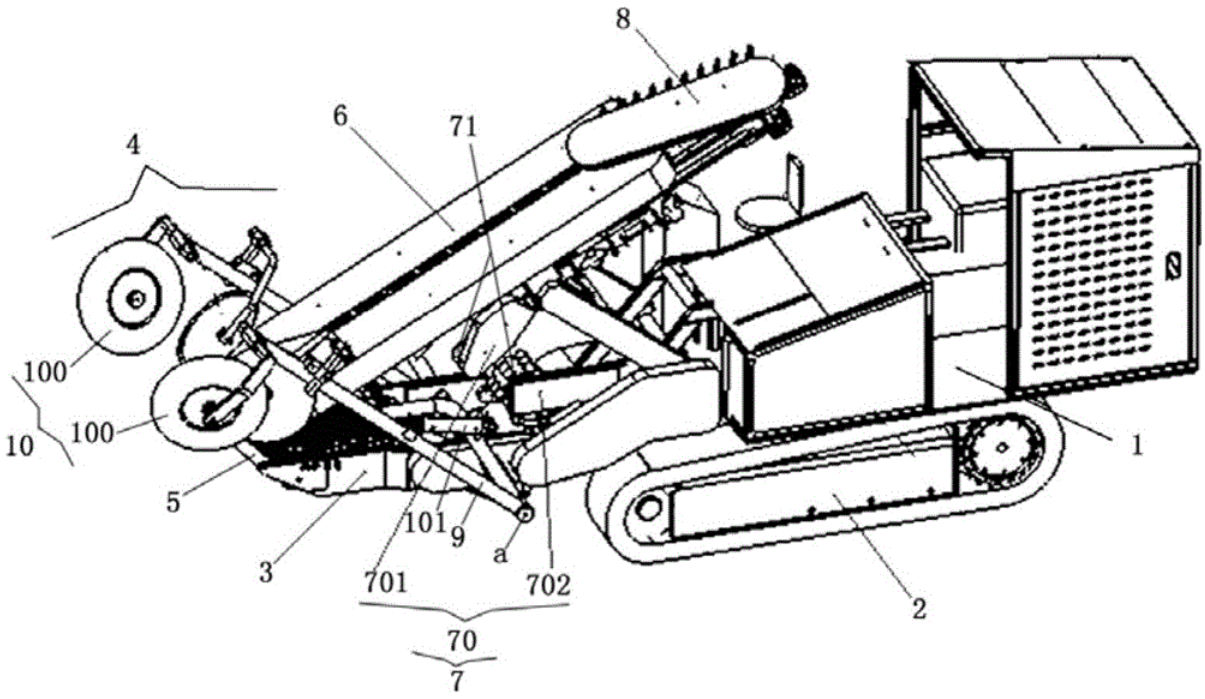
Family 163/667 - FAMPAT - ©Questel

Title

(CN205865080U)

Full -automatic crawler -type shallot harvester

Images



Publication data including kind & date

CN205865080	U	2017-01-11	CN205865080U

Abstract

(CN205865080U)

The utility model relates to a full -automatic crawler -type shallot harvester, which comprises a frame, the track, collect the cantilever crane, then stop device, vertical conveyor, transversal transport device, lie in both sides and the back tip of collecting the cantilever crane sets up the branch on collecting the cantilever crane through the pivot with rotating, set up the native device of branch that the earth of ridge shallot both sides can be formed the grooving in the front portion of branch respectively, an adjustment mechanism for controlling the tip rotates round the pivot and adjusts after the branch, and be used for trembling the native device of trembling that removes with the earth of shallot root, wherein both sides are divided the interval between the native device and can be adjusted the setting according to the width on ridge.The utility model discloses an aspect forms two groovings in the both sides of shallot to make things convenient for then stop device to get the shovel of few earth volume of shallot, ensure the quality of shallot results, on the other hand trembles the earth of shallot root and removes by trembling native device in the vertical transportation process of shallot, the conveying of the shallot of not only being convenient for, be convenient for in addition subsequent pile up neatly and transport.

Inventors

LIU KAI

YAO RONGDE

LU ZHENGQI

Latest standardized assignees - inventors removed

WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY

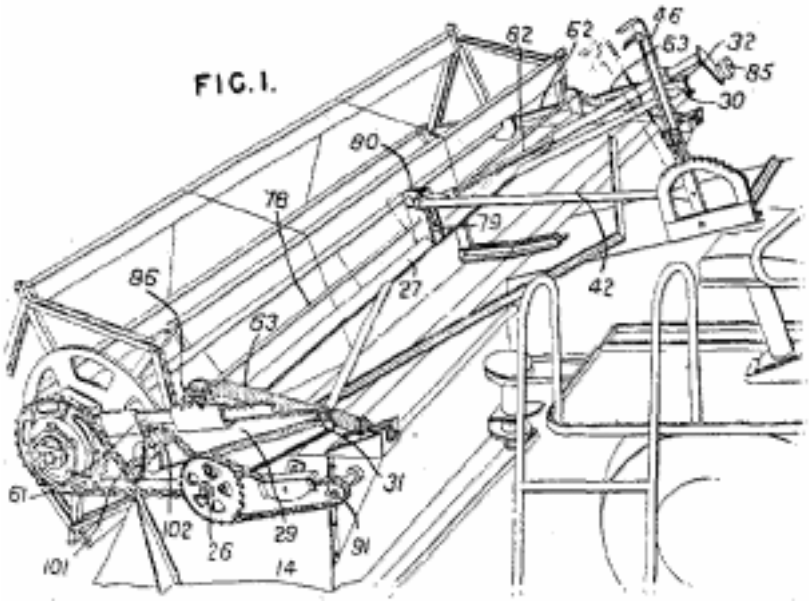
Family 164/667 - FAMPAT - ©Questel

Title

(FR1132053)

Improvements to combine

Images



Publication data including kind & date

FR1132053	A	1957-03-05	FR1132053
GB775490	A	1957-05-22	GB-775490
DE1788682	U	1959-05-14	DE1788682U
GB838601	A	1960-06-22	GB-838601

Abstract

(FR1132053)

775,490. Harvesting machines.MASSEY-HARRIS-FERGUSON (MANUFACTURING), Ltd.May 26,1955 [May 26, 1954], No. 15502/54.Class 6(3).A rotary reel of a harvester is arranged so that it can be adjusted in a fore-andaft direction as well as in an up and down direction.As shown the reel is mounted on rack bars 61, 62 having gear teeth 63 at their rear ends and slidably mounted on flanges 31, 32 of side plates 29, 30 which are joined by a shaft 27 and arranged to pivot a short counter-shafts 26 secured to the side walls 14 of the harvester.The rack bars are moved in a fore-and-aft direction by means of pinions 86 secured at each end of a shaft 78 which is rotated by a worm wheel 80 which co-operates with a pinion 79 on the shaft 78.The worm-wheel 80 is connected by a telescopic shaft 82 to a hand-operated controller 85 mounted on a hand-lever 46 which raises or lowers the reel, by means of a link 42, about the shafts 26.The reel is driven from a power shaft 91 on the harvester by means of chain and sprocket gearing.Adjustable jockey pulleys 101, 102 being provided to allow the reel to move in a fore-and-aft direction.

(From GB775490 A)

Inventors

GRANT LESLIE LAMONT

Latest standardized assignees - inventors removed

MASSEY HARRIS FERGUSON

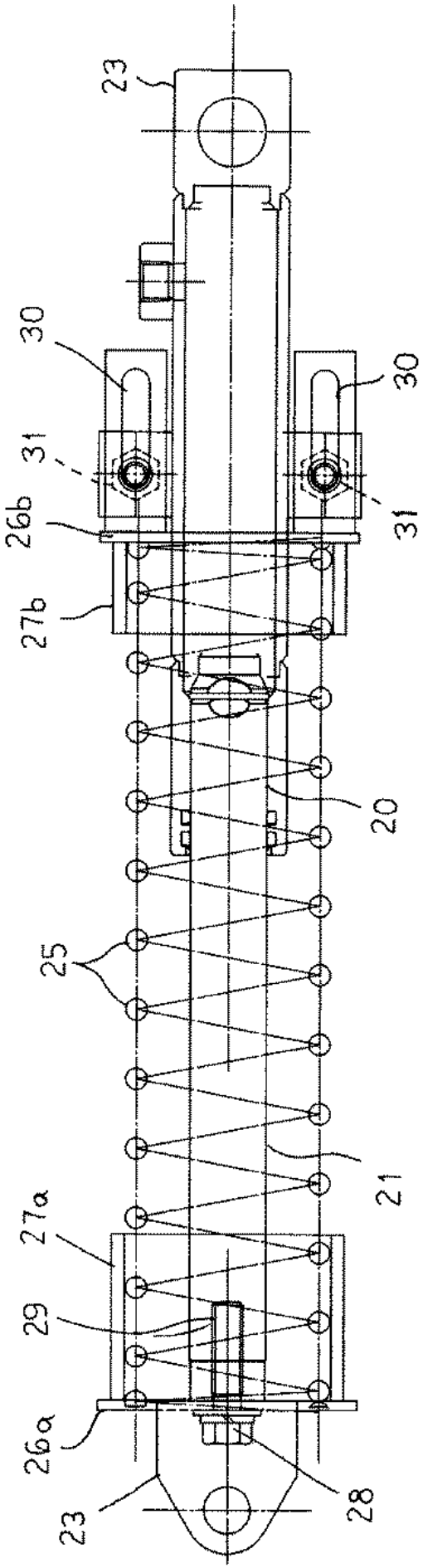
Family 165/667 - FAMPAT - ©Questel

Title

(JP2013247877)

Combine harvester

Images


23
30
30
31
31
26b
27b
20
25
21
27a
29
26a
23
28

Publication data including kind & date

JP2013247877	A	2013-12-12	JP2013247877

Abstract

(JP2013247877)

PROBLEM TO BE SOLVED: To integrate a cutting elevating cylinder with a spring for energizing the cutting elevation to decrease the number of parts and inexpensively achieve a combine harvester, and to facilitate installation onto a machine body.SOLUTION: A combine harvester includes: a cutting elevating cylinder (22) including a cylinder tube (20) and a piston rod (21), which is provided between a cutting part (4) capable of elevating to a vehicle body and the vehicle body (1) side; wherein a spring (25) for energizing the cutting part (4) to the rising side is externally fitted to the outer peripheral part of the cutting elevating cylinder (22); the rear end of the spring (25) is held on the cylinder tube (20) side, and the front end of the spring (25) is held on the piston rod (21) side.The front end and the rear end of the spring (25) are respectively held by flange type holding plates (26a, 26b) each having a diameter larger than the outside diameter of the spring (25).

Inventors

Hiroshi Iwamoto
Kazushi Goto
Kazuya Okumura

Latest standardized assignees - inventors removed

ISEKI

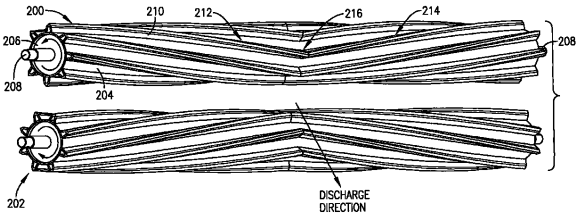
Family 166/667 - FAMPAT - ©Questel

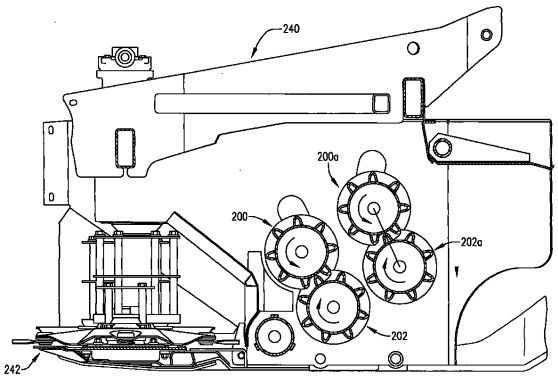
Title

(US8220234)

Crop harvester having conditioning rolls

Images





Publication data including kind & date

CA2558846	A1	2007-04-11	CA2558846
US20070079592	A1	2007-04-12	US20070079592
CA2558846	C	2010-02-16	CA2558846
US8006470	B2	2011-08-30	US8006470
US20110277435	A1	2011-11-17	US20110277435
US8220234	B2	2012-07-17	US8220234

Abstract

(US8220234)

The conditioning rolls of a crop harvester have intermeshing metal ribs arranged in a herringbone pattern, each rib comprising a pair of end-to-end segments that converge spirally from opposite ends of the roll to a centermost apex.Alternative embodiments provide a single pair of metal herringbone rolls, two pairs of metal herringbone rolls, or a front pair of metal herringbone rolls and a rear pair of compressible surface herringbone rolls.

Inventors

PRUITT MARTIN E

NICKEL DWIGHT E

GRABER KURT

CLARK STANLEY R

Latest standardized assignees - inventors removed

AGCO

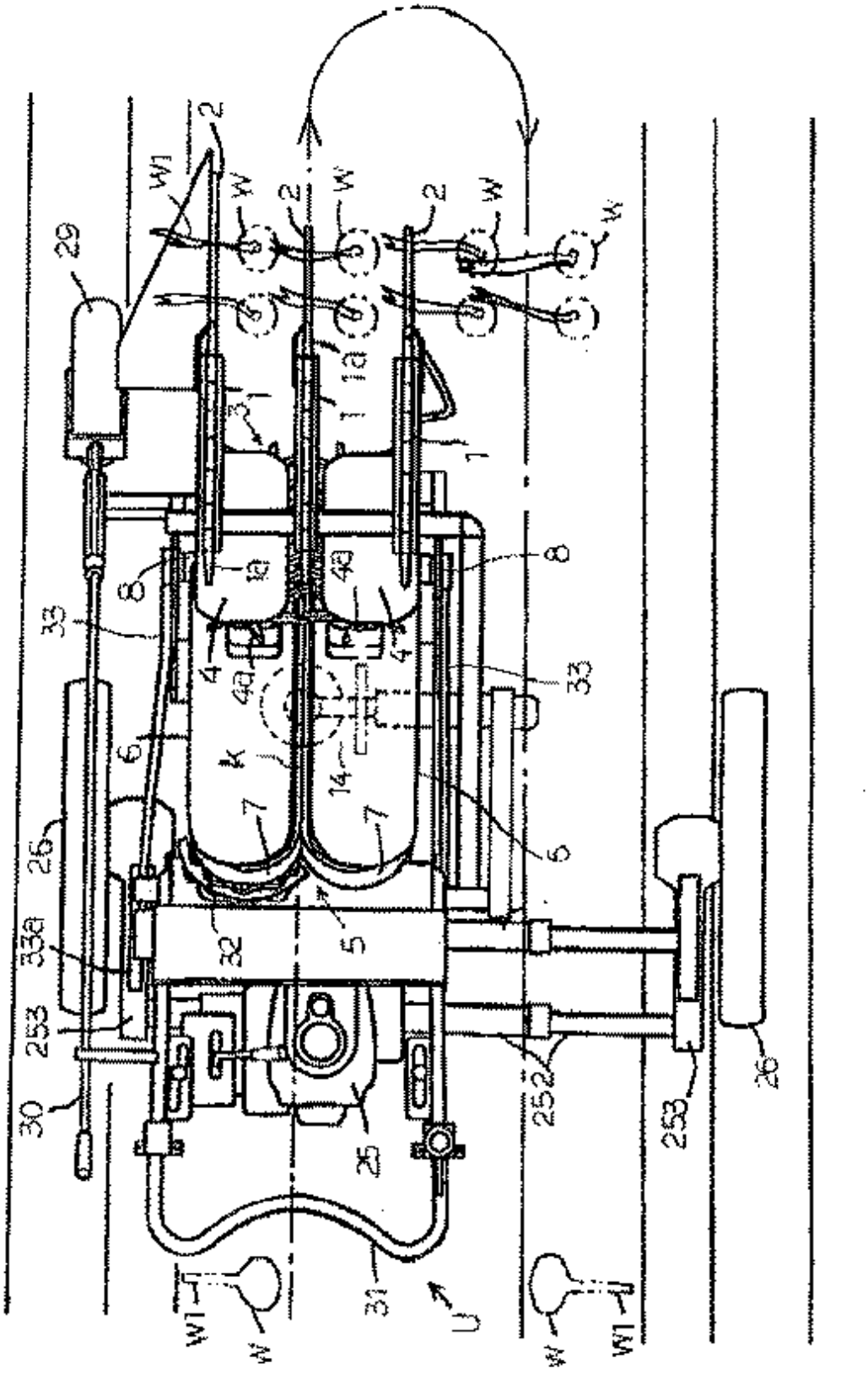
Family 167/667 - FAMPAT - ©Questel

Title

(JP2001037310)

Rhizome harvester

Images



Publication data including kind & date

JPH1175457	A	1999-03-23	JP11075457
JPH11196642	A	1999-07-27	JP11196642
JP3105184	B2	2000-10-30	JP3105184
JP2001037310	A	2001-02-13	JP2001037310
JP3351750	B2	2002-12-03	JP3351750
JP3844948	B2	2006-11-15	JP3844948

Abstract

(JP3844948)

PROBLEM TO BE SOLVED: To provide a structure capable of evading prier arts by making the height position of a cutting device freely changed and regulated, and enabling the rotation of an engine to be transmitted to the cutting device through a flexible shaft.SOLUTION: A cutting device 14 has a body frame 141 comprising a horizontal part 141a and a vertical part 141b, a rotary input shaft 144 installed in the inside of the horizontal part 141a, an output shaft 144 installed in the vertical part 141b and synchronously connected through the rotary input shaft 142 through a bevel gear 143, and a disk-like rotary cutting blade 145 fixed to the output shaft 144.A guide plate 147 is fixed to a supporting plate integrally formed with the machine body, and a slot is formed in a vertical face part 147a which is the center side part of the guide plate 147.Further, a collar part (t) is formed on the horizontal part 141a of the cutting device 14.The collar part is fitted in facing side parts 147b, 147b of the guiding plate 147, and the horizontal part 141a is passed through the slot.

Inventors

TERAMOTO SEIJI

MATSUI MIKIO

FUKUDA YUKIHIRO

WATANABE KAZUYUKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

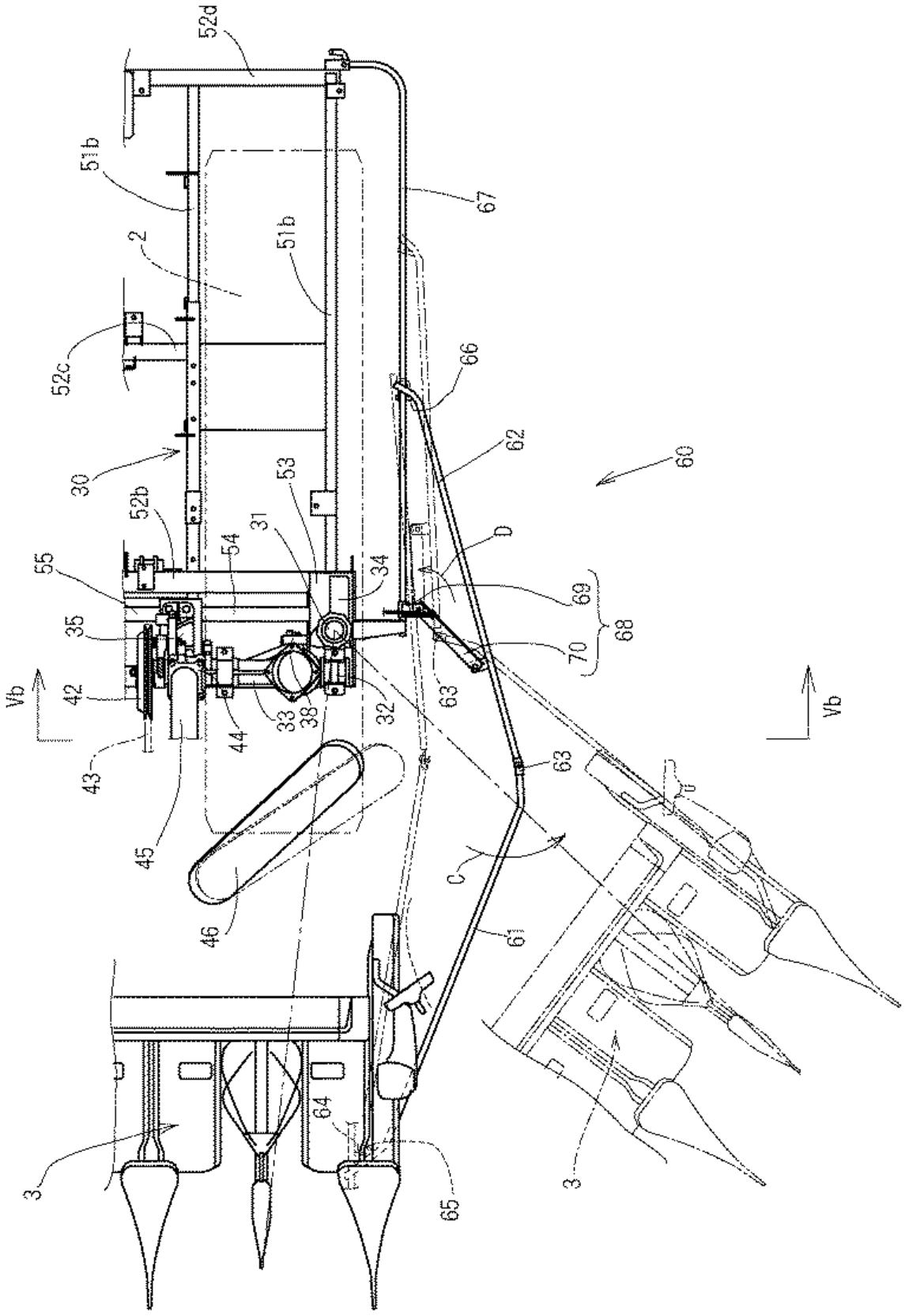
Family 168/667 - FAMPAT - ©Questel

Title

(JP2008178327)

Combine harvester

Images



Publication data including kind & date

JP2008178327 A 2008-08-07 JP2008178327

Abstract

(JP2008178327)

PROBLEM TO BE SOLVED: To provide a combine harvester which has a side divider 60 disposed on one lateral side from a reaping portion 3 extending to a travel machine frame 1 and can rotate and open the reaping portion 3 on the lateral outside of the travel machine frame 1, in a state of being connected to the side divider 60, as it is, at maintenance.

SOLUTION: The side divider 60 has a pair of front and rear grass-dividing rods 61, 62 bendably turn-connected to each

other via a pivotal pin 63.The front-end portion of the grass-dividing rod 61 is connected to one lateral side of the reaping portion 3.The rear grass dividing rod 62 and one lateral side of the travel machine frame 1 have guide support means 67, 68 that support the rear grass-dividing rod 62, in a state of permitting the horizontal rotation of the front grass-dividing rod 61 around the pivotal pin 63 with the horizontal turning of the reaping portion 3.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

IMADA KOICHI

Latest standardized assignees - inventors removed

YANMAR

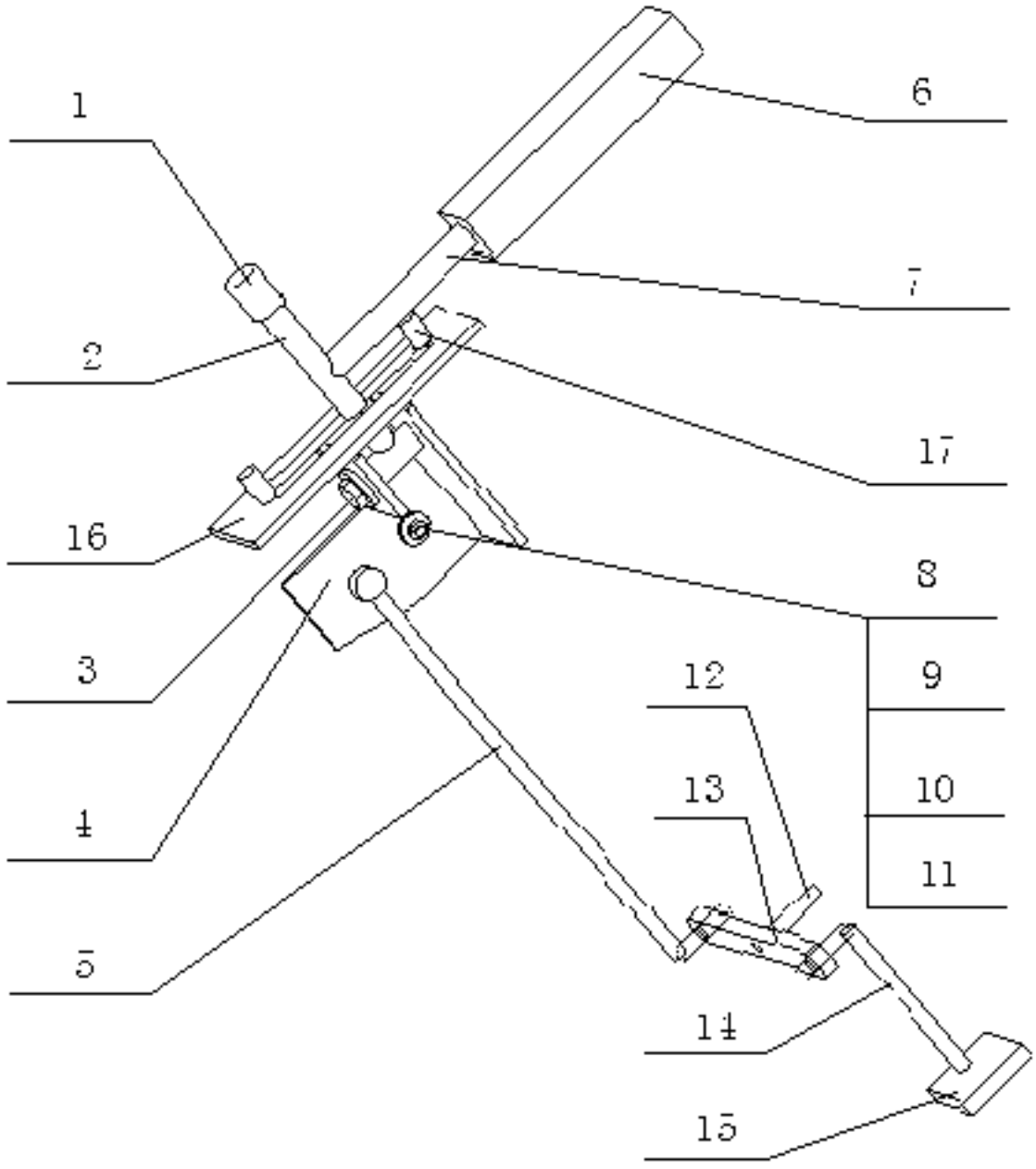
Family 169/667 - FAMPAT - ©Questel

Title

(CN202603215U)

Manual-automatic combined type hydraulic stepless speed regulating actuating mechanism of combine harvester

Images



Publication data including kind & date

CN202603215 U 2012-12-19 CN202603215U

Abstract

(CN202603215U)

The utility model discloses a manual-automatic combined type hydraulic stepless speed regulating actuating mechanism of a combine harvester and mainly relates to the technical field of agricultural machine intelligent control.The mechanism is characterized by comprising a manual/automatic switching switch, a handle, a driver, a moving frame, a bolt assembly, a driving swing rod, a pulling rod, a connecting rod, a limiting switch and a support, wherein the manual/automatic switching switch comprises a button switch and a state indicating lamp, the driver is mainly used for controlling accurate positioning of the handle, the connecting rod is mainly used for driving corresponding actuating mechanisms, the driving swing rod is mainly used for coordinating rotating between the pulling rod and the connecting rod, all parts are connected through the bolt assembly, and the limiting switch is used for determining whether the handle reaches the limiting position.The mechanism has the advantages that automatic speed regulation of the combine harvester can be achieved, and a foundation is laid for the intelligent control of the combine harvester.

Inventors

LI YAOMING
CHEN JIN
GU WENLONG
ZHENG SHIYU
LÜ SHIJIE
HANG CHAO
LI JIANHUA
LIU SHIJIE

Latest standardized assignees - inventors removed

JIANGSU UNIVERSITY

Family 170/667 - FAMPAT - ©Questel

Title

(CN201440817U)

Corn combined harvester

Images

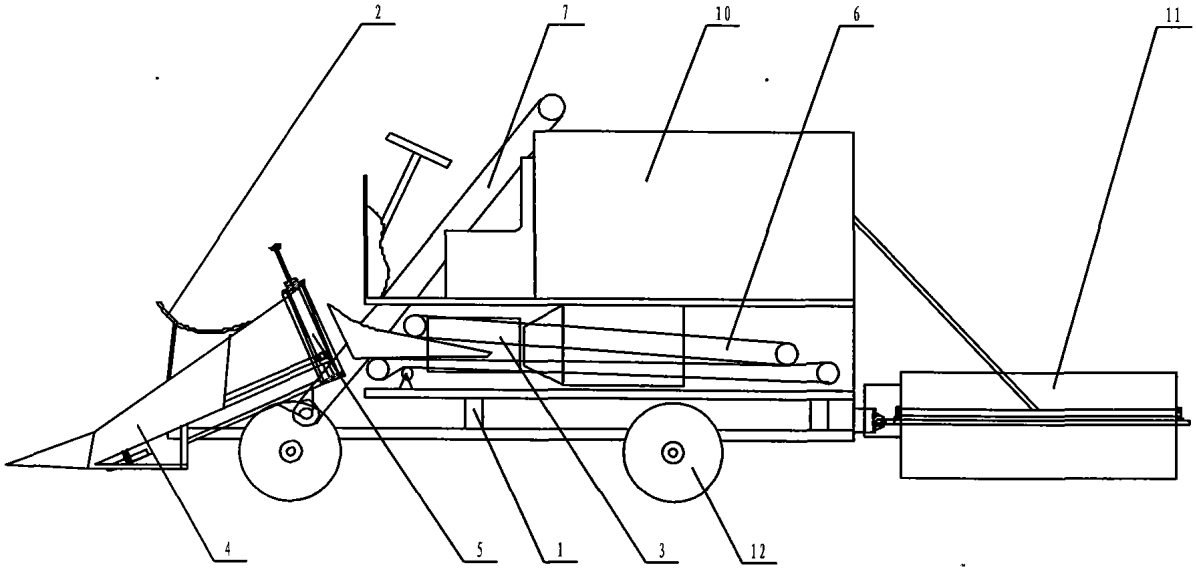


图 1

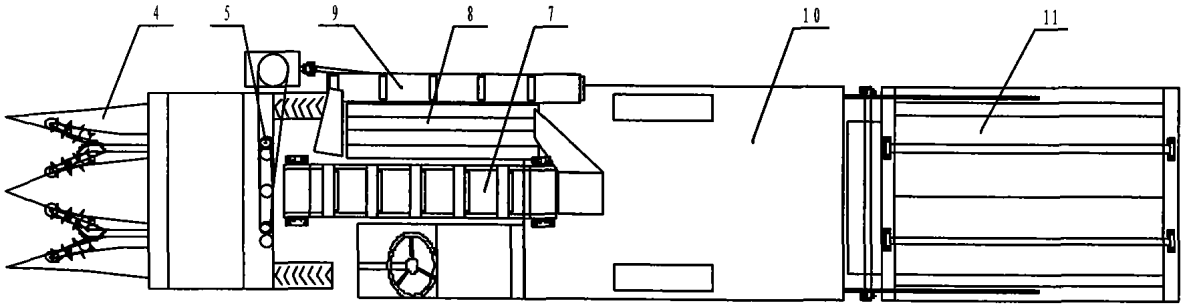


图 2

Publication data including kind & date

CN201440817 U 2010-04-28 CN201440817U

Abstract

(CN201440817U)

The utility model discloses a corn combined harvester comprising a rack and an engine, a power transfer device, a cab, and a whole machine operating and controlling system which are arranged on the rack, and also comprising a header device arranged in front of the rack, two groups of strippers arranged behind the header device, a longitudinal straw transferring device arranged correspondingly behind each group of strippers, corn cob first-level elevators arranged in the middle of two groups of longitudinal straw transferring devices, corn cob peeling device and a corn cob second-level elevator arranged at the right side of the corn cob first-level elevators, a corn cob grain collecting box arranged behind the corn cob second-level elevator, a straw laying device arranged behind the rack and a front-back steering and four-driving land wheel mechanism arranged below the rack.The corn combined harvester has reasonable distribution of all mechanisms, smooth running of the whole machine, no forced pulling phenomenon in picking corn cobs, extremely low broken cob probability and no excessive extrusion to corn straws, and can retain complete corn straws.

Inventors

CHEN BANGREN

CHEN ZONGKAI

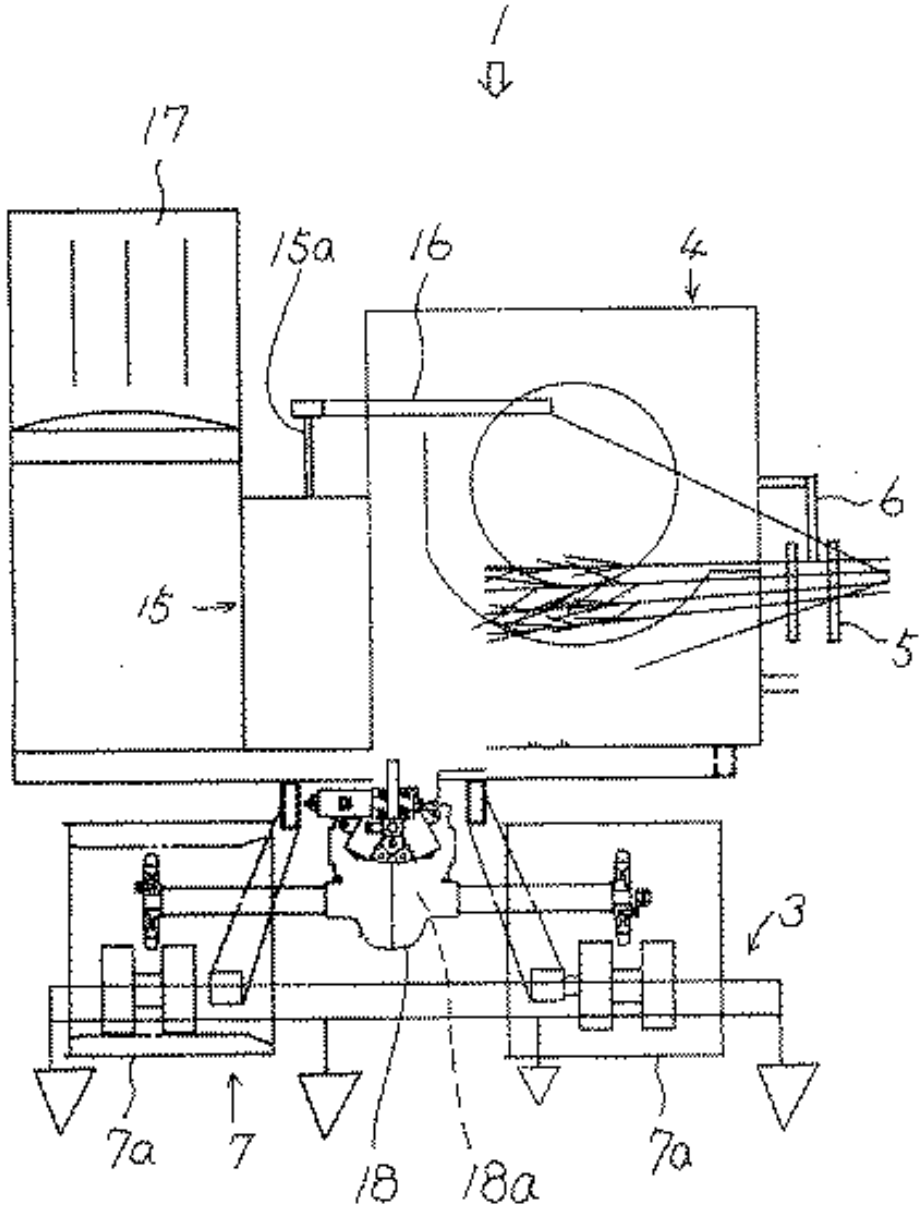
Family 171/667 - FAMPAT - ©Questel

Title

(JP2004321071)

Manually threshing work change-over system for combine harvester

Images



Publication data including kind & date

JP2004321071 A 2004-11-18 JP2004321071

Abstract

(JP2004321071)

PROBLEM TO BE SOLVED: To provide a manually threshing work change-over system enabling the traveling speed of a combine harvester to be easily changed from the feed chain side of a thresher while manually threshing grain and straw cut on butt.

SOLUTION: The manually threshing work change-over system is such that grain and straw cut on butt are fed to the feed chain 5 of the thresher 4 and a nipping rod 6 and an auxiliary traveling speed change lever 16 for changing traveling vehicle speed during manually threshing work is extended to the main traveling speed change lever 15a for changing traveling vehicle speed during ordinarily reaping and threshing work toward the feed chain 5 side in a stationary or detachable manner; wherein the auxiliary traveling speed change lever 16 is housed together with the main traveling speed change lever 15a, and the rotating power to be inputted in the feed chain 5 is such as to be subjected to speed change by

a hydraulic stepless speed change gear.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

SATOJI HISAYUKI

DOIHARA JUNJI

IWAMOTO HIROSHI

NAGAI TOSHIRO

FUTAGAMI SHIN

KUGIMIYA HIROSHI

WATABE HIROKI

TOKI HARUMITSU

IZUMI KOJI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

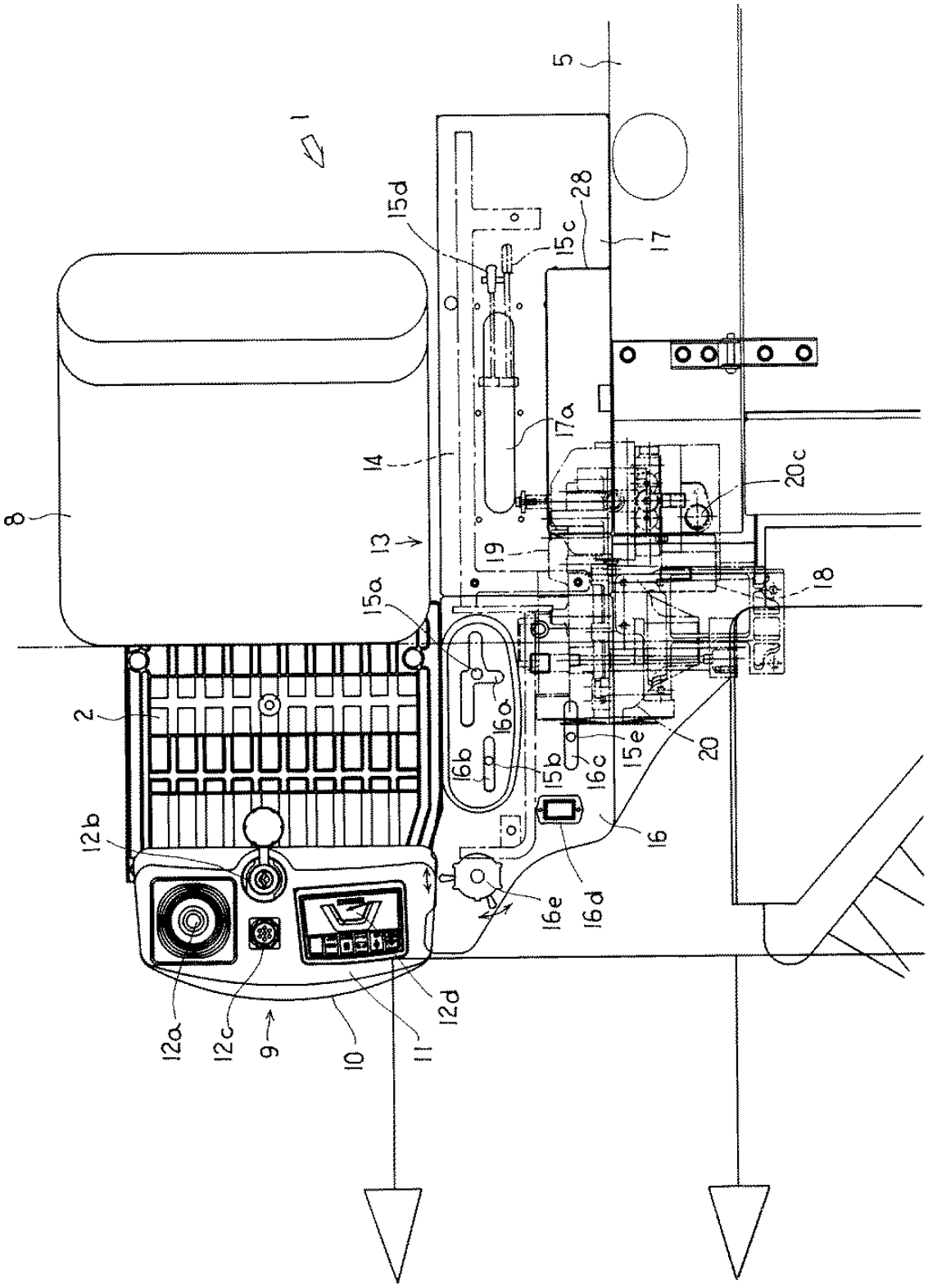
Family 172/667 - FAMPAT - ©Questel

Title

(JP2006230282)

Operating apparatus of combine harvester

Images



Publication data including kind & date

JP2006230282	A	2006-09-07	JP2006230282
JP4400480	B2	2010-01-20	JP4400480

Abstract

(JP4400480)

PROBLEM TO BE SOLVED: To provide an operating apparatus for a combine harvester, making it possible that maintenance of each of components positioned under the operating apparatus is easily conducted and accumulation of dust is prevented, by dividing an operating panel which is positioned on an upper side of the operating apparatus positioned on a left side of an operator's seat into two of front and rear operating panels and freely attachably and

detachably positioning the panels thereon.

SOLUTION: In this operating device of the combined harvester, the front and rear operating panels 16, 17 which are formed by dividing the operating panel for covering the upper side of an operating box 14 to which various kinds of operating levers 15a, 15b, etc., are attached into two front and rear parts are freely attachably and detachably positioned on an upper part of a traveling chassis 2.Further, a side cover 18 which covers a hydraulic stepless speed change gear positioned in a lower part of the chassis is arranged on a side of a front part of the rear operating panel 17 so as to be integrated with the rear operating panel 17.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

SATOJI HISAYUKI

UEMOTO ICHIAKI

IWAMOTO HIROSHI

GOSHIMA KAZUMI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

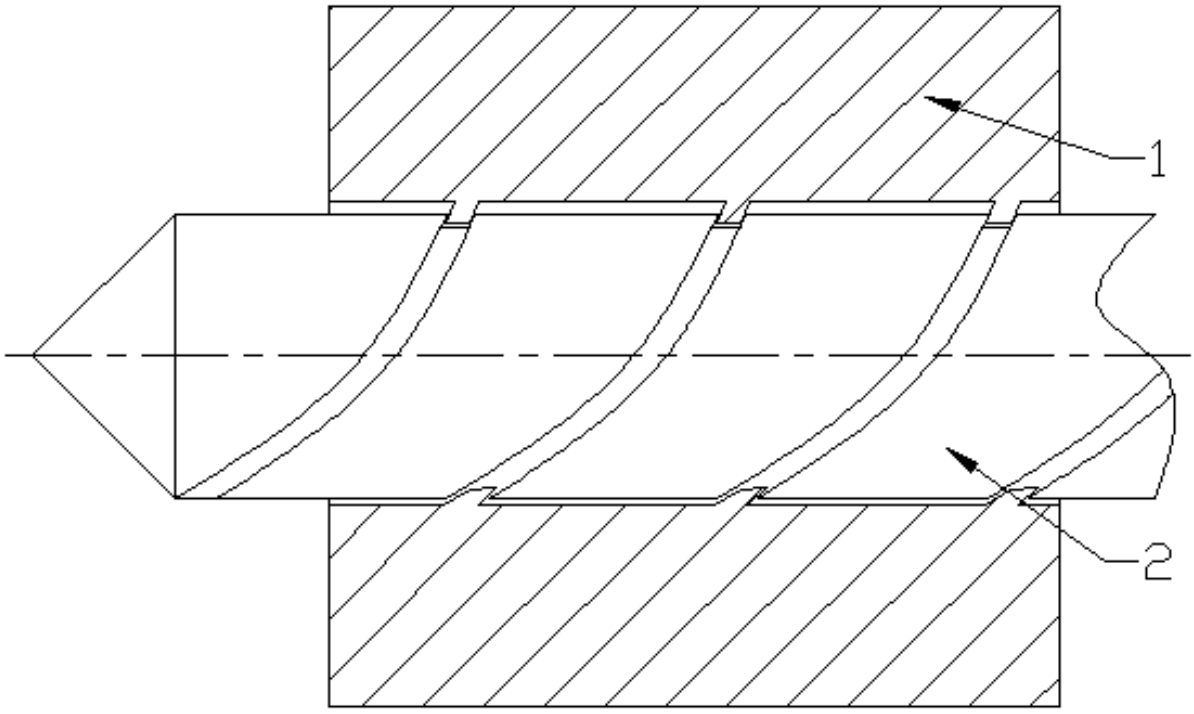
Family 173/667 - FAMPAT - ©Questel

Title

(CN103460910)

Nut type drill bit fixing sleeve of corn harvester

Images



Publication data including kind & date

CN103460910 A 2013-12-25 CN103460910

Abstract

(CN103460910)

The invention structurally provides a nut type drill bit fixing sleeve of a corn harvester.The nut type drill bit fixing sleeve is characterized in that the middle part of a drill sleeve is provided with an inner hole of which the diameter is a little larger than that of a drill bit, the inner hole is provided with internal threads in same thread pitch with a drill bit cutting groove, the drill bit can do rotation motion due to the internal threads when the drill bit stretches in the drill sleeve, and the thread pitch of the internal threads is larger than a self-locking angle.The nut type drill bit fixing sleeve provided by the invention has the advantages that the structure is simple, not only can the function of fixing the drill bit be realized, but also the drill bit can do rotation motion while doing stretching motion.

Inventors

ZHAO SONGCHEN

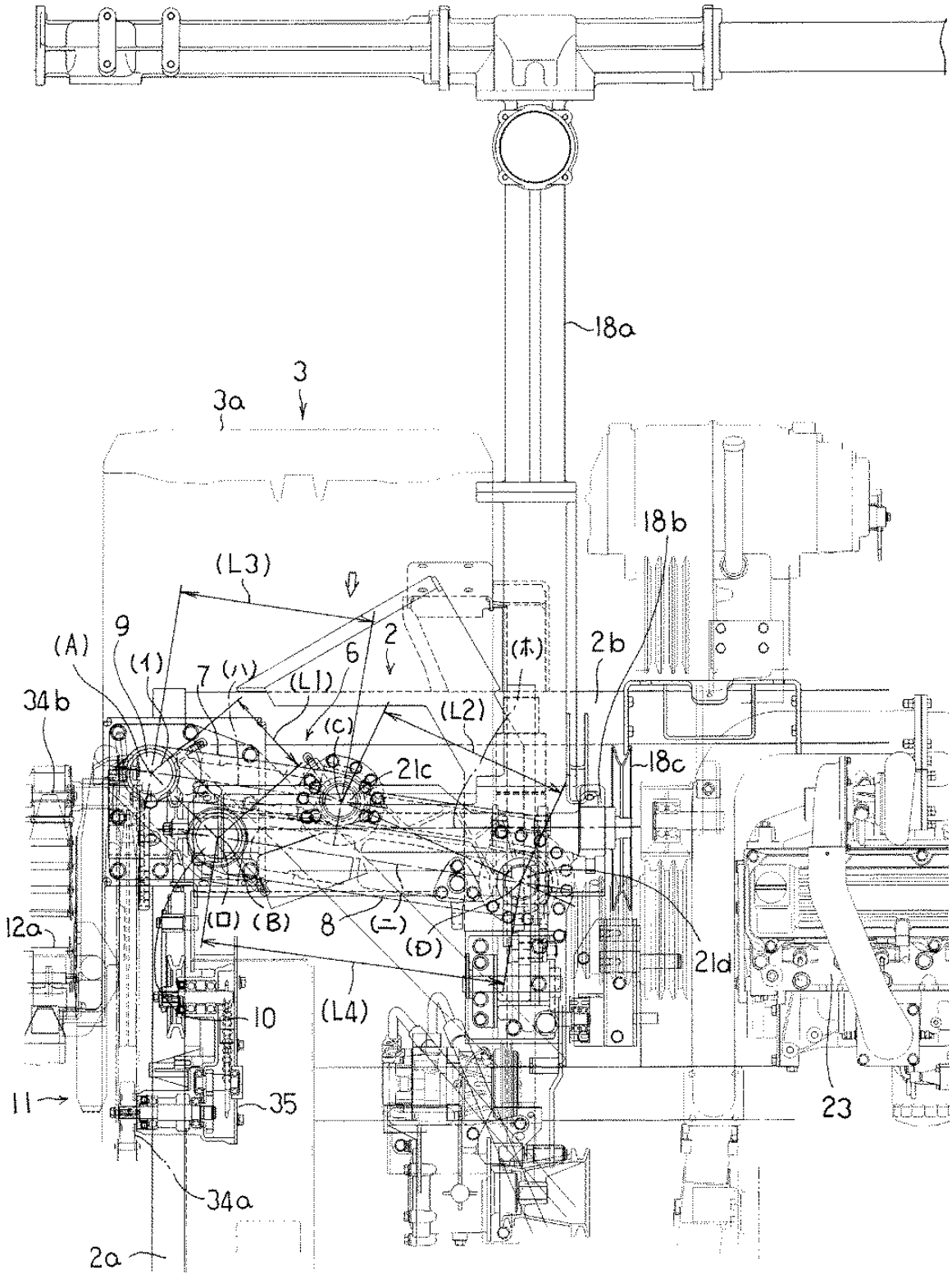
Family 174/667 - FAMPAT - ©Questel

Title

(JP2006158356)

Reaping part-turning device in combine harvester

Images



Publication data including kind & date

JP2006158356	A	2006-06-22	JP2006158356
JP4622497	B2	2011-02-02	JP4622497

Abstract

(JP4622497)

PROBLEM TO BE SOLVED: To constitute a reaping machine for reaping and conveying grain culms so as to be easily turned and moved to the outside on the left side.

SOLUTION: The reaping machine 4 for reaping and conveying the grain culms is provided at the front part of a traveling undercarriage 2, and a threshing machine 11 for threshing the reaped grain culms and a turning device 5 turning and moving the reaping machine 4 outward in the side direction and composed of front and rear supporting frames 7, 8 of four-point link structure 6, and the like are provided behind the reaping machine 4 and above the traveling undercarriage 2.The front and rear supporting frames 7 and 8 are provided in a nearly parallel state in the right and left direction or in an opened tilted state in an angle larger than the parallel in the reaping part-turning device in a combine harvester.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

FUJITA YASUSHI

UEJI YOSHITAKA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

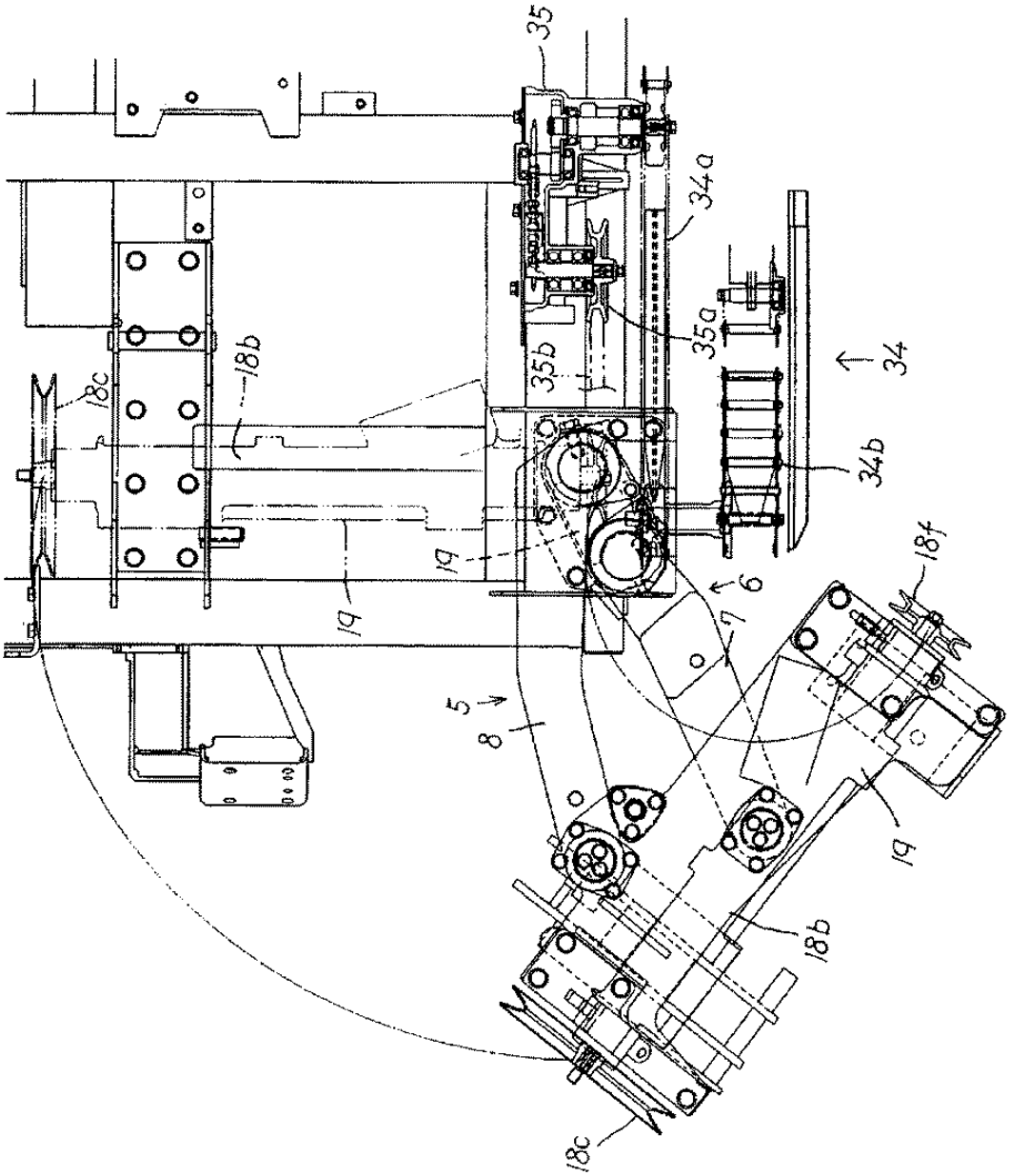
Family 175/667 - FAMPAT - ©Questel

Title

(JP2009240330)

Combine harvester

Images



Publication data including kind & date

JP2009240330	A	2009-10-22	JP2009240330
JP4770969	B2	2011-09-14	JP4770969

Abstract

(JP4770969)

PROBLEM TO BE SOLVED: To provide a combine harvester capable of turning a reaping machine in its outside direction by leaving an inner auxiliary conveying chain at the side of a vehicle stage, and enabling to perform the maintenance of the reaping machine itself and the maintenance of a transmission case or an engine at the lower side of the reaping machine by turning the reaping machine.

SOLUTION: This combine harvester is constituted by installing the inner auxiliary conveying chain (34a) at the front side of a thresher (11), and a reaping input pulley (18c) to which the rotary power of an engine (23) is input, at the one end part of a transmission mechanism (18d) built-in at a supporting pipe (18b) becoming a fulcrum of lifting up and down for reaping, inputting a driving power from another end part of the transmission mechanism (18d) to an auxiliary gear case (35) for driving the inner auxiliary conveying chain (34a) from the inner auxiliary gear case (35) and leaving the inner auxiliary conveying chain (34a) at the side of the vehicle stage (2) even by turning the reaping machine (4) to the outside direction.

COPYRIGHT: (C)2010,JPO&INPIT

Inventors

FUJITA YASUSHI

UEJI YOSHITAKA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

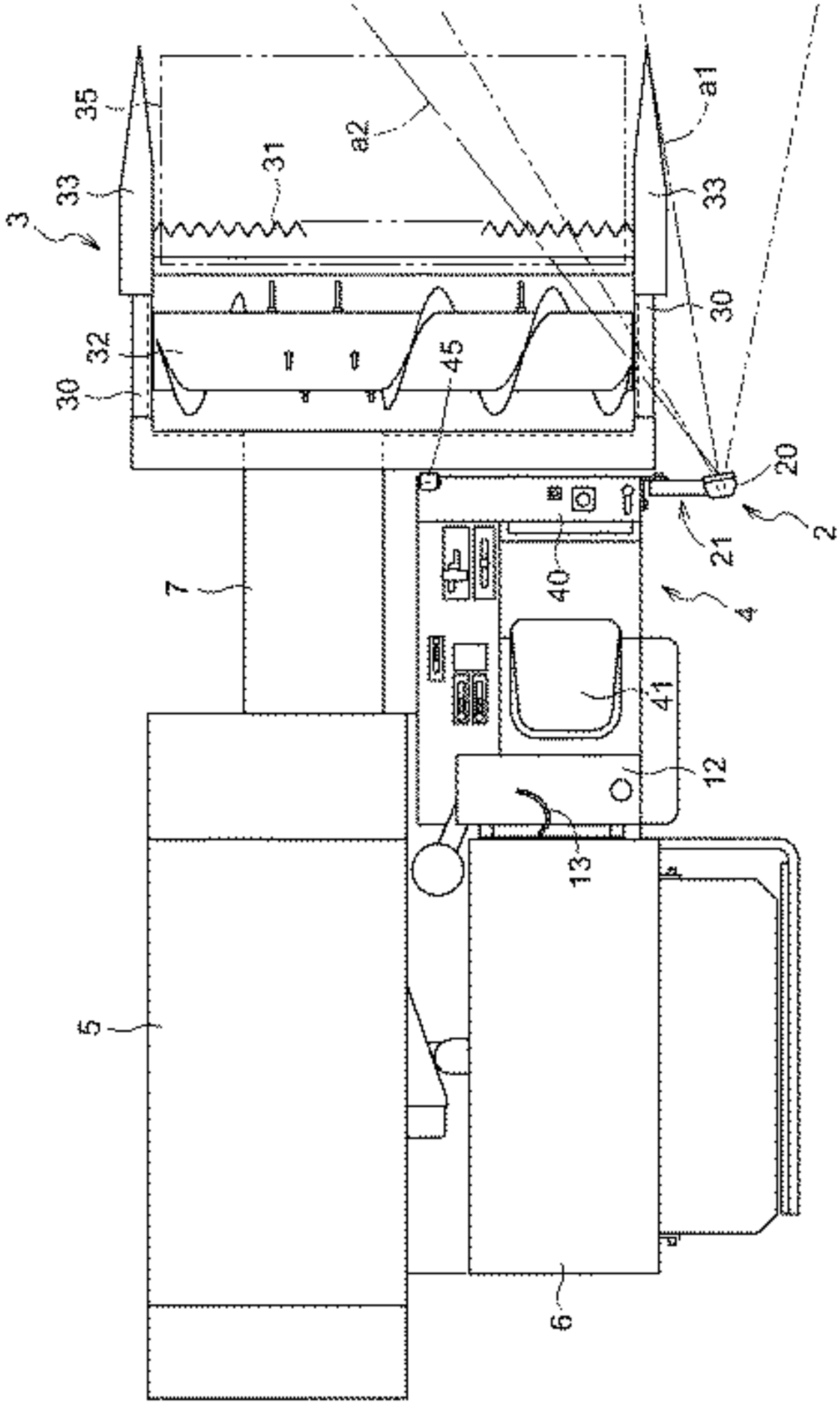
Family 176/667 - FAMPAT - ©Questel

Title

(JP2008259443)

Combine harvester

Images



Publication data including kind & date

JP2008259443 A 2008-10-30 JP2008259443

Abstract

(JP2008259443)

PROBLEM TO BE SOLVED: To obtain an illumination device 2 for illuminating to facilitate the looking of a stalk row on the reaped side in a simple structure without requiring a large output.

SOLUTION: This combine harvester is characterized by disposing the illumination device 2 for illuminating the front side in the traveling direction on one of the lateral sides of the machine frame wherein a boarding driver's seat 4 is disposed on the one side.The illumination device 2 includes: disposing a support arm 21 extended on the lateral outside of the machine frame; and supporting an illumination lamp 20 on the support arm 21 so that the irradiation direction of the illumination lamp 20 can be changed into a state that the optical axis of the illumination lamp 20 is directed to a place near to the tip of a divider of a front reaping pre-treating device 3 or into a state that the optical axis of the illumination lamp 20 is directed to a place near to the reaping width center of the front reaping pre-treating device 3.

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

AIDA CHU

FUMINO YUICHI

Latest standardized assignees - inventors removed

KUBOTA

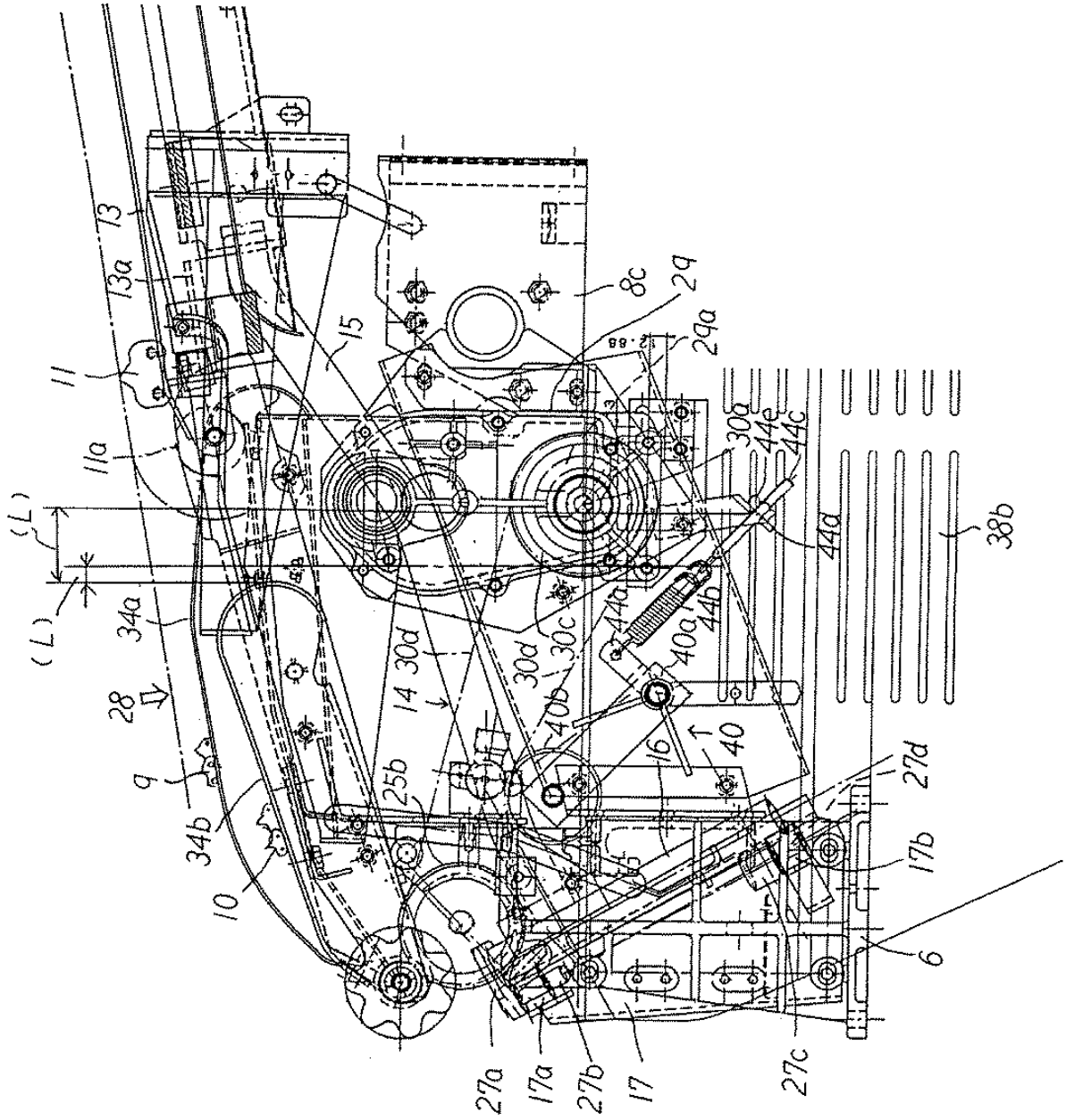
Family 177/667 - FAMPAT - ©Questel

Title

(JP2010246572)

Combine harvester

Images



Publication data including kind & date

JP2010246572	A	2010-11-04	JP2010246572
JP4816804	B2	2011-11-16	JP4816804

Abstract

(JP4816804)

PROBLEM TO BE SOLVED: To provide a combine harvester relaying grain culms to a feed chain of a thresher and a nipping/holding rod by relaying and conveying grain culms with an auxiliary conveying chain while stabilizing the relaying position of the grain culms from a reaping machine to an auxiliary conveying chain.

SOLUTION: The combine harvester includes the auxiliary conveying chain (9) installed inside of the feed chain (11) between the rear side of a feeding conveyer (24e) of the reaping machine (3) with a thresher (8), and the auxiliary conveying chain (9) is spanned on a first rotary wheel (30e) and a second rotary wheel (32a) provided on a shaft (31a) forward from the front end of the feed chain (11), a chain sliding member (34a) installed on the upper inside of the auxiliary conveying chain (9) with a front end positioned at a lower position than the rear end, wherein the bottom of the chain sliding member (34a) is linked to a reaping supporter (6) through a supporting rod (43a) not directly linked to a body (2) of the combine harvester.

COPYRIGHT: (C)2011,JPO&INPIT

Inventors

IMAMURA HIDEKAZU

MATSUI MASAMI
TAKEUCHI KENICHIRO
ICHIMARU TOMOYUKI
TAGAMI KAZUNARI
TOYODA KAZUO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

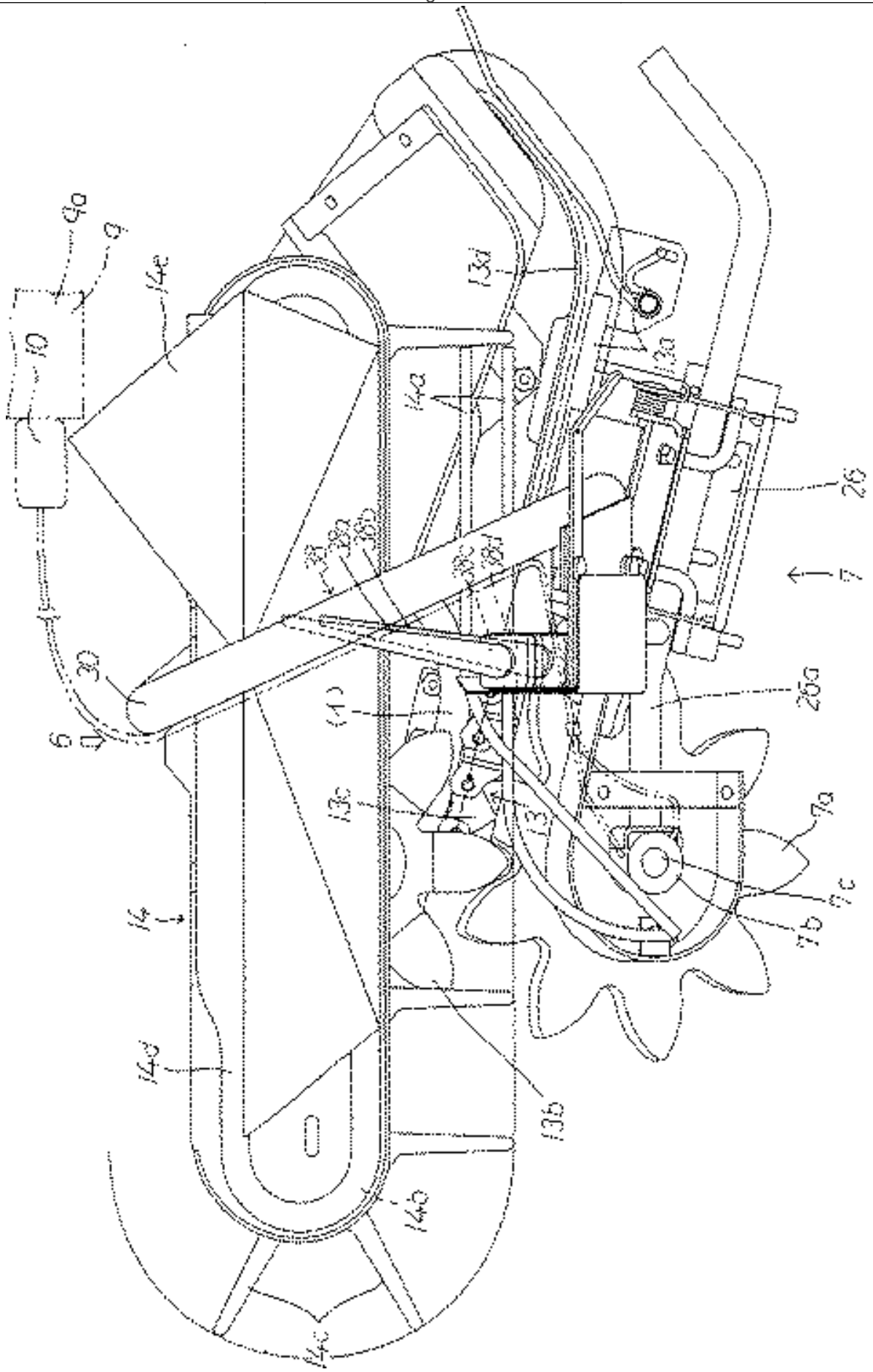
Family 178/667 - FAMPAT - ©Questel

Title

(JP2004016075)

Grain culm transportation apparatus for combine harvester

Images



Publication data including kind & date

JP2004016075	A	2004-01-22	JP2004016075
JP4085709	B2	2008-05-14	JP4085709

Abstract

(JP4085709)

PROBLEM TO BE SOLVED: To solve problems that reaped grain culms nipped and transported by a right/a left root transportation chains of each raking transportation apparatus to a transportation end part are transferred by a root transportation apparatus, a root nipping lever, an ear tip transportation apparatus and an ear tip nipping lever and transported upward to the rear, when transferred, the transfer is badly carried out, consequently, spillage of grain culms occurs and stock arrangement is deteriorated.

SOLUTION: The grain culm transportation apparatus for a combine harvester has constitution that the root sides of the reaped grain culms transported to the transportation end part by each raking transportation apparatus 4 are transferred by the root transportation apparatus 13 and the root nipping lever 13a, the ear tip sides are transferred, raked and transported upward to the rear by the ear tip transportation apparatus 14, the ear tip nipping lever 14a and a left raking transportation star wheel 7a which is mounted on a left raking, supporting apparatus 7 at the root/ear tip nipping levers 13a and 14a sides and rotated and driven by a hydraulic motor 7b.The hydraulic motor 7b is rotated by a hydraulic gearless drive device for changing the gear of the transmission mechanism of a traveling transmission case.

COPYRIGHT: (C)2004,JPO

Inventors

DOIHARA JUNJI

OKUMOTO KOJI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

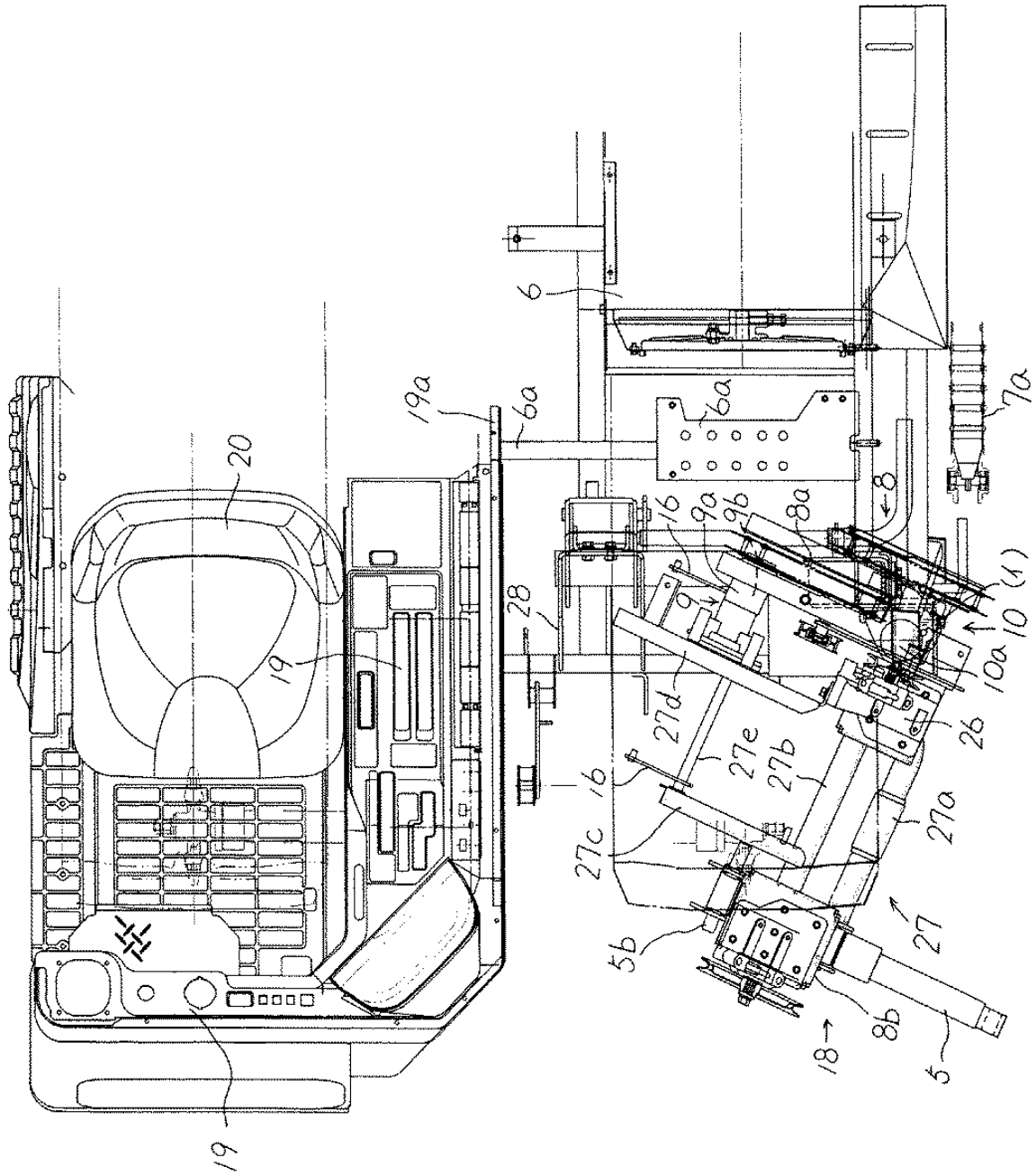
Family 179/667 - FAMPAT - ©Questel

Title

(JP2010104381)

Combined harvester

Images



Publication data including kind & date

JP2010104381	A	2010-05-13	JP2010104381
JP4868069	B2	2012-02-01	JP4868069

Abstract

(JP4868069)

PROBLEM TO BE SOLVED: To provide a combined harvester facilitating maintenance of each part by turning to outside a reaping machine, and preventing damage of a mechanism for turning the reaping machine to outside.

SOLUTION: The combined harvester comprises a supporting pipe (15b) in crosswise direction on the top end of a supporting rod (15a) slantingly installed from lower part to the rear upper part of the reaping machine (4), a rotation axis (10a) on the front left side of a travelling body (2), a crosswise first supporting rod (27a) and a second supporting rod (27b) linked to an interval between a supporting member (26) attached as rotatable around the vertical axis on the rotation axis (10a) and a supporting device (15c) vertically rotatably supporting the supporting pipe (15b), and configured to rotatably support the reaping machine (4) by setting the rotation axis (10a) as a turning fulcrum.An auxiliary grain culm-conveyer (8) is configured as turnable with the reaping machine (4) to left outside using the rotation axis (10a) as a turning fulcrum.

COPYRIGHT: (C)2010,JPO&INPIT

Inventors

MIYAKE TATSUYA

Masaji Ochi

Michio Ishikawa

FUJITA YASUSHI

Toshihiko Okada

Takahashi Kakuro

Latest standardized assignees - inventors removed

ISEKI

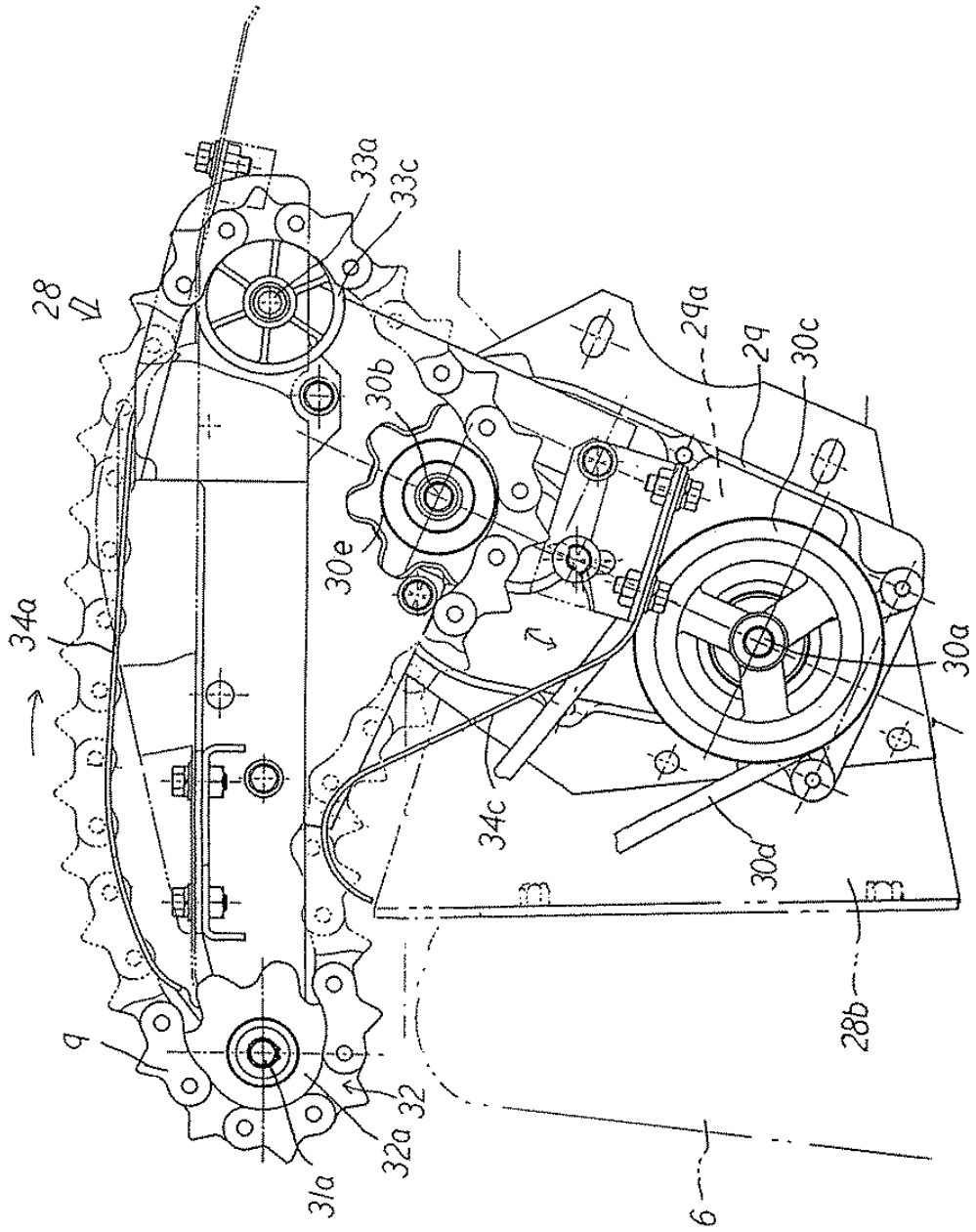
Family 180/667 - FAMPAT - ©Questel

Title

(JP2009072203)

Combine harvester

Images



Publication data including kind & date

JP2009072203	A	2009-04-09	JP2009072203
JP4670945	B2	2011-04-13	JP4670945

Abstract

(JP4670945)

PROBLEM TO BE SOLVED: To stabilize a delivery location of grain stalks from a reaping machine to an auxiliary conveying chain.

SOLUTION: The combine harvester is constituted of an auxiliary conveying chain (9), installed between a rear side of a feed and conveying device (24e) and a thresher (8), and set to receive the grain stalks conveyed by the feed and conveying device (24e) by the auxiliary conveying chain (9) and deliver to the feed-chain (11) and the holding rods (12) of the thresher (8).Also, the combine harvester has installed an input rotating wheel (30c) on an input shaft (30a) supported on the thresher side (8), installed an output rotating wheel (5b) on the outside of a second transmission mechanism (5a) in a support pipe case (5), hanging a belt (30d) between the output rotating wheel (5b) and the input rotating wheel (30c) and

installed a first rotating wheel (30e) on an shaft (30b) driven by the power input to the input power shaft (30a), hanging auxiliary conveying chain (9) between the first rotating wheel (30e) and the second rotating wheel (32a) provided on the front side shaft (31a).

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

IMAMURA HIDEKAZU
TAKEUCHI KENICHIRO
MATSUI MASAMI
ICHIMARU TOMOYUKI
TAGAMI KAZUNARI
TOYODA KAZUO

Latest standardized assignees - inventors removed

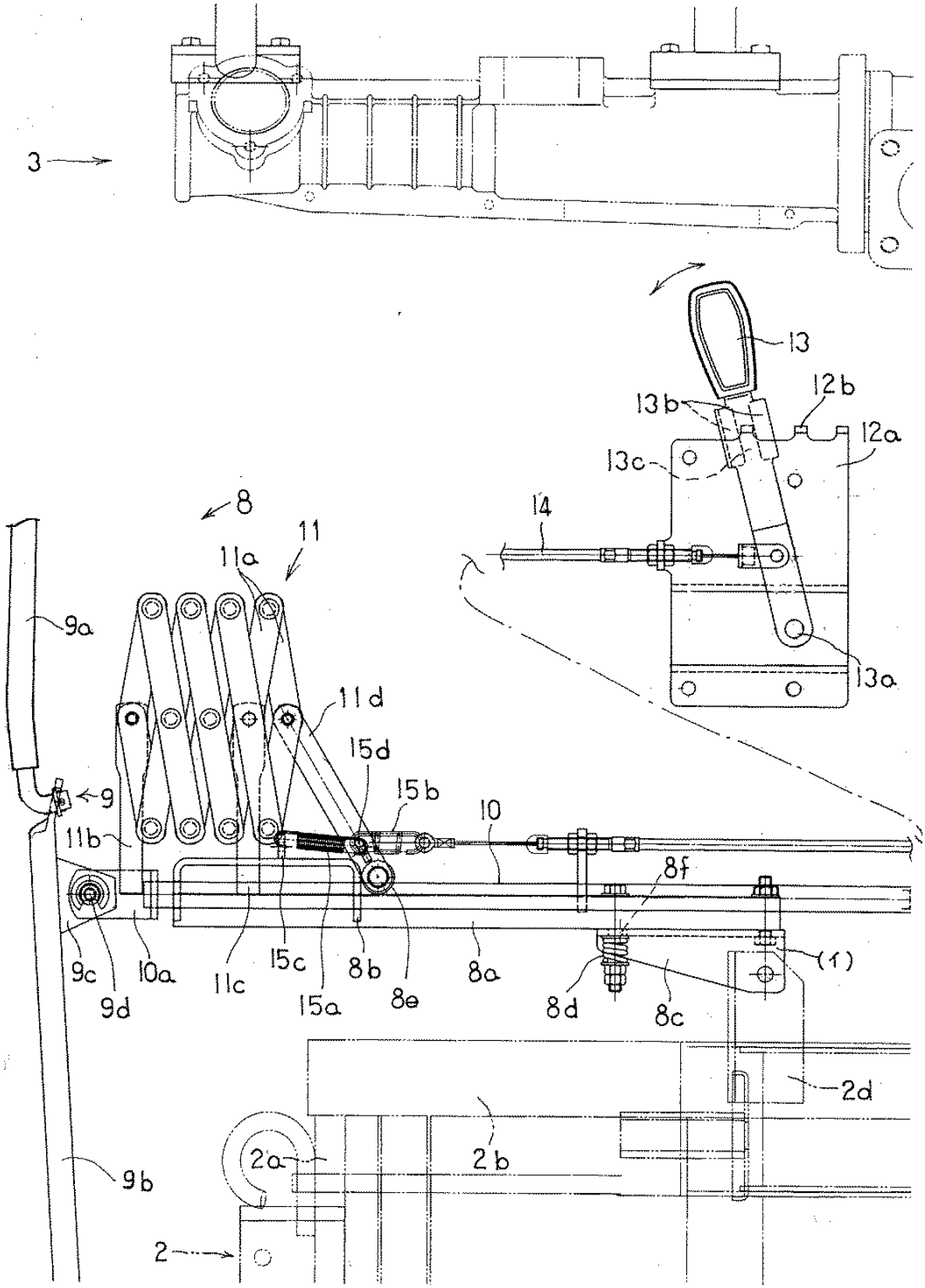
ISEKI AGRICULTURAL MACHINERY

Family 181/667 - FAMPAT - ©Questel

Title

(JP2006094771)
Non-reaping side grass divider for combine harvester

Images



Publication data including kind & date

JP2006094771	A	2006-04-13	JP2006094771
JP4635546	B2	2011-02-23	JP4635546

Abstract

(JP4635546)

PROBLEM TO BE SOLVED: To provide a combine harvester having a narrow guide device for separation of raising grain culms in reaping side, facilitated to overhang and move into storing position in an easy manual operation by constituting the device with a simple structure.

SOLUTION: The invention relates to the combine harvester provided with the narrow guide device 8 which separates raised grain culms in the non-reaping side, wherein a parallel link mechanism 11 comprising a plurality of parallel link mechanisms 11a is installed on the supporting rod 10 installed on a grass dividing rod 9 of the narrow guide device 8 and overhanging movements of the grass dividing rod 9 and the supporting rod 10 to the outside and to the storing position are set as mobile by a manual operation.The parallel link mechanism 11 is provided as substantially vertical to a paddy field.The parallel link mechanism 11 is in a stored state in the combine body 1a when the narrow guide device 8 is subjected to a movement operation to the storing position in the body 1a.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

ANAMI MASAYUKI

SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

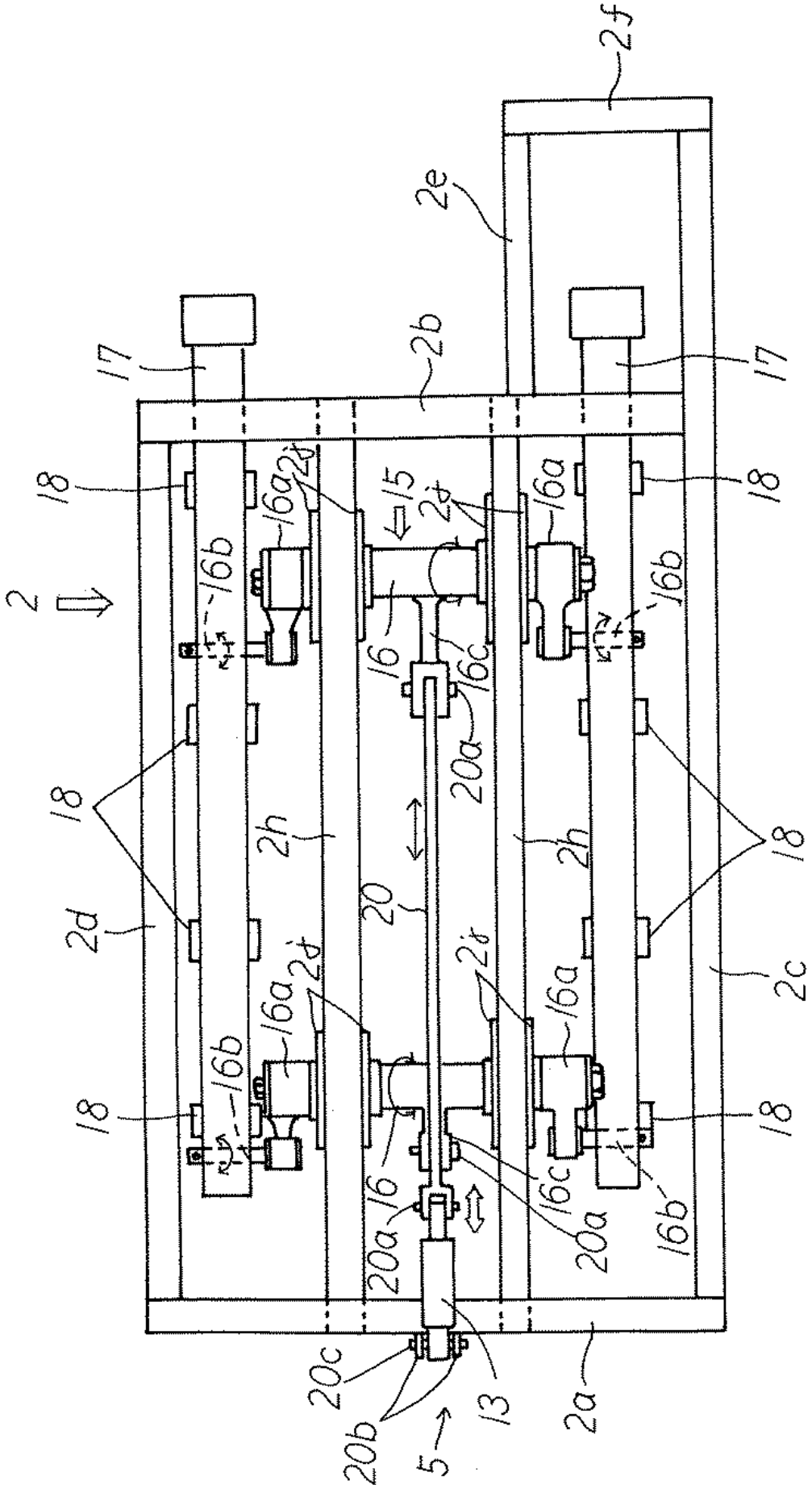
Family 182/667 - FAMPAT - ©Questel

Title

(JP2005095040)

Vehicle body elevator of combine harvester

Images


2f
2e
2b
17
17
18
18
2
16a
2i
15
2i
16a
16b
16b
16
16c
20a
18
18
2h
2h
20
2d
2c
2i
2i
16a
16a
16b
16b
18
18
16
16c
20a
20a
16b
20c
20b
13
5
2a

Publication data including kind & date

JP2005095040 A 2005-04-14 JP2005095040

Abstract

(JP2005095040)

PROBLEM TO BE SOLVED: To provide the vehicle body elevator of a combine harvester, which shares a reaping elevation means for elevating a reaper to also elevate a traveling undercarriage on a reaping and harvesting work in an ill-drained paddy field or a highly ill-drained paddy field.

SOLUTION: This vehicle body elevator of the combine harvester is characterized by sharing the reaping elevation means 5 for elevating the grain-reaping reaper 4 of the combine harvester to elevate the traveling undercarriage.The reaping elevation means 5 is preferably disposed in the lateral center of the traveling undercarriage 2.The traveling undercarriage 2 is preferably fixed to an elevated or lowered position with a fixing apparatus.The fixing position is preferably either of the most elevated position or the most lowered position.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

SATOJI HISAYUKI
IWAMOTO HIROSHI
NAGAI TOSHIRO
OKUMOTO KOJI
SAKAMOTO NORIYUKI
SAITO MANABU
IIIZUMI KIYOSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

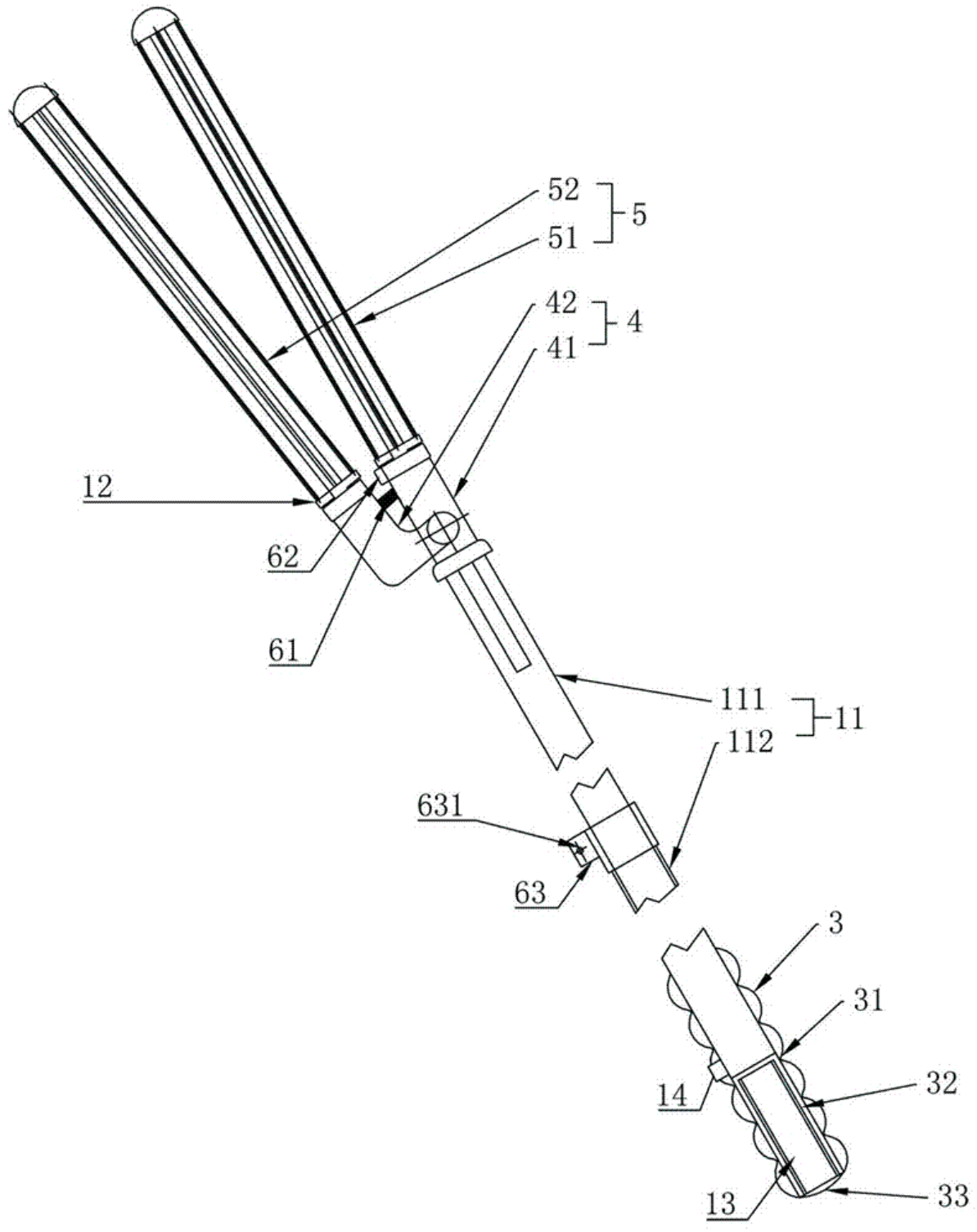
Family 183/667 - FAMPAT - ©Questel

Title

(CN206611807U)

Device is plucked to hickory nut fruit

Images



Publication data including kind & date

CN206611807 U 2017-11-07 CN206611807U

Abstract

(CN206611807U)

The utility model discloses a device is plucked to hickory nut fruit.The utility model discloses a when picking hickory nut, need not beat the branch and make hickory nut drop, press control switch and make first roller and second roller clip the branch to the displacement takes place for first roller and second rod when passing the telescopic link, and the roller still takes place to roll when taking place the displacement, pushes the hickory nut on the branch get off.Simultaneously the setting up of inner tube and outer tube of telescopic link makes the fully adjustable of telescopic link, makes things convenient for the harvesting personnel to pick the hickory nut of far and near difference.

Inventors

XING JUNWANG
XU LIJUN

Latest standardized assignees - inventors removed

ZHEJIANG AGRICULTURE AND FORESTRY UNIVERSITY

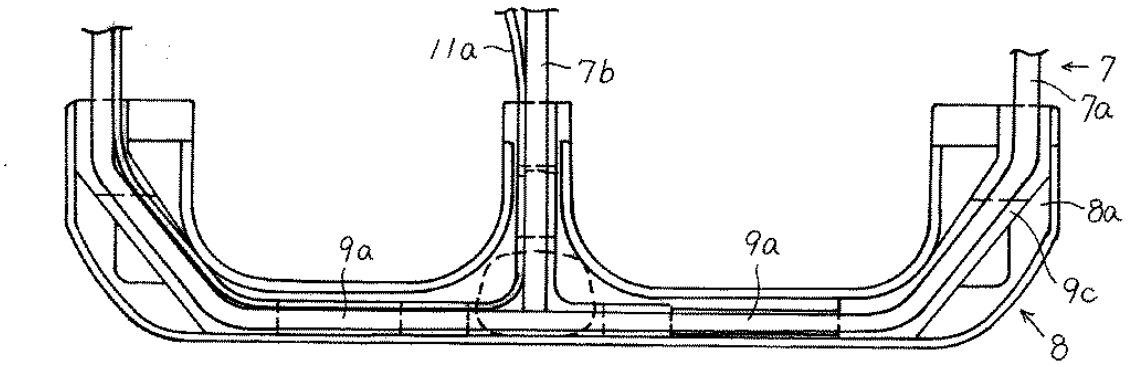
Family 184/667 - FAMPAT - ©Questel

Title

(JP2005087066)

Cover for raising device of combine harvester

Images



Publication data including kind & date

JP2005087066 A 2005-04-07 JP2005087066

Abstract

(JP2005087066)

PROBLEM TO BE SOLVED: To facilitate fixation and removal of a raising cover to be mounted on the upper side of each raising device for raising grain straws and to improve an appearance shape.

SOLUTION: The cover for a raising device of a combine harvester has constitution that a frame body is mounted on the upper part of each raising device to raise grain stalks and in the frame body, the raising cover 8 for covering the upper side of each raising device is equipped with a plurality of fitting grooves 9a and each fitting groove 9a is fitted to the frame body.An insertion groove 9b is arranged in the inside of the raising cover 8 and the frame body and an oiling pipe are inserted into the insertion groove.A transparent or translucent sheet is supported on the upper part of the raising cover 8 by a frame body 8a and the frame body 8a is made longer.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

IIIZUMI KIYOSHI

ANAMI MASAYUKI

SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

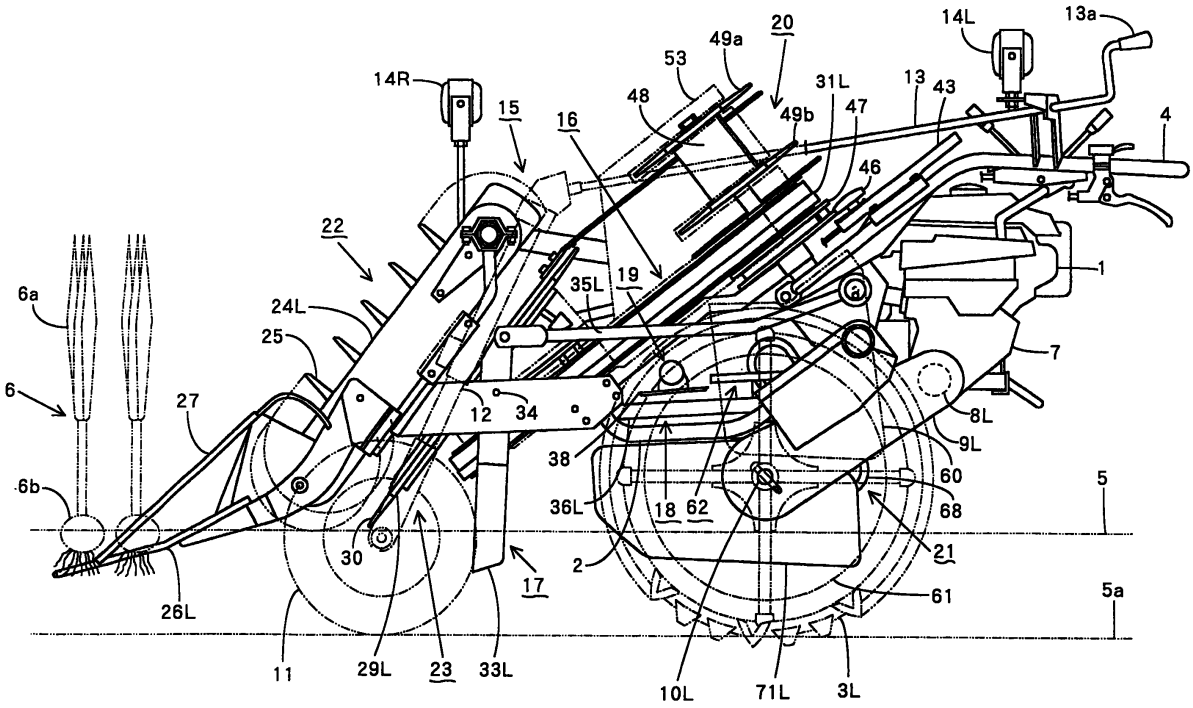
Family 185/667 - FAMPAT - ©Questel

Title

(CN1305364C)

Root vegetable harvester

Images



Publication data including kind & date

CN1435079	A	2003-08-13	CN1435079
CN1305364	C	2007-03-21	CN1305364C

Abstract

(CN1305364C)

A harvester for rhizome vegetable (onion bulb) is composed of a pre-treating unit for making the stem and leaves of onion stand up, a digger for digging up onion bulb, a clamping-lifting conveyer, analigning unit for aligning the height of onion bulbs, a stem and leaf cutter, an onion bulb delivering unit for discharging the onion bulbs on the field, and a stem and leaf discharger.

Inventors

MORIKAWA KIYOHIRO,TAKAHASHI SHINICHI,TERAMOTO SHOUJI

TERAMOTO SHOJI,MATSUI KANO,SAKITA SACHIHIRO

IRIE, SHINKO

WATANABE FUMITO

Latest standardized assignees - inventors removed

NORMA AGRICULTURAL MACHINERY K K

YANMAR AGRICULTURAL EQUIPMENT

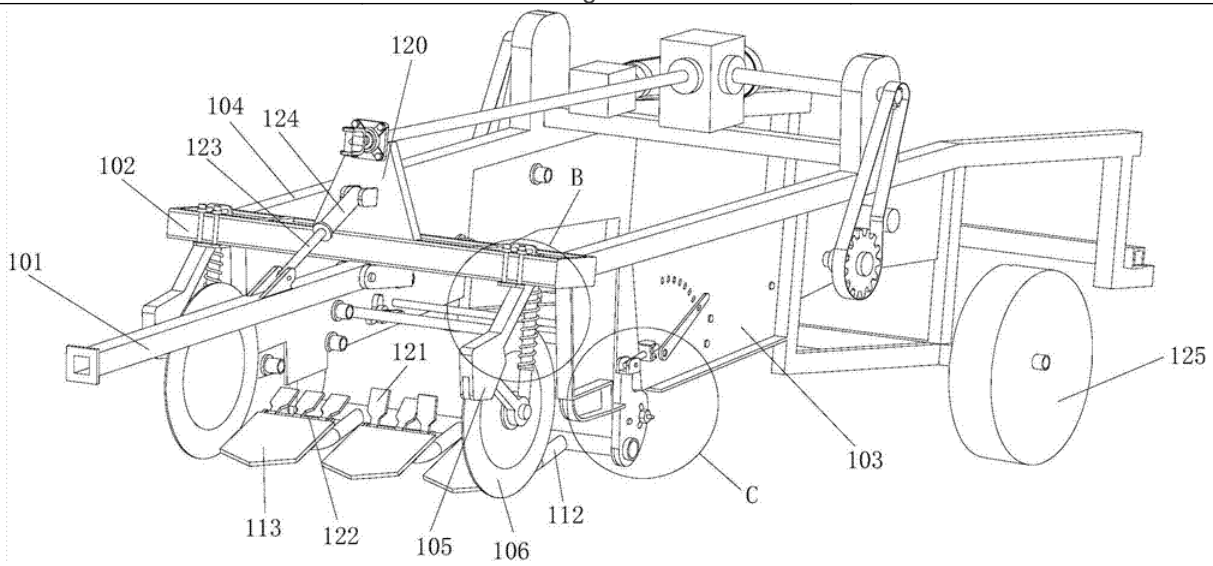
Family 186/667 - FAMPAT - ©Questel

Title

(CN207099676U)

Root -tuber crops excavating gear and use device's harvester

Images



Publication data including kind & date

CN207099676 U 2018-03-16 CN207099676U

Abstract

(CN207099676U)

The utility model belongs to the technical field of the agricultural harvesting machine technique and specifically relates to a root -tuber crops excavating gear and use device's harvester is relatedto.The root -tuber crops excavating gear, including frame and telescoping device, the frame is used for being connected with draw gear, and the frame is provided with cutting mechanism and has shoveled the mechanism, and cutting mechanism is used for cutting off weeds and/or plastic film, has shoveled the mechanism and has been arranged in digging out root -tuber crops from soil, the telescopingdevice is connected with the frame for make the frame raise or descend, so that shovel the mechanism and be located more than the ground, or the messenger has shoveled the mechanism and has stretchedinto the below ground.The utility model also provides a harvester.The utility model discloses not only be applicable to and plant the cultivation clearly, more be applicable to the plastic mulchingcultivation moreover, can guarantee the disappearance hourglass as far as possible and dig the phenomenon, improved results efficiency.

Inventors

GUO TIANWEI

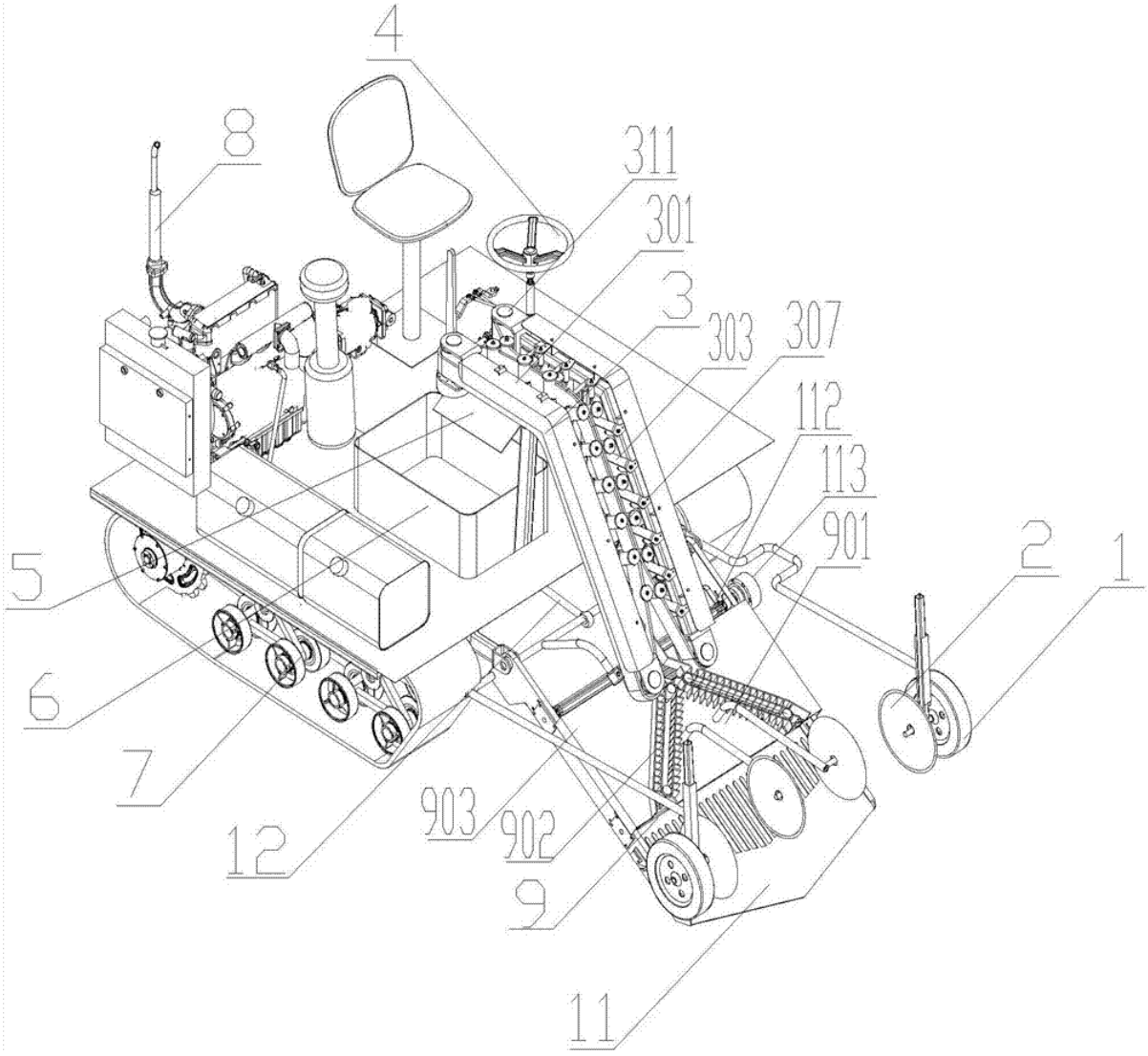
Family 187/667 - FAMPAT - ©Questel

Title

(CN106358565)

Twin-row self-walking track type green Chinese onion combine harvester

Images



Publication data including kind & date

CN106358565	A	2017-02-01	CN106358565
CN106358565	B	2018-08-21	CN106358565B

Abstract

(CN106358565B)

The invention relates to a twin-row self-walking track type green Chinese onion combine harvester which comprises supporting depth limiting devices, a clamping conveying device, a switch-over plate, a twin-row soil shaking conveying device, a secondary soil-removing device, a twin-row collecting device and a collecting basket.A hydraulic track chassis is a supporting and installing platform for the complete machine.The twin-row soil shaking conveying device is located at the front end of the complete machine and connected with a chassis framework of the hydraulic track chassis, and the angle of the twin-row soil shaking conveying device can be adjusted under the control by a hydraulic cylinder.The supporting depth limiting devices are installed on the two sides of the twin-row soil shaking conveying device.The twin-row collecting device is installed above the twin-row soil shaking conveying device through a lead plate.The complete machine advancing direction end of the clamping conveying device is next to the rear half part of the twin-row collecting device and is fixed to the chassis framework of the hydraulic track chassis, the switch-over plate is located at the position of a free falling port of the clamping conveying device, and the collecting basket is located at the position of a free falling port of the switch-over plate and flatly placed on a walking table plate of the hydraulic track chassis.The twin-row self-walking track type green Chinese onion combine harvester can automatically harvest two rows of green Chinese onions in one time simultaneously; and due to the effective rotating diameter of a spacing board of a PVC collecting band and a V-shaped conveying track at the front end of the lead plate of the twin-row collecting device, the green Chinese onions with different row spacings can be harvested.

Inventors

HOU JIALIN
WANG HOUXIN
LI YUHUA
LIU XIAO
LIU JINGWEI
SONG TIANXIN

Latest standardized assignees - inventors removed

SHANDONG AGRICULTURAL UNIVERSITY

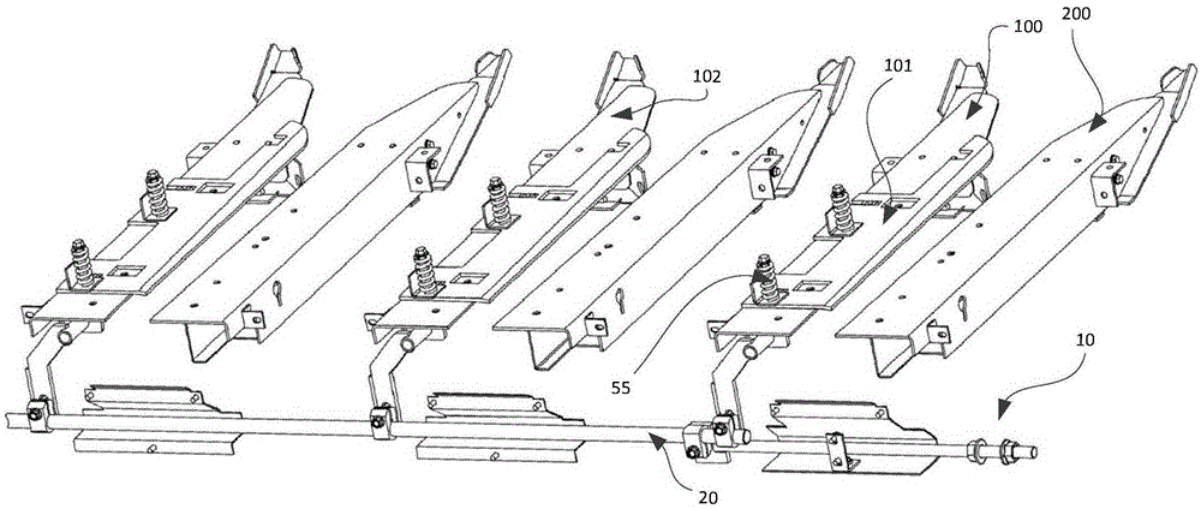
Family 188/667 - FAMPAT - ©Questel

Title

(CN205454636U)

A pluck ear of grain device, maize header and corn harvester for gathering in maize

Images



Publication data including kind & date

CN205454636 U 2016-08-17 CN205454636U

Abstract

(CN205454636U)

The application discloses a pluck ear of grain device, maize header and corn harvester for gathering in maize, wherein, what be used for reaping the maize plucks ear of grain device, plucks ear of grain frame including at least two pairs, it is every right pluck ear of grain frame including mutually support first pluck ear of grain frame and ear of grain frame is plucked to the second, every ear of grain board is plucked to the first ear of grain shelf location of plucking, it still includes adjustment mechanism to pluck ear of grain device, adjustment mechanism including adjust the pole and with adjusting?lever?connection's actuator disk unit, adjust the pole with at least two it is connected to pluck ear of grain board, the actuator disk unit can drive the regulation pole removes, thereby drives it follows to pluck ear of grain board it arranges the direction and removes to pluck ear of grain frame.The application discloses a pluck ear of grain device, maize header and corn harvester for gathering in maize can portably adjust whenever to plucking the gap length between the ear of grain frame very fast.

Inventors

PANG FENGBIN
MENG FANCHANG
CUI QINGYU
XU WEICHENG
JIA YUN

Latest standardized assignees - inventors removed

JOHN DEERE

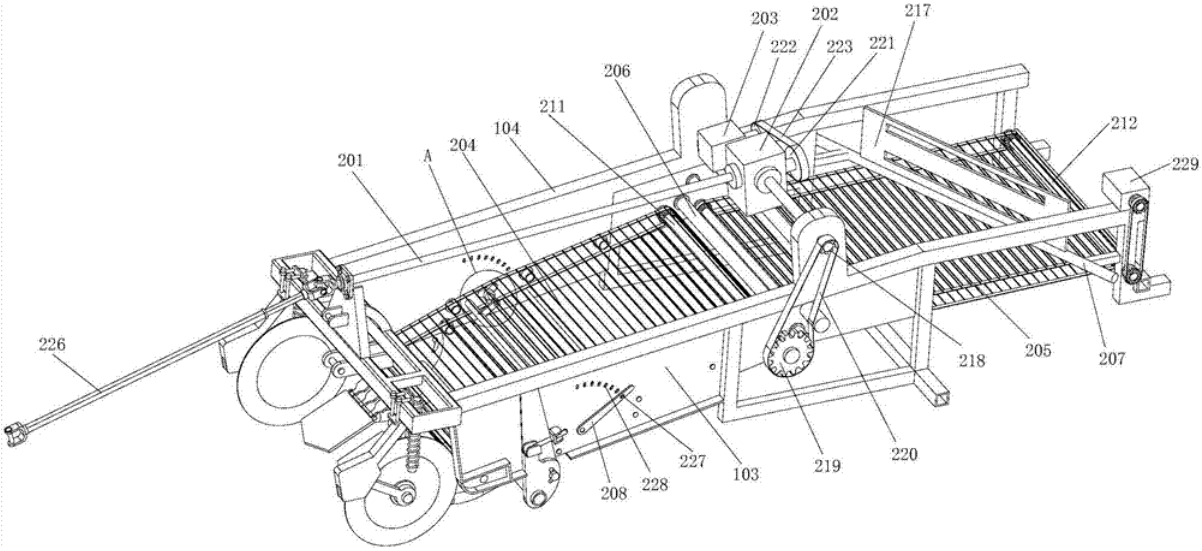
Family 189/667 - FAMPAT - ©Questel

Title

(CN207099679U)

Conveyor and use device's root -tuber crops harvester

Images



Publication data including kind & date

CN207099679 U 2018-03-16 CN207099679U

Abstract

(CN207099679U)

The utility model belongs to the technical field of the agricultural harvesting machine technique and specifically relates to a conveyor and use device's root -tuber crops harvester is related to.Conveyor, including the frame, the frame is provided with driving shaft, gearbox, hydraulic pump, a chain transportation mechanism and the 2nd chain transportation mechanism, the driving shaft is used for being connected with the transmission of draw gear output shaft, and the other end and the transmission input shaft transmission of driving shaft are connected, and a chain transportation mechanismis used for detaching the earth and the debris of root -tuber crops surface, is provided with the miscellaneous roller of branch between a chain transportation mechanism and the 2nd chain transportation mechanism, divides a miscellaneous roller and a chain transportation mechanism to match for detach root -tuber crops's leaf, the 2nd chain transportation mechanism's top is provided with the guideroll for in the leading -in promotion cage of root -tuber crops, the hydraulic pump is used for providing power to the 2nd chain transportation mechanism and guide roll.The utility model discloses can raise the efficiency root -tuber crops and debris phase separations such as leaf, earth and weeds.

Inventors

GUO TIANWEI

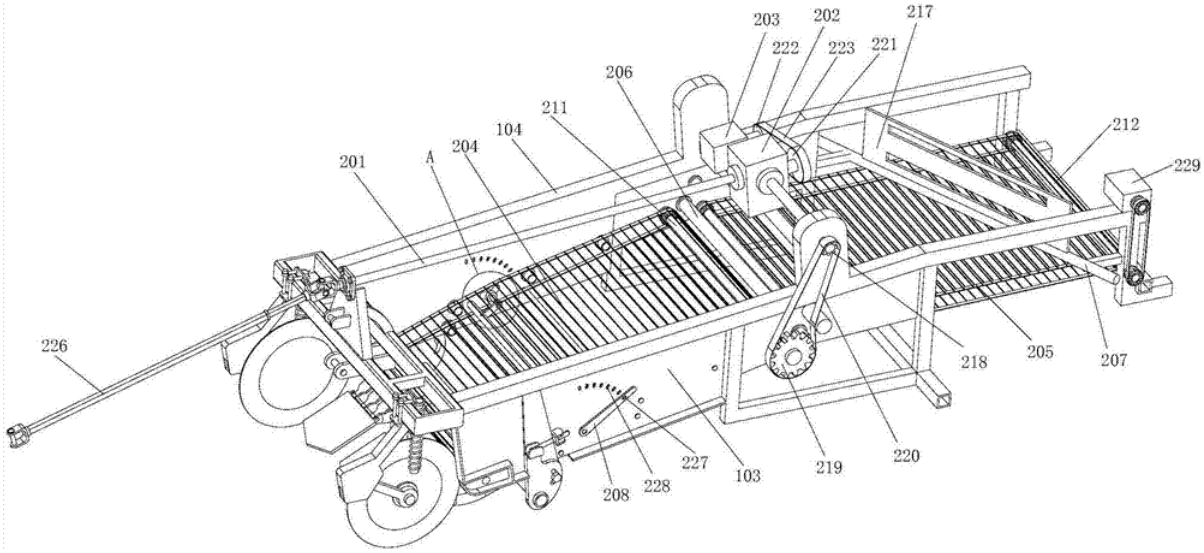
Family 190/667 - FAMPAT - ©Questel

Title

(CN107318342)

Conveying device and tuber crop harvester with conveying device

Images



Publication data including kind & date

CN107318342 A 2017-11-07 CN107318342

Abstract

(CN107318342)

The invention relates to the technical field of agricultural harvesting machines, in particular to a conveying device and a tuber crop harvester with the conveying device.The conveying device comprises a machine frame, and the machine frame is provided with a driving shaft, a gearbox, a hydraulic pump, a first chain conveying mechanism and a second chain conveying mechanism, wherein the driving shaft is used for being in transmission connection with an output shaft of a traction device, and the other end of the driving shaft is in transmission connection with an input shaft of the gearbox; the first chain conveying mechanism is used for removing soil and impurities on the outer surfaces of tuber crops, and an impurity separation roller is arranged between the first chain conveying mechanism and the second chain conveying mechanism; the impurity separation roller is matched with the first chain conveying mechanism and used for removing leaves of the tuber crops; a guide roller is arranged above the second chain conveying mechanism and used for guiding the tuber crops into a lifting cage; the hydraulic pump is used for providing power for the second chain conveying mechanism and the guide roller.The tuber crops can be separated from the impurities such as the leaves, the soil and weeds, so that the efficiency is improved.

Inventors

GUO TIANWEI

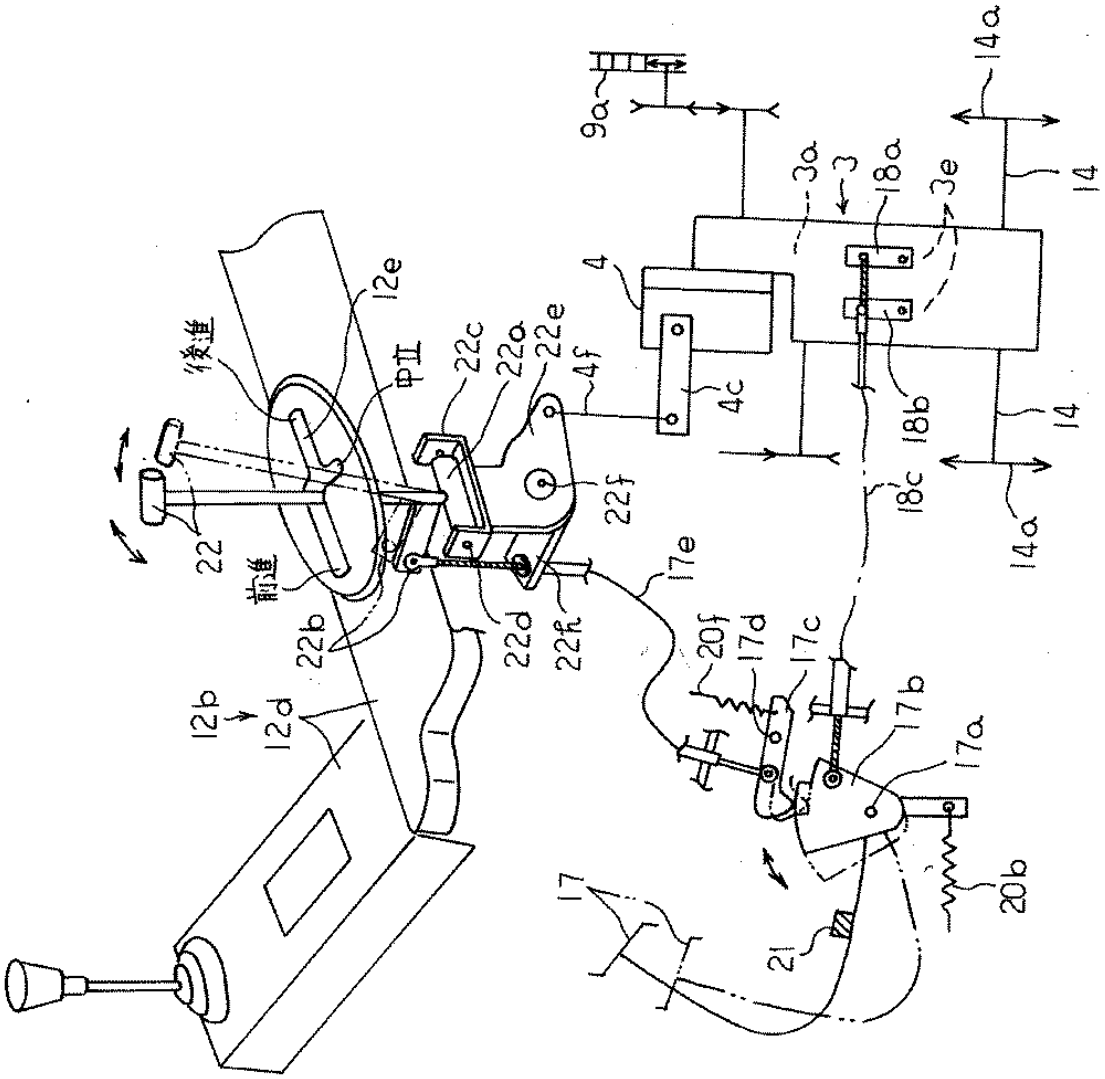
Family 191/667 - FAMPAT - ©Questel

Title

(JP2007029003)

Combine harvester

Images



Publication data including kind & date

JP2007029003	A	2007-02-08	JP2007029003
JP4710466	B2	2011-06-29	JP4710466

Abstract

(JP4710466)

PROBLEM TO BE SOLVED: To prevent a danger wherein a combine harvester jack-rabbits, when a parking brake pedal is depressed and then released in a state where a main speed change lever is operated into a forward driving position, in order to rake grain straws in a head land, while the parking brake can be applied by operating either of a parking brake pedal and a parking brake lever.

SOLUTION: When a main speed change lever 22 for operating travel is operated into a forward driving in a state where a traveling power transmission is disconnected and a parking brake 3e is locked, a reaper 5 for reaping grain straws and a feed chain 9a of a thresher 6 are rotationally driven, and the unlocking of the parking brake 3e enables the operation of the main speed change lever 22 to a neutral position.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

SATOJI HISAYUKI

GOSHIMA KAZUMI

DOIHARA JUNJI

NAGAI TOSHIRO

OKUMOTO KOJI

FUTAGAMI SHIN

IWAMOTO HIROSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

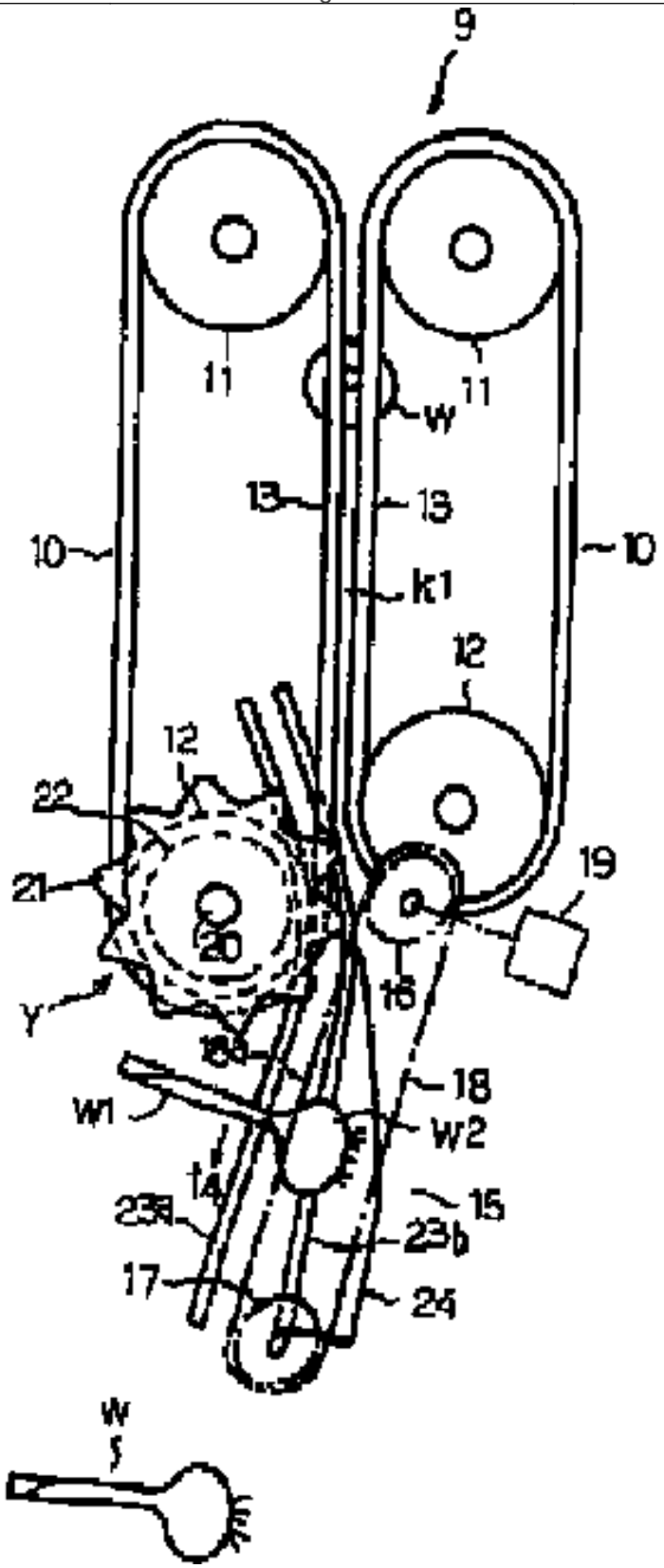
Family 192/667 - FAMPAT - ©Questel

Title

(JP11196641)

Rhizome harvester

Images



Publication data including kind & date

JPH11196641	A	1999-07-27	JP11196641
JP3279533	B2	2002-04-30	JP3279533

Abstract

(JP3279533)

PROBLEM TO BE SOLVED: To construct a rhizome harvester to be capable of continuously arranging pulled out and harvested crops in proceeding of a machine body at a constant falling sideways attitude on a levee face of a running locus of the machine body.SOLUTION: This rhizome harvester has an arranging device 15 at a place under a pulling out and carrying device and following a lower carrying device 9.The arranging device 15 has a pair of second pulleys 16 and 17 in a rotatable state and almost tilted along a vertical face, winding around an endless carrying belt 18 on the pulleys 16 and 17,

transmitting a rotation to the front second pulley 16 through a suitable transmission case and driving a lower extended part 18a in the carrying belt 18 to the rear downward direction (f4).

Inventors

TERAMOTO SEIJI

MATSUI MIKIO

FUKUI YUKIHIRO

WATANABE KAZUYUKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

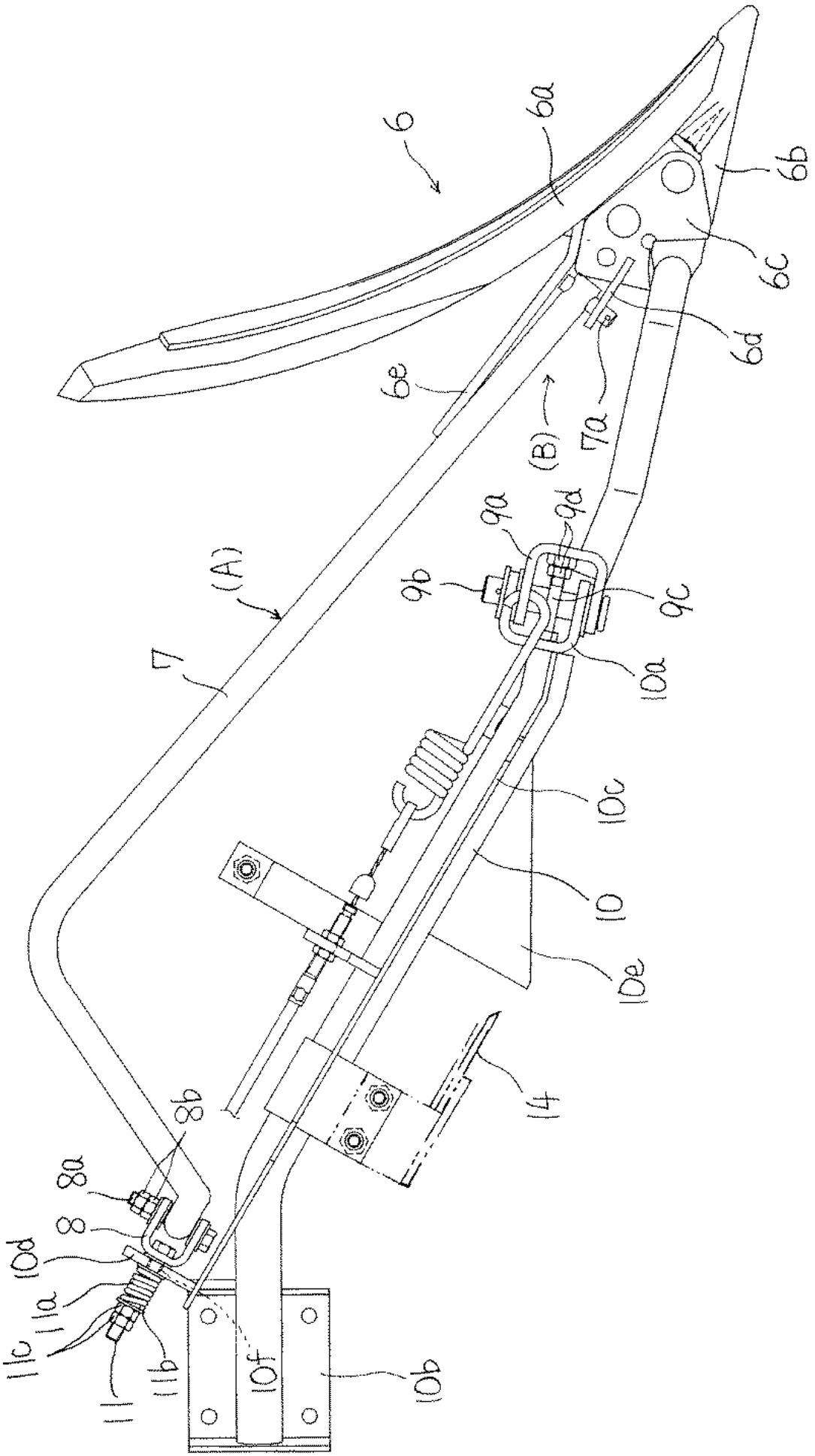
Family 193/667 - FAMPAT - ©Questel

Title

(JP2008237159)

Combine harvester

Images


6
6a
6b
6c
6d
6e
7a
(B)
9a
9d
9b
9c
(A)
7
10a
10c
10
10e
14
8b
8a
8
10d
11a
11c
11
11b
10f
10b

Publication data including kind & date

JP2008237159	A	2008-10-09	JP2008237159
JP5034597	B2	2012-09-26	JP5034597

Abstract

(JP5034597)

PROBLEM TO BE SOLVED: To make a narrow guide and a grass divider hardly thrust the firm field so that deformation or damage does not occur, which separate culm to be reaped.

SOLUTION: The combine harvester includes a reaping device (4) having a grass divider (6), a raising device (12), a raking device (13a) and a reaping blade (14) and provided in front of a running car chassis (3), wherein the reaping device (4) is supported laterally movably relative to the running car chassis (3).A grass divider (6) is set laterally rotatably against the reaping device (14).The front end part (B) of a narrow guide (7) set on the reaping side of the reaping device (14) is fixed to the grass divider (6) side.The rear end part of the narrow guide (7) is fixed to be freely turned about a longitudinal axis and a vertical axis against the reaping device (14).

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

Toshiro Nagai

SAKAMOTO NORIYUKI

Latest standardized assignees - inventors removed

ISEKI

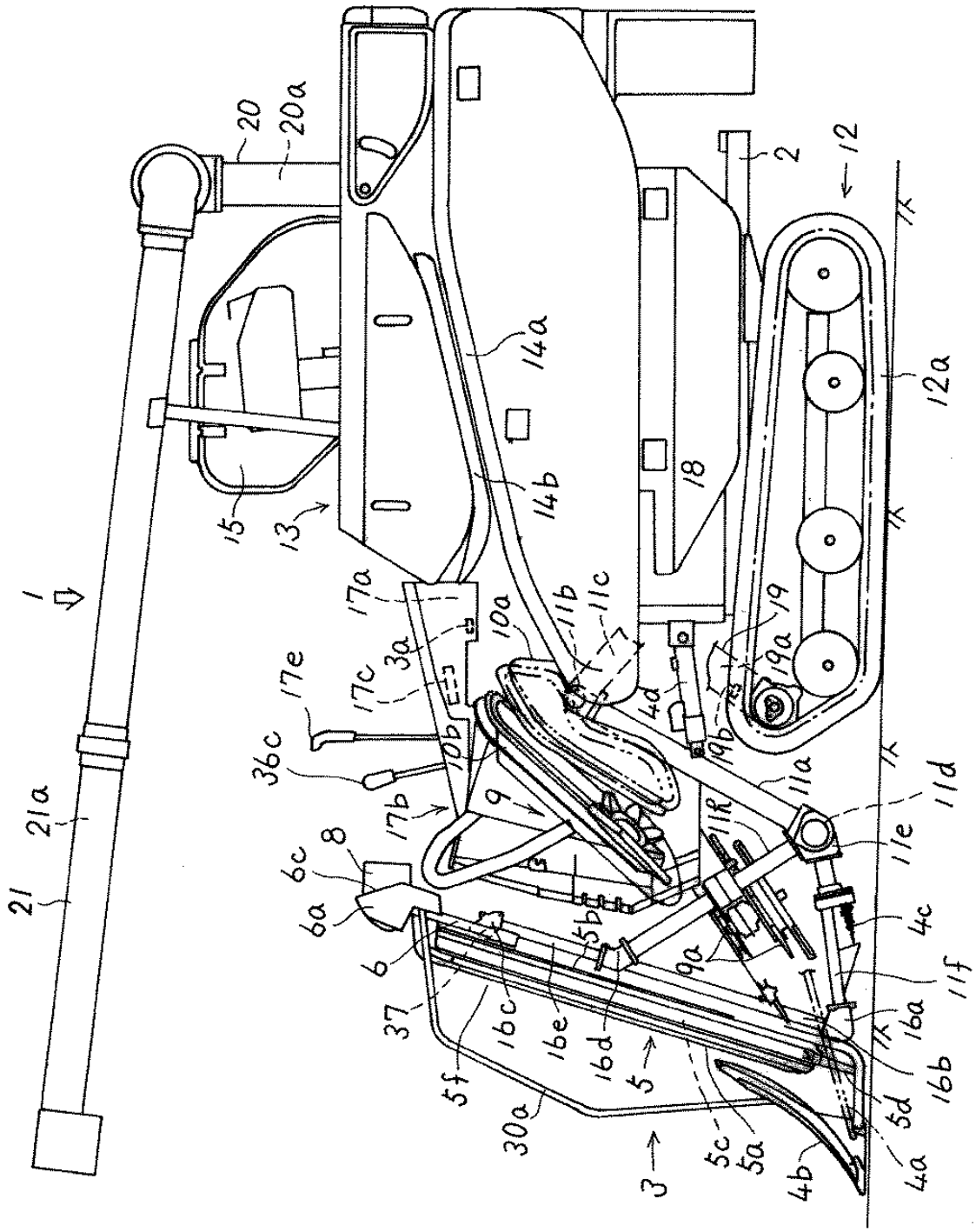
Family 194/667 - FAMPAT - ©Questel

Title

(JP2005160449)

Grain scatter-preventing device in combine harvester

Images



Publication data including kind & date

JP2005160449 A 2005-06-23 JP2005160449

Abstract

(JP2005160449)

PROBLEM TO BE SOLVED: To prevent threshed cereal grains from scattering towards a driving operator on a steering seat while raising cereal culms by using a plurality of raising devices for raising the cereal culms.

SOLUTION: This grain scatter-preventing device in a combine harvester is constituted by installing a grain-scattering cover 8 consisting of a transparent member for preventing the threshed grains on rasing the cereal culms from scattering at the upper part of the plurality of the raising devices 5 for rising the cereal culms as freely attachable and detachable over almost all width of the each of the raising devices 5.Also, the grain-scattering cover 8 is installed by dividing it into a plurality of pieces and also by opening its threshing machine 13 side.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

SAITO MANABU

NAGAI TOSHIRO

SATOJI HISAYUKI

YOSHIMURA FUMIO

MATSUZAWA HIROKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

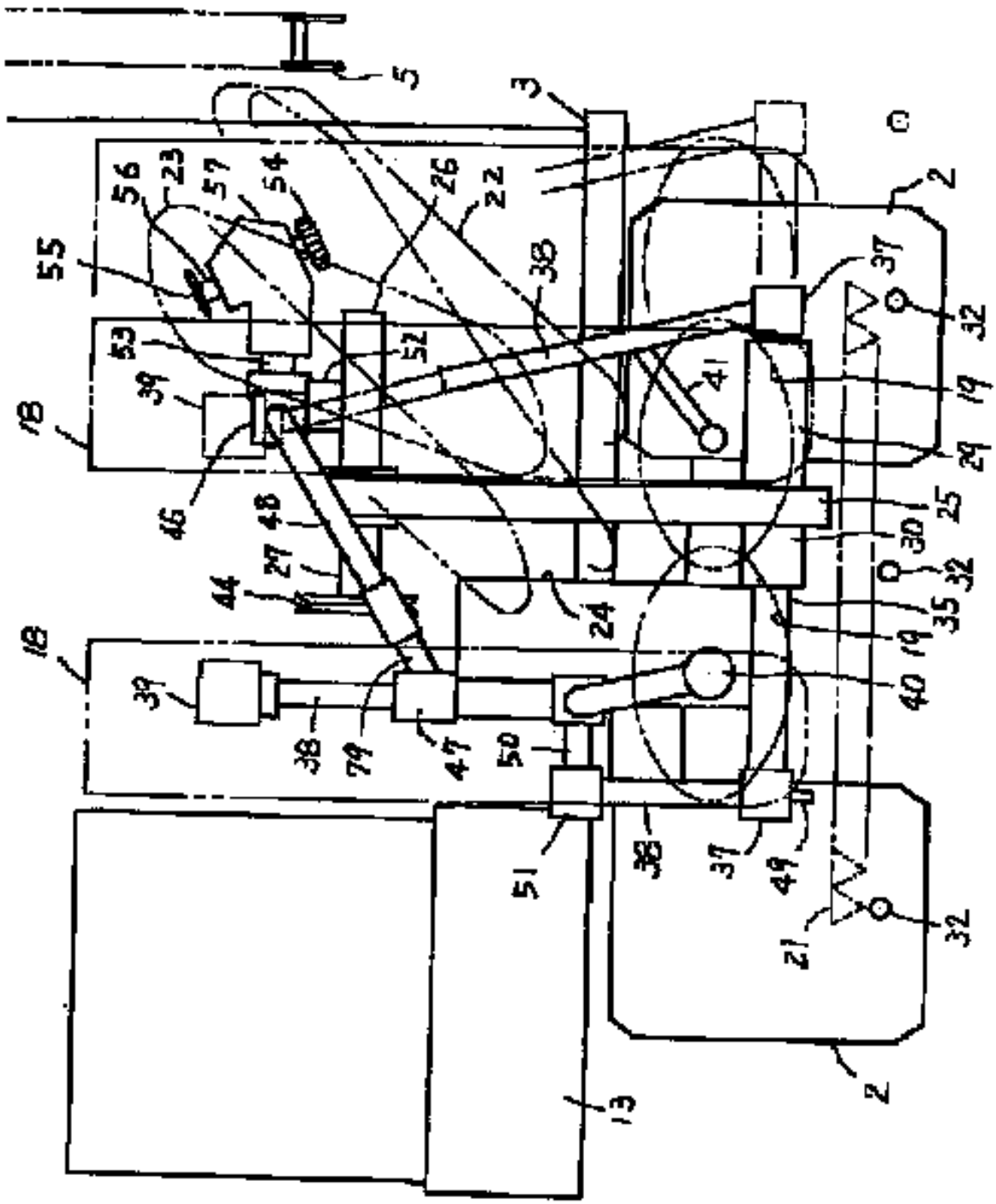
Family 195/667 - FAMPAT - ©Questel

Title

(JP2000135019)

Combine harvester

Images



Publication data including kind & date

JP2000135019	A	2000-05-16	JP2000135019
JP3250731	B2	2002-01-28	JP3250731

Abstract

(JP3250731)

PROBLEM TO BE SOLVED: To simply compose a transmission route of a reaping operation system in a reaping part freely movable left and right.SOLUTION: This combine harvester is obtained by installing a freely stretchable connecting pipe 48 between a reaping outputting case 46 attached to a part of a vertical rotating shaft 26 in a reaping part 7 so as to freely rotate around a vertical shaft 52 left and right and a reaping operation inputting case 47 assembled in the intermediate part of a right raising up pipe 38 for standing and supporting a right raising up case 18, rotating the connecting

pipe 48 from the reaping outputting case 46 left and right following to the left and right movement of the reaping part 7, transmitting a power inputted to the part of the vertical rotating shaft 26 from the part of the vertical rotating shaft 26 through the interior of the reaping outputting case 46 and the connecting pipe 48 to the reaping operation inputting case 47 and transmitting the power inputted to the reaping operation inputting case 47 to reaping operation members 18, 19, 20 and 21.

Inventors

OKAZAKI MASAHARU

MUKUSHIRO HIROSHI

YABUKI MAKOTO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

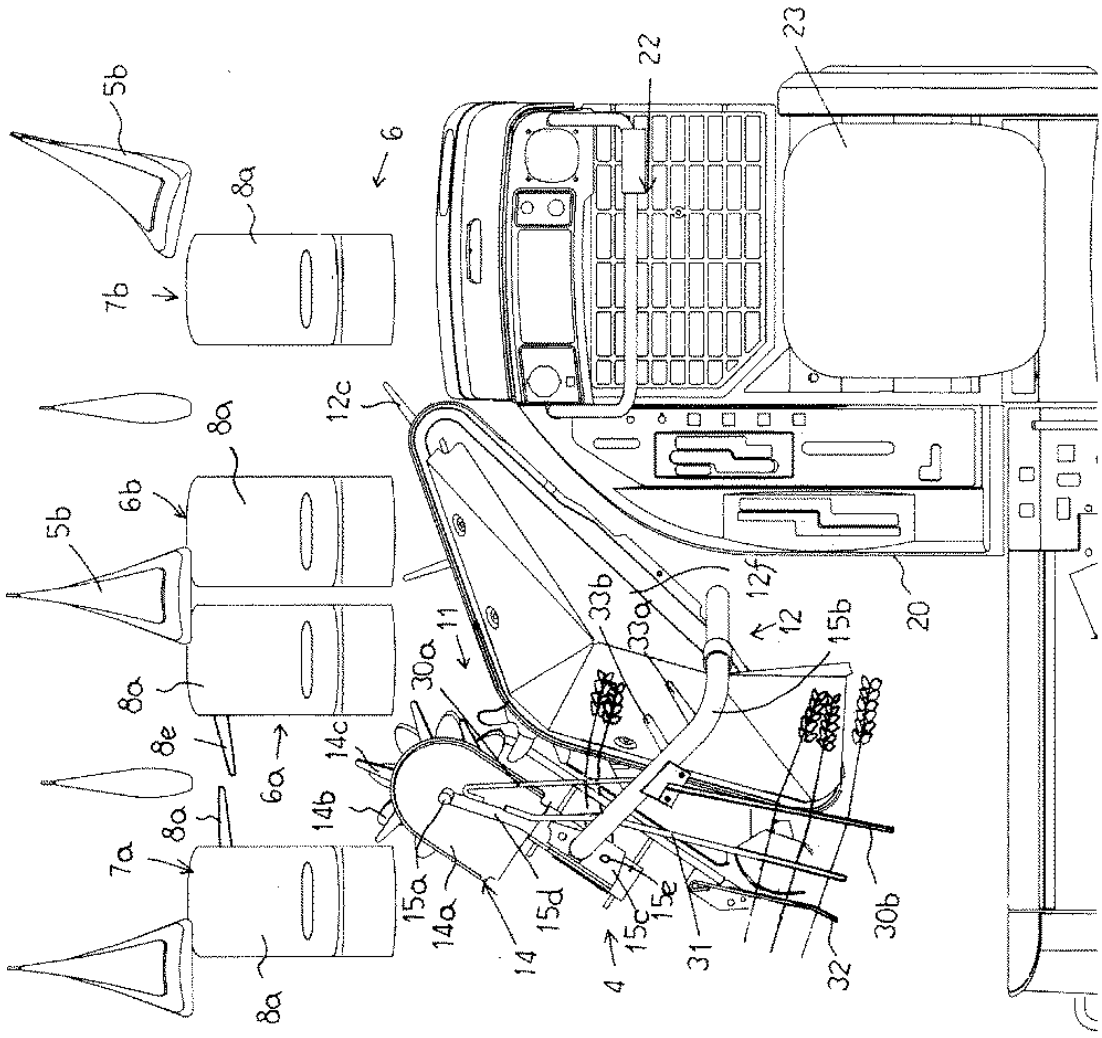
Family 196/667 - FAMPAT - ©Questel

Title

(JP2012000013)

Combine harvester

Images



Publication data including kind & date

JP2012000013 A 2012-01-05 JP2012000013

Abstract

(JP2012000013)

PROBLEM TO BE SOLVED: To improve a collection rate of grain culms, and to smoothly perform reaping/threshing operation with a combine harvester by preventing drop of grain culms by interference of the conveyed grain culms and the periphery of a supply port of a threshing device.SOLUTION: The combine harvester includes: a stub base transfer device (10a) and an ear tip transfer device (12) for conveying and supplying the reaped grain culms reaped by a reaping deice (4) at the front part of the machine body to the threshing device (2a) provided at the rear side of the reaping device (4); and a first ear tip leading rod (30a) for pressing the ear tip of the grain culms at the upper side of the ear tip transfer device (12).The combine harvester is provided with a second ear tip leading rod (30b) extending rearward more than the conveyance termination of the ear tip transfer device (12) is provided at a conveyance lower side position of the first ear tip leading rod (30a).

Inventors

SATOJI HISAYUKI
SAITO MANABU
KUSUME KOJI
SAKAMOTO NORIYUKI
Kazuya Okumura

Latest standardized assignees - inventors removed

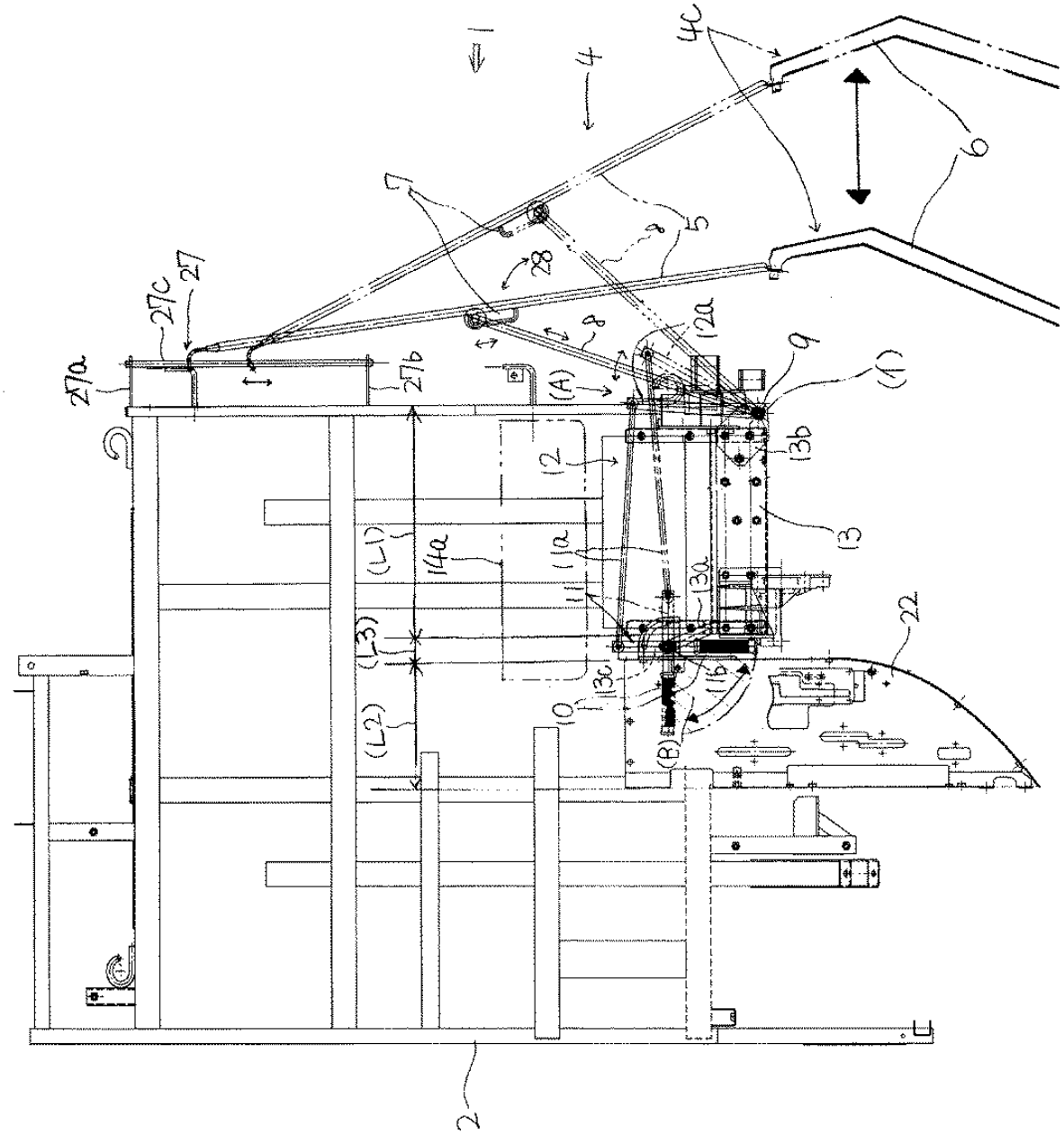
ISEKI

Family 197/667 - FAMPAT - ©Questel

Title

(JP2008182991)
Combine harvester

Images



Publication data including kind & date

JP2008182991 A 2008-08-14 JP2008182991

Abstract

(JP2008182991)

PROBLEM TO BE SOLVED: To provide a combine harvester capable of performing bulging operation of grain culm guide rods, using a light operation force and being readily operable, even by women and children.

SOLUTION: The combine harvester has first, a front end of the grain culm guide rod (5) on the front side, mounted on the side of a reaping device (4) and the rear end of the grain culm guide rod (6) on the rear side, supported on the side of an undercarriage (2), and the rear end of the grain culm guide rod (5) on the front side is freely bendably connected to the front end of the grain culm guide rod (6), on the rear side and the front end of a supporting rod (8) pivotally supported so as to be freely turned about the vertical shaft on the side of the undercarriage (2), connected freely slidably in the longitudinal direction of the grain culm guide rod (6) on the rear side relatively to the intermediate part of the grain culm guide rod (6) on the rear side.Secondly, a lever (10) provided on the side of a maneuvering seat (23) is linked through a linking mechanism to the supporting rod (8), and the linking mechanism is arranged at a position below a threshing inlet funnel (14a) and on the rear side of a suspension table (13) for turnably supporting the reaping device (4) in the vertical directions.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

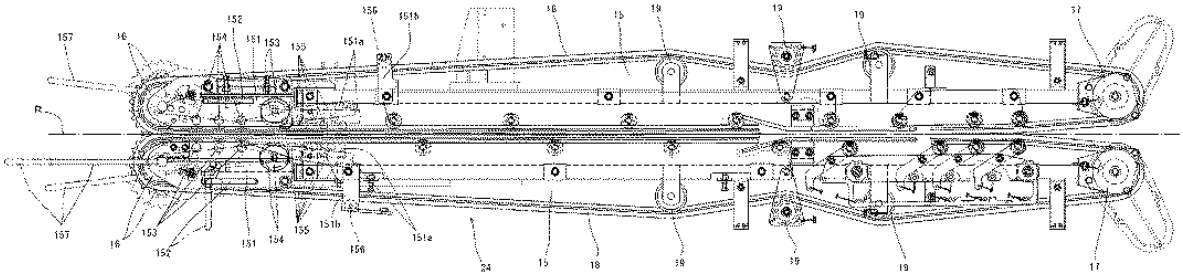
Family 198/667 - FAMPAT - ©Questel

Title

(JP2013094101)

Root vegetable harvester

Images



Publication data including kind & date

JP2013094101	A	2013-05-20	JP2013094101
JP5861389	B2	2016-02-16	JP5861389

Abstract

(JP5861389)

PROBLEM TO BE SOLVED: To provide a root vegetable harvester having an adjusting mechanism for the number of ridges for pulling out and having a pulling and conveying mechanism of a compact configuration.SOLUTION: A pulling and conveying device 24 for holding and harvesting crops is provided.A ridge number adjusting frame 151 for varying the number of ridges for pulling out of the pulling and conveying device 24 is provided with a ridge number adjusting member 153.A first biasing member 154 for biasing a pulling endless belt 18 when crops in one ridge are pulled out is provided on a side closer to a starting end than to the ridge number adjusting member 153.A second biasing member 155 for biasing the pulling endless belt 18 when crops in a plurality of ridges are pulled out is provided behind the ridge number adjusting member 153.When the pulling endless band 18 is pushed by the first biasing member 154, a one-ridge pulling configuration in which crops are held by the starting end portion of the pulling and conveying device 24 is formed.When the pulling endless belt 18 is pushed by the ridge number adjusting member 153 and the second biasing member 155, the starting end side of the pulling endless belt 18 is separated and a multiple-ridge pulling configuration in which crops in a plurality of ridges are held at a position where the ridge number adjusting member 153 presses the pulling endless belt 18 is formed.

Inventors

Masami Muramachi

TAKAGI SHINGO

Takanori Iwabe

Hideaki Kurose

YUMITATSU TAKESHI

Latest standardized assignees - inventors removed

ISEKI

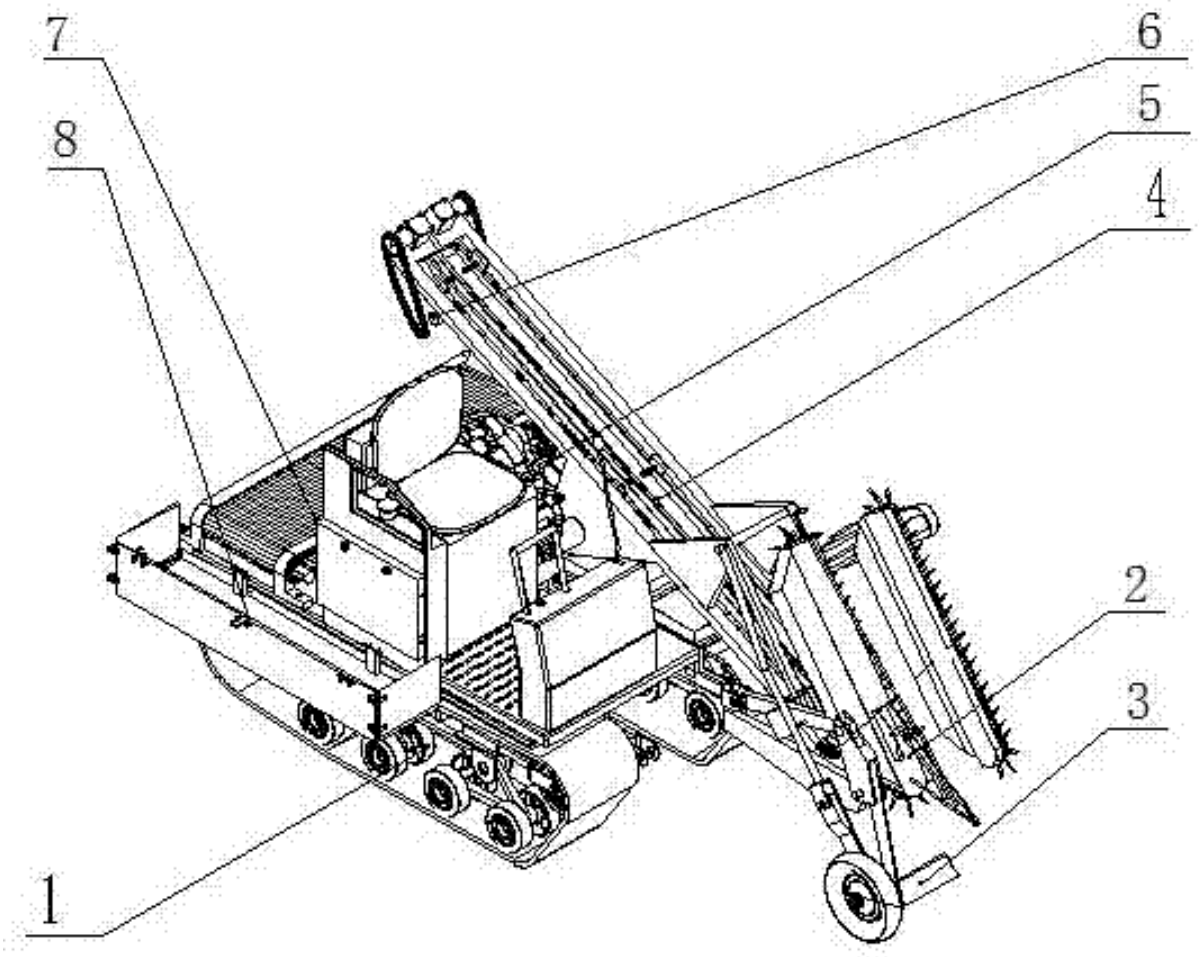
Family 199/667 - FAMPAT - ©Questel

Title

(CN207427815U)

Self -propelled garlic combine harvester

Images



Publication data including kind & date

CN207427815 U 2018-06-01 CN207427815U

Abstract

(CN207427815U)

The utility model relates to a self -propelled garlic combine harvester, including the chassis, the excavating gear, dial the standing grain and divide standing grain device, centre gripping conveyor,head of garlic conveyor and collection device, install on centre gripping conveyor's the main frame and cut the seedling device, still cut before the seedling device and be fixed in including being located the root device is cut in the alignment of main frame bottom surface.The utility model discloses can once only accomplish the excavation of single file garlic, remove soil, cut the root, carry, collect, can adapt to and satisfy the different spacings, can carry out branch standing grain device and ground inclination's adjustment according to the different planting patterns and the growth condition of garlic, adapt to the garlic of different specifications, can adjust clamping device's inclination according to the work needed of difference, the centre gripping limit goes native device to adopt two clamping belt deeply, has increased the area of contact of clamping belt with the garlic seedling, avoids clamping belt to cause the harm to the garlic seedling, shared volume and space inthe time of can walking through the folding collection device of reduction.

Inventors

HOU JIALIN
WANG LIYUAN
LI YUHUA
LIU XIAO

Latest standardized assignees - inventors removed

SHANDONG AGRICULTURAL UNIVERSITY

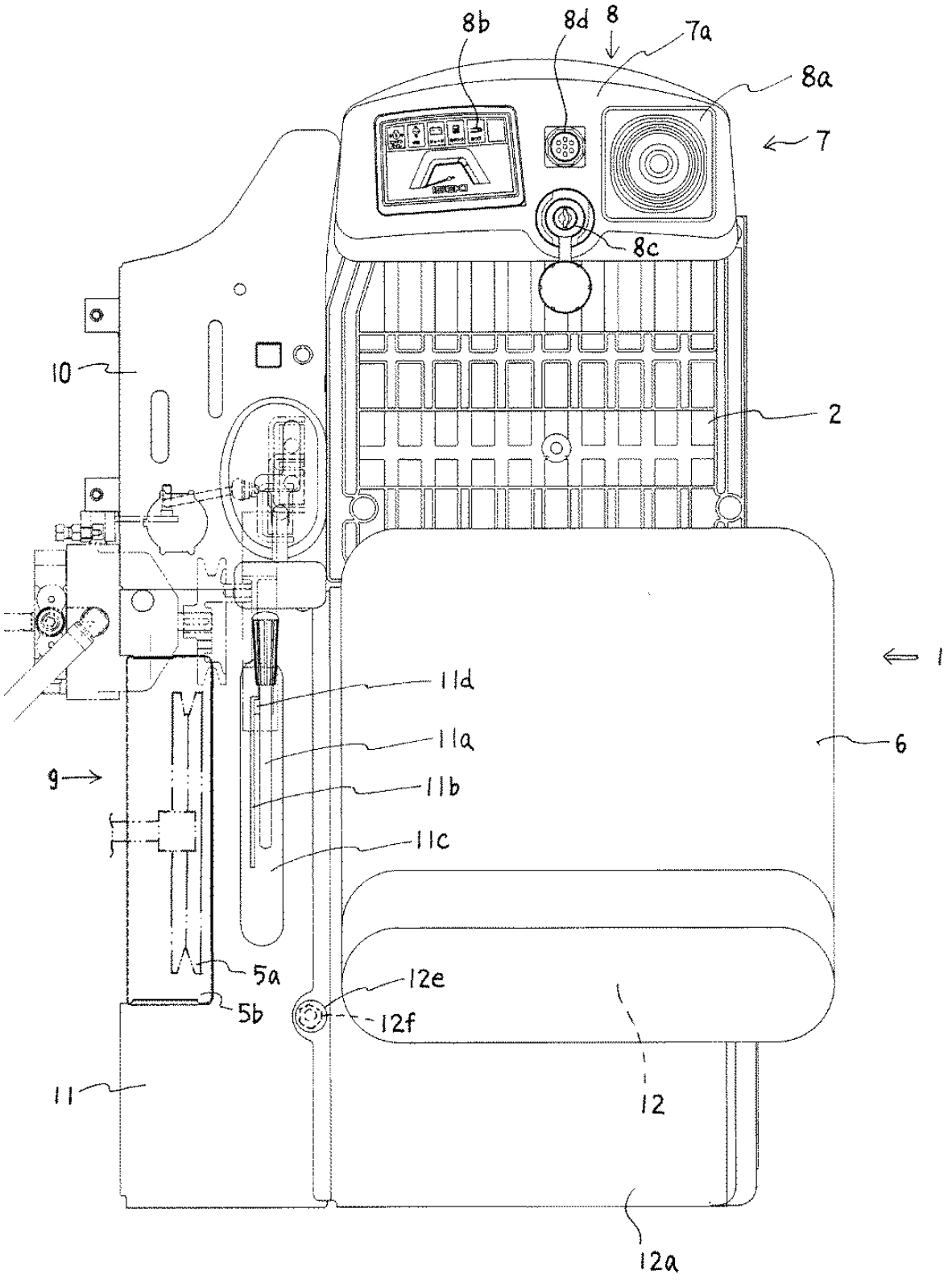
Family 200/667 - FAMPAT - ©Questel

Title

(JP2007089480)

Operation apparatus of combine harvester

Images



Publication data including kind & date

JP2007089480 A 2007-04-12 JP2007089480

Abstract

(JP2007089480)

PROBLEM TO BE SOLVED: To improve maintenance by dividing a lateral operation apparatus arranged at the left side of

an operating seat into two parts.

SOLUTION: In a combine harvester equipped with a reaping machine 4 for reaping and transporting grain culms at the front part of a traveling chassis 2, a thresher 5 for receiving and threshing the reaped grain culms on the upper side surface, an operating seat 6 on which a handling and operating operator sits at the front part, front/lateral operation apparatuses 7 and 9 at the front and the lateral side of the operating seat 6 and an engine 12, etc., at the lower rear part of the operating seat 6, the operation apparatus of the combine harvester has a constitution that front/rear clutch panels 10 and 11 longitudinally divided into two parts are arranged on the upper side of the lateral operation apparatus 9 and the left lateral side of an engine cover 12a laid on the upper side of the engine 12 is integrally superimposed on the upper side of the rear clutch panel 11.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

SATOJI HISAYUKI

GOSHIMA KAZUMI

AKIYAMA TAKAFUMI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

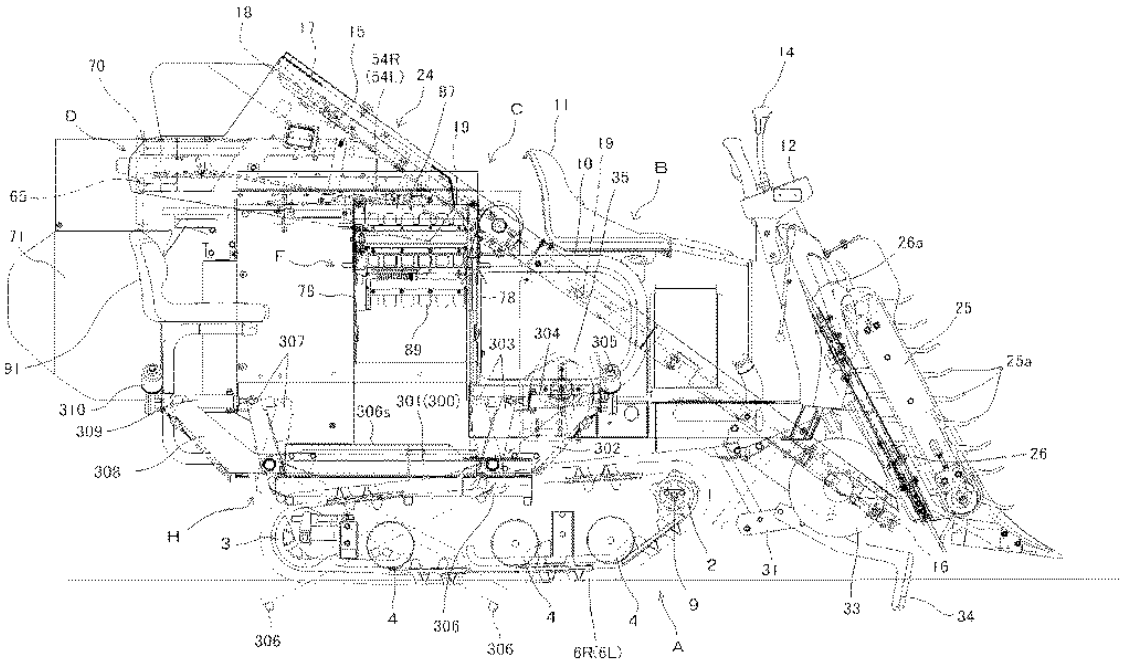
Family 201/667 - FAMPAT - ©Questel

Title

(JP2015226519)

Root crop harvester

Images



Publication data including kind & date

JP2015226519	A	2015-12-17	JP2015226519
JP6252364	B2	2017-12-27	JP6252364

Abstract

(JP6252364)

PROBLEM TO BE SOLVED: To provide a root crop harvester capable of rotating a support discharge device selectively to

the front side or the rear side of a machine body, and preventing disturbance of a posture of a storage container due to loss of a balance of the storage container when discharging the storage container from the support discharge device to the outside of the machine.SOLUTION: A root crop harvester is provided with: a pullout conveyor 24 for conveying crops while holding the crops on either right or left side of a machine body; a conveyor 87 for receiving and conveying the crops from the pullout conveyor 24; a storage container 97 for receiving the crops discharged to the end edge of the conveyor 87; and a support discharge device 350 for supporting the storage container 97 and discharging it to the outside of the machine.In the root crop harvester, the support discharge device 350 is configured to be selectively rotatable to a front unloading posture which discharges the storage container 97 to the front side of the machine body and a rear unloading posture which discharges the storage container 97 to the rear side of the machine body.

Inventors

Masami Muramachi
TAKAGI SHINGO
Hideaki Kurose
YUMITATSU TAKESHI
Shinichi Matsuzabu

Latest standardized assignees - inventors removed

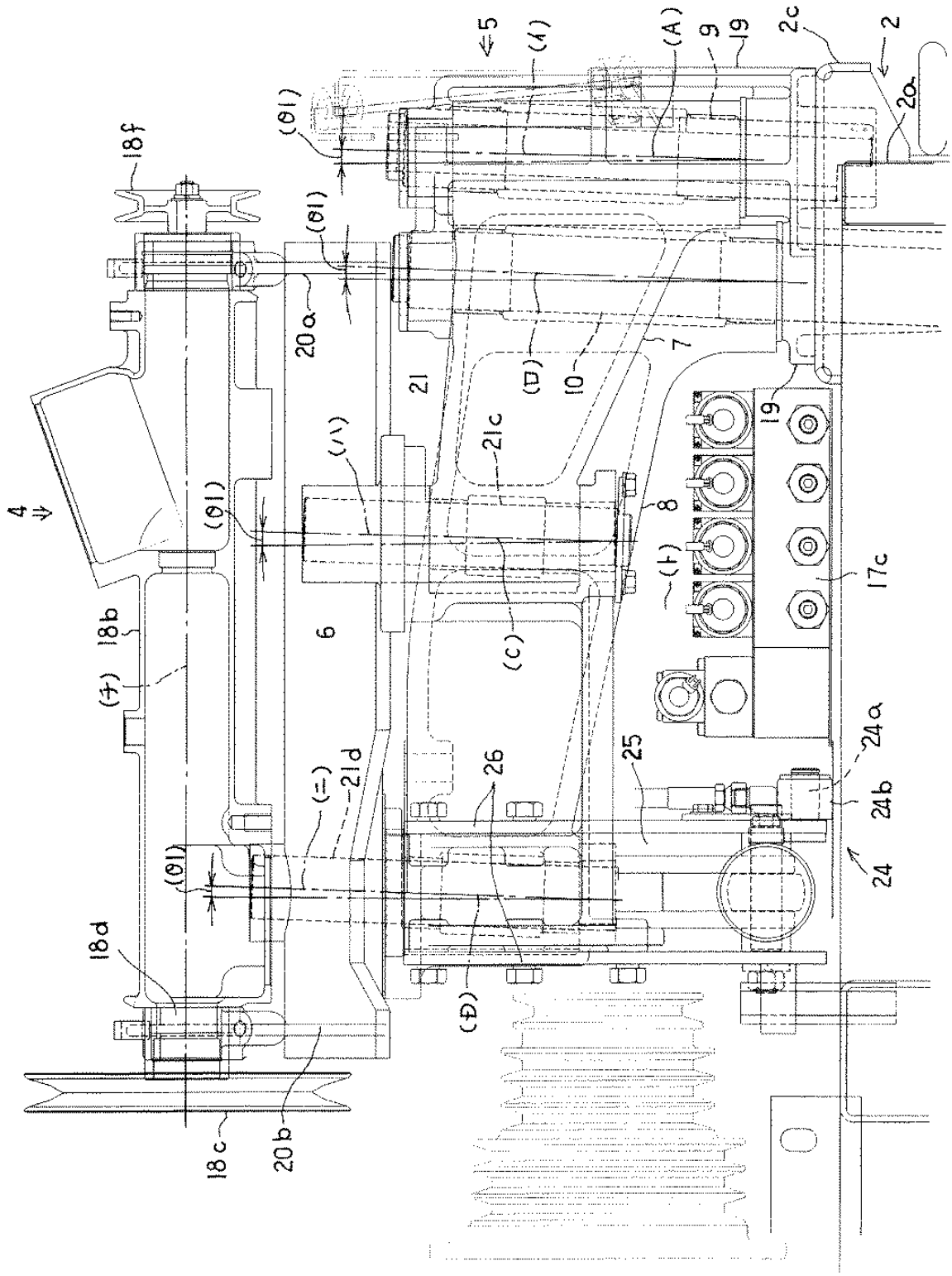
ISEKI

Family 202/667 - FAMPAT - ©Questel

Title

(JP2006204121)
Reaping part-turning apparatus of combine harvester

Images



Publication data including kind & date

JP2006204121	A	2006-08-10	JP2006204121
JP4622543	B2	2011-02-02	JP4622543

Abstract

(JP4622543)

PROBLEM TO BE SOLVED: To constitute a reaping machine for reaping culms and transporting the cut culms so that the reaping machine may be made easily turnable outward on the left side and prevent breakage of the components when the reaping machine is turned and conveyed.

SOLUTION: In a combine harvester, the reaping machine 4 for reaping culms and transporting the cut culms is installed in the front part of a traveling undercarriage 2 and a turning apparatus 5 composed of a four point link mechanism 6 for turning and moving the reaping machine 4 toward outside on the left side is installed.In the four point link mechanism 6,

axial centers (a), (b), (c) and (d) of a point (A) and a point (B) of supporting point on turning side of front/rear supporting frames 7 and 8 and a point (C) of supporting point on moving side are each installed in a state inclined to the outside on the left side or in a state inclined to the forward part.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

FUJITA YASUSHI

UEJI YOSHITAKA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

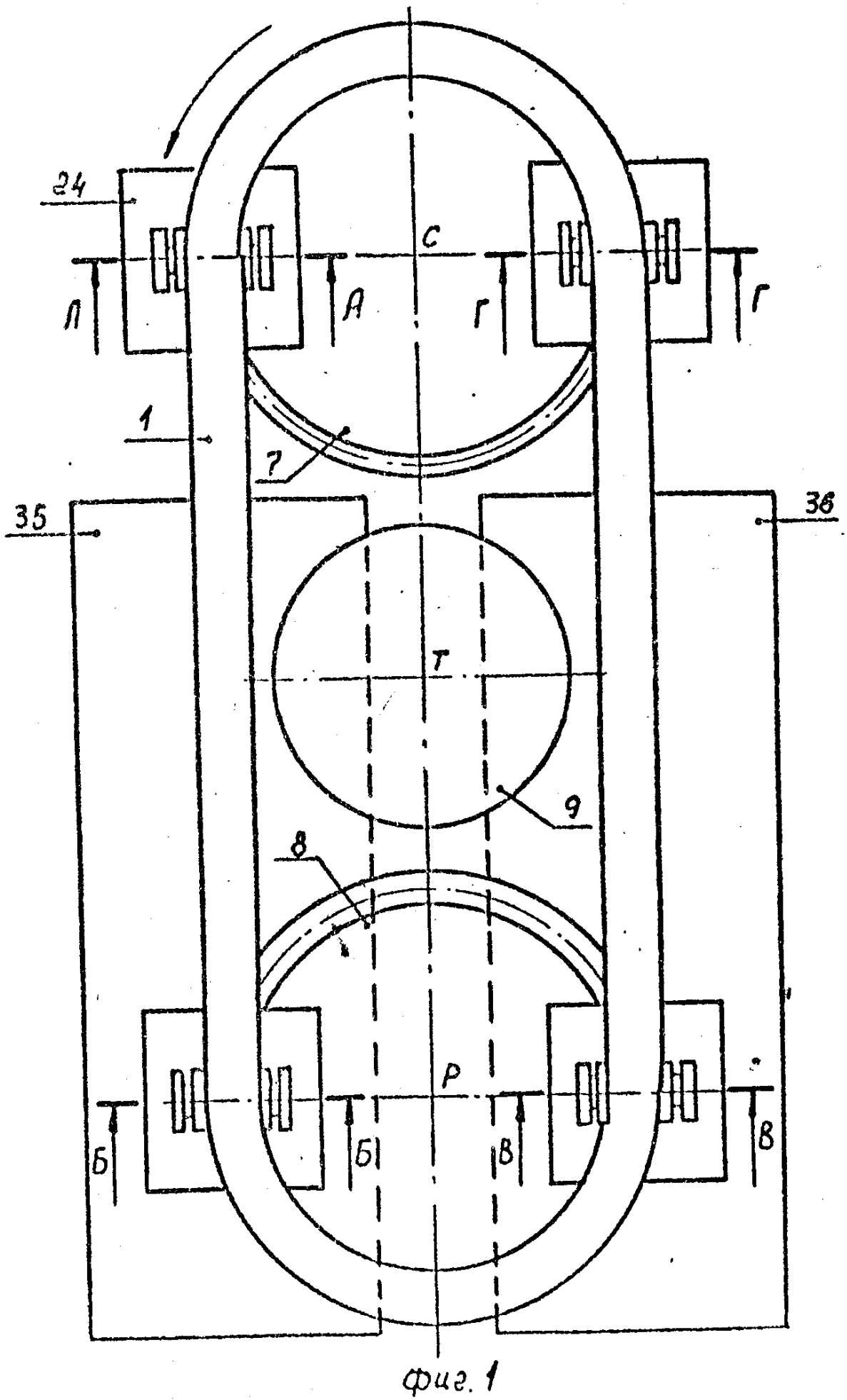
Family 203/667 - FAMPAT - ©Questel

Title

(SU1839288)

Root crop harvester

Images



Фиг. 1

Publication data including kind & date

SU1839288 A1 1996-06-27 SU1839288

Abstract

(SU1839288)

FIELD: agricultural engineering; harvesters.SUBSTANCE: harvester has monorail suspended from which are shackles with rollers, chain, pneumatic vibrators and cylinders.Mounted on monorail is transportation device with haulm gripper and root digger.Haulm separator and root digger have telescopic cylinder to provide turning of gripping claws.EFFECT: reduced gripping of soil, enhanced cutting of haulm from roots. 8 dwg

Inventors

BYKOV P A

BYKOV O P

PERSHINA E P

Latest standardized assignees - inventors removed

BYKOV

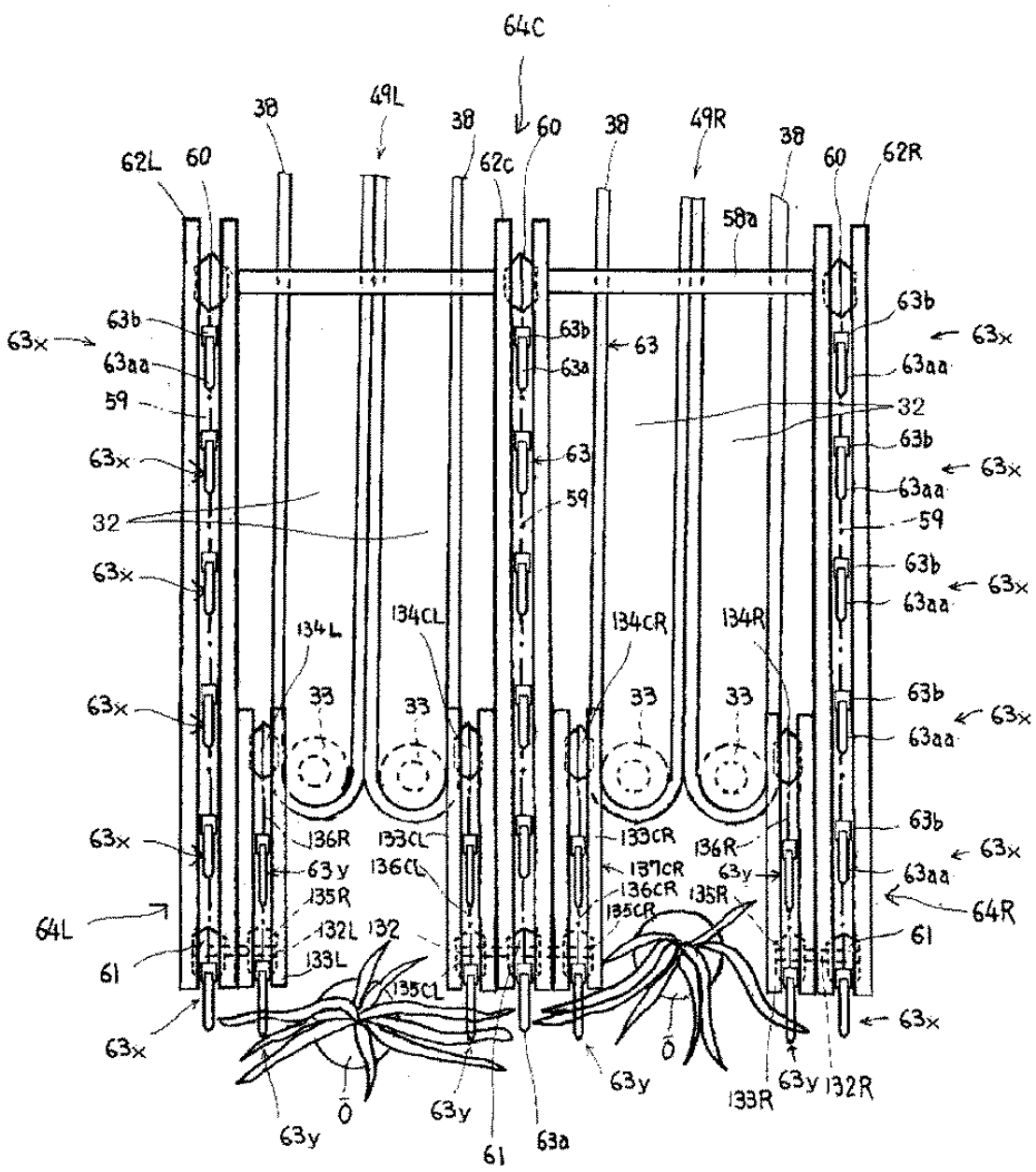
Family 204/667 - FAMPAT - ©Questel

Title

(JP2010051244)

Vegetable harvester

Images



Publication data including kind & date

JP2010051244	A	2010-03-11	JP2010051244
JP5266971	B2	2013-08-21	JP5266971

Abstract

(JP5266971)

PROBLEM TO BE SOLVED: To provide a vegetable harvester which efficiently harvests vegetables on an agricultural field having a mulch film laid thereon, and which enables the easy replacement of a raise-up lug for raising up stem and leaf parts of the vegetables.

SOLUTION: Pull-out conveying device for pulling out the vegetables from an agricultural field surface is provided on the one side of a machine body frame; first right and left raise-up devices and a second central raise-up device for raising up the stem and leaf portions of the vegetables are provided on the conveyance starting end side of the pull-out conveying device; the first and second raise-up devices are provided with the raise-up lugs with a detachable raise-up action portion, respectively; second central auxiliary raise-up devices for raising up the stem and leaf portions of the vegetables in such a manner as to precede the second raise-up device are provided on both the right and left sides of the second raise-up device, respectively; a first auxiliary raise-up device for raising up the stem and leaf portions of the vegetables in such a manner as to precede the first raise-up device is detachably provided inside the first raise-up device; and auxiliary raise-up

lugs having the detachable raise-up action portions are constituted by attaching an elastic body to the first and second auxiliary raise-up devices.

COPYRIGHT: (C)2010,JPO&INPIT

Inventors

ODAGIRI HAJIME

TAKAGI SHINGO

Takanori Iwabe

Latest standardized assignees - inventors removed

ISEKI

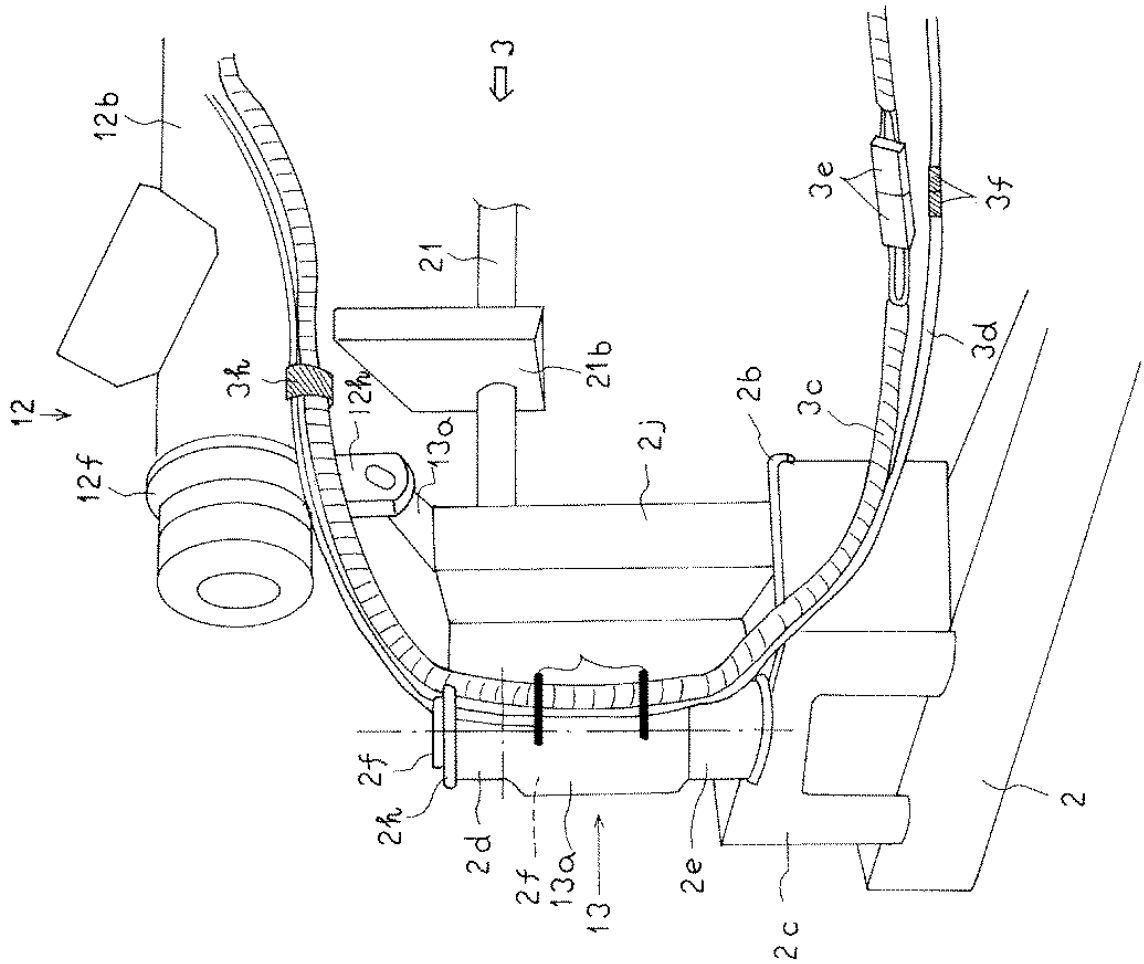
Family 205/667 - FAMPAT - ©Questel

Title

(JP2007289022)

Reaping apparatus of combine harvester

Images



Publication data including kind & date

JP2007289022 A 2007-11-08 JP2007289022

Abstract

(JP2007289022)

PROBLEM TO BE SOLVED: To prevent a harness, an oiling hose, etc, extended from a reaping apparatus to a threshing apparatus from being turned up and being nipped when the reaping apparatus is rotated and moved to the outside on the

lateral side on one side.

SOLUTION: The reaping apparatus of a combine harvester has a constitution that the harness 3c, the oil hose 3d, etc., of the reaping apparatus 3, etc., are placed from the downside part of a support pipe rod 12b through the outer peripheral parts of an upper support metal 2d, the connection arm 13a and the lower support metal 2e of the rotary fulcrum part of the reaping apparatus 3 on the upper side face of a traveling undercarriage 2 and arranged on the threshing apparatus 4 for threshing grain culms.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

KAMIMURA TAKAHIKO

KITAGAWA TOMOSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

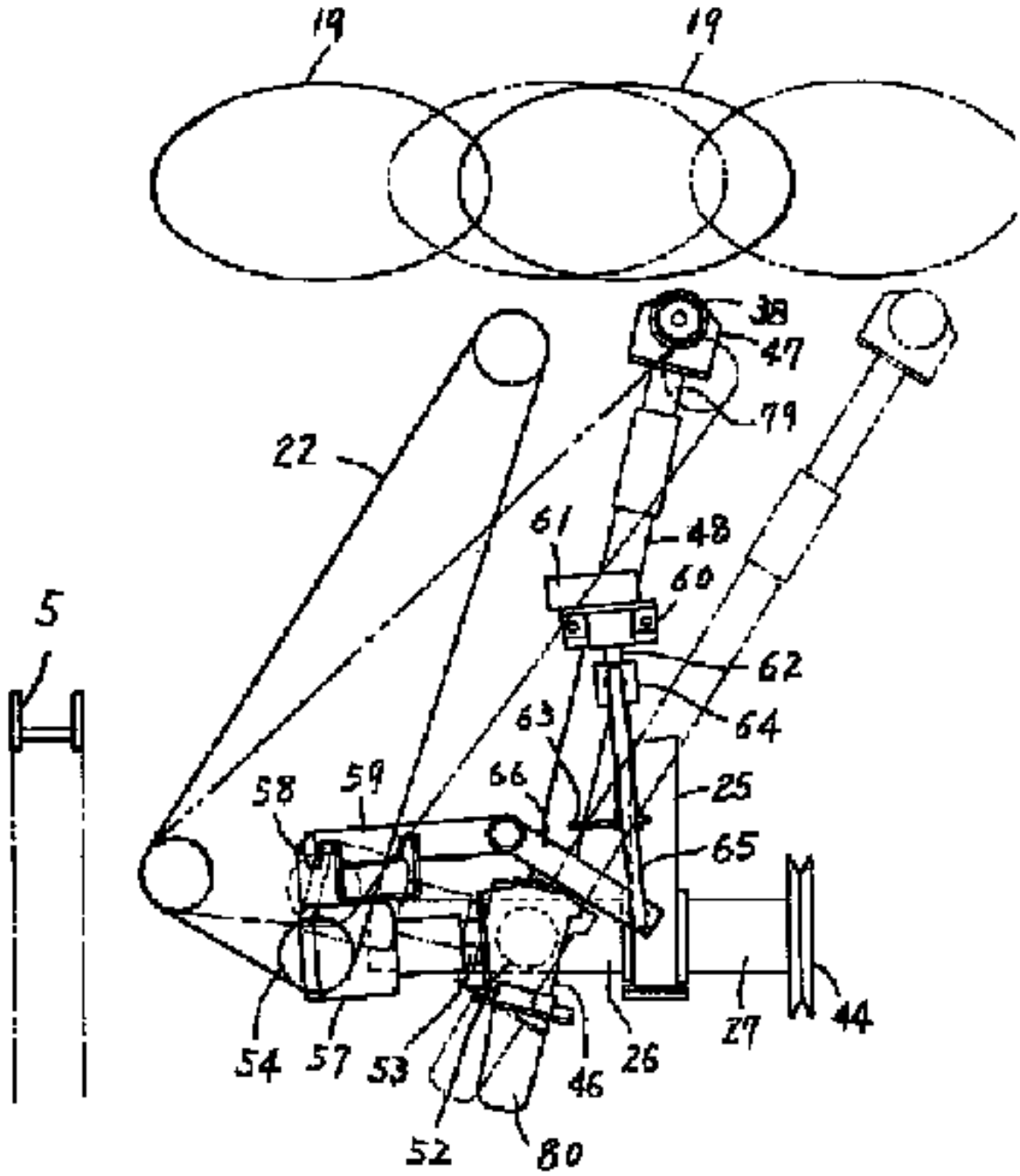
Family 206/667 - FAMPAT - ©Questel

Title

(JP10243726)

Combine harvester

Images



Publication data including kind & date

JPH10243726	A	1998-09-14	JP10243726
JP3133977	B2	2001-02-13	JP3133977

Abstract

(JP3133977)

PROBLEM TO BE SOLVED: To simplify a transmission structure to a transversely sliding reaping part of a combine harvester and to make a longitudinally transporting member for sending reaped grain culms to a threshing part follow the traverse sliding and move.SOLUTION: A grain culm raising member and a reaping blade connected through a reaping main frame 25 liftably and rockingly around a horizontal shaft 26 of right and left direction to the front part of a traveling machine body are made relatively slidable in the horizontal direction against the reaping main frame 25.A reaping

transmission shaft for transmitting power from a reaping input shaft, which is coaxially arranged on the horizontal shaft 25 of the right and left direction and to which power is firstly transmitted from the traveling machine body side, to the raising member and the blade is stretchably and foldably installed.Threshing depth adjusting members 61 and 62 for rocking a longitudinally transporting member for sending the reaped grain culms to a threshing part are attached to a pipe 48 to which the reaping transmission shaft is inserted.

Inventors

OKAZAKI MASAHARU

MUKUSHIRO HIROSHI

YABUKI MAKOTO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

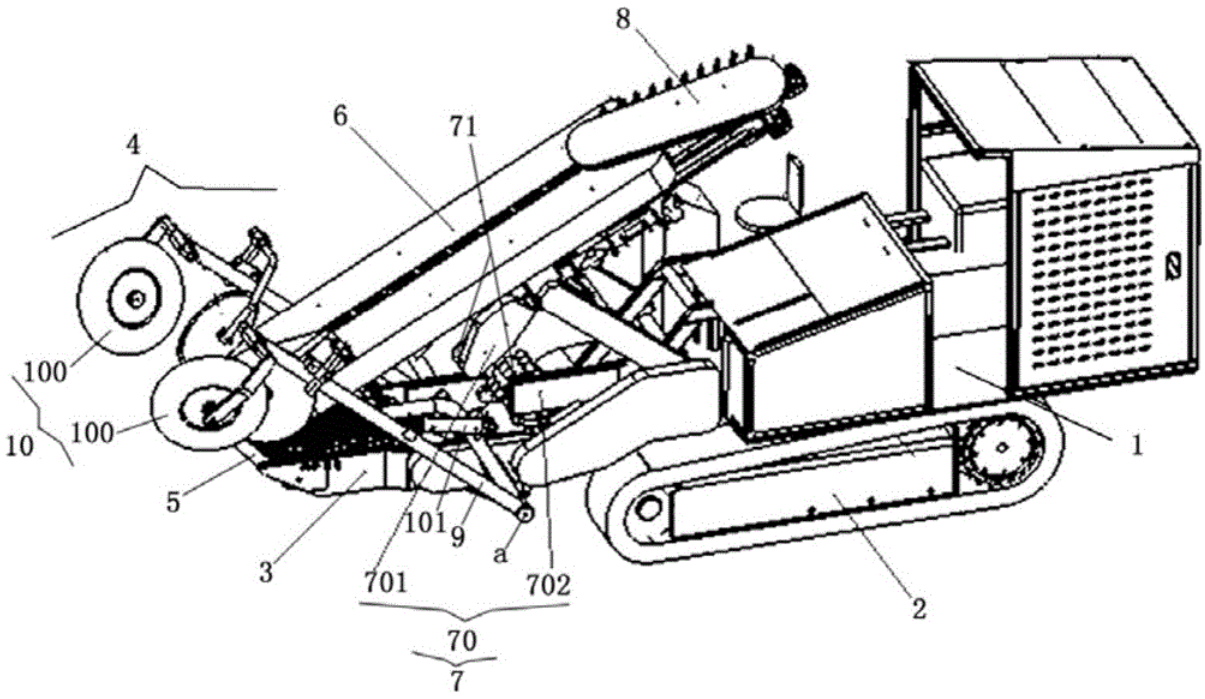
Family 207/667 - FAMPAT - ©Questel

Title

(CN106068875)

Automatic crawler type welsh onion harvester

Images



Publication data including kind & date

CN106068875 A 2016-11-09 CN106068875

Abstract

(CN106068875)

The invention discloses an automatic crawler type welsh onion harvester including a frame, a crawler belt, a collecting arm rack, a shoveling device, a longitudinal conveying device, a transverse conveying device, support rods arranged at the two sides of the collecting arm rack and having the rear ends rotationally arranged on the collecting arm rack, soil separating devices that are respectively arranged at the front parts of the support rods to form the soil at the two sides of welsh onions in a ridge into cutting grooves, an adjusting mechanism for controlling the rotation adjustment of the rear ends of the support rods around a rotating shaft, and a soil shaking device for shaking the soil at the roots of the welsh onions off, wherein the spacing between the soil separating devices at the two sides can be adjusted based on the ridge width.The two cutting grooves are formed at the two sides of the welsh onions, so that the shoveling device can shovel a small amount of soil of the welsh onions, and the quality of the harvested welsh onions is guaranteed; and during the longitudinal conveying of the welsh onions, the soil shaking device shakes the soil at the roots of the welsh onions off, so that not only the conveying of the welsh onions is facilitated and also the subsequent piling and transportation are facilitated.

Inventors

LIU KAI

YAO RONGDE

LU ZHENGQI

Latest standardized assignees - inventors removed

WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY

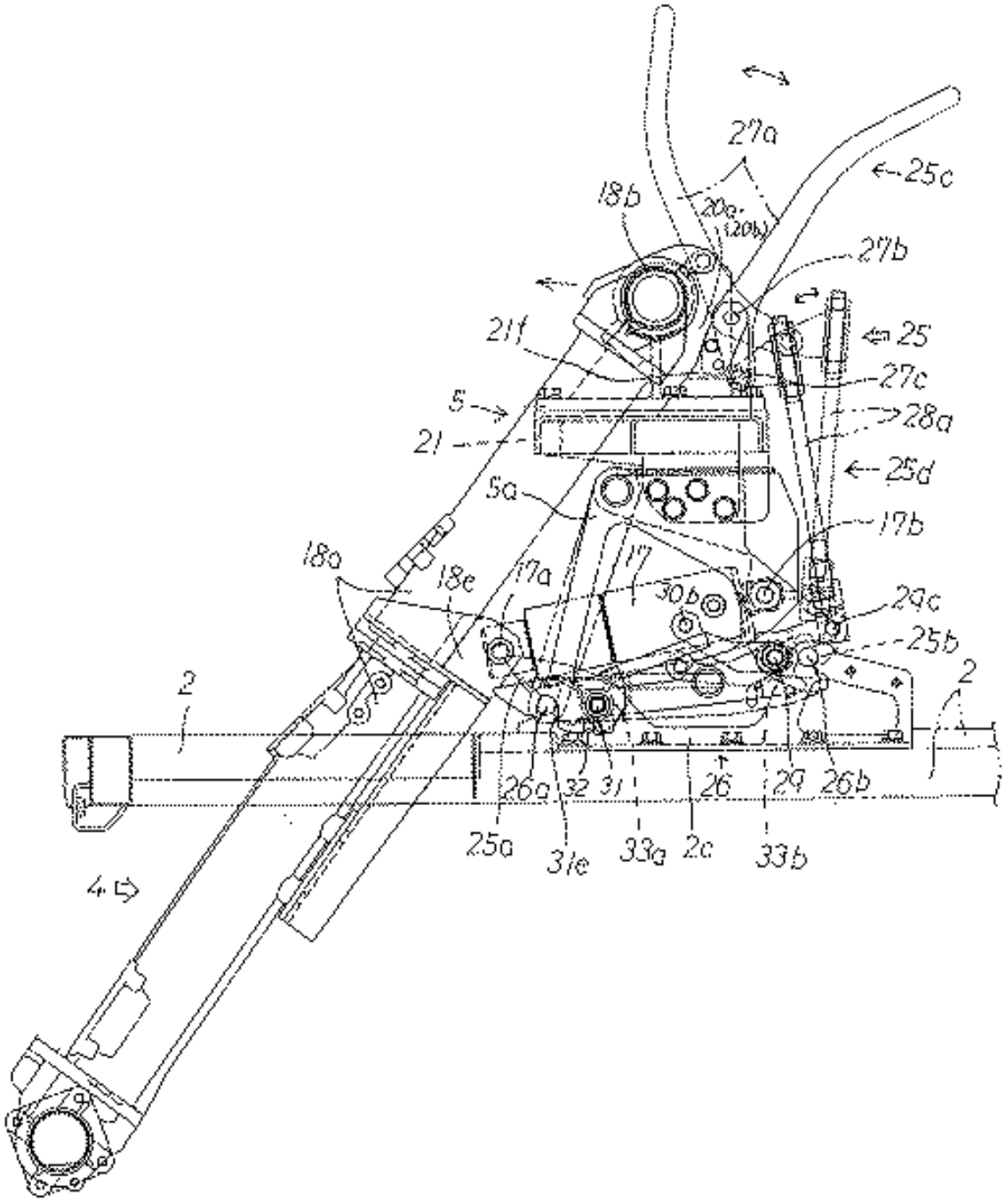
Family 208/667 - FAMPAT - ©Questel

Title

(JP2005040055)

Reaping part rotation apparatus for combine harvester

Images



Publication data including kind & date

JP2005040055	A	2005-02-17	JP2005040055
JP4310459	B2	2009-08-12	JP4310459

Abstract

(JP4310459)

PROBLEM TO BE SOLVED: To surely carry out locking and unlocking by a locking apparatus and a locking support apparatus in a reaping part rotation apparatus for a combine harvester, with which a reaping machine for reaping grain culms is operated in a locked state or unlocked and rotated outside to the left.

SOLUTION: This reaping part rotation apparatus for the combine harvester has constitution that the reaping machine 4 that is arranged at the front part of a traveling undercarriage 2 and reaps and transports grain culms is rotated and moved outside to the left by the rotation apparatus 5 of a four-point link mechanism 6 and the locking apparatus 25 for locking or unlocking the reaping machine 4 is installed between an open frame 5a of the rotation apparatus 5 and the traveling undercarriage 2.The locking apparatus 25 is equipped with two or more front/rear locking parts 25a and 25b, a front lock receiving material 26a of the locking support apparatus 26 is connected to the open frame 5a, a rear lock receiving material 26b is connected to the traveling undercarriage 2 and the rear lock receiving material 26b is positioned higher than the front lock receiving material 26a.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

FUJITA YASUSHI

UEJI YOSHITAKA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

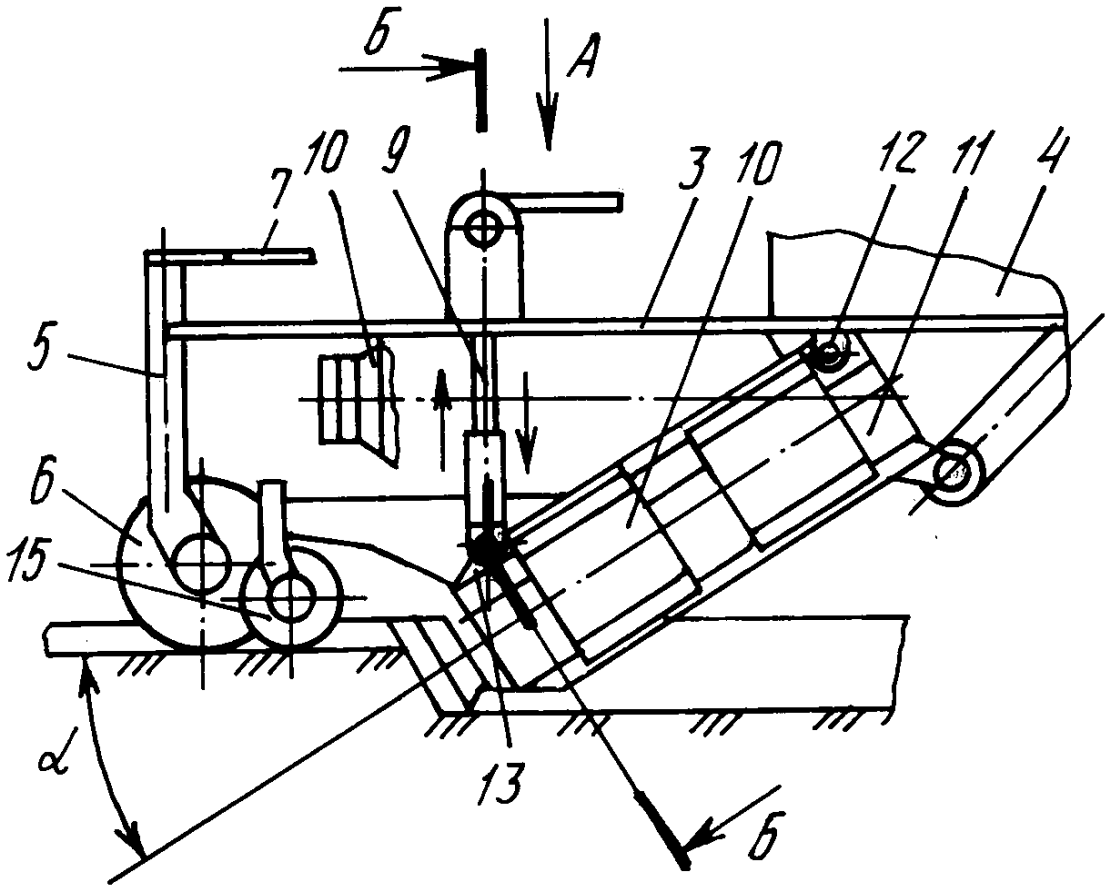
Family 209/667 - FAMPAT - ©Questel

Title

(SU2021667)

Multi-row root crop harvester

Images



Фиг.1

Publication data including kind & date

RU2021667	C1	1994-10-30	RU2021667
SU2021667	C1	1994-10-30	SU2021667

Abstract

(SU2021667)

FIELD: agricultural engineering.SUBSTANCE: harvester has twin digging-up and separating working members with bodies and lifting mechanism.The rear ends of the bodies are hinged to the frame.The working member lifting mechanism has a drive shaft with worn gears and screws.The latter are provided with shock absorbers with cylinders and pistons, as well as clasp nuts with hubs and toothed rims.The toothed engage the worn gears of the drive shaft.The driving element of the working member lifting mechanism has control reduction gears and cardan shafts positioned at right angles with the drive shaft.The control reduction gears are provided with one brake and two controlled reversing electromagnetic couplings.EFFECT: more effective harvesting process. 3 cl, 8 dwg

Inventors

BELOBOKOV NIKOLAJ I

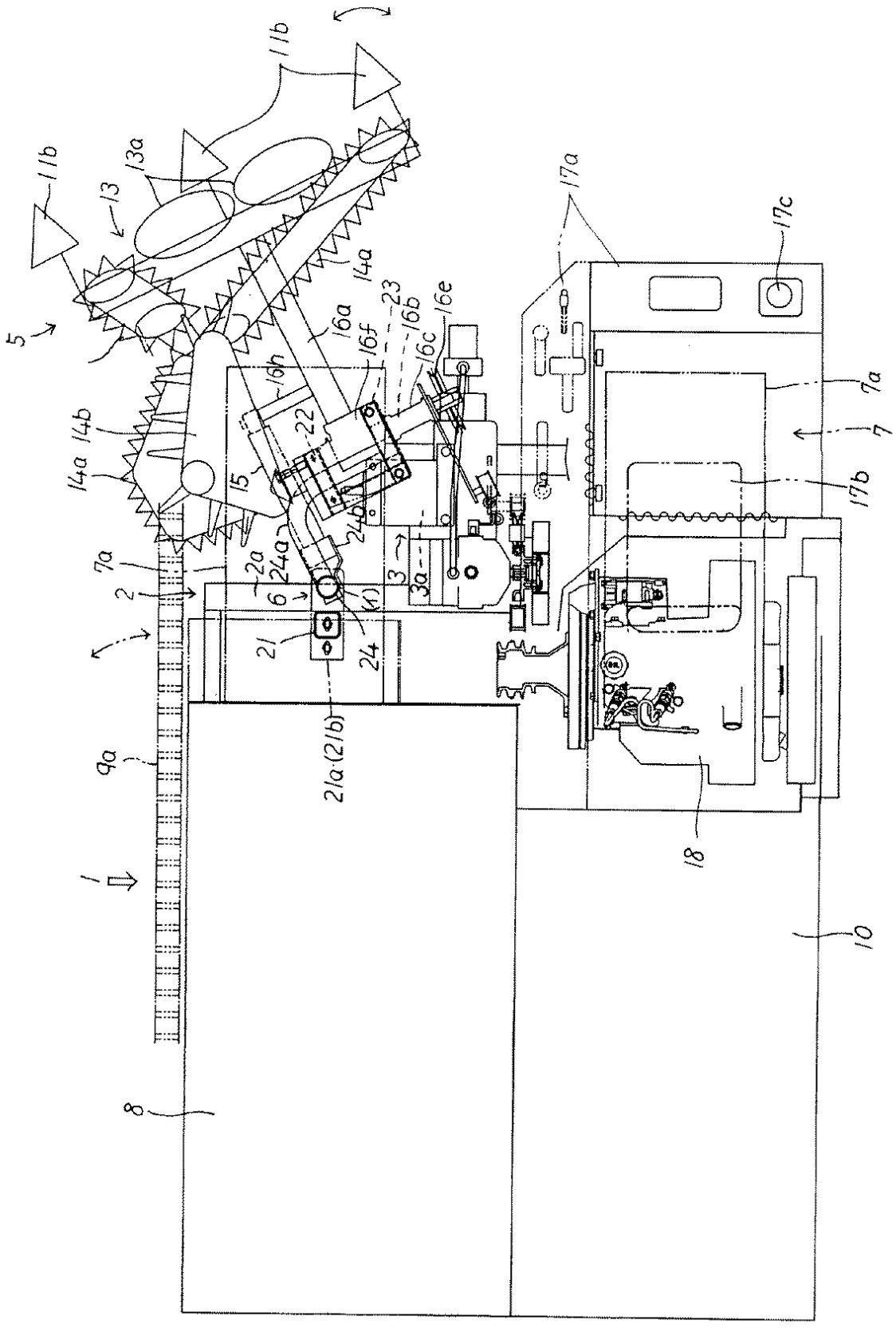
Family 210/667 - FAMPAT - ©Questel

Title

(JP2003274734)

Reaper of combine harvester

Images



Publication data including kind & date

JP2003274734	A	2003-09-30	JP2003274734
JP3804559	B2	2006-08-02	JP3804559

Abstract

(JP3804559)

PROBLEM TO BE SOLVED: To provide a combine harvester reaper which can easily and surely be moved and opened on the lateral outside to facilitate the maintenance of the reaper.

SOLUTION: A mission case 3 is disposed on the front side of a traveling undercarriage 2, and the reaper 5 for reaping grain culms is disposed in the front of the traveling undercarriage 2.The reaper 5 can laterally outward be moved and opened on a rotation support device 6.Even when the reaper 5 is laterally outward moved with full stroke, the reaper 5 and the mission case 3 are disposed in a mutually overlapped state.The rotation support point (A) of the rotation support device 6 of the reaper 5 is disposed in the rear portion of the mission case 3.Further, the upper side overlapping portion of the mission case 3 is widely disposed to enlarge the opening rotation range of the reaper 5.

COPYRIGHT: (C)2003,JPO

Inventors

SATOJI HISAYUKI
IWAMOTO HIROSHI
WATABE HIROKI
NAGAI TOSHIRO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

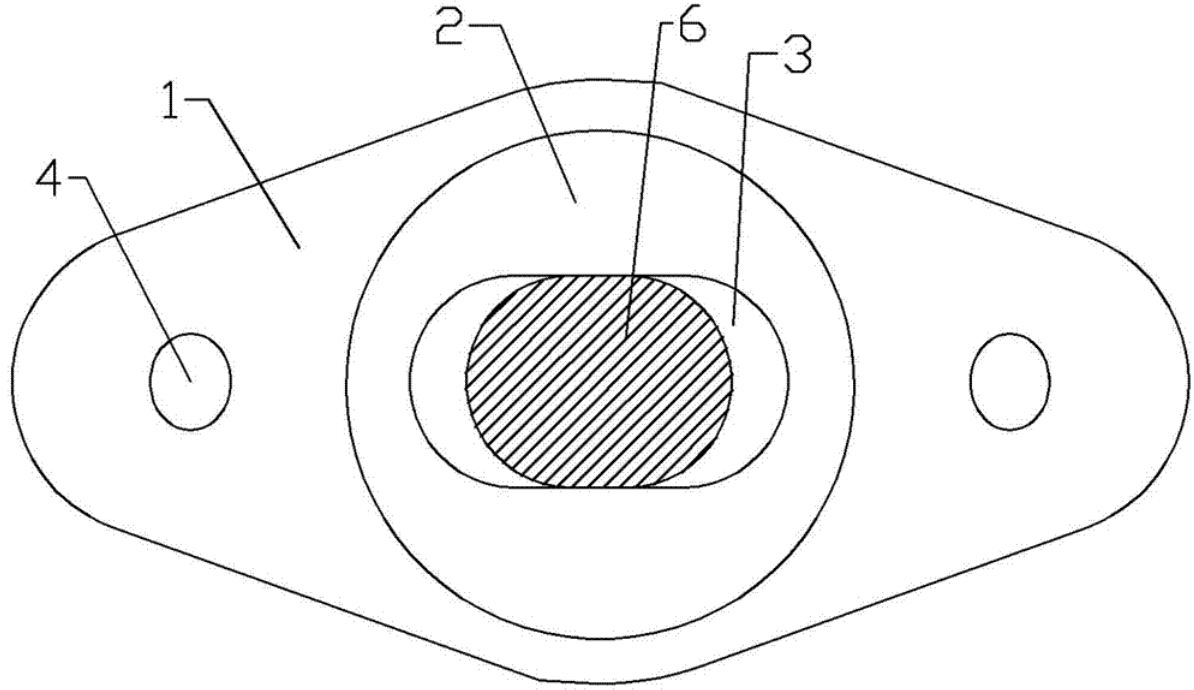
Family 211/667 - FAMPAT - ©Questel

Title

(CN207185209U)

A sliding sleeve device that is used for self -propelled peanut to pick up harvester picking up screw feeder section of thick bamboo retractable teeth

Images



Publication data including kind & date

CN207185209	U	2018-04-06	CN207185209U

Abstract

(CN207185209U)

The utility model discloses a sliding sleeve device that is used for self -propelled peanut to pick up harvester picking up screw feeder section of thick bamboo retractable teeth relates to peanut harvester technical field, sets up board -like sliding sleeve of arc -shaped strip and the boss made by wear -resistant material an organic whole, opens to have in the boss to be used for string dress retractable teeth's through -hole, and the through -hole cross -section be the rectangle, and both ends be the semicircle, when avoiding retractable teeth and the contact of opening rigidity, guaranteesthat retractable teeth follows through -hole length direction and swings in the through -hole, through -hole cross sectional area is gradually little to the centre from both ends, guarantees that retractable teeth can have great angle when the swing.

Inventors

PEI XUECHANG

JIE JIANHENG

PEI SHULIANG

Latest standardized assignees - inventors removed

HENAN DECHANG MACHINERY MANUFACTURING

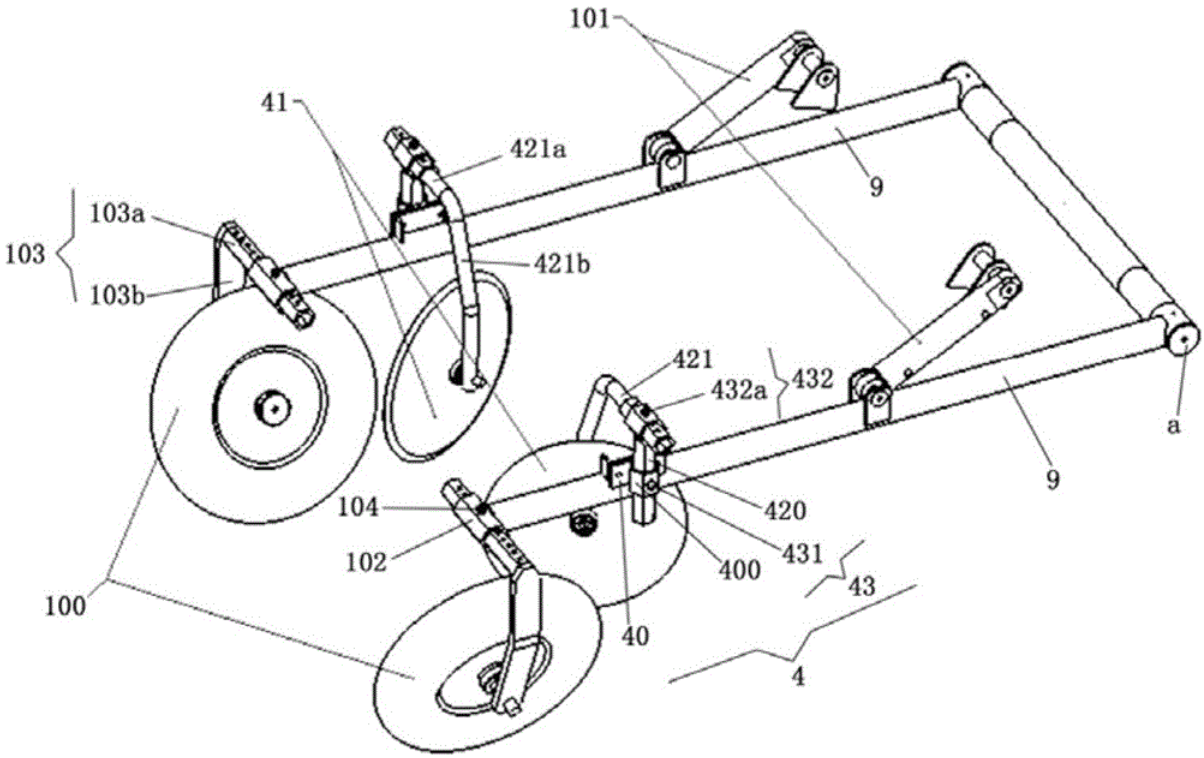
Family 212/667 - FAMPAT - ©Questel

Title

(CN106258164)

Soil dividing device of fully-automatic crawler-type shallot harvester

Images



Publication data including kind & date

CN106258164 A 2017-01-04 CN106258164

Abstract

(CN106258164)

The invention discloses a soil dividing device of a fully-automatic crawler-type shallot harvester.The harvester comprises a rack, a crawler, a collection arm frame and the soil dividing device.The soil dividing device comprises struts, soil dividing units and an adjustment mechanism, wherein the struts are located on the two sides of the collection arm frame, and the rear ends of the struts are rotationally arranged on the collection arm frame through a rotary shaft; the soil dividing units are arranged on the front portions of the struts respectively, can divide soil on the two sides of a large ridge of shallots to the left and the right and forms cutting grooves; the adjustment mechanism is used for controlling the rear ends of the struts to rotate around the rotary shaft for adjustment, and the spacing between the soil dividing units on the two sides can be adjusted and arranged according to the width of a ridge.The two cutting grooves are formed in the two sides of the shallots, thus, a soil shoveling device can shovel a small amount of the soil on the shallots conveniently, and harvesting quality of the shallots is ensured; meanwhile, convenience is brought to subsequent stacking and transporting work, and the soil dividing device is simple in structure and convenient to operate.

Inventors

LIU KAI

YAO RONGDE

LU ZHENGQI

Latest standardized assignees - inventors removed

WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY

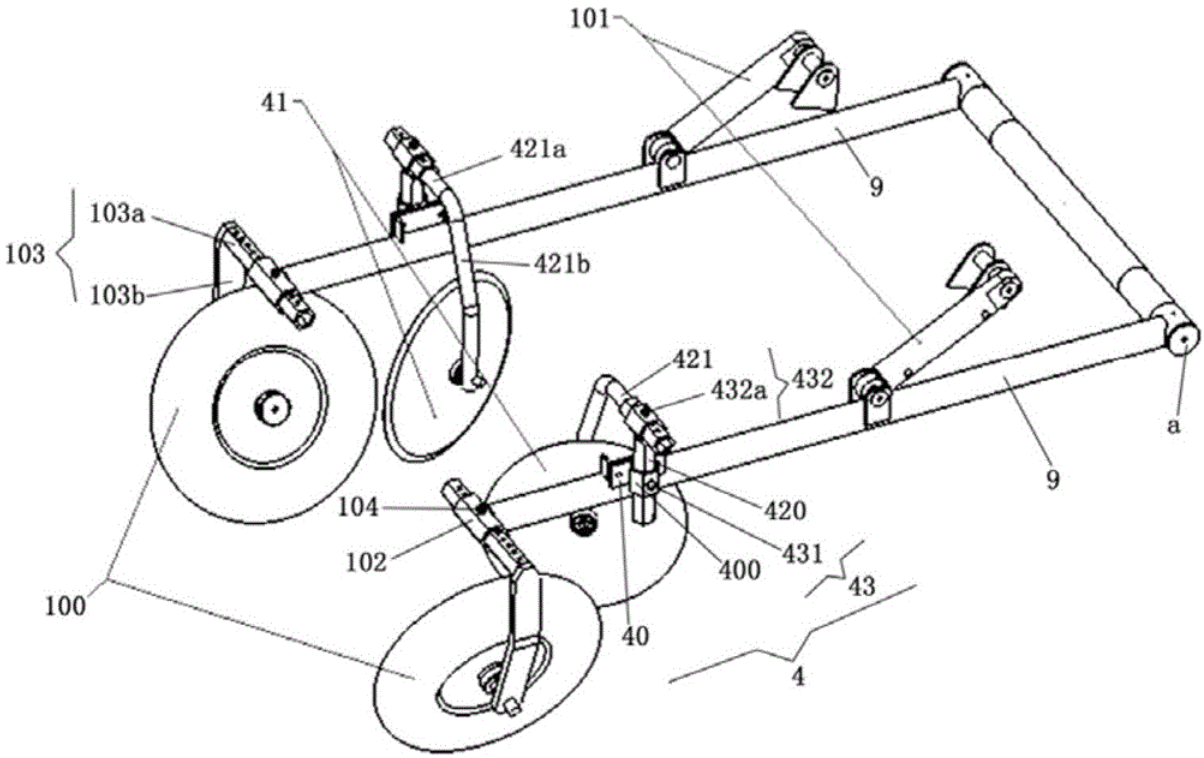
Family 213/667 - FAMPAT - ©Questel

Title

(CN205865088U)

Native device of branch of full -automatic crawler -type shallot harvester

Images



Publication data including kind & date

CN205865088 U 2017-01-11 CN205865088U

Abstract

(CN205865088U)

The utility model relates to a native device of branch of full -automatic crawler -type shallot harvester, this harvester includes the frame, the track, collect the cantilever crane, divide native device, the native device of this branch includes that lie in both sides and the back tip of collecting the cantilever crane sets up the branch on collecting the cantilever crane through the pivot with rotating, set up respectively and can control the branch soil conveying unit that branch soil just formed the grooving with the earth of ridge shallot both sides in the front portion of branch, an adjustment mechanism for controlling the tip rotates round the pivot and adjusts after the branch, wherein both sides are divided the interval between the soil conveying unit and can be adjusted the setting according to the width on ridge.The utility model discloses both sides in the shallot form two groovings to make things convenient for then stop device to get the shovel of few earth volume of shallot, ensure the quality of shallot results, also be convenient for simultaneously subsequent pile up neatly and transport, simple structure implements conveniently.

Inventors

LIU KAI

YAO RONGDE

LU ZHENGQI

Latest standardized assignees - inventors removed

WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY

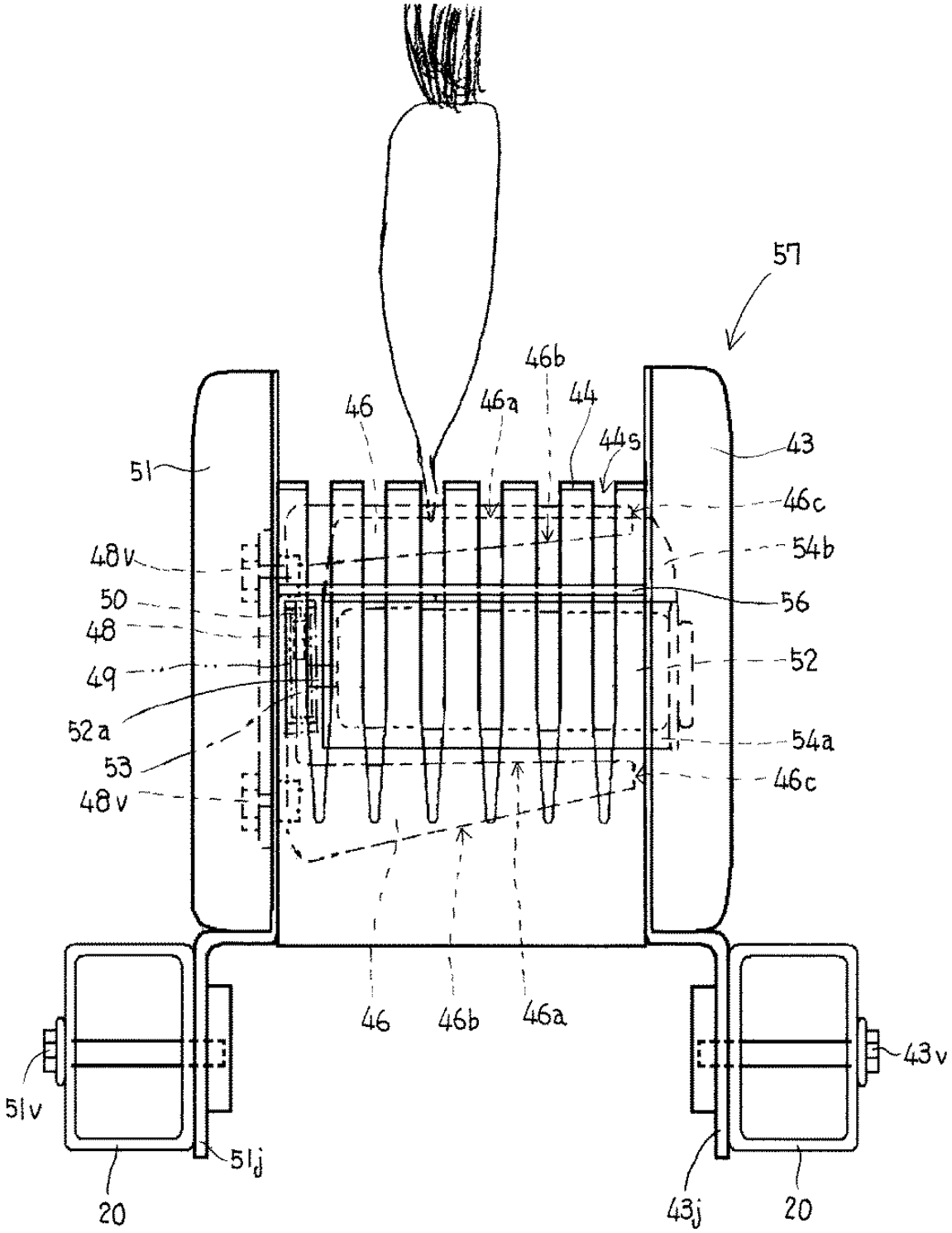
Family 214/667 - FAMPAT - ©Questel

Title

(JP2011045325)

Root vegetable harvester

Images



Publication data including kind & date

JP2011045325	A	2011-03-10	JP2011045325
JP5476865	B2	2014-04-23	JP5476865

Abstract

(JP5476865)

PROBLEM TO BE SOLVED: To provide a root vegetable harvester capable of surely removing the hairy roots of a crop harvested from the farm, and hardly accumulating soil and the hairy roots on a cutting blade and in the cutter.

SOLUTION: The root vegetable harvester includes: a pulling-and-conveying apparatus 24 for pulling a crop out of the farm

and conveying it on one of left and right sides of the machine body; and a cutter 57 for cutting off the hairy roots of a crop under conveyance beneath the conveyance pathway of the pulling-and-conveying apparatus 24.In the harvester, the cutting member 46 of the cutter 57 is taperedly formed toward the one of left and right sides of the machine body; and the one end part of left and right sides of the machine body of the cutting member 46 is linearly formed in the longitudinal direction of the machine body and upwardly inclined from a non-cutting-action part 46b on the upstream side of the conveying direction of the cutting member 46 toward the cutting-action part 46a on the downstream side of the conveying direction.

COPYRIGHT: (C)2011,JPO&INPIT

Inventors

TAKAGI SHINGO

Takanori Iwabe

Hideaki Kurose

Yoshimi Akira

Latest standardized assignees - inventors removed

ISEKI

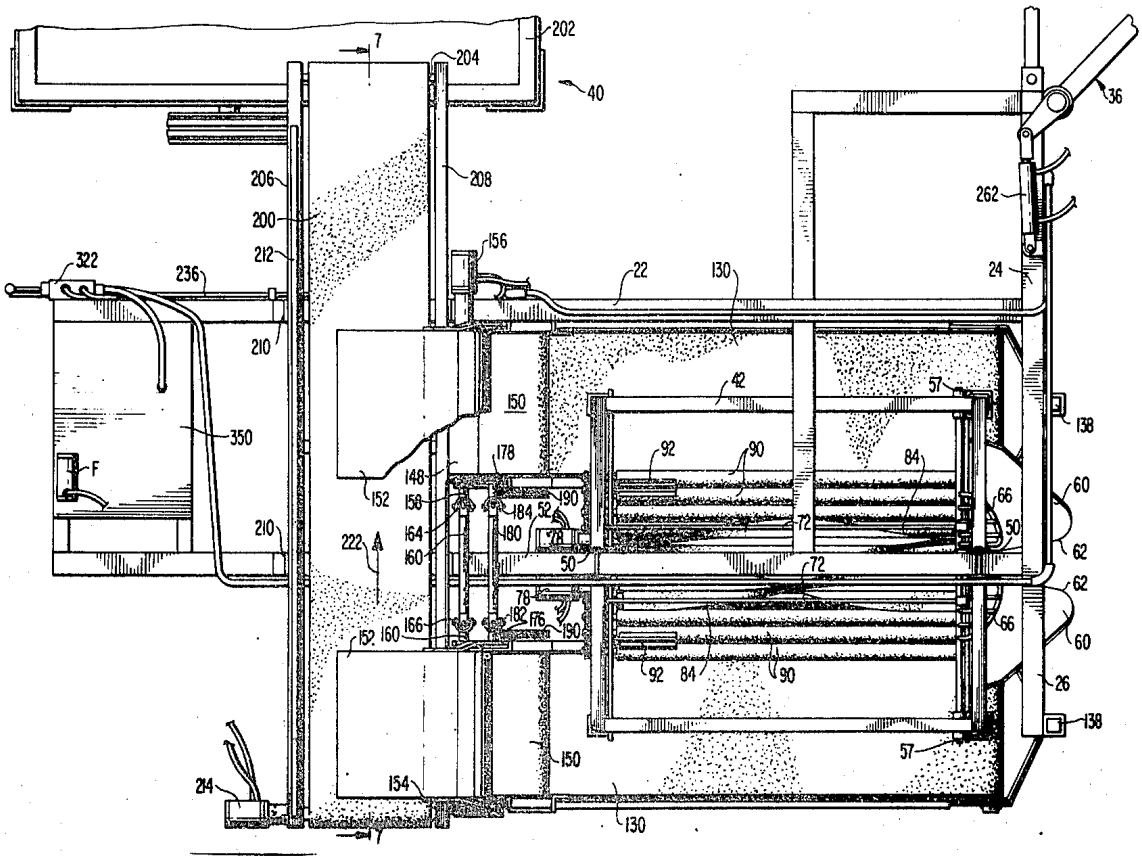
Family 215/667 - FAMPAT - ©Questel

Title

(US4069648)

Tobacco harvester

Images



Publication data including kind & date

US4069648 A 1978-01-24 US4069648

Abstract

(US4069648)

The tobacco harvester is pulled by a tractor having an offset hydraulically operated hitch arrangement which permits the harvester to be selectively positioned to the side of the tractor.A tobacco receiving trailer is coupled to the harvester by a

hydraulically operated coupling whereby the trailer can be shifted forwardly and rearwardly alongside the harvester to insure the even distribution of tobacco within the trailer as it is supplied via a conveyor which is laterally shiftable to compensate for the lateral shifting of the harvester relative to the trailer.The harvester is provided with a pair of spaced apart defoliators adapted to be located on opposite sides of a tobacco row.The defoliators are mounted in a sub-frame which is mounted for lateral movement relative to the main frame.The defoliators may be comprised of elongated spiral webs rotatable about their own axes or may be comprised of a pair of oscillating bars having a plurality of laterally extending flexible fingers thereon.A conveying system is provided for transporting the leaves from the vicinity of the defoliators to the aforementioned reciprocatable conveyor.

Inventors

TAYLOR MILLER

TAYLOR JIMMY N

TAYLOR OREN M

Latest standardized assignees - inventors removed

TAYLOR TOBACCO ENTERPRISES

TAYLOR GREGORY N

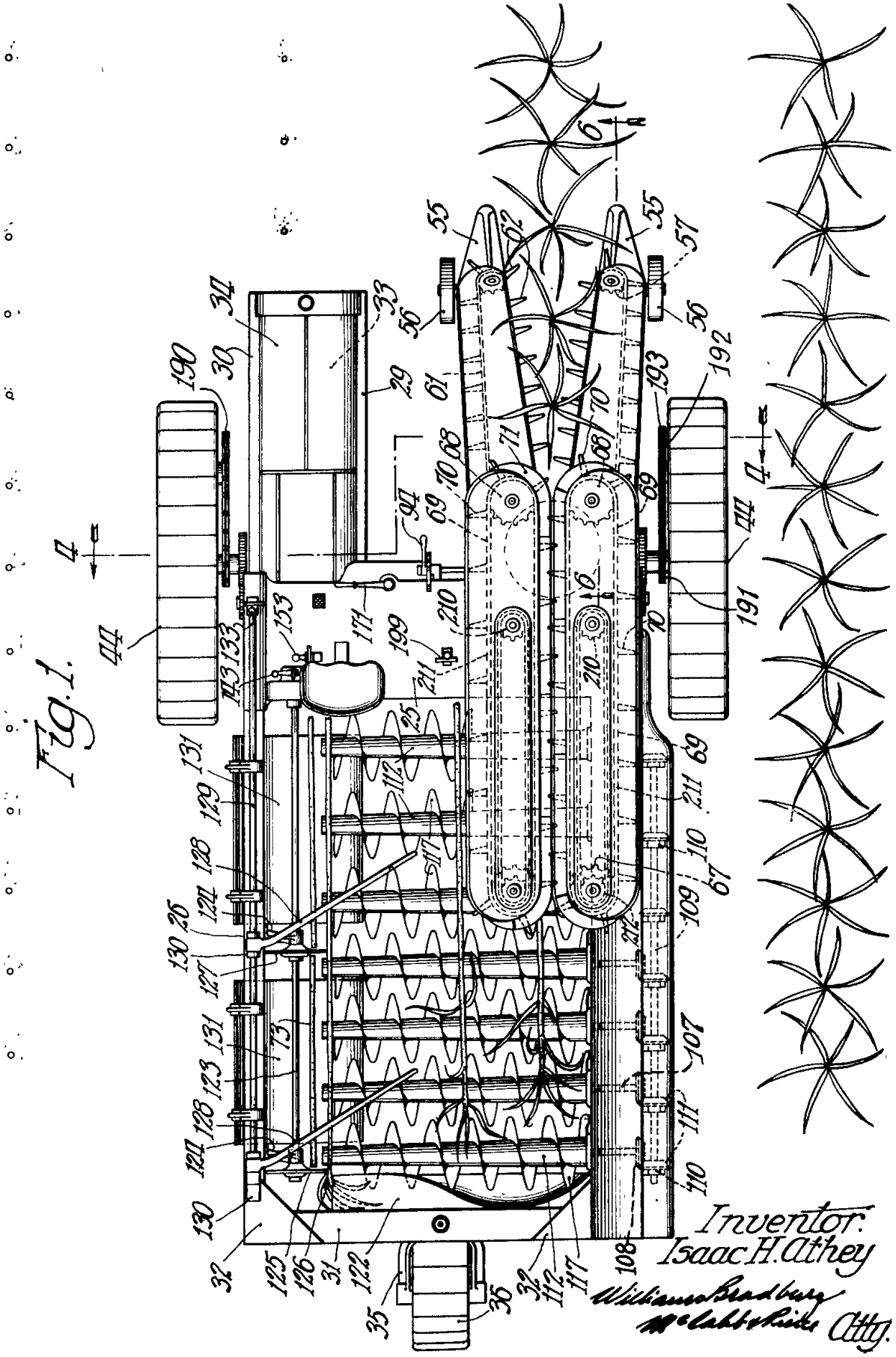
Family 216/667 - FAMPAT - ©Questel

Title

(US1741602)

Cane harvester

Images



Publication data including kind & date

US1741602 A 1929-12-31 US1741602

Inventors

ATHEY ISAAC H

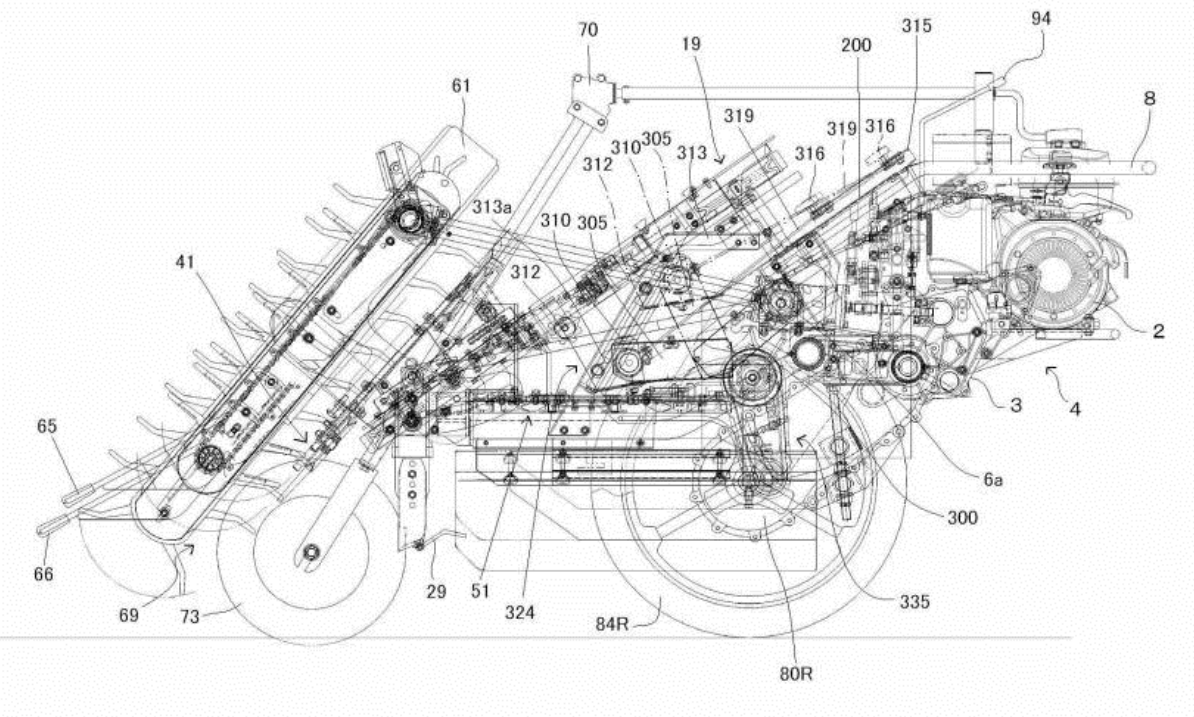
Family 217/667 - FAMPAT - ©Questel

Title

(JP2015163058)

Crop harvester

Images



Publication data including kind & date

JP2015163058	A	2015-09-10	JP2015163058
JP6233098	B2	2017-11-22	JP6233098

Abstract

(JP6233098)

PROBLEM TO BE SOLVED: To provide a crop harvester capable of adjusting the cutting height or cutting angle of foliage parts, and maintaining a constant interval and orientation of crops to be discharged to a field surface after cutting the foliage parts.SOLUTION: A crop harvester comprises: an extracting/conveying device 19 for holding foliage parts and extracting crops from a farm field; a foliage part cutting device 324 provided below the extracting/conveying device 19 for cutting the foliage parts of the crops being conveyed; a foliage part receiving member 200 provided below the conveying direction downstream side of the extraction/conveying device 19; and a shoulder arranging device 51 for arranging the cutting position of the foliage parts of the crops cut by the foliage part cutting device 324.A position adjustment member 316 for adjusting the cutting position of the foliage part cutting device 324 is slidably provided in a discharged-leaf receiving member 200.The position adjustment member 316 is disposed at the rear side of the machine body from the foliage part cutting device 324.

Inventors

Masami Muramachi

TAKAGI SHINGO

Hideaki Kurose

YUMITATSU TAKESHI

Shinichi Matsuzabu

Latest standardized assignees - inventors removed

ISEKI

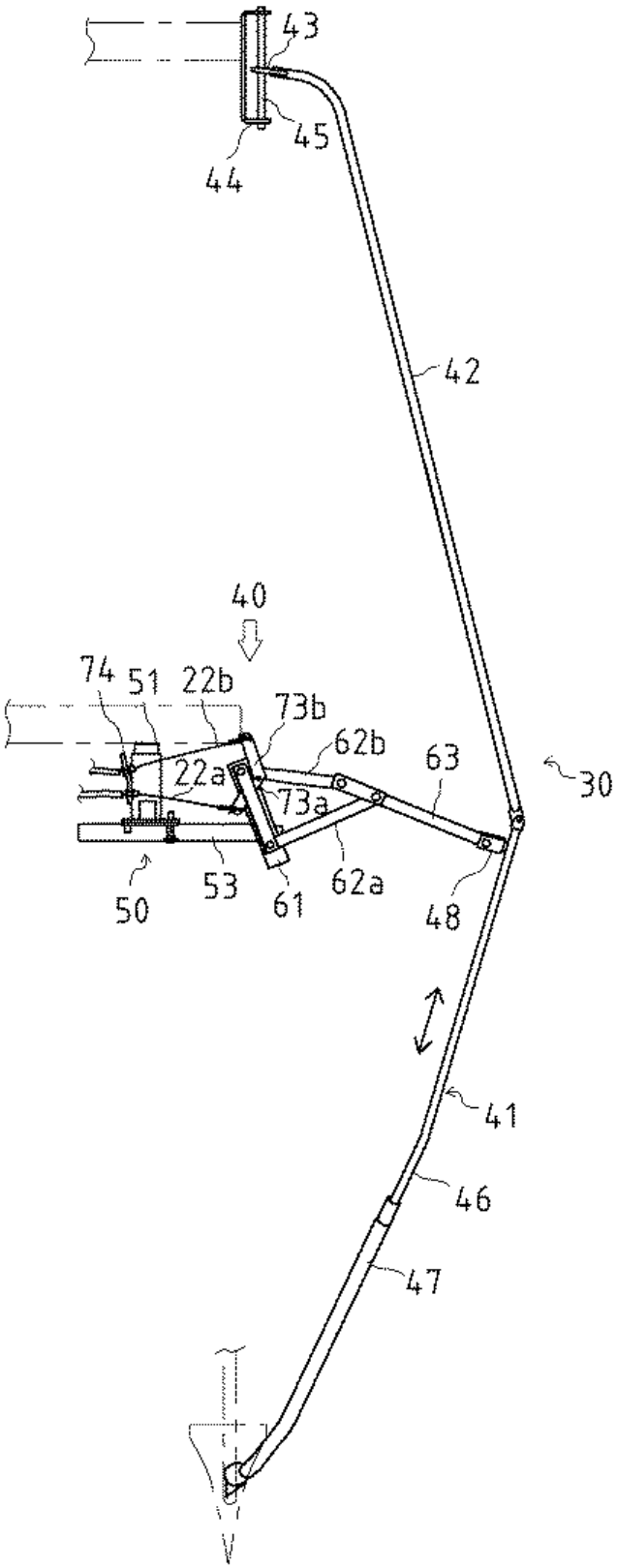
Family 218/667 - FAMPAT - ©Questel

Title

(JP2011050328)

Combine harvester

Images



Publication data including kind & date

JP2011050328	A	2011-03-17	JP2011050328
JP5275949	B2	2013-08-28	JP5275949

Abstract

(JP5275949)

PROBLEM TO BE SOLVED: To provide a combine harvester capable of holding a grass-dividing rod arranged along a machine body in the longitudinal direction on one lateral side at a predetermined lateral position in a stable posture.
SOLUTION: In the combine harvester 1, equipped with a position-adjusting mechanism 40 capable of adjusting the grass-dividing rod 30 arranged along the machine body in the longitudinal direction on one lateral side, the position adjusting mechanism 40 is equipped with a first arm 61 held by the reaping unit 7 or the machine body, a pair of the front and the rear link bodies 62a, 62b, each one end of which is connected to the first arm 61 to be freely rotatable, and mutually disposed to be separated by a predetermined distance, a second arm 63 one end of which is linked to the other end of the pair of link bodies 62a, 62b to be freely rotatable and the other end of which to the grass-dividing rod 30 to be freely rotatable, and an angle changing means capable of changing and holding a rotation angle of the pair of link bodies 62a, 62b against the first arm 61 to and in an arbitrary rotation angle.
COPYRIGHT: (C)2011,JPO&INPIT

Inventors

Taketoshi Hatta

Latest standardized assignees - inventors removed

YANMAR

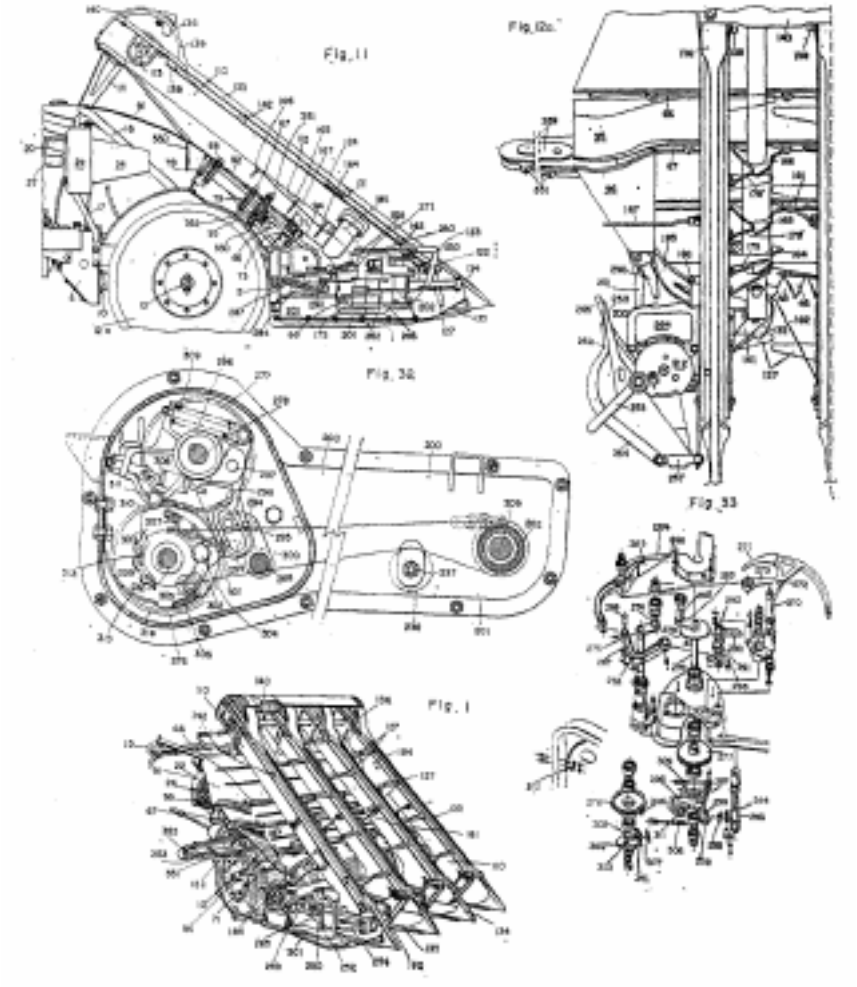
Family 219/667 - FAMPAT - ©Questel

Title

(US3531921)

Harvester

Images



Publication data including kind & date

BE702573	A	1968-01-15	BE-702573
FR1559621	A	1969-03-14	FR1559621
GB1200767	A	1970-08-05	GB1200767

US3531921	A	1970-10-06	US3531921
DE1582276	B1	1972-02-03	DE1582276

Abstract

(US3531921)

1,200,767. Harvesting machines.KUBOTA TEKKO K.K. 14 Aug., 1967 [13 Aug., 1966], No. 37209/67.Heading A1F.A reaper-binding machine is steered by handle 15 and has a number of crop dividing boards 110 having moving fingers 127 arranged to lift crop to prepare it for cutting by a reciprocating cutter 45 (Fig. 12a) from whence the crop is guided by rotating members 172, 164, 165 and 166 on to a table consisting of transversely extending boards 91, 92, 93, 94 between which are moving fingers 66, 71 arranged to transfer cut crop transversely beneath the dividers 110 to lie on a raised part 96 of the table and against a door 290.A pressure plate 185 and a bar 187 retain the stalks.When the stalks exert a predetermined pressure on the door 290, this rotates together with shaft 286 to initiate the binding cycle.A roller 295 associated with shaft 286 moves in a slot 299 to rotate members 298 whereby the pawl 301 is released and member 302 is pivoted by spring 307 so that roller 305 engages a projection 306 on a constantly rotating gear 276 to transmit drive to the disc cam 303 and the needle driving shaft 232.The needle 271 makes one reciprocating motion through the intermediary of the arm 275 and link 273.At the same time the needle driving shaft operates, through gearing, a bill and holder which knot the string supplied by the needle and then ejecting arms 250, 252 whereby the stalks are ejected laterally from the machine.On completion of one revolution of the needle drive shaft 232 the pawl 301 abuts against the pawl 300 and thus disengages the drive from the disc cam 303.To ensure smooth supply of string a packing arm 284 moves ahead of the needle 271.The string is supplied to the needle from a roll 24 via a pair of string brake elements, a tension arm and a guiding tube.Resilient bars such as shown at 178, 179 and 182 prevent entanglement of the stalks between the dividers 110 and a discharge conveyer 351 is arranged on a telescopic shaft 353.The various parts of the machine are driven from an engine which also drives the ground wheels.

(From GB1200767 A)

Inventors

HIYAMUDA SHOTA

Latest standardized assignees - inventors removed

KUBOTA

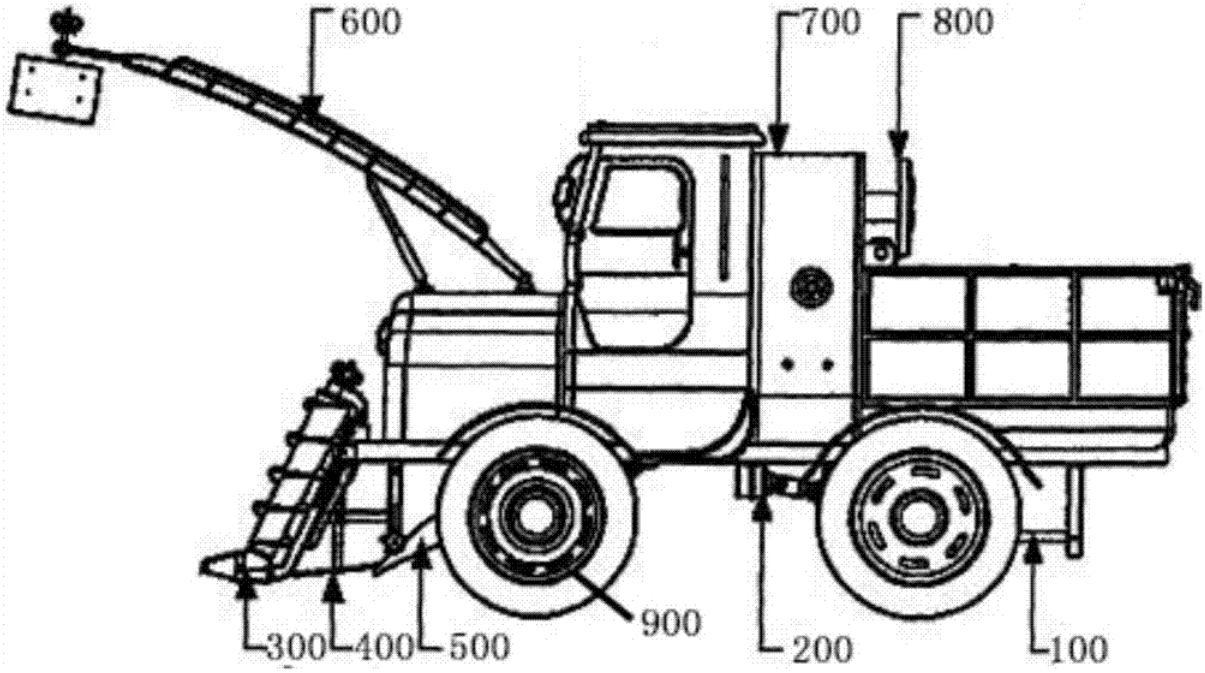
Family 220/667 - FAMPAT - ©Questel

Title

(CN106134631)

Harvesting device based on giant magnetostrictive material

Images



Publication data including kind & date

CN106134631	A	2016-11-23	CN106134631
CN106134631	B	2018-01-30	CN106134631B

Abstract

(CN106134631B)

Provided is a harvesting device based on a giant magnetostrictive material.The device is characterized by comprising an internal combustion engine, a transfer case, a sugarcane supporting mechanism, a sugarcane cutting mechanism, a feeding conveying mechanism, a cane top cutting mechanism, a leaf cleaning mechanism, a sugarcane collecting mechanism, a travelling mechanism, and a giant magnetostrictive oil spraying gun.The internal combustion engine is arranged on the rear part of a harvester.The transfer case is arranged on the middle position of the harvester.The transfer case provides power for the sugarcane supporting mechanism, the sugarcane cutting mechanism, the feeding conveying mechanism, the cane top cutting mechanism, the leaf cleaning mechanism, and the sugarcane collecting mechanism.The sugarcane supporting mechanism is arranged on the lower part of the front end of the harvester.The cane top cutting mechanism is arranged on the upper part of the front end of the harvester.The feeding conveying mechanism and the leaf cleaning mechanism form a sugarcane logistics system.The feeding conveying mechanism uses an intermediate horizontal gripping roll transmission mechanism, and is arranged on the middle part of the harvester.The leaf cleaning mechanism is on the rear of a cab and the intermediate horizontal gripping roll transmission mechanism, and is abutted against the sugarcane collecting mechanism.The internal combustion engine generates driving force by oil spraying of the giant magnetostrictive oil spraying gun.

Inventors

FENG QINGHAI

Latest standardized assignees - inventors removed

SHI JIANHUA

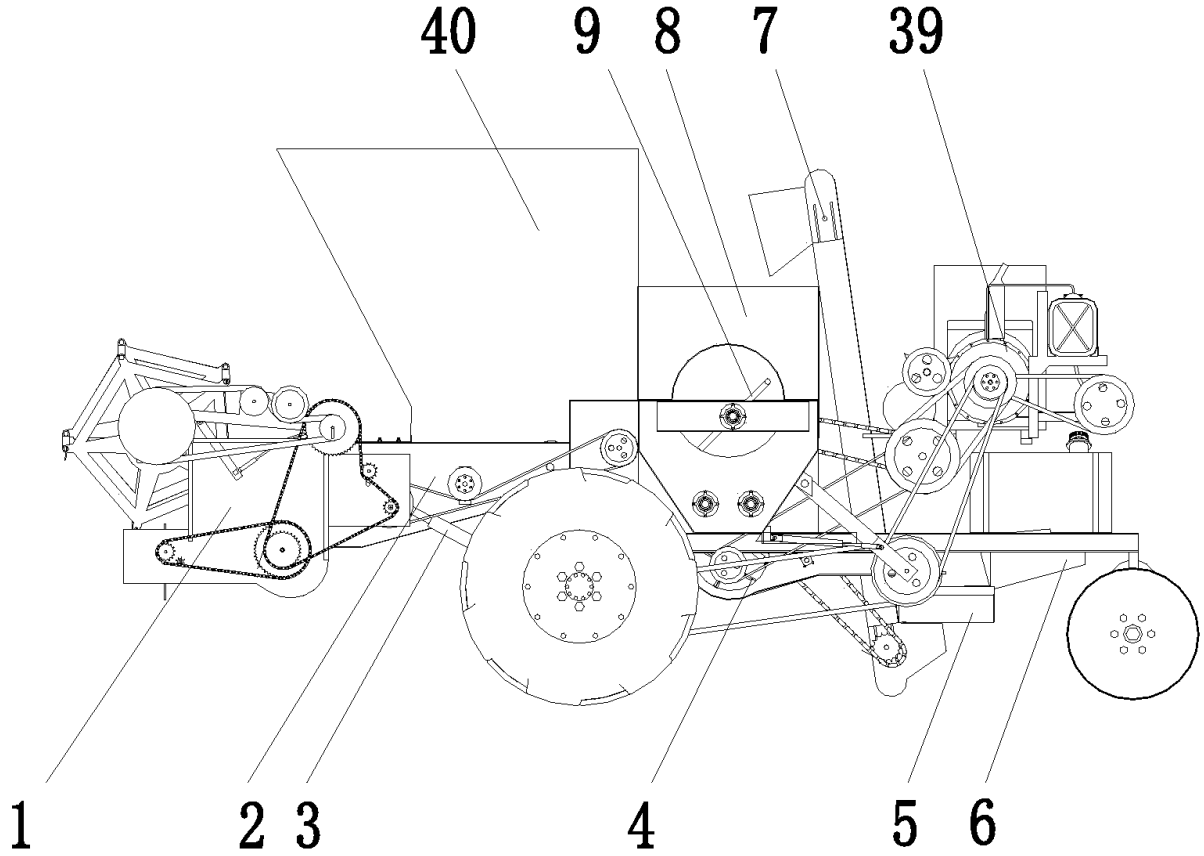
Family 221/667 - FAMPAT - ©Questel

Title

(CN103918397)

Self-propelled peanut picking-up and fruit picking combine harvester

Images



Publication data including kind & date

CN103918397	A	2014-07-16	CN103918397
CN103918397	B	2015-08-26	CN103918397B

Abstract

(CN103918397B)

The invention relates to a peanut combine harvester, in particular to a self-propelled peanut picking-up and fruit picking combine harvester.The self-propelled peanut picking-up and fruit picking combine harvester comprises a picking-up device, a middle conveying device, a fruit picking device, a multi-level cleaning device, a hoisting conveying device and a fruit collecting device which are sequentially connected, and a power device is connected with all the devices respectively.The self-propelled peanut picking-up and fruit picking combine harvester realizes the combined operation integrating picking-up, conveying, fruit picking, cleaning, hoisting and fruit collecting of laid peanuts, is high in picking-up efficiency and picking rate, improves the integrity of the peanuts to the maximum degree, and effectively solves the problem that fruit and seedlings cannot be separated thoroughly or cleaned cleanly.

Inventors

WANG DONGWEI
SHANG SHUQI
WANG YANYAO
LIU HONGMING
LI XIANG
WANG JIASHENG
YANG RANBING
HAN KUN
CHEN KAI

Latest standardized assignees - inventors removed

QINGDAO AGRICULTURAL UNIVERSITY

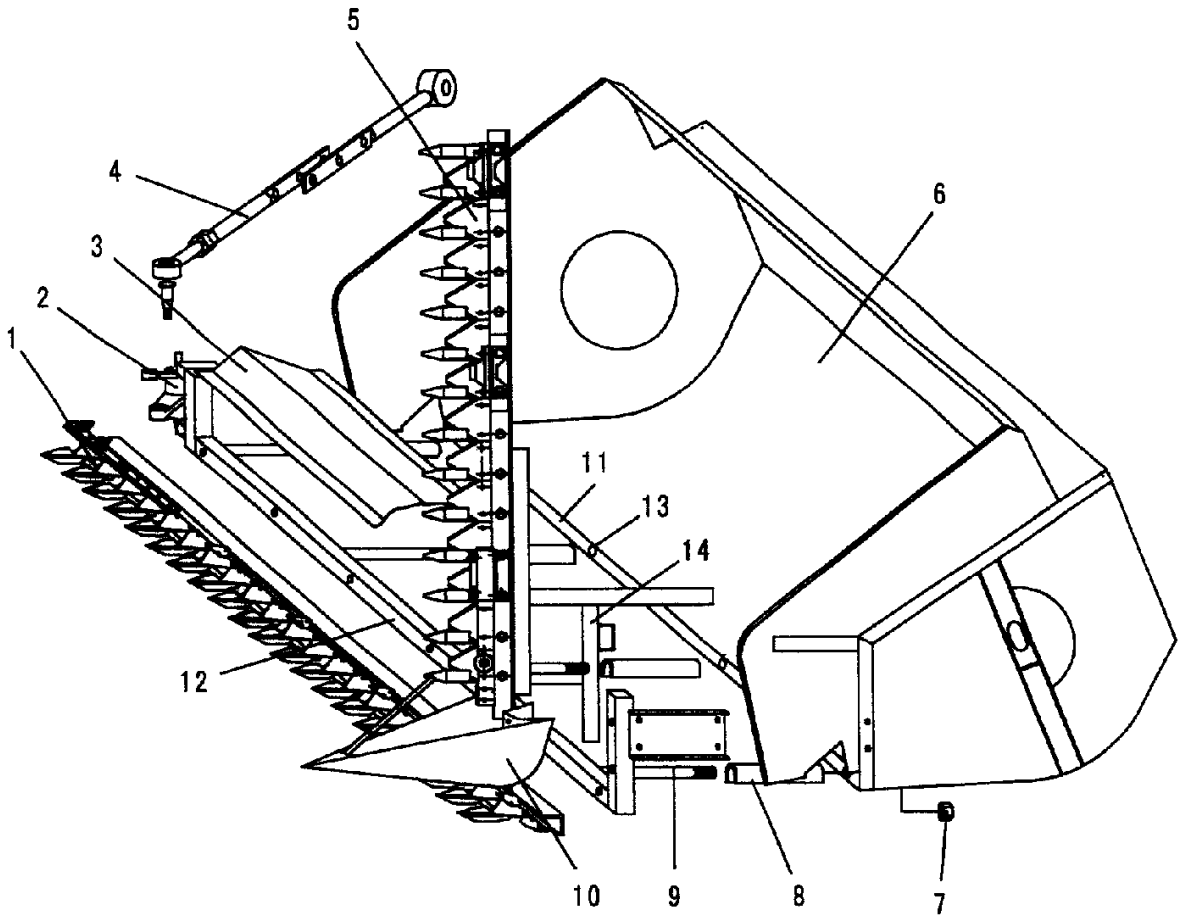
Family 222/667 - FAMPAT - ©Questel

Title

(CN2798538U)

Retractable cutting platform for combine-harvester

Images



Publication data including kind & date

CN2798538	Y	2006-07-26	CN2798538U

Abstract

(CN2798538U)

The utility model relates to a retractable cutting platform for a combine harvester.A retractable flat comb frame is arranged between a cross beam of a frame and a knife beam of a cutter, and is composed of a cross beam and a plurality of flat comb rods which are vertically fixed at the back side of the cross beam.After penetrating through corresponding flat comb rod holes which are arranged on the cross beam of the frame, the flat comb rods are connected by nuts.Semitubular positioning sleeves with fixed length are covered and sheathed on the rod sections of the flat comb rods between the cross beam of the flat comb frame and the cross beam of the frame.The knife beam of the cutter is arranged on the cross beam of the flat comb frame, and the right side end of the cross beam of the flat comb frame is welded with a swing rod connecting seat.A drive connecting rod is a movably connecting rod with adjustable length.The left side end of the cross beam of the flat comb frame is fixed with a vertical knife installing seat.The utility model has the advantages that the length of the cutting platform can be adjusted flexibly, the vertical knife installing seat is arranged simultaneously, and the cutting platform can adapt the harvesting requirements of different crops, such as rice, wheat, rape, etc.Besides, a shattering receiving disk is arranged below a vertical knife, therefore the shattering loss for the harvest is reduced.The utility model also has the advantages of simple structure, low cost and simple adjustment, installation and operation.

Inventors

ZHANG FENFEI

LI JINQUAN

Latest standardized assignees - inventors removed

HUZHOU STAR AGRICULTURAL MACHINERY MANUFACTURING

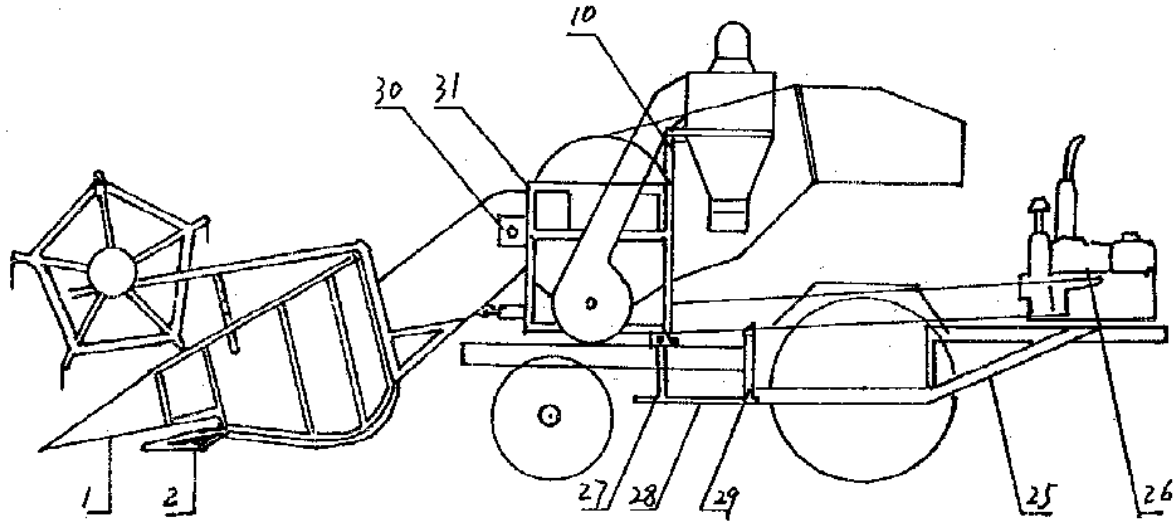
Family 223/667 - FAMPAT - ©Questel

Title

(CN2312568U)

Front-located wheat combined harvester

Images



Publication data including kind & date

CN2312568	Y	1999-04-07	CN2312568U

Abstract

(CN2312568U)

The utility model discloses a front wheat combine harvester which is matched with a small four-wheel tractor.An engine of the small four-wheel tractor is shifted to be arranged on a bracket of a rear bridge housing, and a threshing machine set is arranged on the sommer of the original engine.The front side of the threshing machine set is provided with a conveying bridge and a header, and the rear side is provided with a grain cleaning and separation device.The utility model is mainly used for harvesting wheat as well as barley and rice, being capable of once finishing the jobs, such as harvesting, threshing, separating, grain cleaning, bagging, etc.

Inventors

DAI QUNLI

ZHAO ZILI

Latest standardized assignees - inventors removed

ANHUI TAIHE AGRICULTURAL MACHINERY PLANT

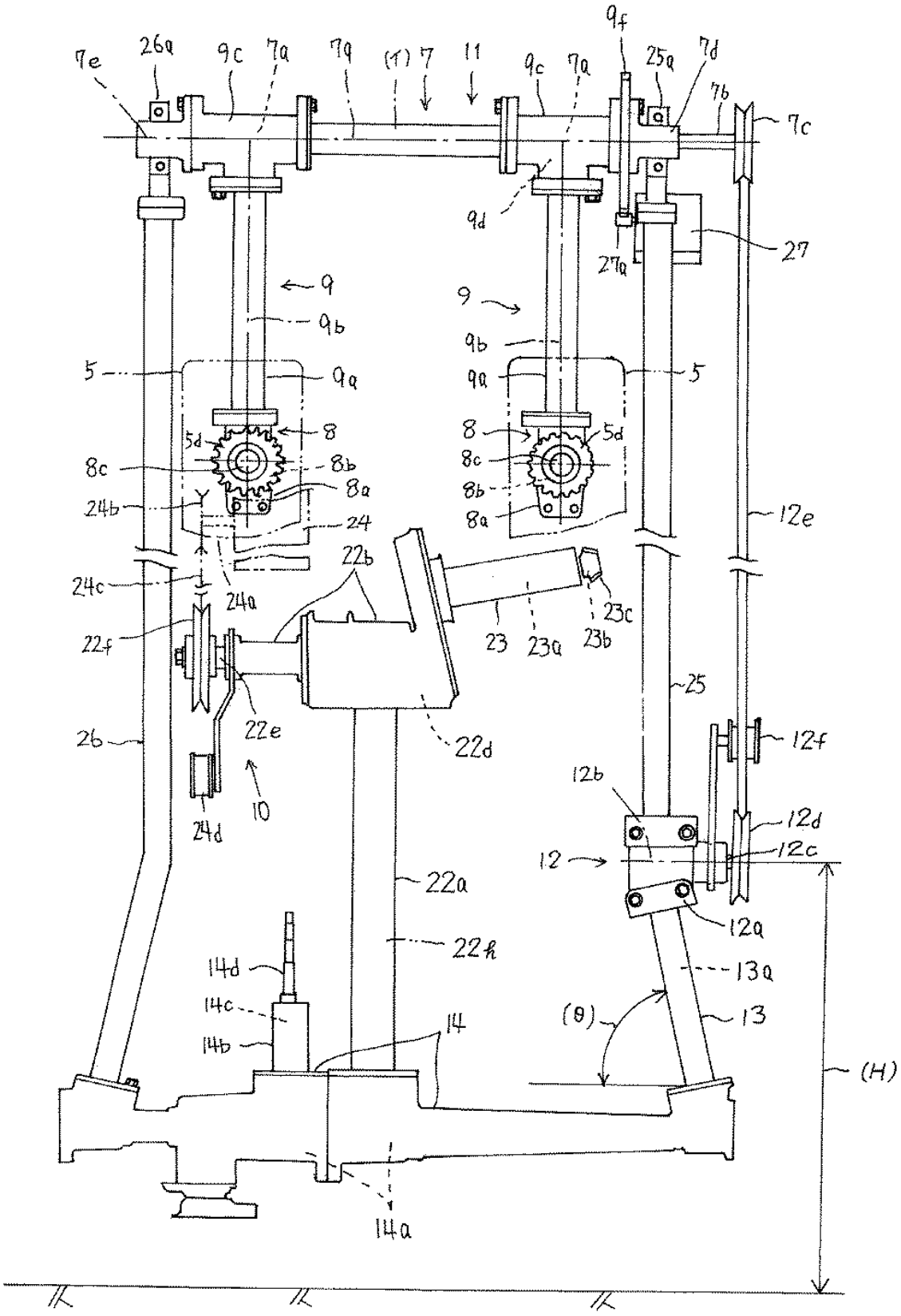
Family 224/667 - FAMPAT - ©Questel

Title

(JP2005160383)

Grain culm raiser for combine harvester

Images



Publication data including kind & date

JP2005160383 A 2005-06-23 JP2005160383

Abstract

(JP2005160383)

PROBLEM TO BE SOLVED: To provide a grain culm raiser facilitating the work of reaping beetling grain culms at levee edges.

SOLUTION: The grain culm raiser 5 mounted on a combine harvester has the following construction and mechanism: It is subject to turning drive by an upper transmission 7, that is, it is vertically turnable with the upper transmission 7 as a turning

support(A).An input unit 8 on this raiser 5 and the upper transmission 7 are joined to each other via a relevant device 9 so as to turn.An output transmission 12 for outputting a turning drive to this raiser 5 is set at a position(H) with a predetermined height, and a transmission pipe 13 connecting the output transmission 12 and a reaping gear case 14 thereunder with each other is set in an inwardly inclined manner.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

NAGAI TOSHIRO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

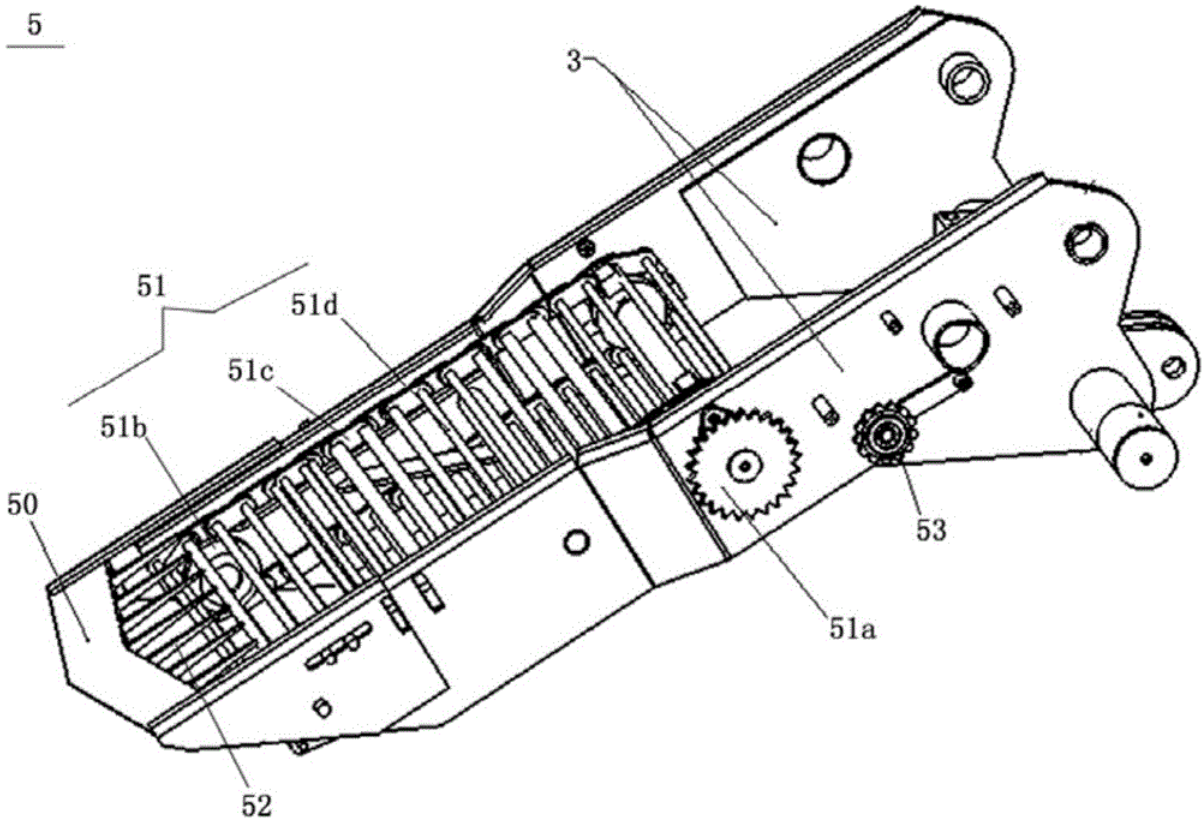
Family 225/667 - FAMPAT - ©Questel

Title

(CN106105540)

Soil shoveling device of full-automatic crawler type Chinese onion harvester

Images



Publication data including kind & date

CN106105540	A	2016-11-16	CN106105540

Abstract

(CN106105540)

The invention discloses a soil shoveling device of a full-automatic crawler type Chinese onion harvester.The harvester comprises a machine frame, a collecting arm frame, the soil shoveling device, a longitudinal conveying device and a transverse conveying device, wherein the soil shoveling device comprises an annular conveying chain which is located on a profiling grafter, located in the collecting arm frame and used for connecting the profiling grafter with the longitudinal conveying device, a driving mechanism which is used for driving the annular conveying chain to covey Chinese onions, and a connecting part which is arranged at the rear end of the profiling grafter and connects the profiling grafter with the annular conveying chain, the upper surface and the bottom face of the profiling grafter form an included angle of 10-60 degrees, the connecting part is in a comb tooth shape, and part of mud on the roots of Chinese onions passing through the connecting part can fall down at the comb tooth position.The profiling grafter is connected with the longitudinal conveying device through the comb-tooth-shaped connecting part and the annular conveying chain, mud on the roots of Chinese onions falls

down, the harvesting quality of Chinese onions is ensured, great help is provided for subsequent stacking and conveying work, the structure is simple, and implementation is convenient.

Inventors

LIU KAI

YAO RONGDE

LU ZHENGQI

Latest standardized assignees - inventors removed

WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY

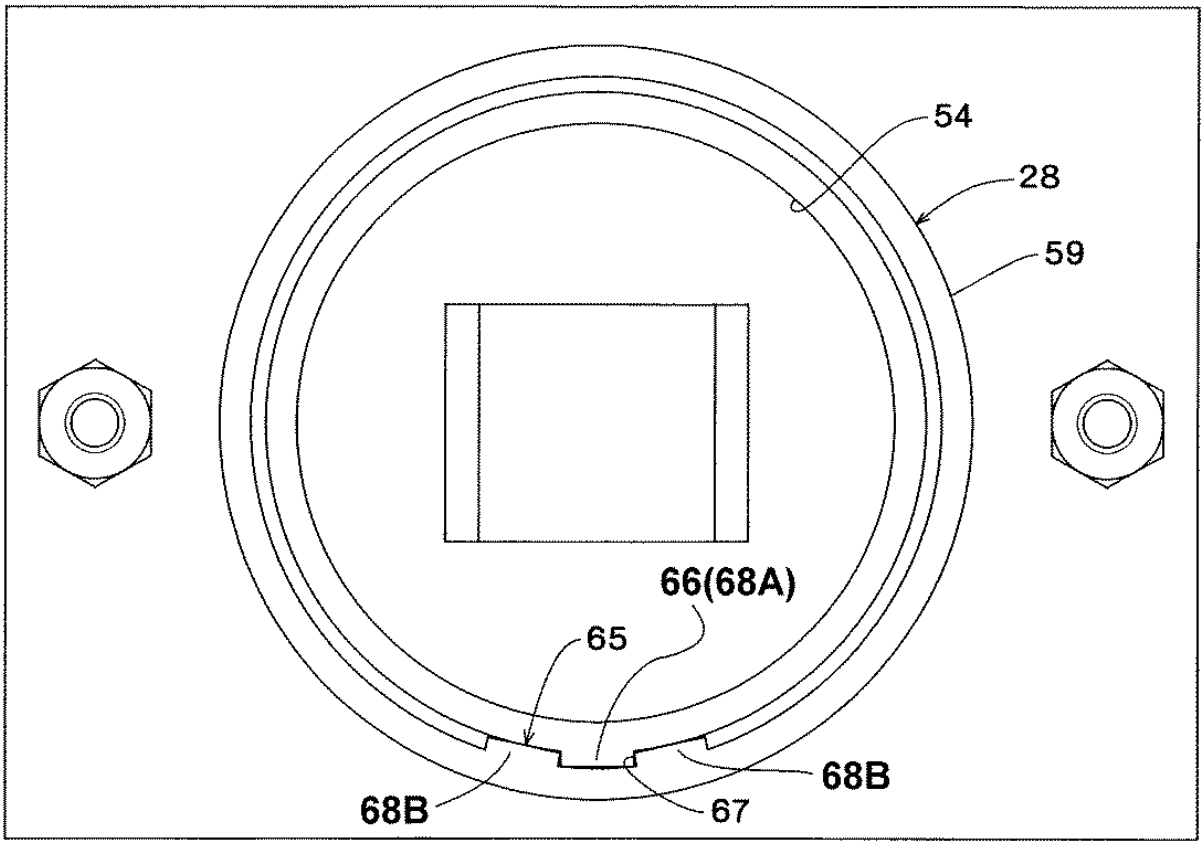
Family 226/667 - FAMPAT - ©Questel

Title

(JP2011152101)

Combine harvester

Images



Publication data including kind & date

JP2011152101 A 2011-08-11 JP2011152101

Abstract

(JP2011152101)

PROBLEM TO BE SOLVED: To solve such the problem that urging force is insufficient because a single spring is installed in order to reduce the ground contact pressure of a reaping device, and an operation space of a spring mechanism is increased in order to support all of the vertical strokes of a reaping device by the single spring.

SOLUTION: There is provided the reaping device 4 having a sledge body 22, and being lifted and lowered by a reaping vertical cylinder 19.Auxiliary urging means 20 for urging the reaping device 4 to the lifting side is installed separately from the reaping vertical cylinder 19.The auxiliary urging means 20 includes a front-side spring mechanism 25A composed of a front-side spring holder 27 of a front-side small-diameter spring 29 and a rear-side spring mechanism 25B composed of a rear-side freely expandable and contractile spring holder 28 having a rear-side large-diameter spring 30.A rear-side front end cylinder 54 of the rear-side spring holder 28 is composed so as to expand and contract only in the front and rear directions from a rear-side base end cylinder 59 without rotating and rolling.

COPYRIGHT: (C)2011,JPO&INPIT

Inventors

SAKAMOTO NORIYUKI

KUSUME KOJI

SATOJI HISAYUKI

SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

Family 227/667 - FAMPAT - ©Questel

Title

(US1658353)

Combination traction implement

Images

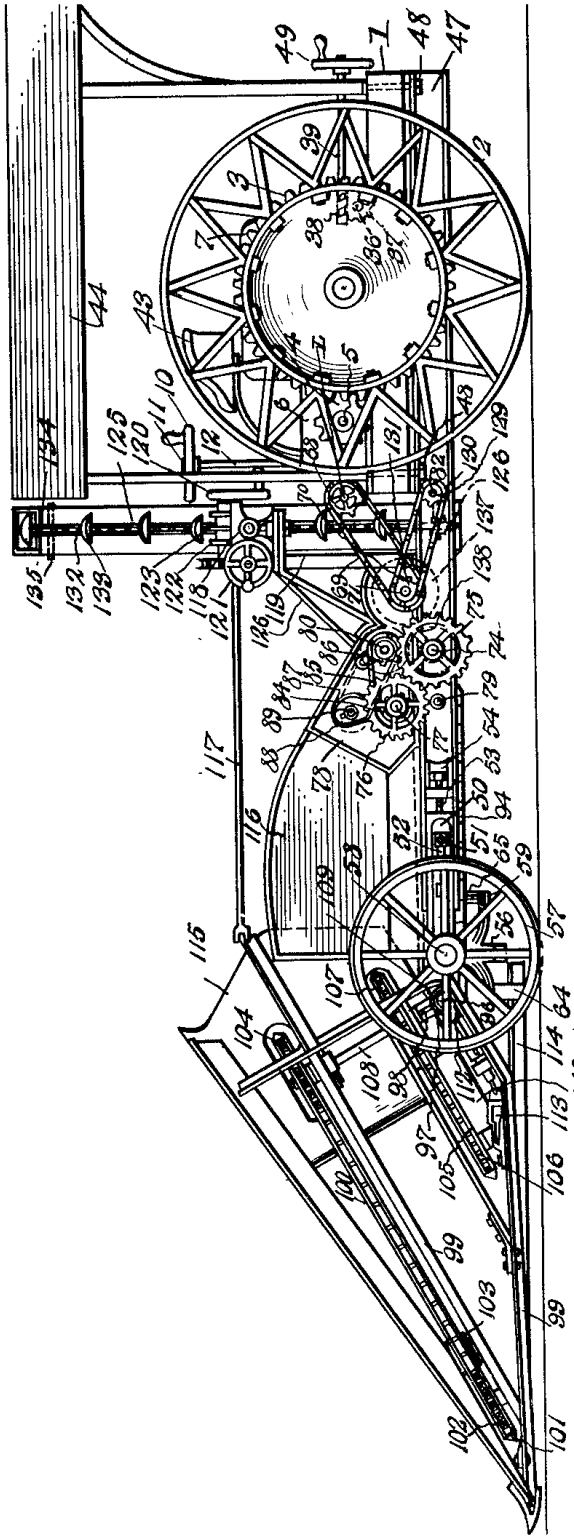


Fig. 1.

Inventors:
ANDREAN G. RONNING
ADOLPH RONNING.
By Whiteley and Ruckman
THEIR ATTORNEYS

Publication data including kind & date

US1340461	A	1920-05-18	US1340461
US1485201	A	1924-02-26	US1485201
US1528635	A	1925-03-03	US1528635
US1535439	A	1925-04-28	US1535439
US1658353	A	1928-02-07	US1658353

Inventors

RONNING ANDREAN G

ADOLPH RONNING

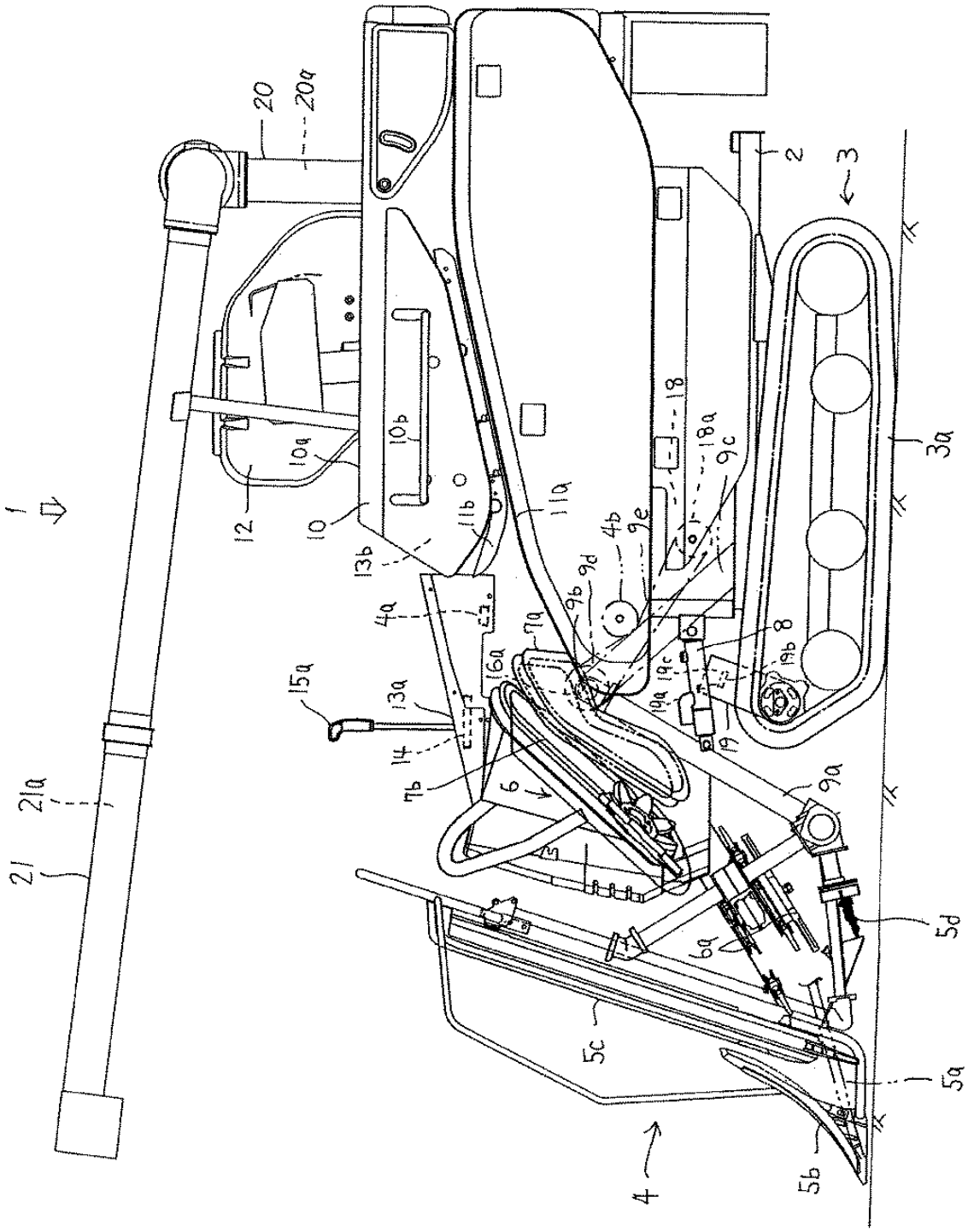
Family 228/667 - FAMPAT - ©Questel

Title

(JP2005176724)

Device for automatically stopping reaping part of combine harvester

Images



Publication data including kind & date

JP2005176724 A 2005-07-07 JP2005176724

Abstract

(JP2005176724)

PROBLEM TO BE SOLVED: To enable a feed chain, or the like, of a reaping machine or a threshing machine to be rotatably driven even when traveling rearward during harvesting operation of grain culms, but to stop the feed chain, or the like, at rearward traveling.

SOLUTION: The subject combine harvester constituted of the reaping machine 4 for reaping and conveying grain culms, and the threshing machine 10 for threshing the grain culms while conveying the grain culms by nipping them with the feed chain 11a and a nipping rod 11b is constituted so that the rotary drive of the reaping machine 4 and the feed chain 11a may be controlled so as to be stopped during the rearward traveling of the traveling device 3 by a controller 14.The detection of the rearward traveling is carried out by a position sensor of a main speed-changing lever 15a for operating the traveling.The combine harvester is constituted so that, when the reaping machine 4 is further lifted by a prescribed distance or more after stopping the reaping machine 4 and the feed chain 11a, the traveling speed may be controlled so as to be reduced.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

IWAMOTO HIROSHI
MORIMOTO HIROYUKI
GOSHIMA KAZUMI
JOKO KOJI
UCHIDA HIROYA
WATANABE HITOSHI
TSUJI KENTARO
MIYAMOTO AKIFUMI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

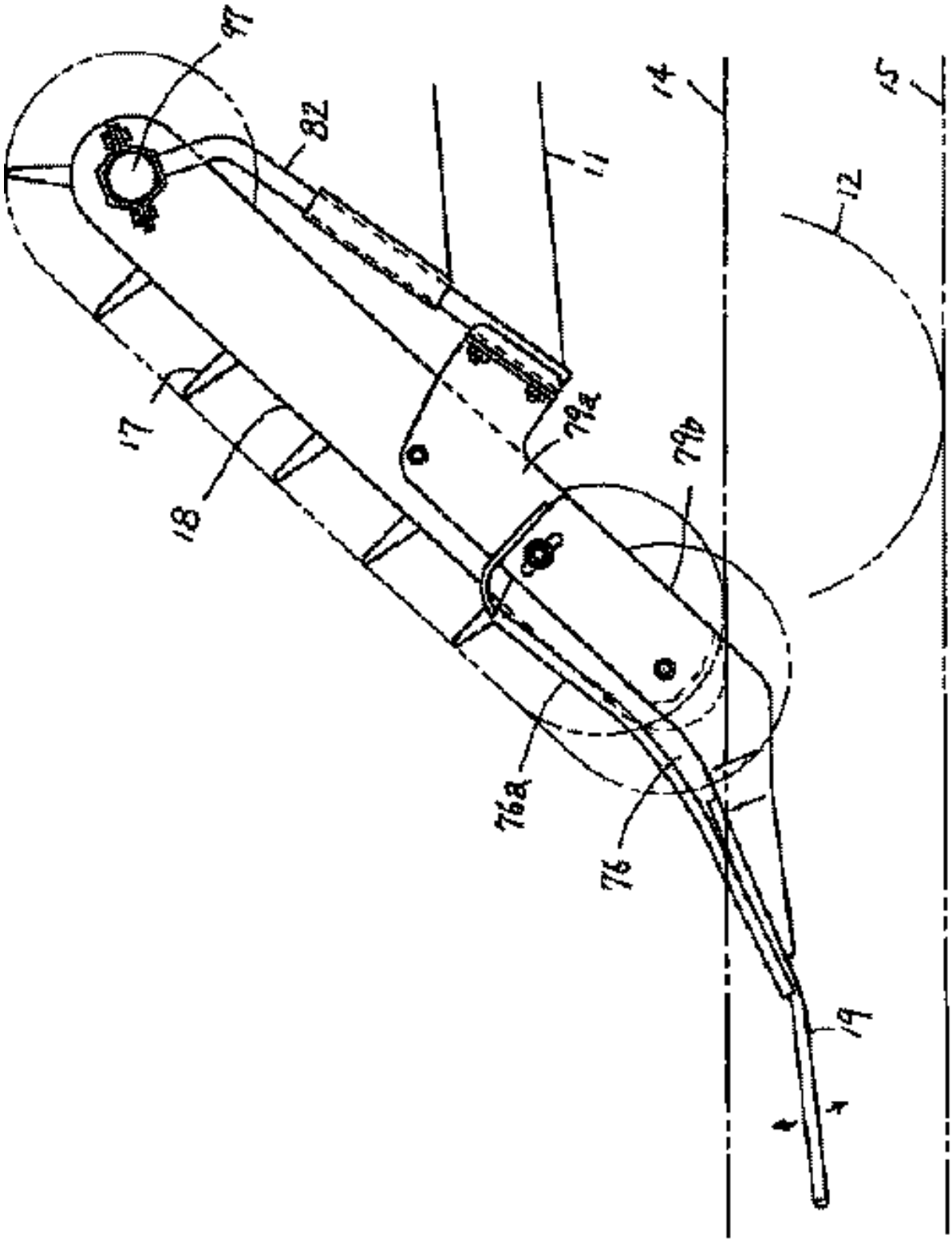
Family 229/667 - FAMPAT - ©Questel

Title

(JP2001178223)

Harvester

Images



Publication data including kind & date

JP2001178223	A	2001-07-03	JP2001178223
JP3336310	B2	2002-10-21	JP3336310

Abstract

(JP3336310)

PROBLEM TO BE SOLVED: To provide a harvester designed to sureyl apply dividingly raising action onto the stems/leaves (16a) of a root vegetable crop (16) so as not to leave the root vegetable crop (16) undug due to the stems/leaves (16a)'s malraising.SOLUTION: This harvester is such as to be mounted with a carrier (22) for nipping the stems/leaves (16a) of a root vegetable crop (16), pulling them off the field and then carrying them and dividingly raising cases (18) in three lines corresponding to two rows set up in the front of the machine body; wherein an arm (19) is

furnished so as to be projected from the lower part of each of the cases (18) forward and slantly downward, the mount bracket (79) of the arm (19) is turnably linked to the corresponding case (19), and the height of the tip side of the arm (19) is regulated by turning control of the mount bracket (79).

Inventors

YAMAMOTO YOSHIAKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

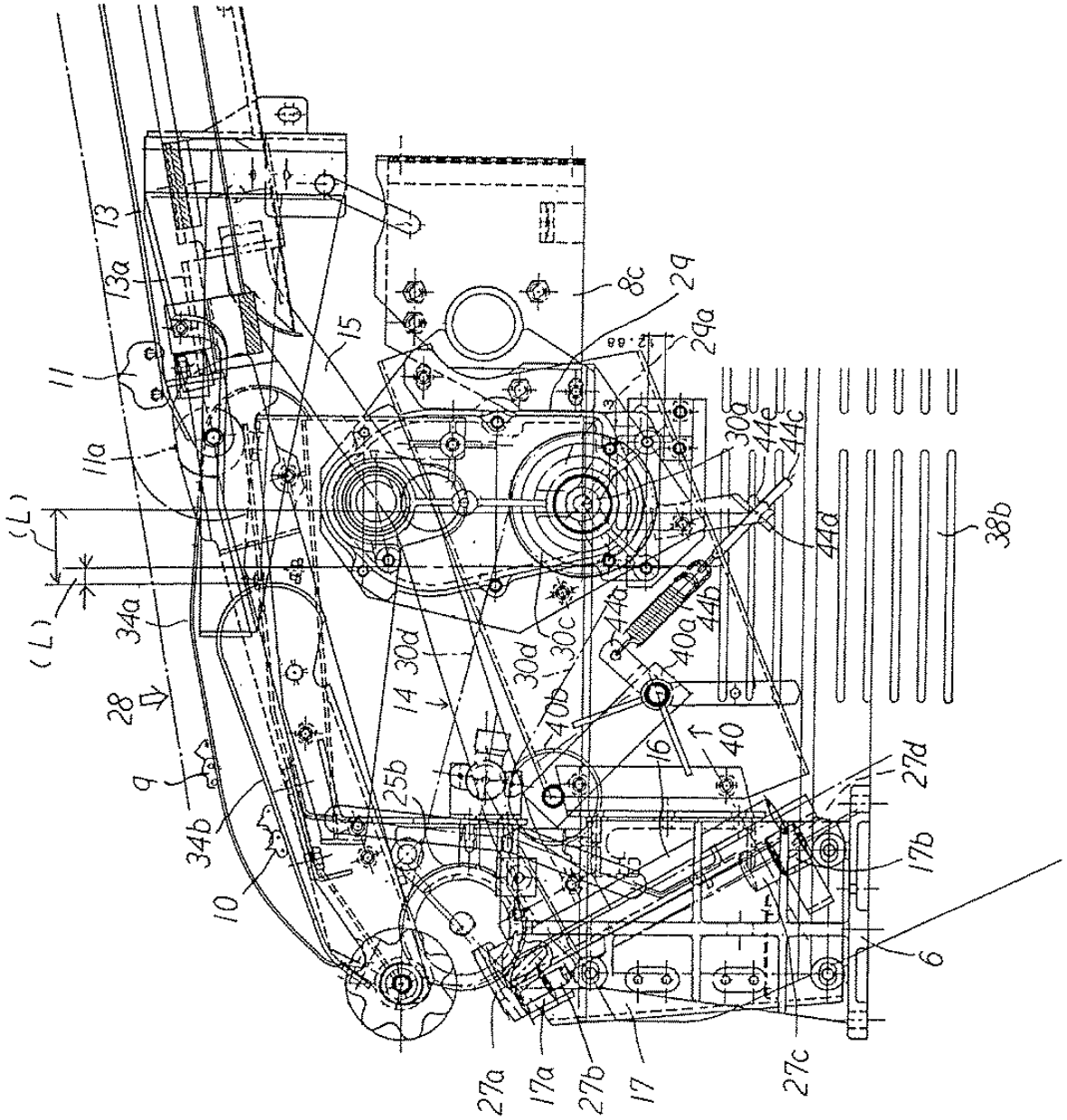
Family 230/667 - FAMPAT - ©Questel

Title

(JP2010094132)

Combined harvester

Images



Publication data including kind & date

JP2010094132	A	2010-04-30	JP2010094132
JP4670988	B2	2011-04-13	JP4670988

Abstract

(JP4670988)

PROBLEM TO BE SOLVED: To provide a combined harvester which relays grain culms to a feed chain and a nipping/holding rod while stabilizing the relaying position of the grain culms from a reaping machine to an auxiliary conveying chain.

SOLUTION: The combined harvester is configured to relay and convey with an auxiliary conveying chains (9) grain culms conveyed by a feeding/conveying device (24e) on a reaping machine (4) side to the feed chain (11) and nipping/holding rod (12), wherein the auxiliary conveying chain (9) which has a width narrower than and a lug higher than the feed chain (11), is spanned on a first rotary wheel (30e) and a second rotary wheel (32a) provided on an shaft (31a) forward from the front end of the feed chain (11), a chain sliding member (34a) having a front end positioned at a lower position than the rear end on the upper inside of the auxiliary conveying chain (9), wherein the chain sliding member (34a) is supported by a supporting rod (43a) on a supporting member (17) of the reaping/supporting device (6) side.

COPYRIGHT: (C)2010,JPO&INPIT

Inventors

IMAMURA HIDEKAZU
MATSUI MASAMI
TAKEUCHI KENICHIRO
ICHIMARU TOMOYUKI
TAGAMI KAZUNARI
TOYODA KAZUO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

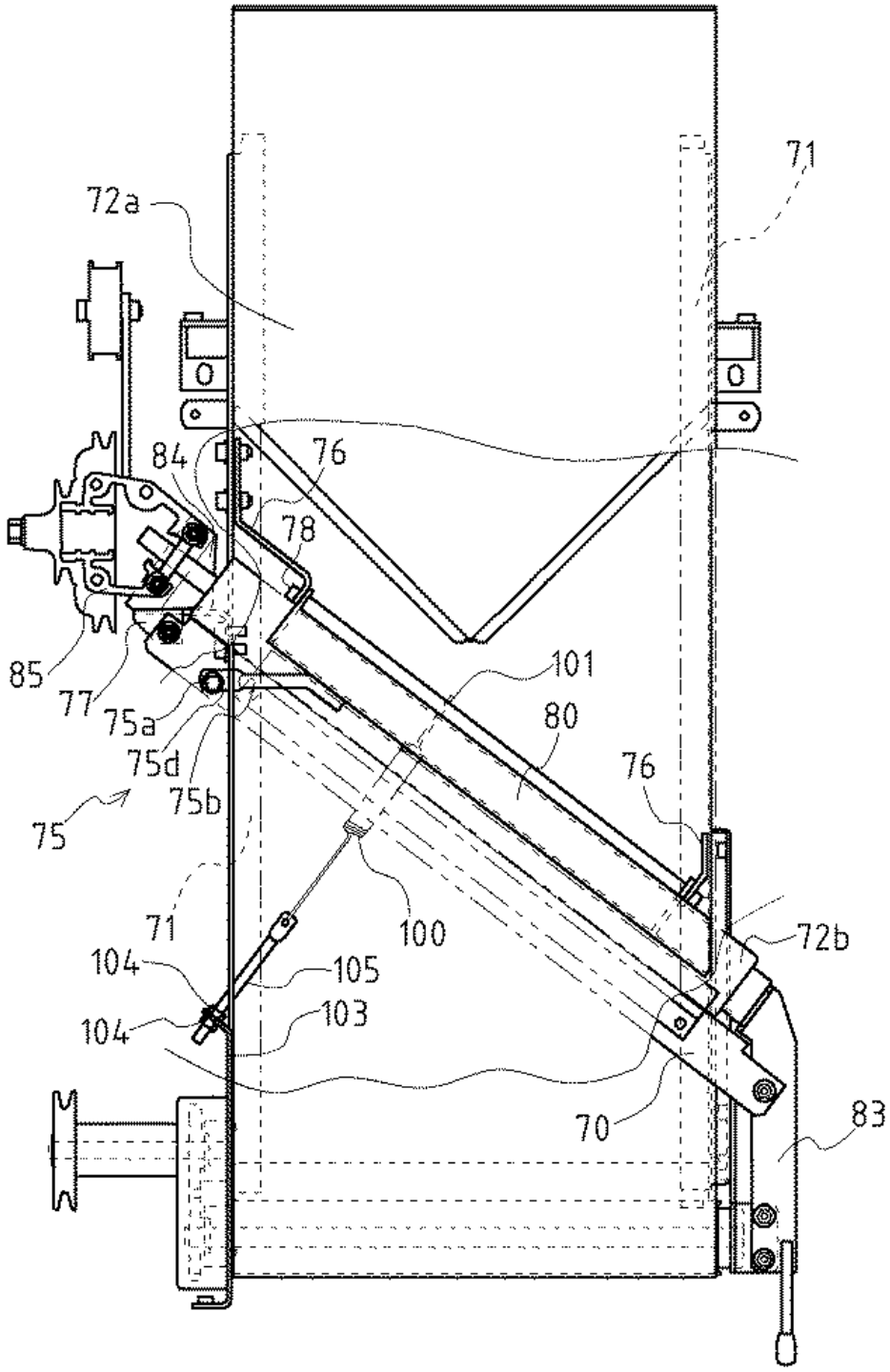
Family 231/667 - FAMPAT - ©Questel

Title

(JP2007330175)

Root vegetable harvester

Images



Publication data including kind & date

JP2007330175	A	2007-12-27	JP2007330175
JP4847225	B2	2011-12-28	JP4847225

Abstract

(JP4847225)

PROBLEM TO BE SOLVED: To provide a root vegetable harvester solving the problem that, when root vegetables' main roots are transversely conveyed on a lower conveyor toward a separatory conveyor, leaves left on the main roots without being pulled and cut off the main roots bite on a stopper lying on the terminal end of a traverse feed roller and adjusting the gap between the traverse feed roller and a conveyance surface, resulting in cloggings.

SOLUTION: The root vegetable harvester has such a construction that an apparatus(72) for treating the leaves of root vegetables left after cutting off their leaves composed of a flat belt(72a) and a tilt roller(72b) is disposed below the rear part

of a pulling conveying apparatus(8).In this root vegetable harvester, a height-adjusting mechanism(75) for the flat belt(72a) is disposed oppositely to the unloading side of the tilt roller(72b).

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

MORIKAWA KIYOHIRO

SUGIMURA YASUO

Latest standardized assignees - inventors removed

YANMAR

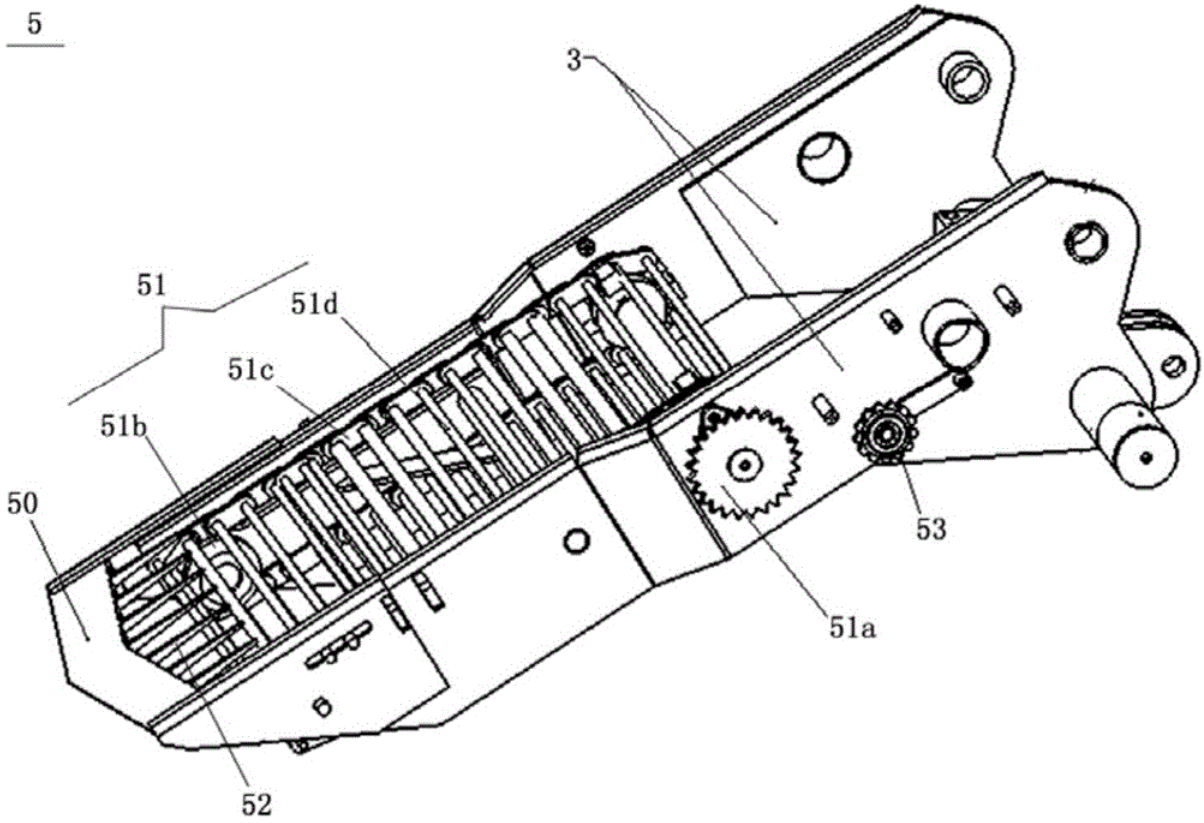
Family 232/667 - FAMPAT - ©Questel

Title

(CN205865085U)

Then stop device of full -automatic crawler -type shallot harvester

Images



Publication data including kind & date

CN205865085	U	2017-01-11	CN205865085U

Abstract

(CN205865085U)

The utility model relates to a then stop device of full -automatic crawler -type shallot harvester, this harvester includes the frame, collect the cantilever crane, then stop device, vertical conveyor, transversal transport device, wherein then stop device is including being located the profile modeling grafter, be located and collect the inside annular transfer link that links up profile modeling grafter and vertical conveyor mutually of being used for of cantilever crane, an actuating mechanism that is used for driving annular transfer link transmission shallot, and set up in linking portion that the rear end of profile modeling grafter inferior officer's profile modeling grafter and annular transfer link link up mutually, wherein the upper surface and the bottom surface of profile modeling grafter form 10~60 contained angle, linking portion is the broach form, and through the shallot of linking portion, the partial earth of its root can drop from broach department.The utility model discloses an it links up the profile modeling grafter with vertical conveyor mutually to comb dentate linking portion and endless conveyor for the earth of shallot root drops, ensures the results quality of shallot, for subsequent pile up neatly and transport provide very big help, simple structure, implement convenient.

Inventors

LIU KAI

YAO RONGDE

LU ZHENGQI

Latest standardized assignees - inventors removed

WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY

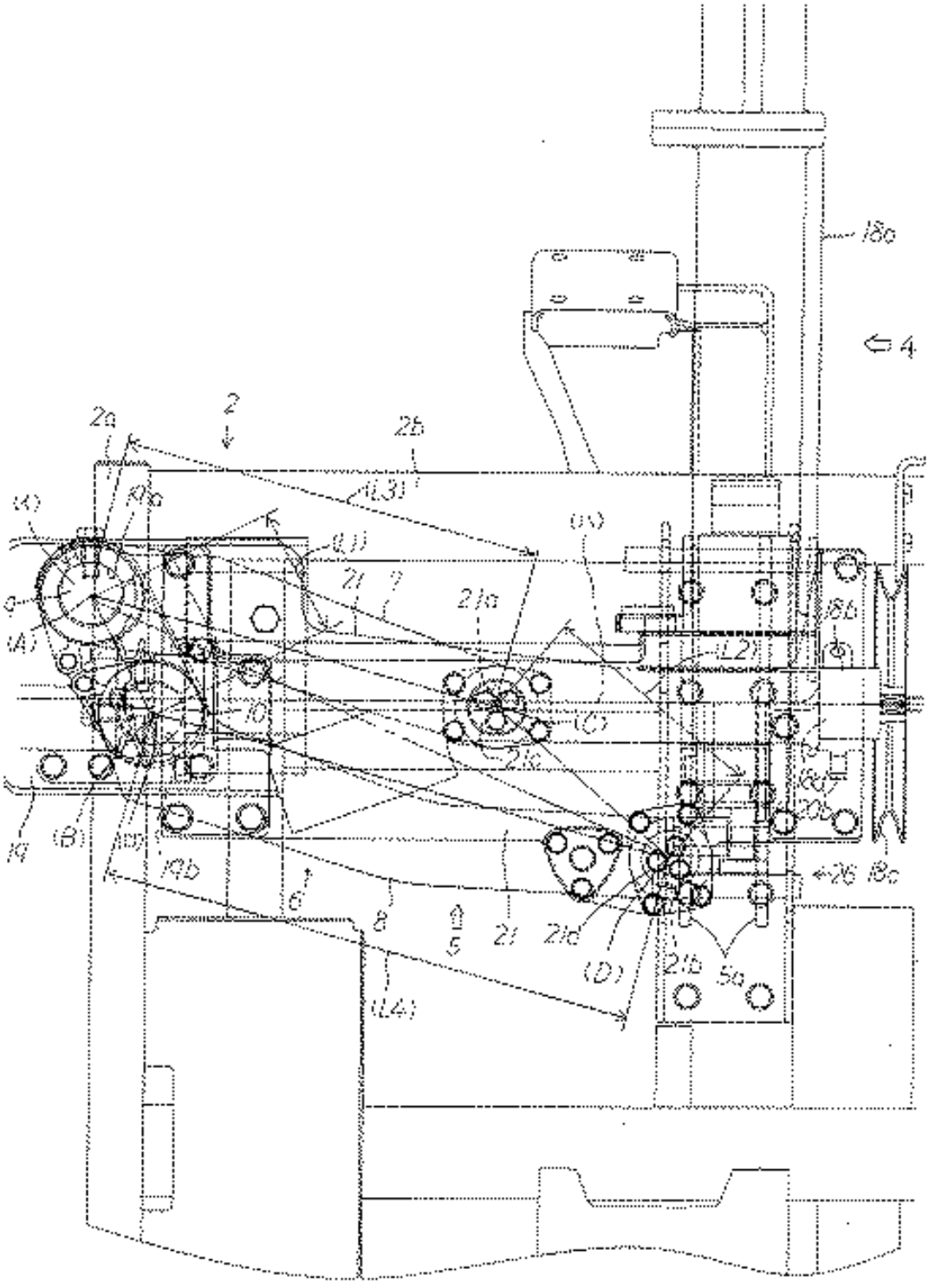
Family 233/667 - FAMPAT - ©Questel

Title

(JP2005073645)

Reaping part-turning mechanism in combine harvester

Images



Publication data including kind & date

JP2005073645	A	2005-03-24	JP2005073645
JP4310460	B2	2009-08-12	JP4310460

Abstract

(JP4310460)
PROBLEM TO BE SOLVED: To provide a reaping part-turning mechanism in a combine harvester that is constituted with a reaping machine for reaping culms and conveying the cut culms so that the reaping machine may be made easily turnable outward on the left side.
SOLUTION: The reaping machine 4 for reaping culms and conveying the cut culms is turned with a turning mechanism 5 comprising a four point link mechanism 6 and front/rear supporting frames 7, 8 toward outside on the left side.Then the supporting frame 8 is bent backward.On the turning movement, it is turned from the starting end of the feed chain of the reaping machine toward the left outside.An output pulley that is pivoted on a supporting pipe lever 18b for inputting motive power to the reaping machine 4 and a front sprocket of the feed chain are arranged so that they may be adjacent but does not come into contact.
COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

FUJITA YASUSHI
UEJI YOSHITAKA

Latest standardized assignees - inventors removed

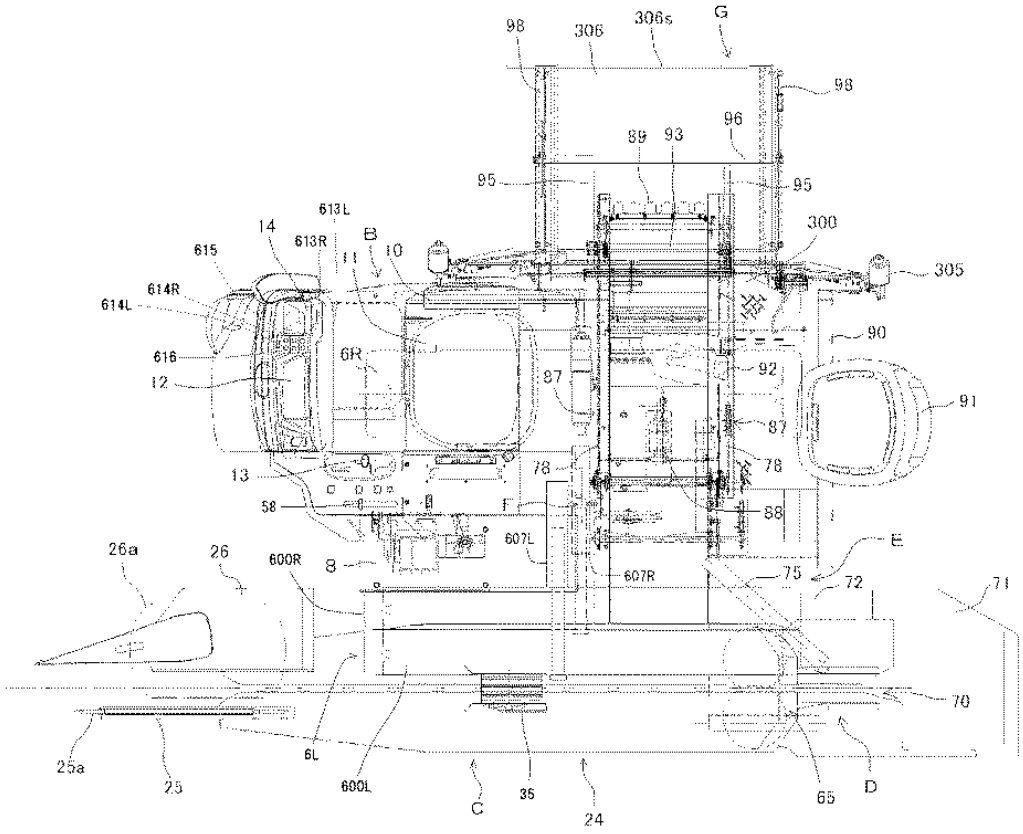
ISEKI AGRICULTURAL MACHINERY

Family 234/667 - FAMPAT - ©Questel

Title

(JP2017029059)
Root crop harvester

Images



Publication data including kind & date

JP2017029059	A	2017-02-09	JP2017029059

JP6337851 B2 2018-06-06 JP6337851

Abstract

(JP6337851)

PROBLEM TO BE SOLVED: To provide a root crop harvester capable of adjusting a tread even when a machine body stops travelling and being hard to disturb a turning trajectory even when a weight balance is deflected.SOLUTION: The root crop harvester includes: right/left travel devices 6R and 6L travelling in a field; a pull-out conveyance device 24 pulling out and harvesting a crop; a conveyance device 87 conveying the harvested crop to a storage container 97; and a storage support member 112 supporting the storage container 97.One of the right/left travel devices 6R and 6L is constituted of right/left division travel devices 600R and 600L.Vertical position change members 612 changing a vertical height of the right/left division travel devices 600R and 600L respectively are provided.Movement adjustment members 606R and 606L moving the right/let division travel devices 600R and 600L in a right/left direction respectively are provided.SELECTED DRAWING: Figure 2

Inventors

Masami Muramachi
TAKAGI SHINGO
Hideaki Kurose
YUMITATSU TAKESHI
Shinichi Matsuzabu

Latest standardized assignees - inventors removed

ISEKI

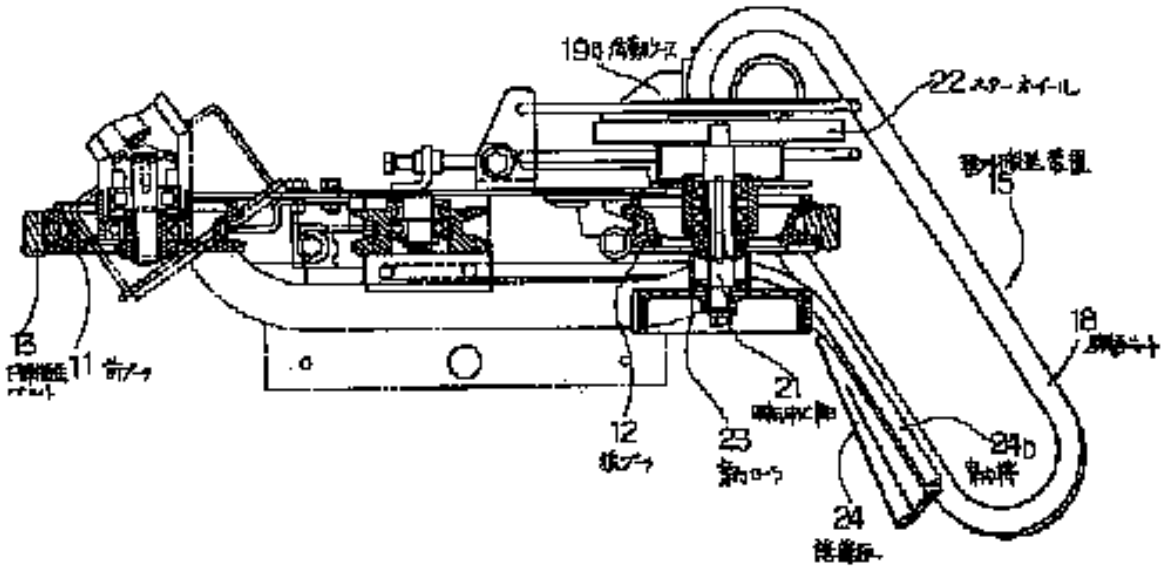
Family 235/667 - FAMPAT - ©Questel

Title

(JP11235112)

Root vegetable harvester

Images



Publication data including kind & date

JPH11235112	A	1999-08-31	JP11235112
JP3408414	B2	2003-05-19	JP3408414

Abstract

(JP3408414)

PROBLEM TO BE SOLVED: To provide a root vegetable harvester capable of digging up a root vegetable such as an onion or a Japanese radish from a field and harvesting the root vegetable and adapted to an operating system by composing an aligning and conveying device for aligning the root vegetable part of the harvest in one direction and releasing the aligned root vegetable part onto an farm surface so as to be freely detachable.SOLUTION: This harvester is obtained by installing a conveying device comprising a pair of endless belts capable of digging up a root vegetable grown

on a ridge surface and nipping and conveying the dug root vegetable to the rear and further composing an aligning and conveying device 15 for adjusting the releasing posture of the dug up root vegetable harvest and conveying the root vegetable harvest to the rear of the machine body so as to be freely detachable from the machine body.The aligning and conveying device 15 is preferably connected to the terminal end of the lower conveying device and a connecting part of a connecting case protruded from the device 15 is fitted and inserted into a lower conveying transmission case and screwed and secured thereto with a bolt.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUDA YUKIHIRO
WATANABE AKITO
IRIE NOBUYUKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

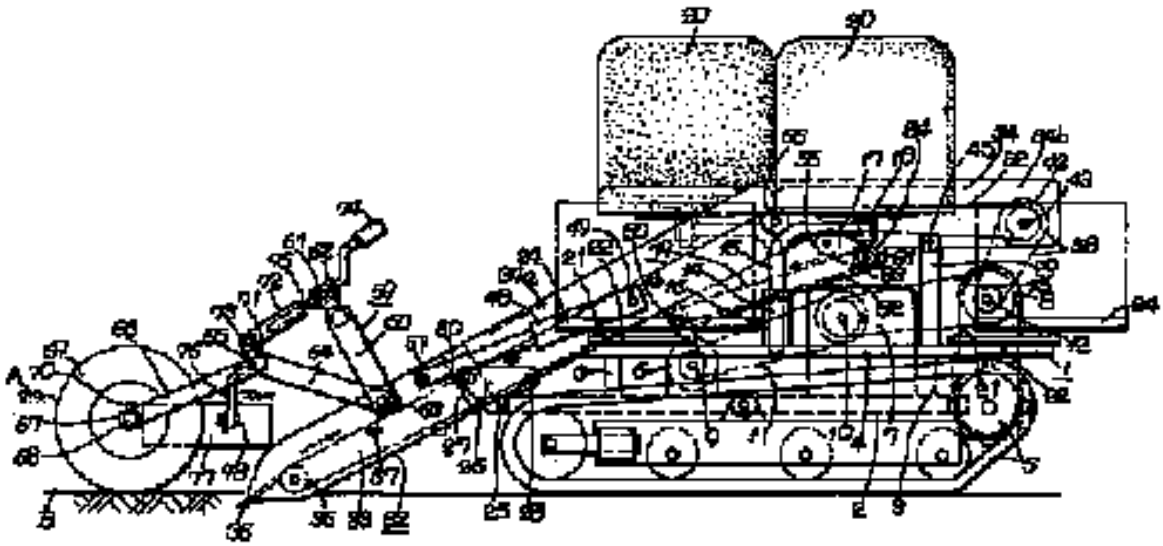
Family 236/667 - FAMPAT - ©Questel

Title

(JP06014629)

Harvester

Images



Publication data including kind & date

JPH0614629	A	1994-01-25	JP06014629
JP2860205	B2	1999-02-24	JP2860205

Abstract

(JP2860205)

PURPOSE:To provide a harvester ensuring a conveyor standingly rotated forward from above the harvester body to be supported, the danger of conveyor falling to be prevented, and securing the safety of the maintenance and inspection works for the equipment on the harvester body.CONSTITUTION:A revolving center shaft 27 is projected in the front of connecting fitments 26 set on the left and right parts of the front side of a harvester body 1, and a fitting part 28 is provided in the rear.Stays 29 are set vertically on the left and right parts of the rear side of the harvester body 1.A conveyor 32 bears

the first and second conveyor frames 33,34.The left and right parts of the rear end of the first conveyor frame 33 and the left and right parts of the front end of the second conveyor frame 34 are revolvably axially supported at the left and right revolving central shafts 27, respectively.The left and right parts of the rear side of the second conveyor frame 34 are detachably fitted to the left and right of the stays 29, respectively.The piston rod 50 of a hydraulic cylinder 48 axially fitted to the second conveyor frame 34 is optionally connected to the fitting part 39 of the first conveyor frame 33 or the fitting parts 28 of the connecting fitments 28.

Inventors

KAWAKAMI YOSHUKI

URANO YASUNORI

Latest standardized assignees - inventors removed

MATSUYAMA PLOW MFG

Family 237/667 - FAMPAT - ©Questel

Title

(US2834171)

Tractor mounted corn harvester

Images

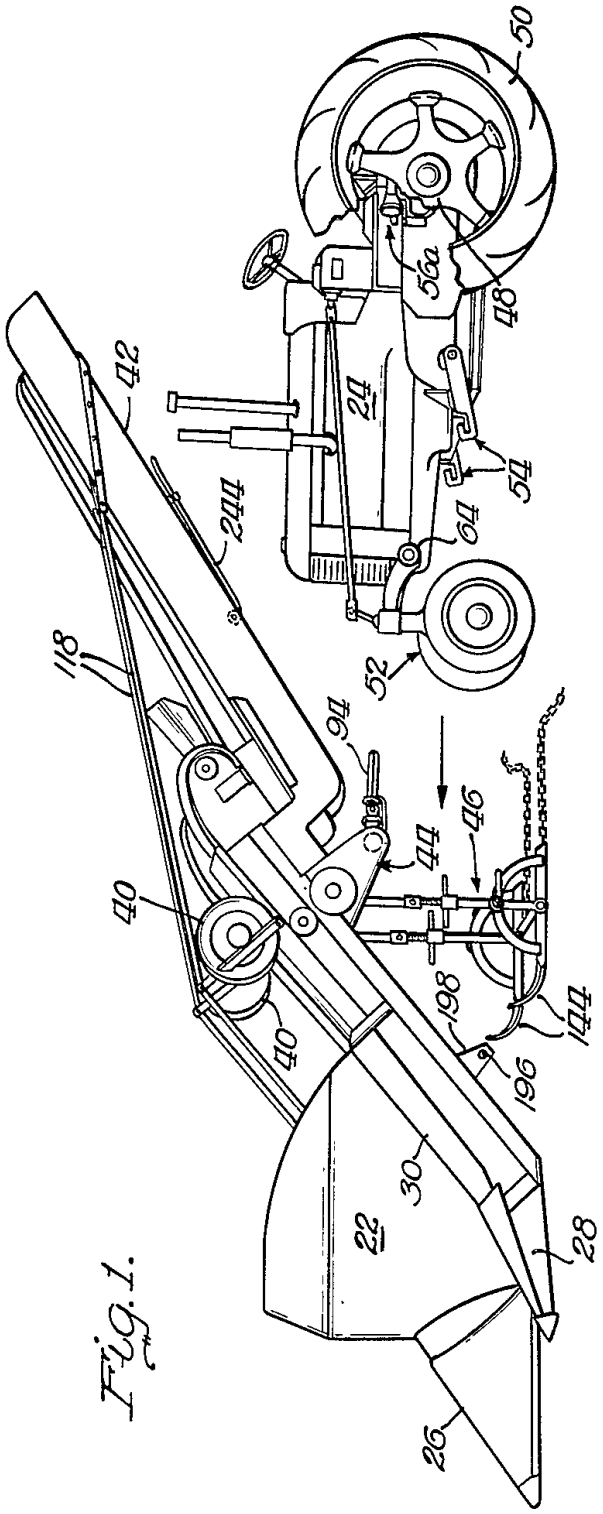


Fig. 1.

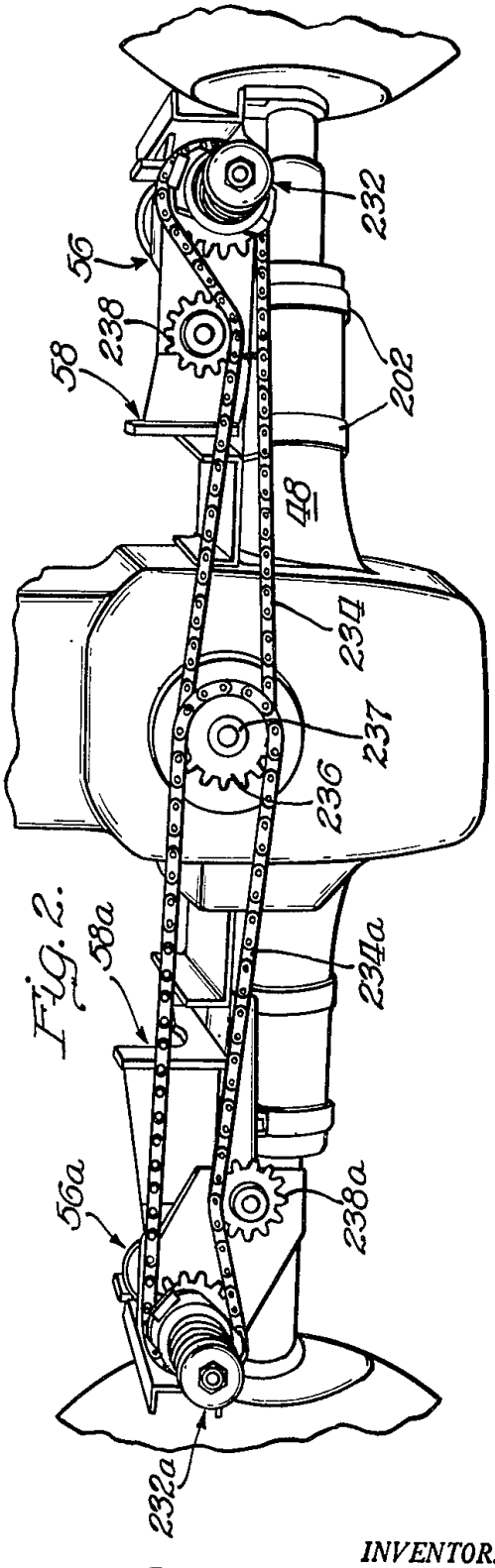


Fig. 2.

INVENTOR.
Homer B. Aber
BY
Soans, Glauster & Anderson
Attys

Publication data including kind & date

US2834171 A 1958-05-13 US2834171

Inventors

ABER HOMER B

Latest standardized assignees - inventors removed

CNH GLOBAL

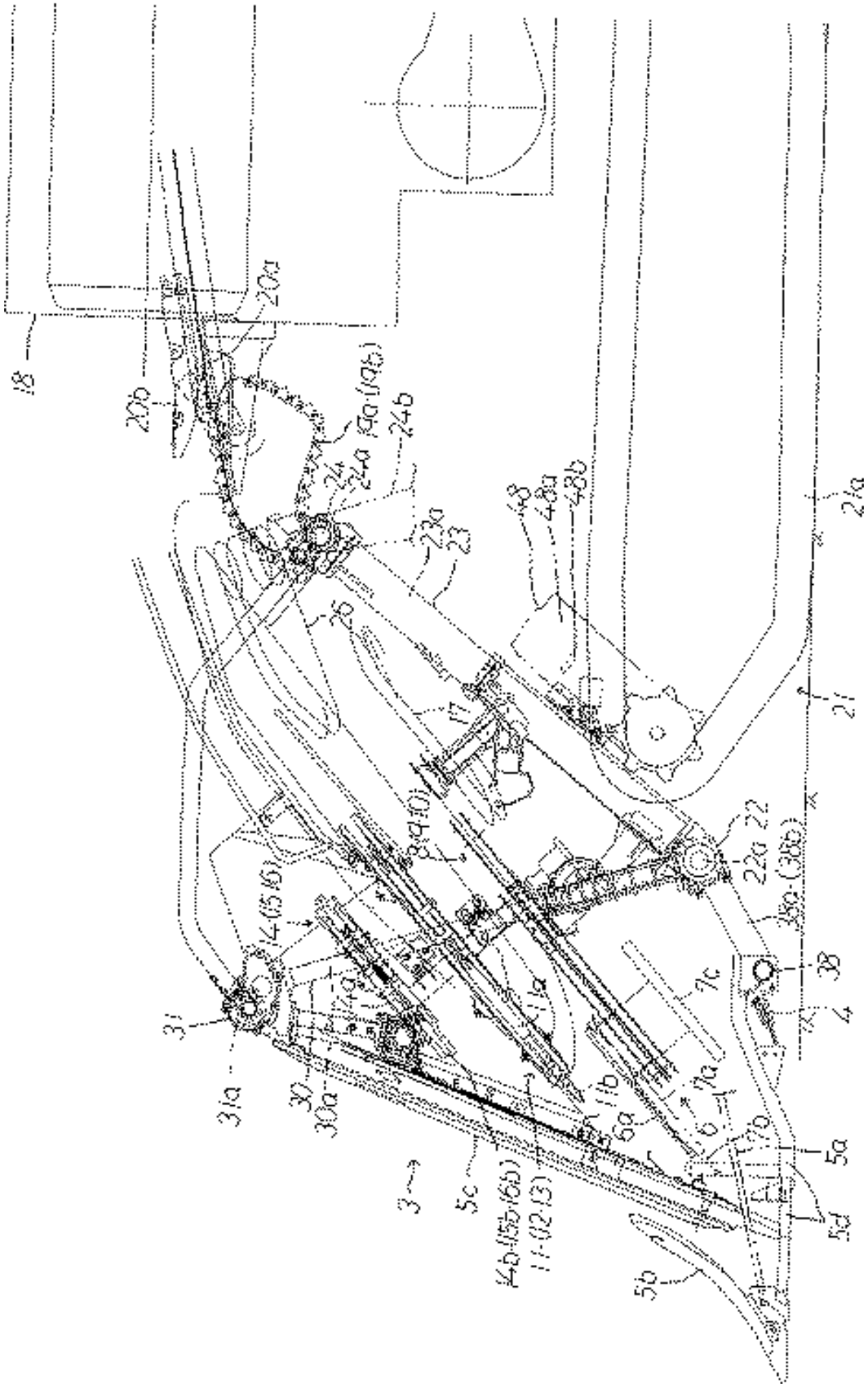
Family 238/667 - FAMPAT - ©Questel

Title

(JP2004201531)

Grain straw transport apparatus of combine harvester

Images



Publication data including kind & date

KR20040002444	A	2004-01-07	KR20040002444
JP2004024138	A	2004-01-29	JP2004024138

JP2004201531	A	2004-07-22	JP2004201531
KR100509695	B1	2005-08-26	KR100509695

Abstract

(JP2004201531)

PROBLEM TO BE SOLVED: To solve a problem that the transport of the ear portions of reaped grain straws on the right side is especially disordered, while the root portions of the grain straws reaped on the right side are transported with a right root portion-transport apparatus and the ear portions are transported with the right ear portion transport apparatus and the right upper ear portion transport apparatus.

SOLUTION: In the grain straw transport apparatus of the combine harvester, the root side portions of the reaped grain straws are transported with right, left and middle root portion transport apparatuses 8, 9, 10.The ear side portions of the reaped grain straws are transported with right, left and middle ear portion transport apparatuses 11, 12, 13 and right, left and middle upper ear portion transport apparatuses 14, 15, 16.The lateral transport angle of the right upper ear portion transport apparatus 15 is disposed at a place approaching the downstream side from the transport upstream side to the right ear portion transport apparatus 12.A chain guide is disposed on the non-transport side front portion of a right root portion transport chain 9a, and the guide rod of the chain guide and the metal support rod 7f of a raking apparatus 6 are integrally disposed and mounted on a right frame.

COPYRIGHT: (C)2004,JPO&NCIPI

Inventors

IIIZUMI KIYOSHI
AKEHI RIYUUJI
TAKAHASHI HAKURO
UCHIDA HIROYA
KITAGAWA TOMOSHI
KUSUME KOJI
MIYAKE TATSUYA

Latest standardized assignees - inventors removed

ISEKI NOUKI

Family 239/667 - FAMPAT - ©Questel

Title

(JP3260123)

Combine harvester

Publication data including kind & date

JPH11137063	A	1999-05-25	JP11137063
JP3260123	B2	2002-02-25	JP3260123

Abstract

(JP3260123)

PROBLEM TO BE SOLVED: To simplify a reaping transmission mechanism which transmits a power to a reaping unit capable of sliding crosswise to right and left.SOLUTION: A cereal stem-lifting member 18 which is connected to the front part of a traveling machine through a main reaping frame to be rocked up and down around a horizontal shaft in right and left direction and a cutting blade are constituted to be slidable crosswise in the right and left direction against the main reaping frame, while a reaping input shaft is arranged on the same shaft center as that of the horizontal shaft in the right and left direction, and a reaping transmission shaft 76 which transmits a power from the reaping input shaft to the lifting member 18 and the cutting blade is installed to be freely extensible and flexible.

Inventors

OKAZAKI MASAHARU
MUKUSHIRO HIROSHI
YABUKI MAKOTO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

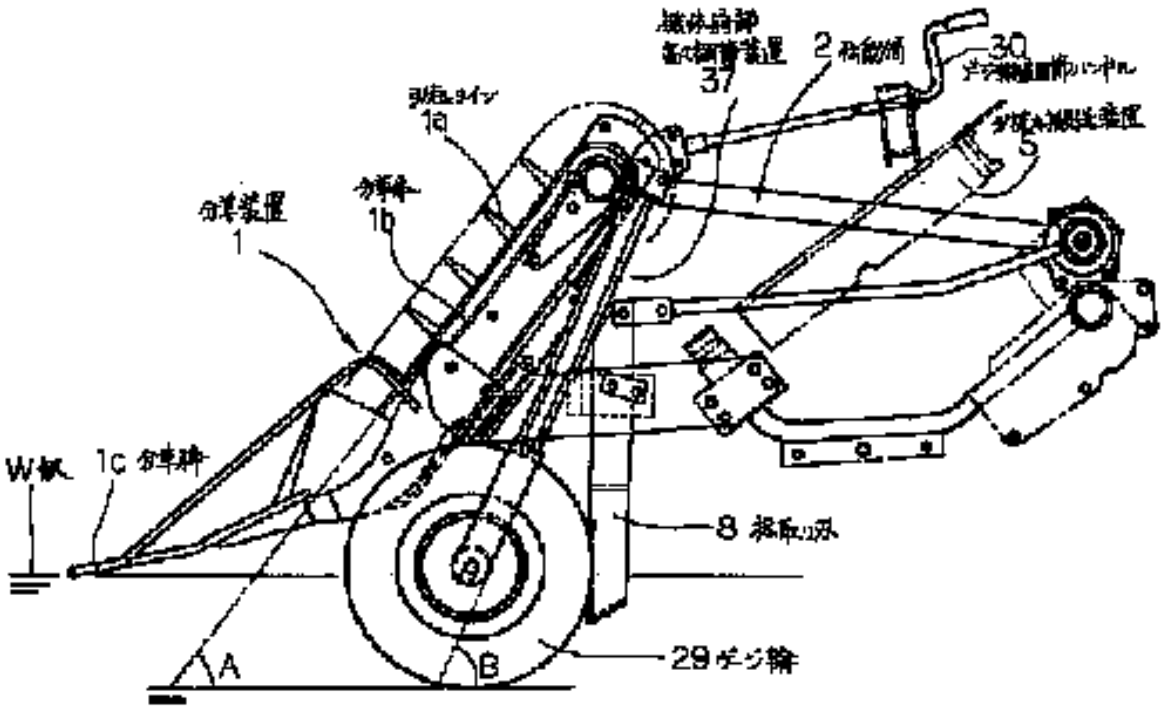
Family 240/667 - FAMPAT - ©Questel

Title

(JP11266643)

Height controller of front part of machine body in harvester

Images



Publication data including kind & date

JPH11266643 A 1999-10-05 JP11266643

Abstract

(JP11266643)

PROBLEM TO BE SOLVED: To obtain the subject device capable of more effectively exerting its function and not causing a trouble about a relative position to a related device such as a grass divider by making a tilting angle to a horizontal plane be a specific value.SOLUTION: This harvester for crops or a rhizome has a grass divider 1 scooping up, dividing and arranging crops or a foliage part of a rhizome vegetable and a controller 37 adjusting a height of a front part of a machine body such as the grass divider 1, and the height controller 37 is backwardly tilted to have a tilted angle to a horizontal plane larger than a tilted angle of the backwardly tilted grass divider 1.In the harvester for the crops or the rhizome, a stretching direction of the height controller 37 is preferably constructed in opposing to the vicinity of the upper end of the grass divider 1.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUDA YUKIHIRO
WATANABE AKITO
IRIE NOBUYUKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

Family 241/667 - FAMPAT - ©Questel

Title

(EP2022314)

Transfer device for a chuff cutter

Images

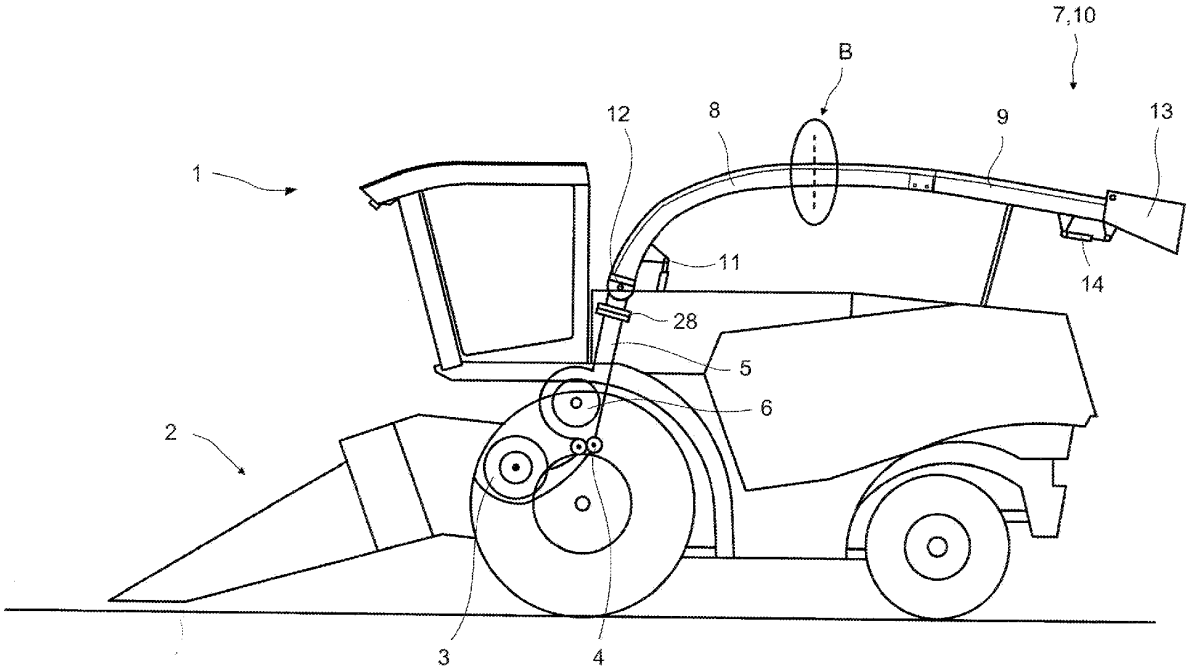


Fig. 1

Publication data including kind & date

EP2022314	A2	2009-02-11	EP2022314
DE102007037710	A1	2009-02-12	DE102007037710
RU2008132428	A	2010-02-20	RU2008132428
EP2022314	A3	2012-03-21	EP2022314
RU2486739	C2	2013-07-10	RU2486739
EP2022314	B1	2017-02-22	EP2022314

Abstract

(EP2022314)

The device (10) has front and rear segments (8, 9) connected with each other for varying conveyance length for an agricultural harvester i.e. field chopper (1).The segments are formed from one-piece U-shaped base bodies (15, 16) comprising a cover-free region.The segments are connected in an overlapping manner in an overlapping region (27) with respect to a flow direction of harvest e.g. grass, in a projection-free manner, where the fixation of the overlapping regions of the two segments takes place outside of the harvest flow.

Inventors

TILLY THOMAS
ISFORT HEINRICH
LANDWEHR KARL-HEINZ

Latest standardized assignees - inventors removed

CLAAS SAULGAU

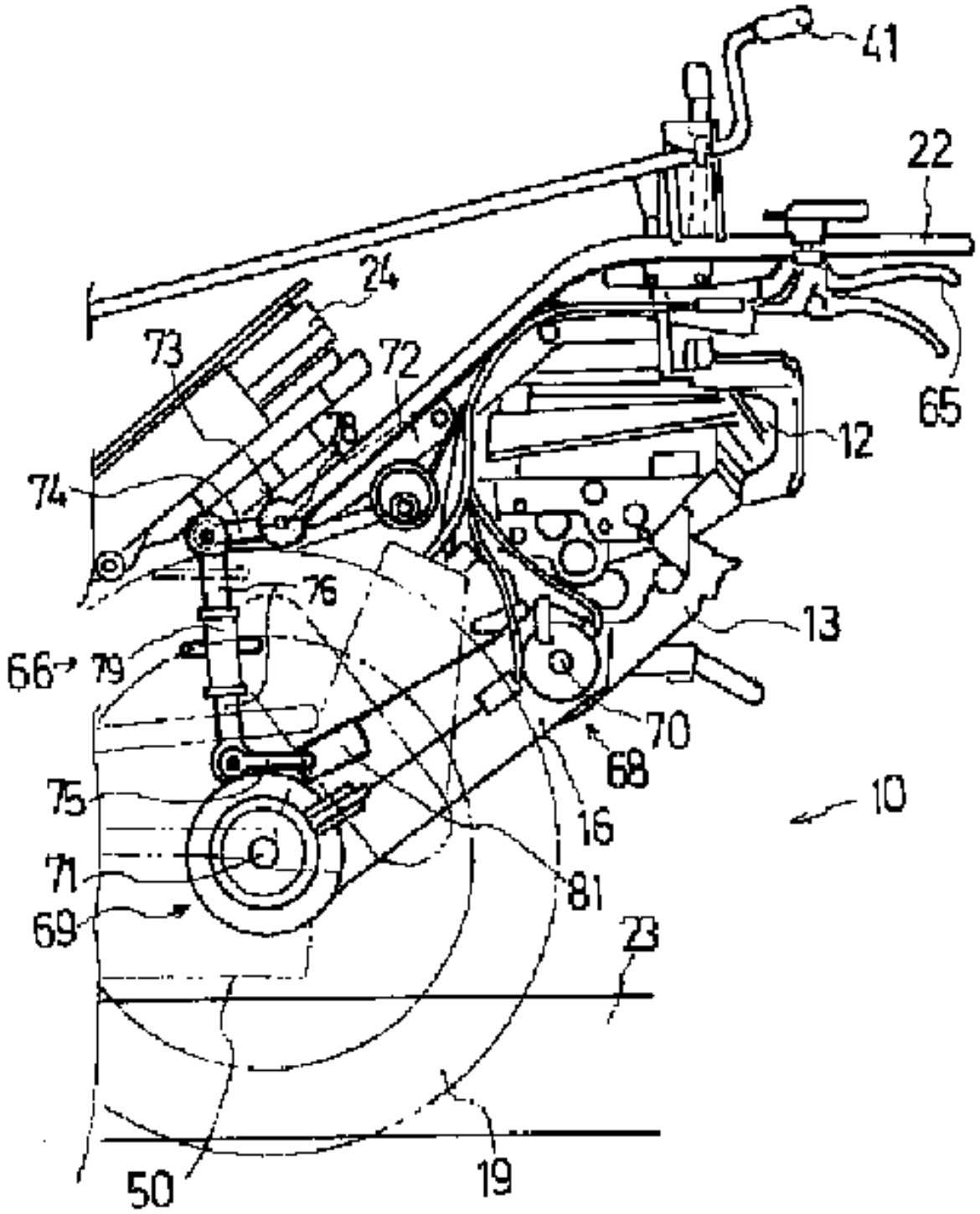
Family 242/667 - FAMPAT - ©Questel

Title

(JP11289837)

Vegetable harvester

Images



Publication data including kind & date

JPH11289837 A 1999-10-26 JP11289837

Abstract

(JP11289837)

PROBLEM TO BE SOLVED: To provide a vegetable harvester capable of holding a proper work posture responding to the height of a ridge by a simple operation and capable of easily corresponding to the fine changes of the height of the ridge.SOLUTION: A chain case 16 rotated on the change in the height of the vegetable harvester is connected to a steering handle 22 through links 74, 75, 76 for the automatic height control of the steering handle 22.A harvester height- controlling device comprising the second lock device 69 for fixing the lower portion of the chain case 16 to a driving wheel 19 and the first lock device 68 for enabling the rotation of the upper portion of the chain case 16 by the rotation force of the driving

wheel 19 is disposed for the rapid control of the harvester height.

Inventors

TERAMOTO SEIJI

MATSUI MIKIO

FUKUDA YUKIHIRO

WATANABE AKITO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

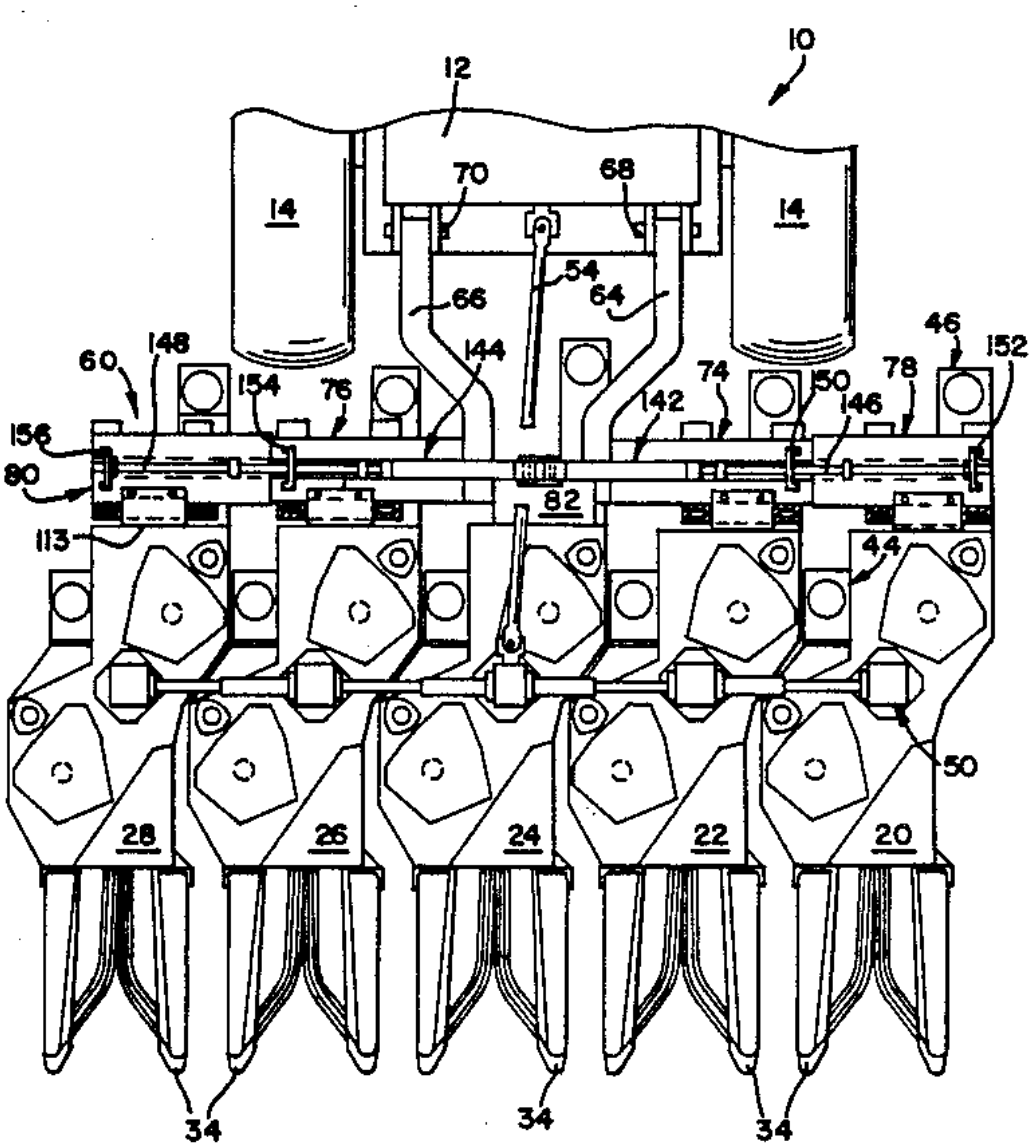
Family 243/667 - FAMPAT - ©Questel

Title

(US5010718)

System for mounting and supporting harvesting units of a cotton harvester

Images



Publication data including kind & date

US4922695	A	1990-05-08	US4922695
US5010718	A	1991-04-30	US5010718

Abstract

(US5010718)

A system for mounting and supporting harvesting units on a forward end of a cotton harvester frame to allow them to be

slidably moved relative to each other and laterally along an elongated tool bar structure.The tool bar structure is pivotally connected to the cotton harvester frame by a lift assembly.The harvesting units hang in a cantilevered fashion from and are independently connected at their rearward edges to the tool bar structure by a slide support structure which facilitates visibility of the harvesting units from a cab region of the harvester.The slide support structure maintains a non-rotatable and non-point contact relationship with laterally elongated generally flat support surfaces defined between opposite ends of the tool bar structure whereby substantial surface area contact is provided between each side support structure and the support surfaces on the tool bar structure.To facilitate numerous combinations of row spacings and harvesting capacities, the tool bar structure is preferably comprised of modular units which are connected together in axially aligned relation and includes a pivotal extension provided at either or both ends of the tool bar structure.When axially aligned with the tool bar structure, the pivotal extension provides coextensive elongation of the support surfaces on the tool bar structure.An operator-controlled driver mechanism is preferably provided to facilitate precise positioning of the harvesting units relative to each other and along the support surfaces of the tool bar structure.

Inventors

COVINGTON MICHAEL J

ORSBORN JESSE H

Latest standardized assignees - inventors removed

CNH GLOBAL

BLUE LEAF IP

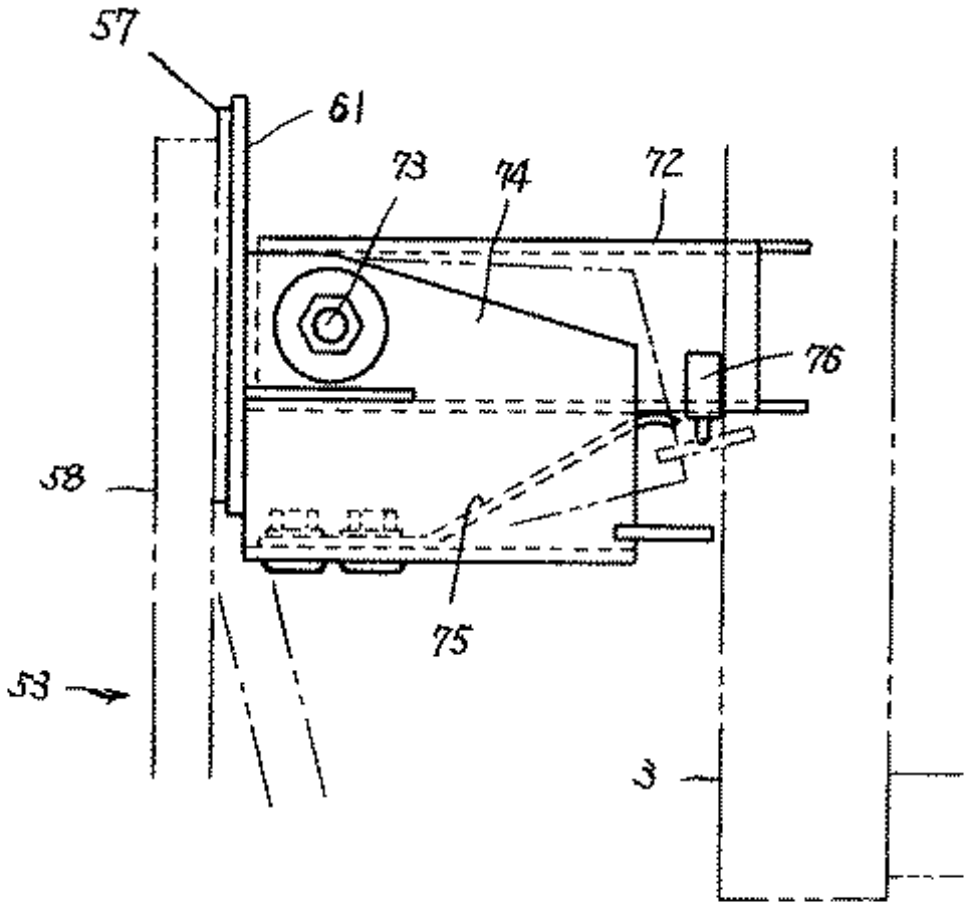
Family 244/667 - FAMPAT - ©Questel

Title

(JP09298935)

Grass-dividing device of combine harvester

Images



Publication data including kind & date

JPH09298935	A	1997-11-25	JP09298935
JP3641071	B2	2005-04-20	JP3641071

Abstract

(JP3641071)

PROBLEM TO BE SOLVED: To provide a grass-dividing device not causing curved deformation of a supporting lever even

when a grass-dividing lever is applied to levee, etc.SOLUTION: This grass-dividing device of a combine harvester is constituted so that a supporting lever 53 is longitudinally rotatably supported to a machine body and an elastic body 75 longitudinally rotates a supporting lever 53 by elastically deforming.The grass-dividing device is equipped with a detecting means 76 for detecting that a rotating supporting part of the supporting lever 53 rotates at abnormal angle and a traveling stopping means operated in detection of abnormal angle and further an alarm means operated in detection of abnormal angle.

Inventors

KOIKE KUMIO

SHIMADA KOJIRO

MIKI TERUMASA

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

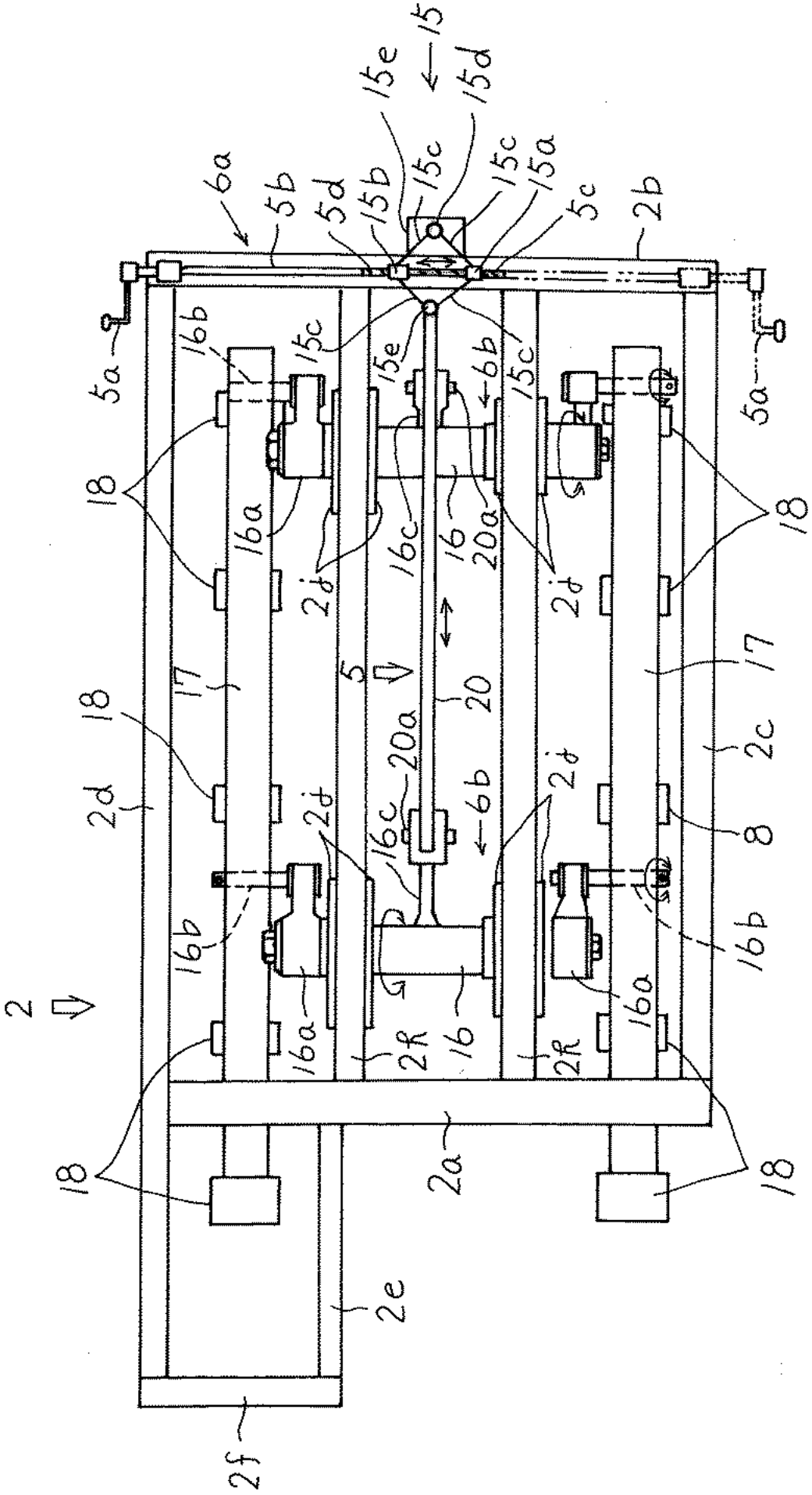
Family 245/667 - FAMPAT - ©Questel

Title

(JP2005087154)

Traveling machine body lifting and lowering system for combine harvester

Images


15
15e
15d
15c
15c
15a
5c
2b
6a
5b
5d
15b
5a
5a
16b
15c
15e
6b
15c
18
16a
16c
16
20a
2j
2j
18
17
5
20
17
18
20a
2c
2d
2j
16c
6b
2j
8
16b
16b
2
16a
16
16a
2R
2R
18
2a
18
2e
2f

Publication data including kind & date

JP2005087154 A 2005-04-07 JP2005087154

Abstract

(JP2005087154)

PROBLEM TO BE SOLVED: To provide a traveling machine body-lifting and lowering system for a combine harvester that permits the simplified operation and simplified structure of an operation handle of a lifting and lowering means for lifting and lowering an undercarriage of the traveling machine body.

SOLUTION: In the combine harvester having a pair of running crawlers 3a on the underside of the undercarriage 2 of the traveling machine body, a culm cutter 4 for cutting and transferring culms in the front of and on the upper side of the undercarriage 2, a thresher 7 threshing the harvested culms supplied from the culm cutter 4 and a grain storage tank 9 for receiving the threshed grains and storing the received grains, the operation handle 5a of the lifting and lowering means 5 for lifting and lowering the undercarriage 2 of the traveling machine is set on the right side of the undercarriage 2 of the traveling machine body.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

SATOJI HISAYUKI

IWAMOTO HIROSHI

NAGAI TOSHIRO

OKUMOTO KOJI

SAKAMOTO NORIYUKI

SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

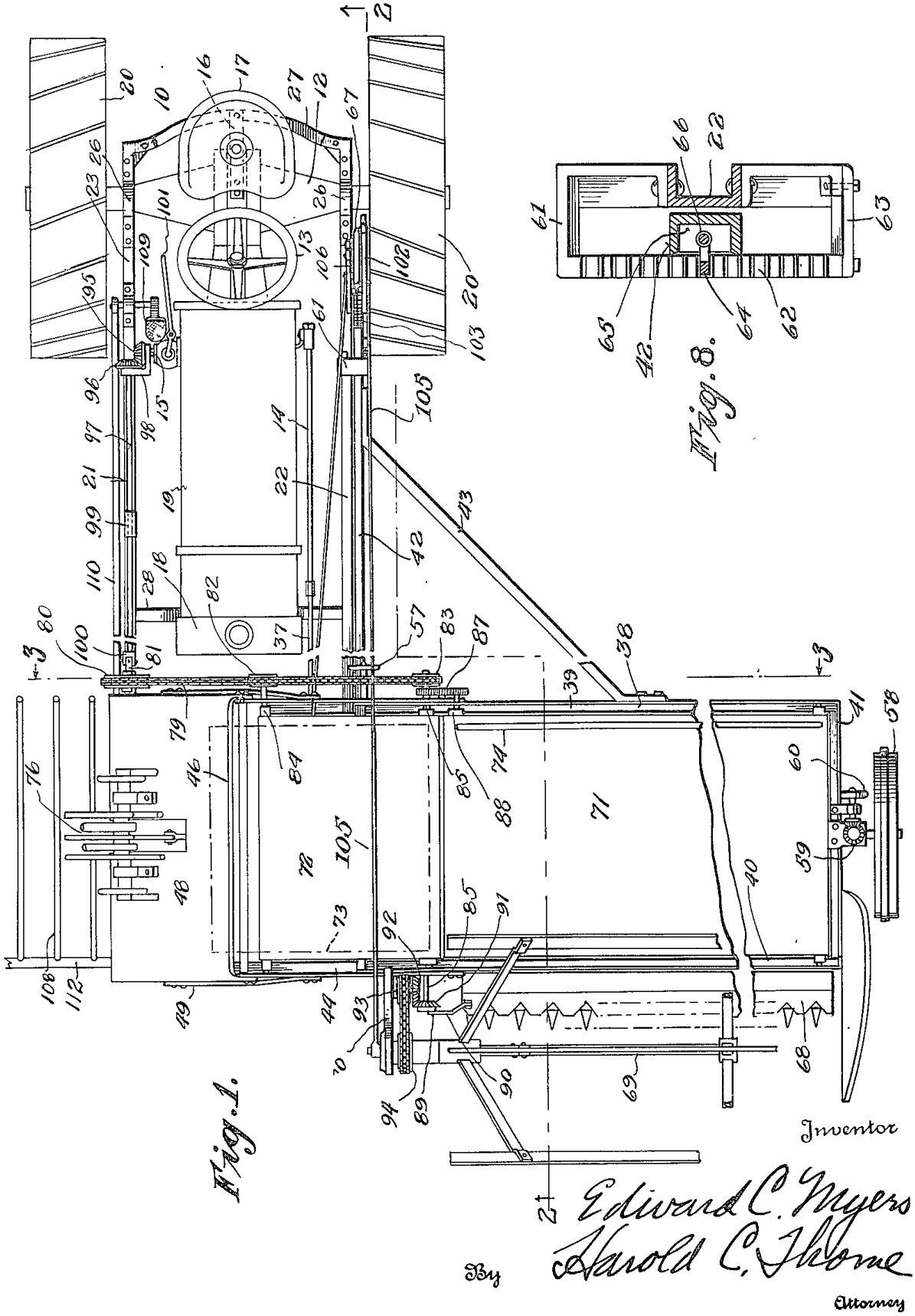
Family 246/667 - FAMPAT - ©Questel

Title

(US1466098)

Harvester

Images



Publication data including kind & date

US1466098 A 1923-08-28 US1466098

Inventors

MYERS EDWARD C

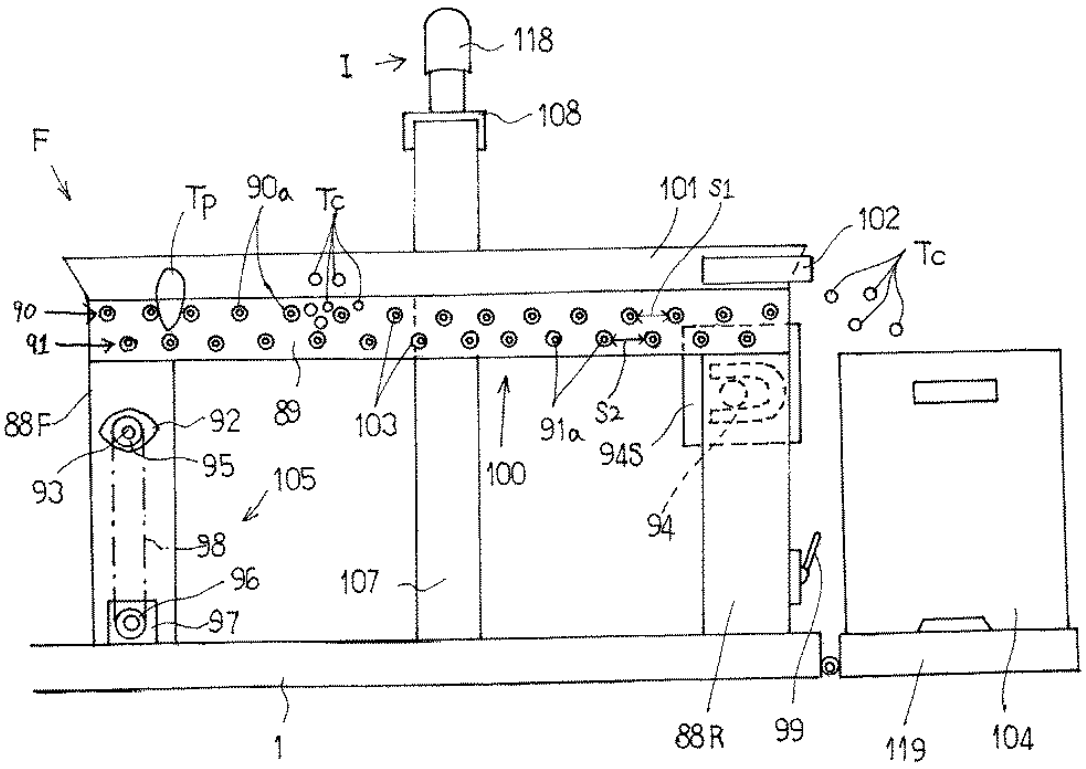
Family 247/667 - FAMPAT - ©Questel

Title

(JP2009171902)

Crop separating harvester

Images



Publication data including kind & date

JP2009171902 A 2009-08-06 JP2009171902

Abstract

(JP2009171902)

PROBLEM TO BE SOLVED: To provide a crop separating harvester that efficiently and automatically separates harvested crops into parent crops and child crops and carries out a high-precision selection operation.

SOLUTION: In the crop separating harvester equipped with a control part C for controlling a machine body, a travel apparatus B traveling in a field, a digging and conveying apparatus D for digging and conveying crops T from the field, a first separating apparatus E for separating the crops T being conveyed by the digging and conveying apparatus D, a second separating apparatus G which is arranged behind the control part C and separates the crops T not separated by the first separating apparatus E and a selecting and conveying apparatus F for receiving the crops T separated by the first separating apparatus and selecting and conveying them, the crop separating apparatus is equipped with an upper part selecting member 90 which is arranged at the upper part of the selecting and conveying apparatus F and has a fall space S1 of admixtures such as mud etc., and a lower part selecting member 91 which is arranged at the lower part of the selecting and conveying apparatus and has a fall space S2 in a state in which the fall spaces S1 and S2 are shifted in the longitudinal direction.The crop separating harvester is equipped with a shaking apparatus 105 for shaking the selecting and conveying apparatus F.

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

ODAGIRI HAJIME

TAKAGI SHINGO

IWABE TAKAAKI

IIIZUMI KIYOSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

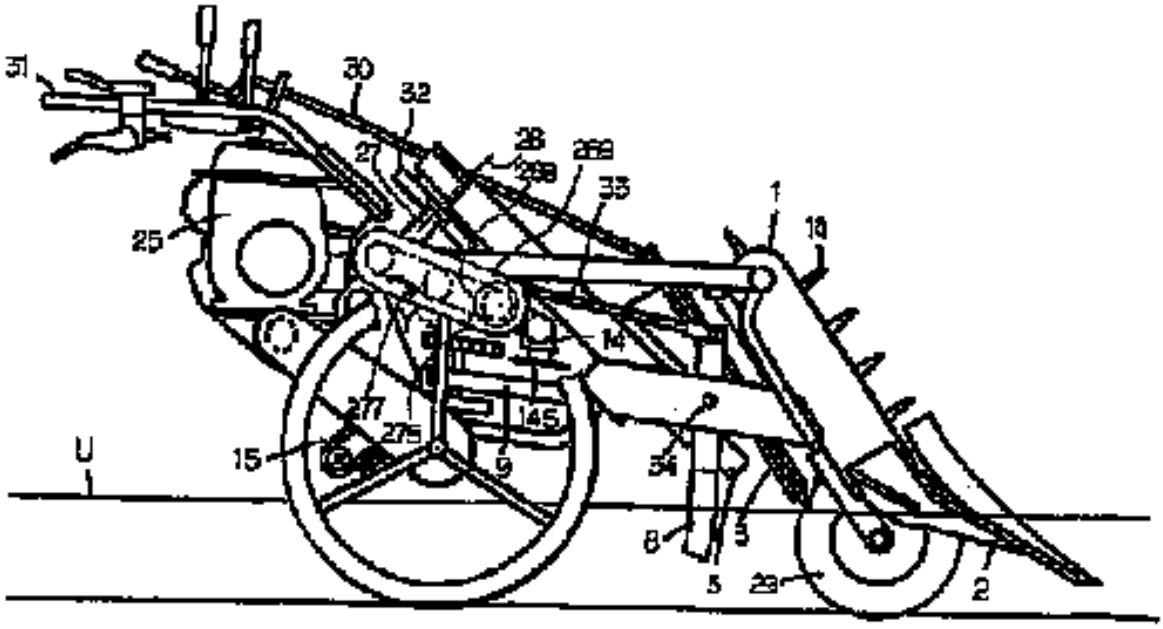
Family 248/667 - FAMPAT - ©Questel

Title

(JP11089369)

Rhizome harvester

Images



Publication data including kind & date

JPH1189369 A 1999-04-06 JP11089369

Abstract

(JP11089369)

PROBLEM TO BE SOLVED: To provide the subject harvester, designed to prevent an excessive load beyond a certain level from being applied to a power-transmission system for its cutter.SOLUTION: This harvester pulls rhizomic crops out of a levee U between fields while it is running, and cuts the leaves and stems by a cutter 14 driven by an engine 25, wherein a torque limiter 283 is provided in a power- transmission system 275 which couples the engine 25 with the cutter 14.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUDA YUKIHIRO
WATANABE AKITO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

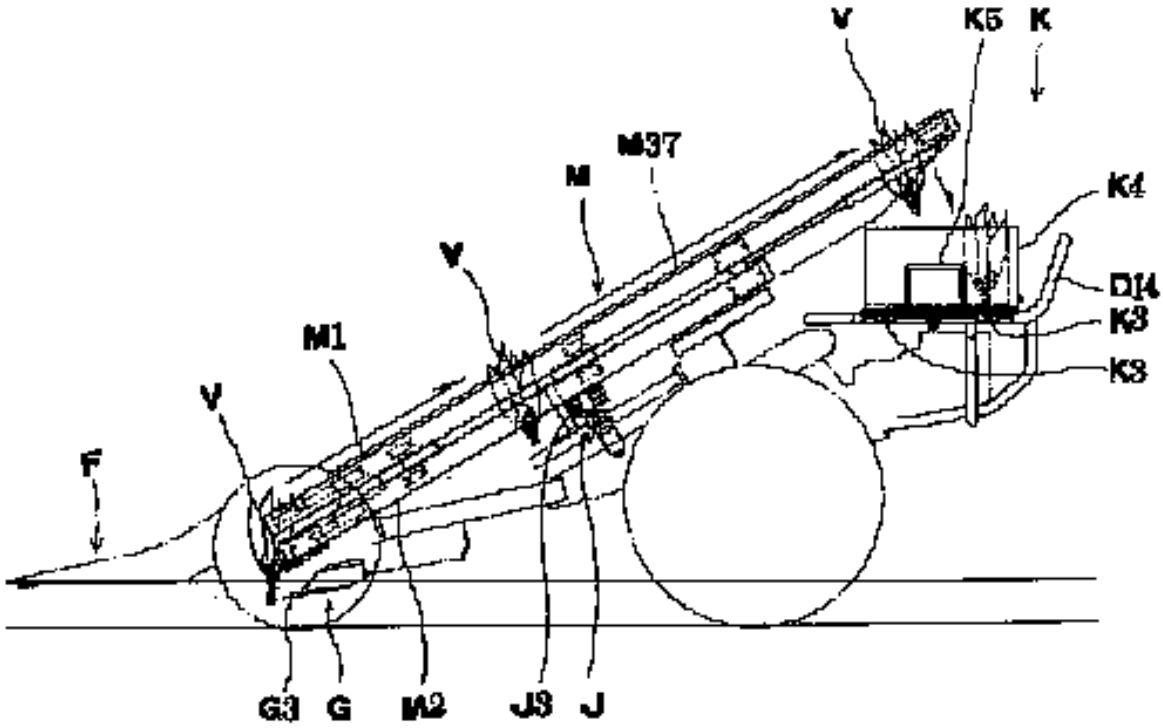
Family 249/667 - FAMPAT - ©Questel

Title

(JP09308353)

Leaf vegetable harvester

Images



Publication data including kind & date

JPH09308353 A 1997-12-02 JP09308353

Abstract

(JP09308353)

PROBLEM TO BE SOLVED: To provide a leaf vegetable harvester capable of surely plucking various leaf vegetables having different thicknesses without damaging them, improving a working efficiency and useful for harvesting a spinach, etc., by making the height above the ground of up and down conveyers in left and right freely adjustable as one unit.SOLUTION: This leaf vegetable harvester is obtained by supporting a functional part with a traveling part capable of self-traveling, and constituted by arranging in an order from front direction, a weed separating part F for guiding leaf vegetables V planted in a field, a root cutting part G for cutting the roots of the vegetables V, a conveying part tilting as low

in front and high in rear, for plucking the leaf vegetables V of which root parts are cut by the root cutting part G from the field and conveying the same to the rear direction, and a housing part K housing the leaf vegetables conveyed by the conveying part, constituting the conveying part with a left and right pair of up and down conveyors M1, M2 made from a soft material capable of nipping the leaf vegetables V from both left and right sides, and also making the up and down conveyers in left and right M1, M2 freely adjustable as one unit or each individually.Further, the rear end of the conveyer M1 is preferably extended further from the rear end of the conveyer M2.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUDA YUKIHIRO
IRIE NOBUYUKI
TOMOTSUGI HITOSHI

Latest standardized assignees - inventors removed

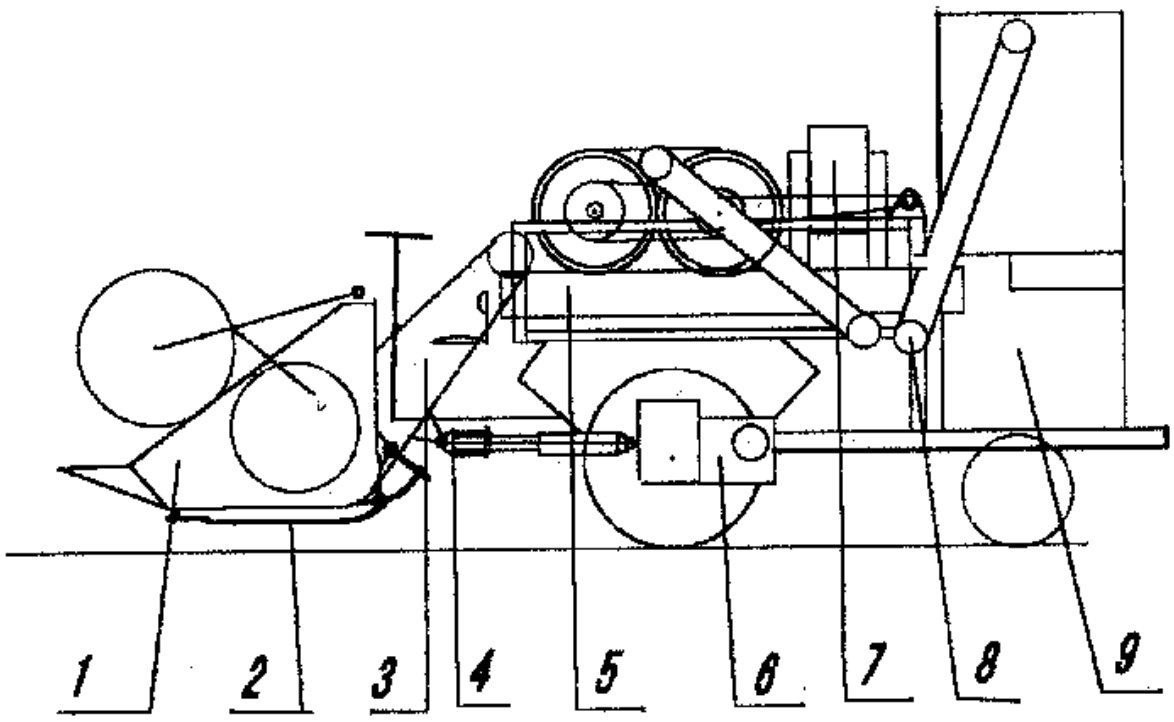
SEIREI INDUSTRY

Family 250/667 - FAMPAT - ©Questel

Title

(CN2523186U)
Small grain combine harvester

Images



Publication data including kind & date

CN2523186 Y 2002-12-04 CN2523186U

Abstract

(CN2523186U)

The utility model relates to a combine harvester for small-scale grain, which comprises a cutting table, a tilt feeding chamber, threshing rollers and a refining mechanism.The utility model is characterized in that the cutting table is arranged at the front of a tractor in a floating and flat way; the lifting and falling of the cutting table depends on expanding and contracting of an oil cylinder arranged at the lower end of the tilt feeding chamber; the expanding and contracting oil cylinder is connected with the cutting table through a stretching support and a pressure spring; the tilt feeding chamber is provided with a shell body, a feeding chain harrow and a chain wheel; the threshing rollers are provided with a first roller and a second roller, two cylinders are respectively arranged in each roller chamber; the two roller chambers are

communicated with each other at the ends of the same direction; the refining mechanism is provided with a large vibration sieve and an inspiration fan; the large vibration fan is positioned below the threshing mechanism and is articulated on a harvester frame; the inspiration fan is positioned above the large vibration sieve.The combine harvester has good threshing performance, compact structure and low production cost and large feeding quantity, reduces grain entrainment lose and threshing lose and is applicable for various grains.

Inventors

CHI SHUTING

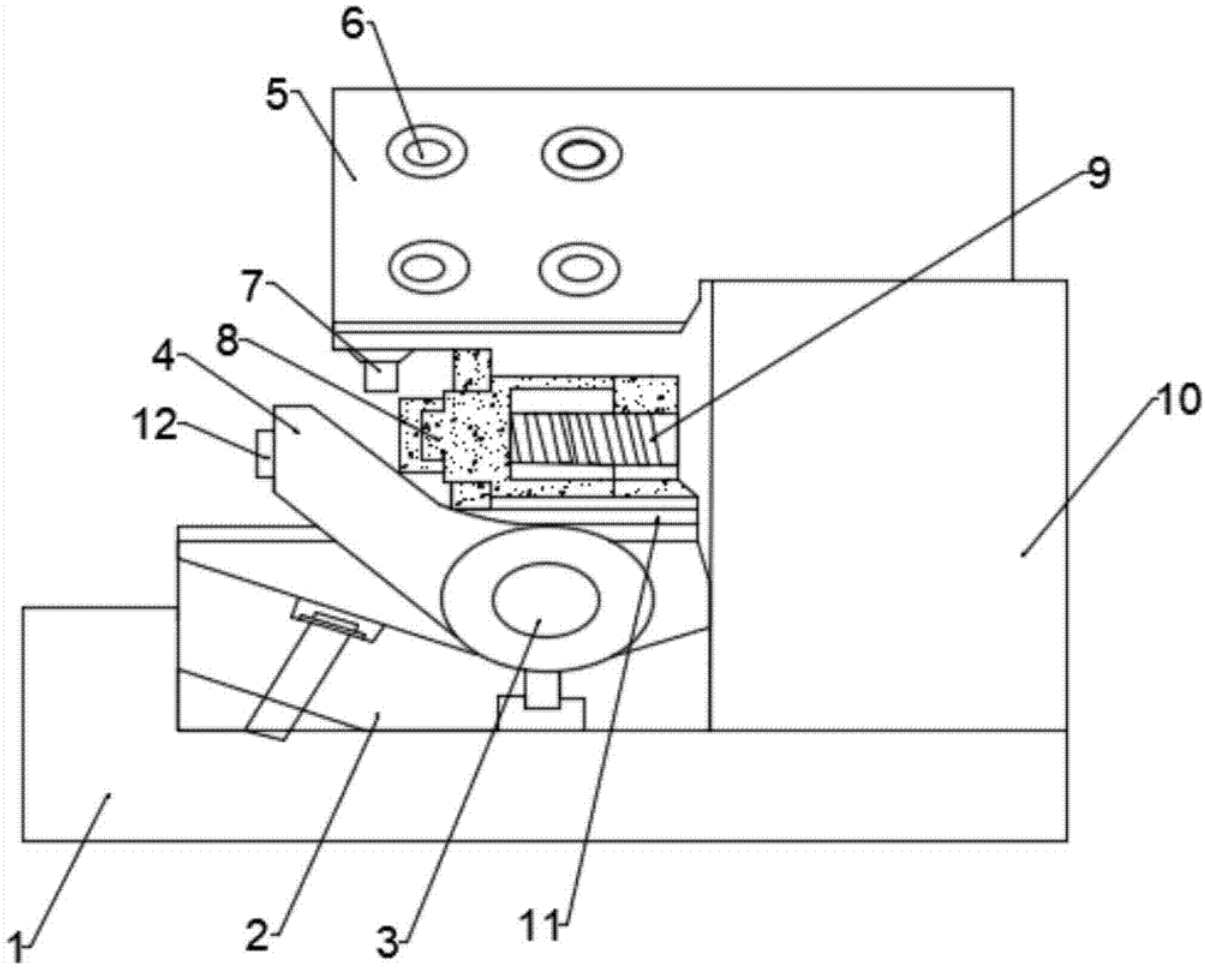
Family 251/667 - FAMPAT - ©Questel

Title

(CN107548682)

Upper and lower cutting tool limit mechanism for combine harvester

Images



Publication data including kind & date

CN107548682 A 2018-01-09 CN107548682

Abstract

(CN107548682)

The invention discloses an upper and lower cutting tool limit mechanism of a combine harvester.The limit mechanism includes a fixed seat and a cutter head limit mechanism, a check block locating assembly is fixedly arranged on the upper surface of the fixed seat, a hollow rotating shaft is inlaid in the inner surface of the check block locating assembly, and the cutter head limit mechanism is arranged on the outer surface of the hollow rotating shaft; the cutter head limit mechanism passes through the upper surface of the check block locating assembly, an elastic plate is also arranged at theright end of the cutter head limit mechanism, the right end of the elastic plate is connected with a fixed protection cover, the bottom part of the fixed protection cover is arranged on the upper right end of the check block locating assembly, and the left side face of the fixed protection cover is connected with a sliding slide block through combination springs.The whole mechanism solves the problem that ordinary combine machines cannot carry out position limit at the cutter edge, the blade position on

the cutter head limit mechanism can be adjusted through a movable seat according to needs, so that the cutting material is more orderly, scrap foams can be discharged through a discharge mouth, and abrasion of parts at the cutter edge is reduced.

Inventors

SHENG TIEBIAO

QI PENG

Latest standardized assignees - inventors removed

ANHUI POLYMERIZATION AUTOMATION ENGINEERING

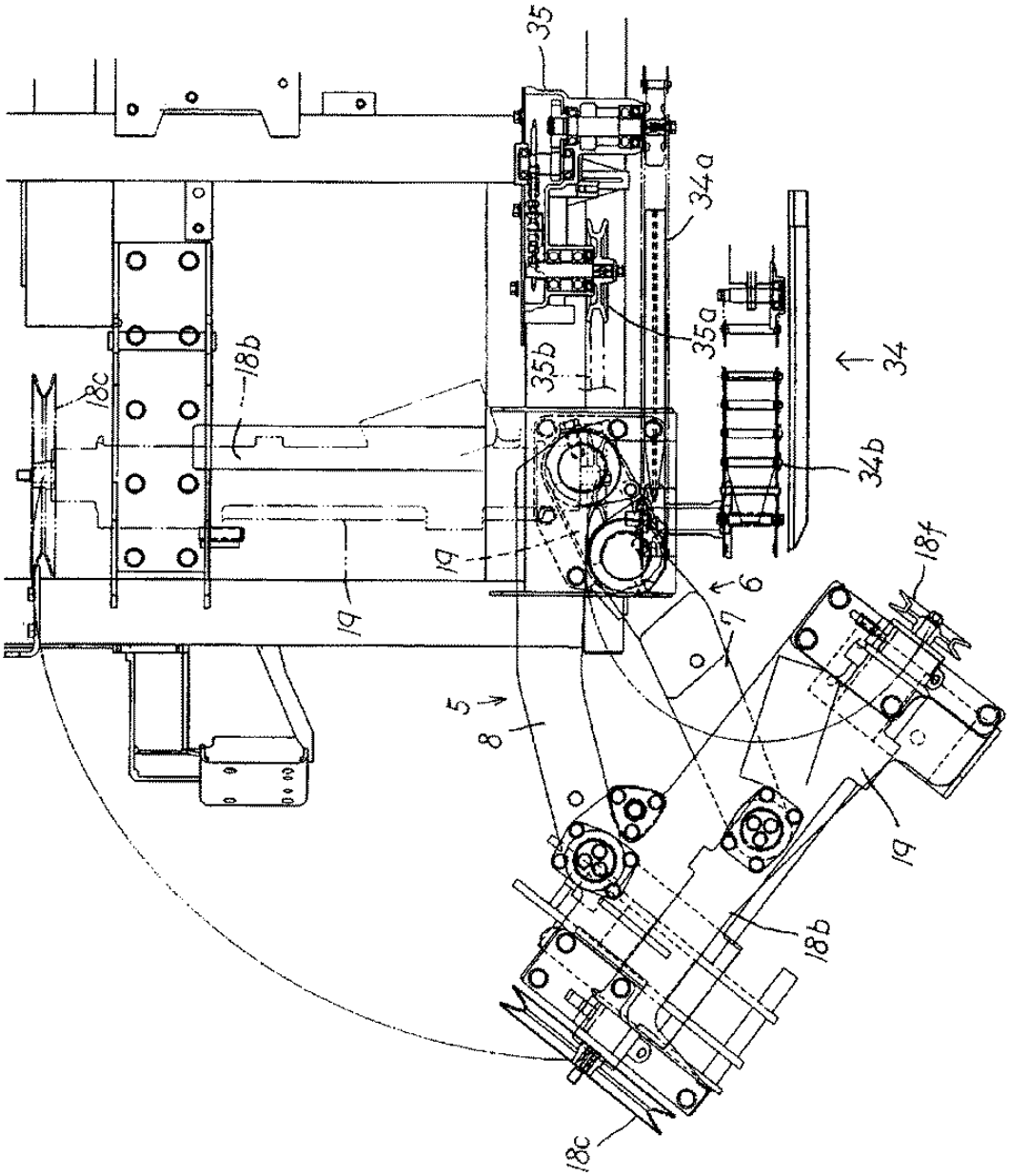
Family 252/667 - FAMPAT - ©Questel

Title

(JP2009022297)

Combine harvester

Images



Publication data including kind & date

JP2009022297	A	2009-02-05	JP2009022297
JP4623194	B2	2011-02-02	JP4623194

Abstract

(JP4623194)

PROBLEM TO BE SOLVED: To provide a combine harvester provided with a reaping machine which is set as outward laterally turnable while remaining an inner auxiliary conveying chain on undercarriage side, and allowing maintenance of the reaping machine, transmission case and engine on the lower side of the reaping machine by the turning of the reaping machine.

SOLUTION: The inner auxiliary conveying chain (34a) is installed on the front side of a threshing machine (11), a reaping input pulley (18c) is mounted on one end of a transmission mechanism (18d) installed inside of a supporting pipe (18b) which is a lifting fulcrum of the reaping machine, to input rotating force of the engine (23), and constituted to input driving force from the other end of the transmission mechanism (18d) to the auxiliary gear case (35) and driving the inner auxiliary conveying chain (34a) from the auxiliary gear case (35), and arranged the inner auxiliary conveying chain (34a) to remain on the undercarriage (2) side in outward lateral turning the reaping machine (4).

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

FUJITA YASUSHI

UEJI YOSHITAKA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

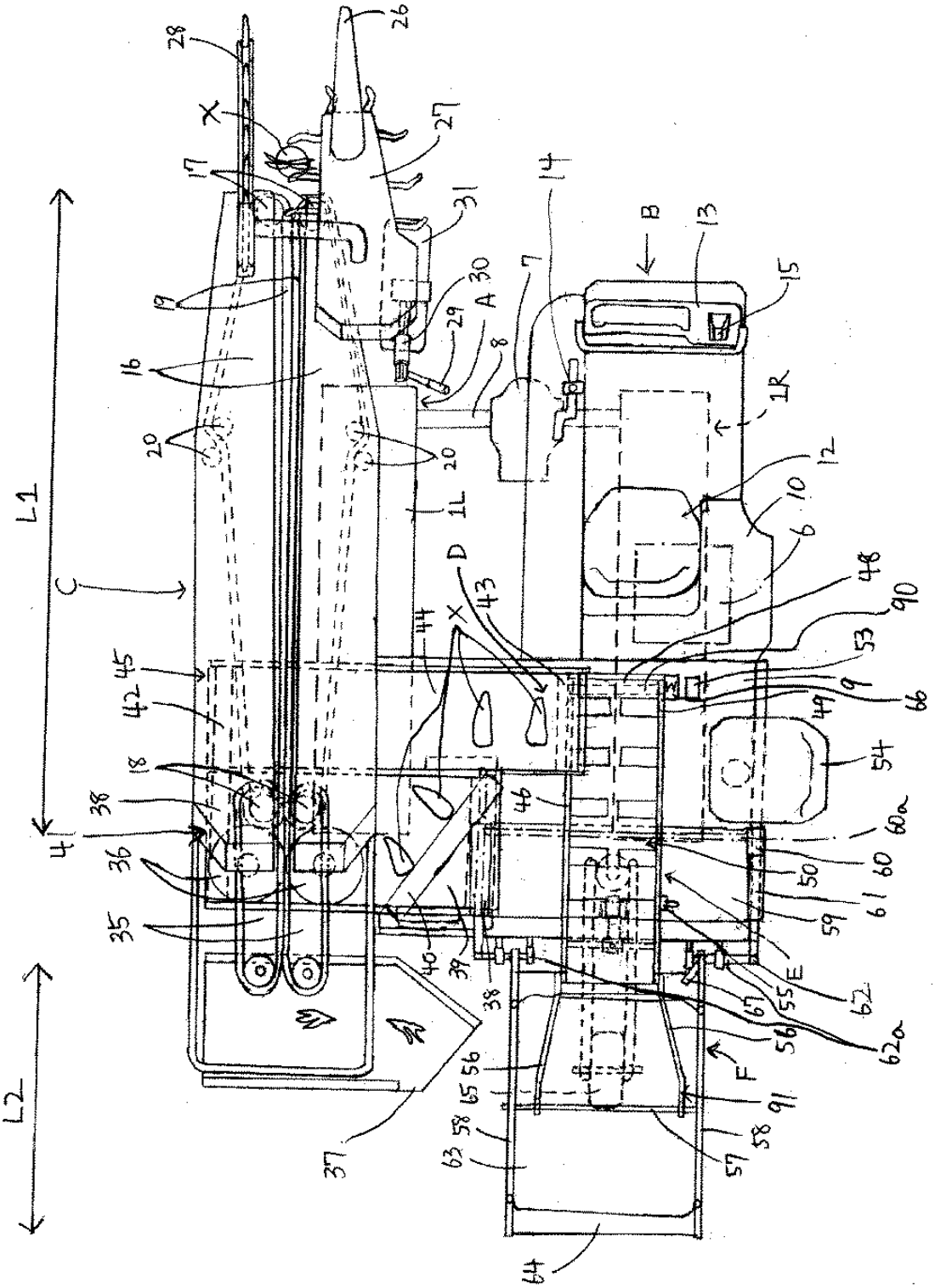
Family 253/667 - FAMPAT - ©Questel

Title

(JP2008005812)

Field crop harvester

Images



Publication data including kind & date

JP2008005812	A	2008-01-17	JP2008005812
JP5003034	B2	2012-08-15	JP5003034

Abstract

(JP5003034)

PROBLEM TO BE SOLVED: To provide a field crop harvester which prevents the balance collapse of a large machine body by the load of harvested crops and stores a large amount of crops by a compact constitution of machine body. SOLUTION: The field crop harvester has a constitution that a harvesting part C for nipping and conveying crops X is installed at one side of the machine body, a first conveying part D for receiving dropping crops X and conveying them to the

other side is arranged in the right and left directions at the rear lower position of the harvesting part C, a second conveying part E for freely changing an angle of inclination, a storage part F for storing crops X and a controlling part B are laid at the other side of the machine body, the second conveying part E is disposed in an inclined position of higher in the rear in the longitudinal direction, a convey starting part is arranged at a position to receive crops X from the convey end part of the first conveying part D, the storage part F is attached to the machine frame 9 of the main body so as to shake a shaking machine frame 59 around a revolving shaft 60a as a rotary fulcrum, a rotating wheel 65 is fixed to the lower part of the shaking machine frame 59 and the storage part is installed behind the second conveying part E.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

Isaoda Isao

ODAGIRI HAJIME

TAKAGI SHINGO

Takanori Iwabe

Latest standardized assignees - inventors removed

ISEKI

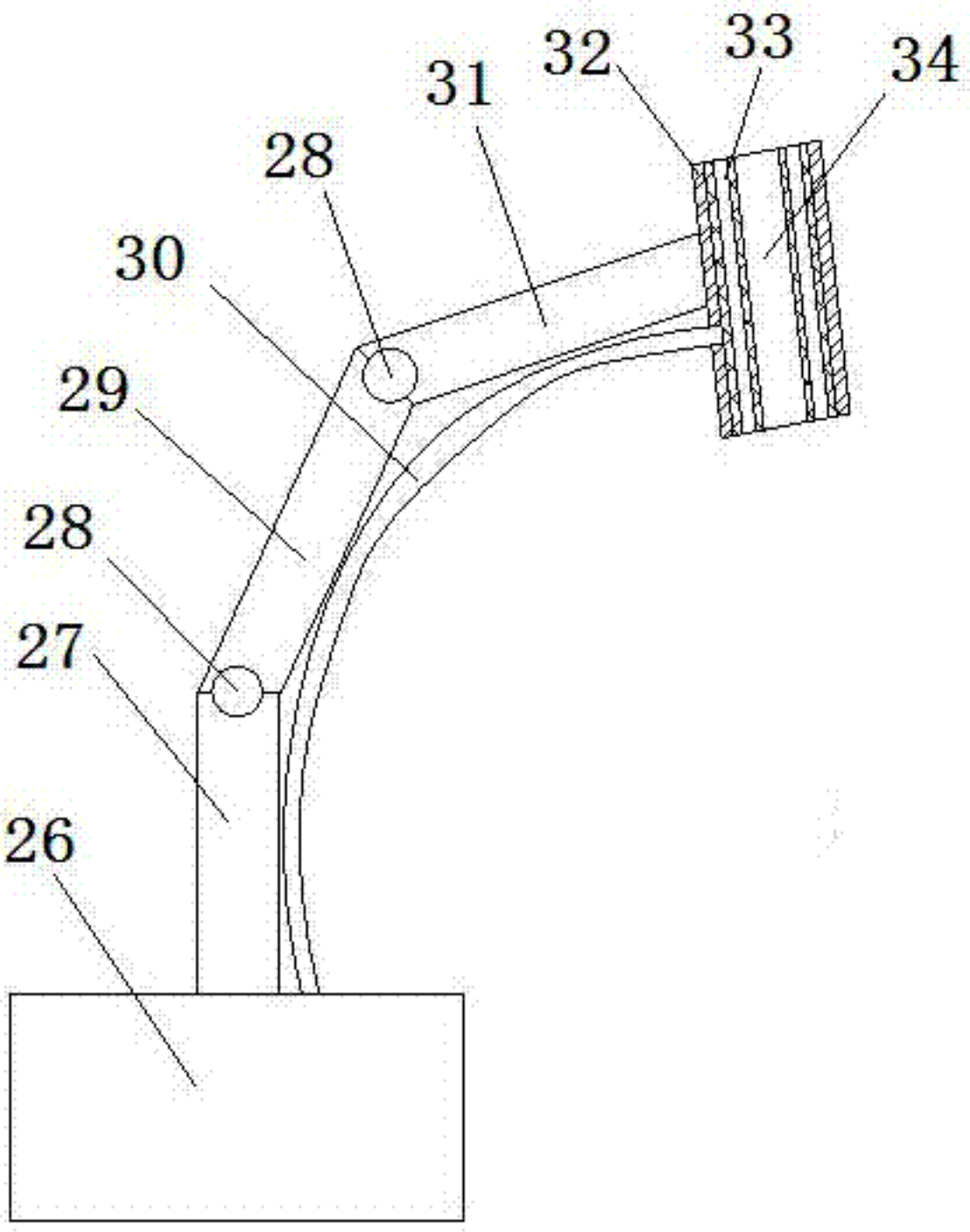
Family 254/667 - FAMPAT - ©Questel

Title

(CN106171277)

Corn harvesting machine

Images



Publication data including kind & date

CN106171277	A	2016-12-07	CN106171277
CN106171277	B	2018-03-30	CN106171277B

Abstract

(CN106171277B)

The invention relates to a corn harvesting machine, and belongs to agricultural machinery.The corn harvesting machine comprises a walking mechanism and an ear breaking mechanism, and is characterized in that the walking mechanism is connected with the ear breaking mechanism; the walking mechanism comprises a center mechanism and two same walking units, and the walking units are symmetrically arranged and are connected with the two sides of the center mechanism; each walking unit consists of a driving motor, a first rod, a second rod, a third rod, a fourth rod, a fifth rod, a sixth rod and a walking plate; the ear breaking mechanism consists of a rotary base, a mechanical arm and a manipulator, the mechanical arm is arranged on the rotary base, the mechanical arm is connected with the manipulator through a hydraulic cylinder, the manipulator is in a cylinder shape, a hollow rubber gasket is attached to the inner wall of the cylinder, and is connected with an air pump through an air ventilating pipe, and an air exhaust valve is arranged on the hollow rubber gasket; an automatic control device is arranged on the center mechanism.The corn harvesting machine has

the advantages that the corn harvesting machine can be flexibly assembled according to requirements; the assembly is convenient, and the type is flexible; the problem of mechanical harvesting of corn in small land or irregular land is solved.

Inventors

WANG CHUANGYUN
ZHAO LI
DENG YAN
GUO HONGXIA
ZHANG LIGUANG
WANG LUJUN
WANG MEIXIA

Latest standardized assignees - inventors removed

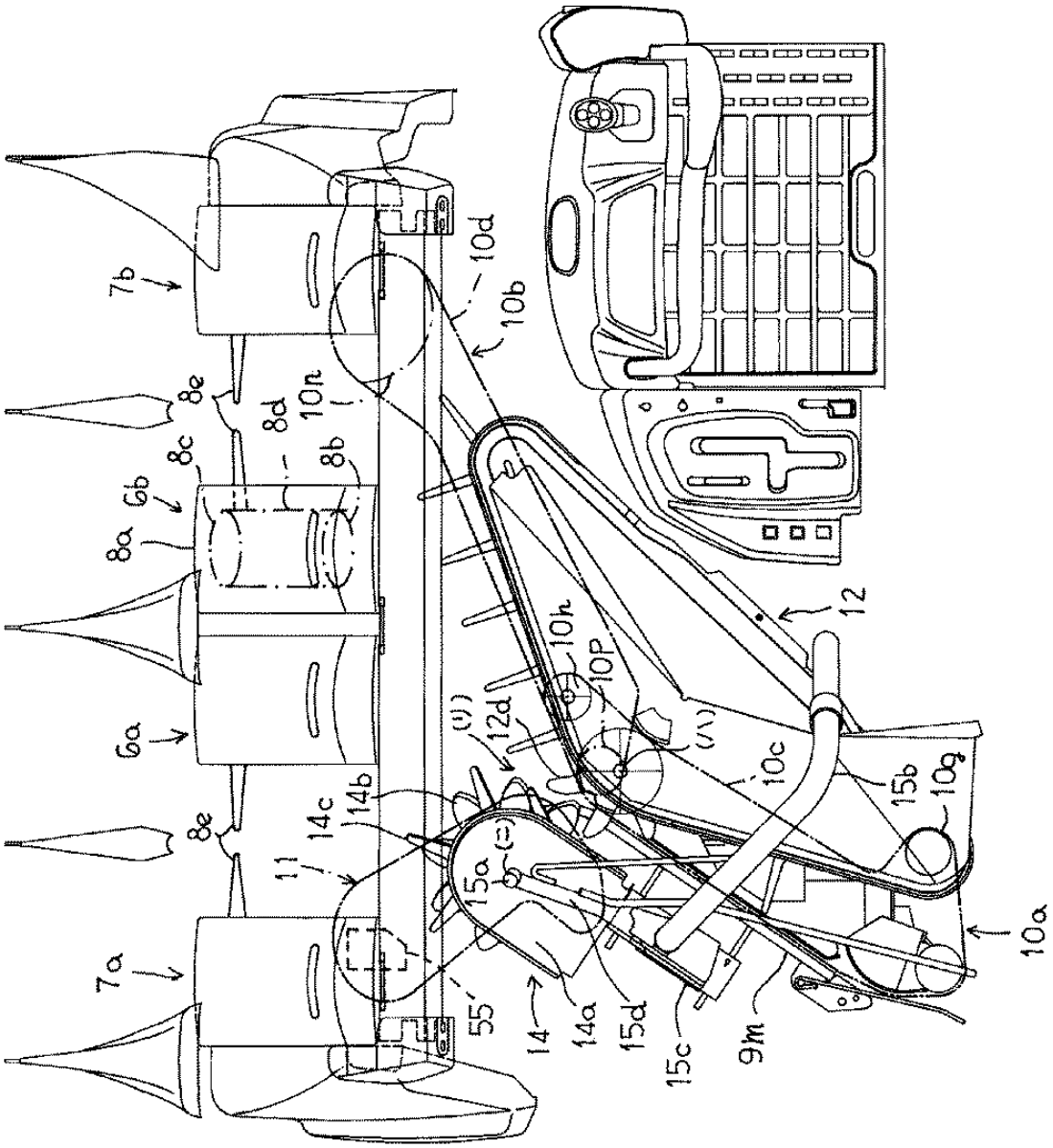
SHANXI AGRICULTURAL SCIENCES ACADEMY CROP SCIENCE INSTITUTE

Family 255/667 - FAMPAT - ©Questel

Title

(JP2012157253)
Combine harvester

Images



Publication data including kind & date

JP2012157253 A 2012-08-23 JP2012157253

Abstract

(JP2012157253)

PROBLEM TO BE SOLVED: To provide a combine harvester designed to smoothly make a transfer conveyance of grain culms to a feed transfer conveyor at the conveyance terminal end of a right-side conveyor.SOLUTION: The combine harvester includes the following construction: the conveyance grain culms for a left-side conveyor (11) are joined together into a right-side conveyor (10b) to transfer the grain culms to a transfer conveyor (10a); a first raking-in ring body (12d) is set at a part corresponding to a joining part of the transfer conveyor (10a); the first raking-in ring body (12d) is engaged with a second raking-in ring body (14b); and the conveyance starting end of the transfer conveyor (10a) is situated in front of the first raking-in ring body (12d) to superimpose the conveyance starting end of the transfer conveyor (10a) and an upstream-side part of conveyance relative to the joining part at the right-side conveyor (10b) on each other when viewed from above.

Inventors

SAITO MANABU

SAKAMOTO NORIYUKI

Kazuya Okumura

Latest standardized assignees - inventors removed

ISEKI

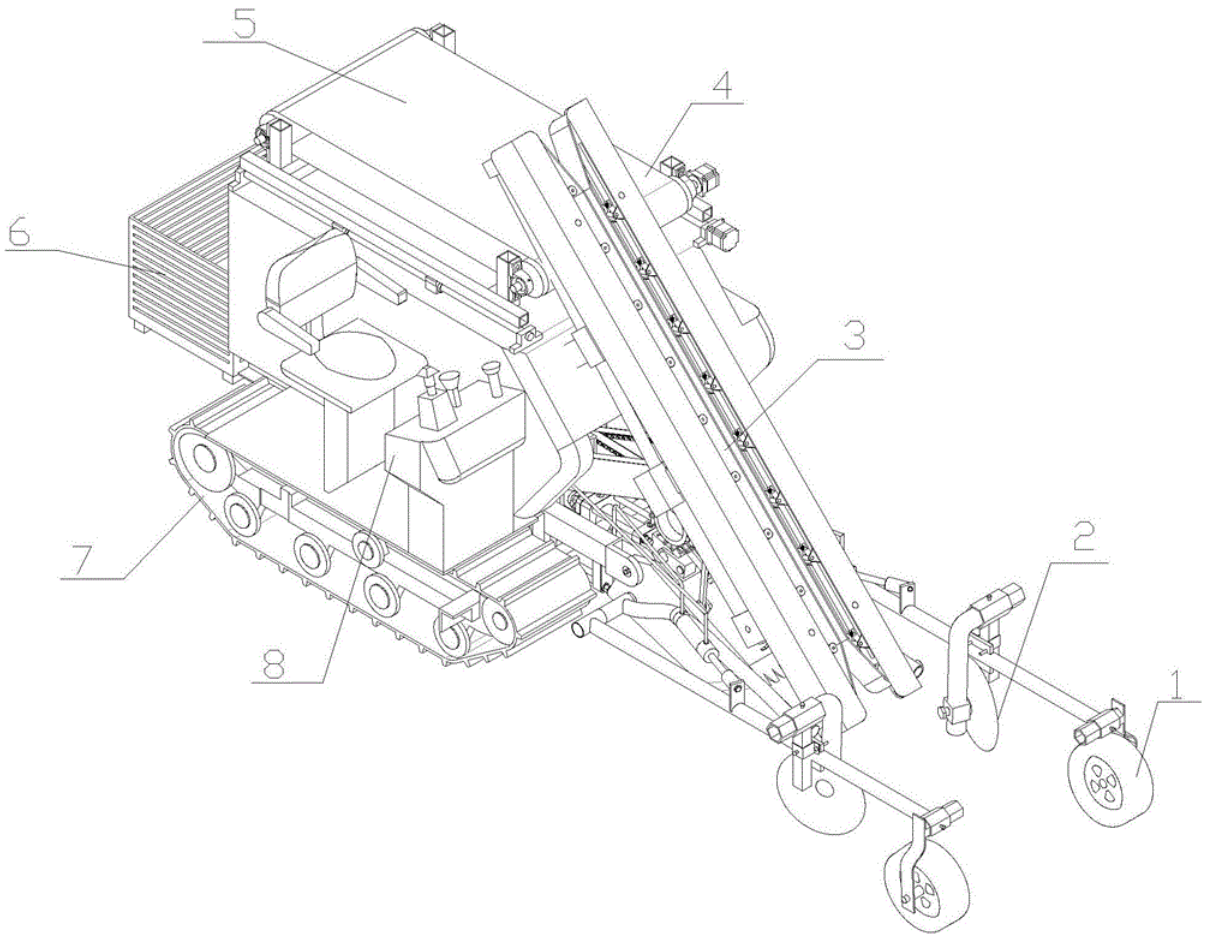
Family 256/667 - FAMPAT - ©Questel

Title

(CN206227003U)

Single file is from walking crawler -type shallot combine harvester

Images



Publication data including kind & date

CN206227003	U	2017-06-09	CN206227003U

Abstract

(CN206227003U)

The utility model relates to a single file is from walking crawler -type shallot combine harvester, include hydraulic pressure chassis, clamping device, tremble native device, go miscellaneous device, secondary to remove native device and collection device, the hydraulic pressure chassis includes chassis skeleton, engine, traveling system and braking system and guide system, clamping device uses chassis skeleton axis and installs for central bilateral symmetry, tremble native device including digging soil spade, tremble native conveying mechanism, hydraulic motor, trembling native frame and frame dead lever, go miscellaneous device including removing miscellaneous fixed bolster, removing the strays machine, removing miscellaneous claw and removing miscellaneous claw fixed disk.The secondary goes native device to include that the secondary goes soil to shell the tooth, the secondary goes soil wheel and secondary to remove native shaft, collection device is including collecting the mount, collecting flexible pneumatic cylinder, collecting box slide rail and collecting box, the utility model discloses can realize the disposable results of single file shallot, need not quadratic manual work and pick up.Flexible clamping belt can realize the harmless centre gripping of shallot, guarantees the results quality.

Inventors

HOU JIALIN

LIU JINGWEI
LI YUHUA
WANG HOUXIN
LIU XIAO
SONG TIANXIN

Latest standardized assignees - inventors removed

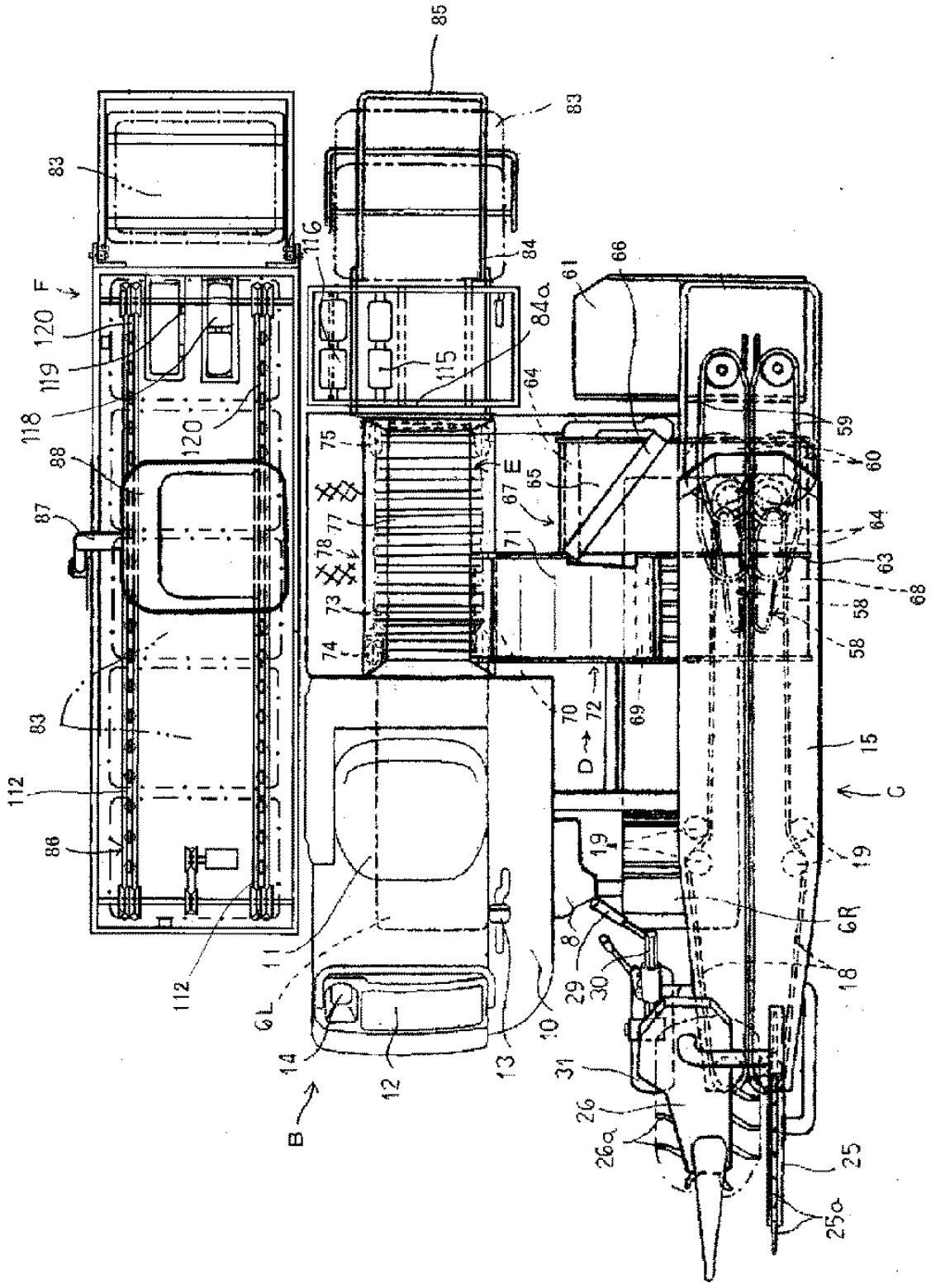
SHANDONG AGRICULTURAL UNIVERSITY

Family 257/667 - FAMPAT - ©Questel

Title

(JP2012228223)
Root vegetable harvester

Images



Publication data including kind & date

JP2012228223 A 2012-11-22 JP2012228223

Abstract

(JP2012228223)

PROBLEM TO BE SOLVED: To provide a simple constitution in which a housing container mounted on a housing container-mounting table does not freely move and an auxiliary operator can easily move the fully filled housing container onto the housing container-mounting table in an self-travelling root vegetable harvester.SOLUTION: The self-travelling root vegetable harvester in which a harvesting section C drawing out root vegetables in a farm field and the root vegetables dug out by the harvesting section C are sent to a sorting conveying section E, the auxiliary operator sitting on an auxiliary

working seat 88 arranged in the side part of the sorting conveying section E sorts the root vegetables, the sorted root vegetables are housed into the housing container 83 mounted on the housing container-mounting table 84 arranged in the dead end lower part of a sorting conveying conveyer 78 of the sorting conveying section E, and an operator moves the fully filled housing container 83 to the housing container-mounting table 86 arranged in the side part of the housing container-mounting table 84 and below the auxiliary working seat 88 by one hand, is characterized in that a conveying roller 115 for inclining the housing container 83 to the inside of the harvester body is arranged in the housing container-mounting table 84.

Inventors

HASE KIHACHIRO
Masami Muramachi
TAKAGI SHINGO
Takanori Iwabe
Hideaki Kurose
YUMITATSU TAKESHI

Latest standardized assignees - inventors removed

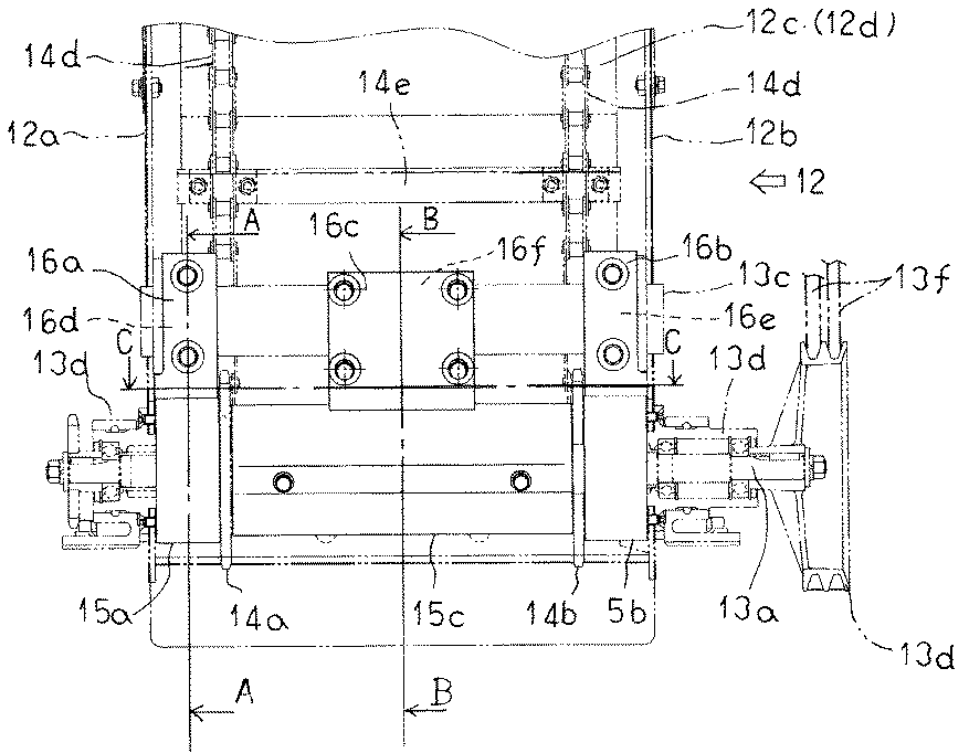
ISEKI

Family 258/667 - FAMPAT - ©Questel

Title

(JP2007312731)
Combine harvester

Images



Publication data including kind & date

JP2007312731 A 2007-12-06 JP2007312731

Abstract

(JP2007312731)

PROBLEM TO BE SOLVED: To provide a combine harvester having an upper driving shaft pivoted at the upper part of a transferring elevator device of a reaper which receives and transfers reaped culm to the rear upper part so as to supply to a thresher, wherein reaped culm and the like to be transferred, which is conventionally twine around the upper driving shaft and, is prevented from twining.

SOLUTION: The combine harvester is pivoted with left upper and right upper sprockets 14a and 14b on the left and right both sides of the upper parts in left and right supporting frames 12a and 12b provided on left and right both sides of the transferring elevator device 12, and an upper driving shaft 13a pivoted at the left upper and right upper sprockets 14a and 14b by the left and right supporting frames 12a and 12b, wherein circular and detachable left, right, and center twine preventing covers 15a, 15b and 15c covering the outer diameter of the shaft of the upper driving shaft 13a are provided on the left and right outside and the inside of the driving shaft 13a pivoting the left upper and right upper sprockets 14a and 14b.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

OHARA KAZUSHI

ISHIKAWA MICHIO

NISHIZAKI HIROSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

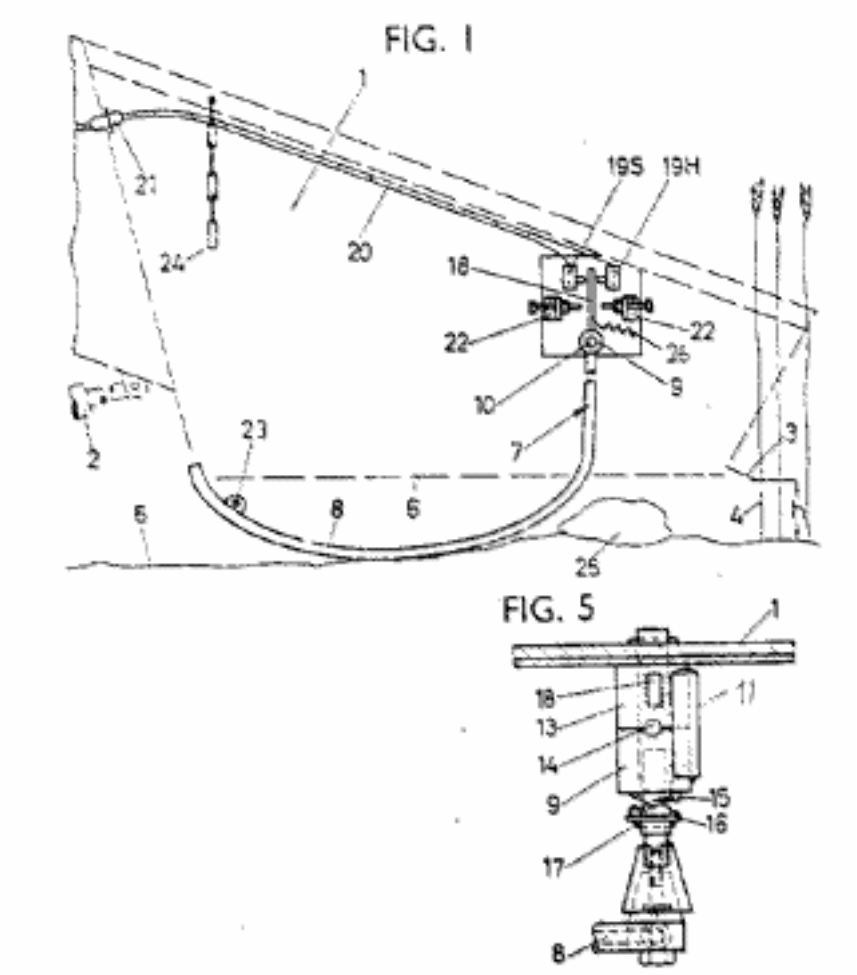
Family 259/667 - FAMPAT - ©Questel

Title

(GB1471971)

Combine harvesters

Images



Publication data including kind & date

DE2345022	A1	1975-03-20	DE2345022
FR2242923	A1	1975-04-04	FR2242923
GB1471971	A	1977-04-27	GB1471971
FR2242923	B1	1977-11-04	FR2242923
DE2345022	B2	1981-01-22	DE2345022
DE2345022	C3	1981-10-08	DE2345022

Abstract

(FR2242923)

1471971 Combine harvesters MASCHINENFABRIK FAHR AG GOTTMADINGEN 9 Aug 1974 [6 Sept 1973] 35264/74 Heading A1F A combine harvester comprises ground surface sensing apparatus 7 situated on the front part of a mowing table 1.A rearwardly directed curved sensing element 8 has a hub 9 at one end and is arranged to be pivotable about a transverse axle provided by a bearing pin 10 secured on the mowing table.A lever 18 is secured to a hub 13 which is also pivotably mounted on pin 10.Hub 9 is biased towards hub 13 by spring 15 and carries pins 14 which engage in recesses in hub 13 to form an overload clutch.The lever 18 is thus turned towards a limit switch 19H or 19S for lifting or lowering the mowing table.The switches are connected by means of an electric line 20 with a releasable electric coupling 21 to the control system of the harvester.Two adjustable abutments 22 are arranged either side of the lever 18 preventing damage that might otherwise be done to the switches 19H, 19S.If, after striking either abutment, the sensing element 8 is turned further, the coupling between hubs 9 and 13 is broken since the helical spring 15 is compressed as the sensing element continues to turn.An eye 23 on the sensing element 8 is connected to the chain 24 on the mowing table to permit transportation of the harvester.In order to ensure smooth transition in the mowing table height control arrangement even when coupling hubs 9, 13, are disengaged the lever 18 is always pressed against the limit switch 19H as soon as the hubs are uncoupled.Height adjustment is achieved by means of two cone shells which rotate relative to each other and which can be fixed by a clamping screw in any relative position that can be read off a scale (Fig. 5) calibrated to the cutting height.Abutment 11 stops the sensing element 8 swinging downwards to an excessive amount owing to its weight.In another embodiment a connection of telescopic tubular elements provides cutting height adjustment (Fig. 3-not shown). (From GB1471971 A)

Inventors

ONI, HELMUT, 7702 GOTTMADINGEN, DE
RUEEDE, ERNST, 7701 BIETINGEN, DE
ENGESSER, HUGO, 7701 ANSELFINGEN, DE

Latest standardized assignees - inventors removed

MASCHINENFABRIK FAHR

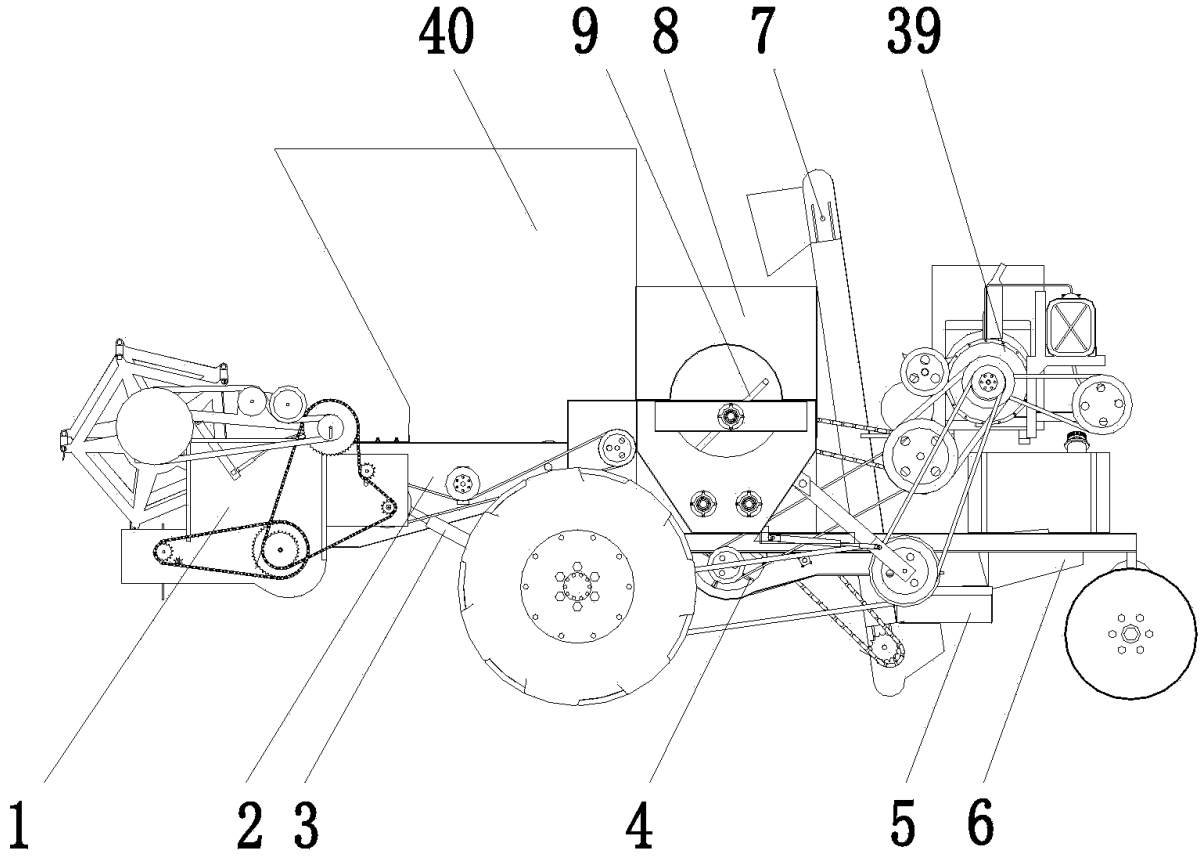
Family 260/667 - FAMPAT - ©Questel

Title

(CN203851472U)

Self-propelled peanut gathering and picking combined harvester

Images



Publication data including kind & date

CN203851472 U 2014-10-01 CN203851472U

Abstract

(CN203851472U)

The utility model relates to a peanut combined harvester, in particular to a self-propelled peanut gathering and picking combined harvester.The combined harvester comprises a gathering device, a middle conveying device, a picking device, a multi-stage cleaning device, a lifting conveying device and a collecting device which are connected in sequence, wherein a power device is respectively connected with the devices.By adopting the self-propelled peanut gathering and picking combined harvester, the combination process, integrating gathering, conveying, picking, cleaning, lifting conveying and collecting, on laid peanuts is realized, the gathering efficiency and the rate of thorough picking are high, the completeness of the peanuts is furthest realized, and the problems that peanut and seedling separation is not thorough and the peanuts are not clean after being cleaned are effectively solved.

Inventors

WANG DONGWEI
SHANG SHUQI
WANG YANYAO
LIU HONGMING
LI XIANG
WANG JIASHENG
YANG RANBING
HAN KUN
CHEN KAI

Latest standardized assignees - inventors removed

QINGDAO AGRICULTURAL UNIVERSITY

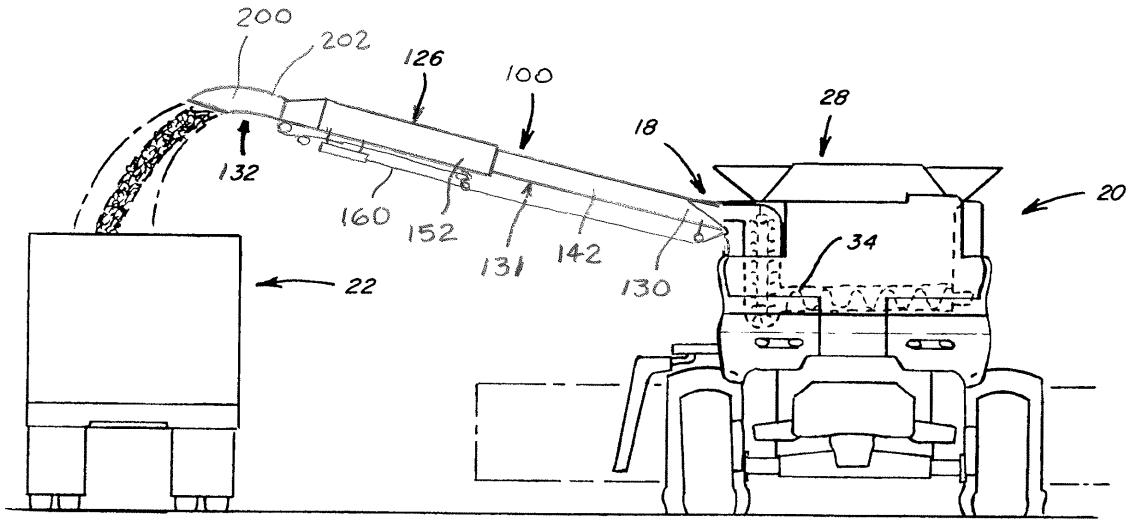
Family 261/667 - FAMPAT - ©Questel

Title

(EP3395150)

Extendable unload conveyor for combine

Images



Publication data including kind & date

US10023389	B1	2018-07-17	US10023389
EP3395150	A1	2018-10-31	EP3395150
CN108718713	A	2018-11-02	CN108718713

Abstract

(EP3395150)

A conveyor system for unloading crop material from an agricultural harvester includes an adjustable-length discharge tube.The discharge tube includes at least a first tube section and a second tube section, the first tube section movably attached to the second tube section in an adjustable arrangement.The first tube section and the second tube section are each hollow and collectively define a passage for conveying crop material through the discharge tube.One of the first tube section and the second tube section is movable relative to the other of the first tube section and the second tube section to adjust the length of the discharge tube.One of the tube sections can be telescopically received in another of the tube sections.In addition, or in the alternative, one of the tube sections can be pivotally attached to another of the tube sections.

Inventors

PRIEPKE EDWARD H

YODER DENVER R

Latest standardized assignees - inventors removed

BLUE LEAF IP

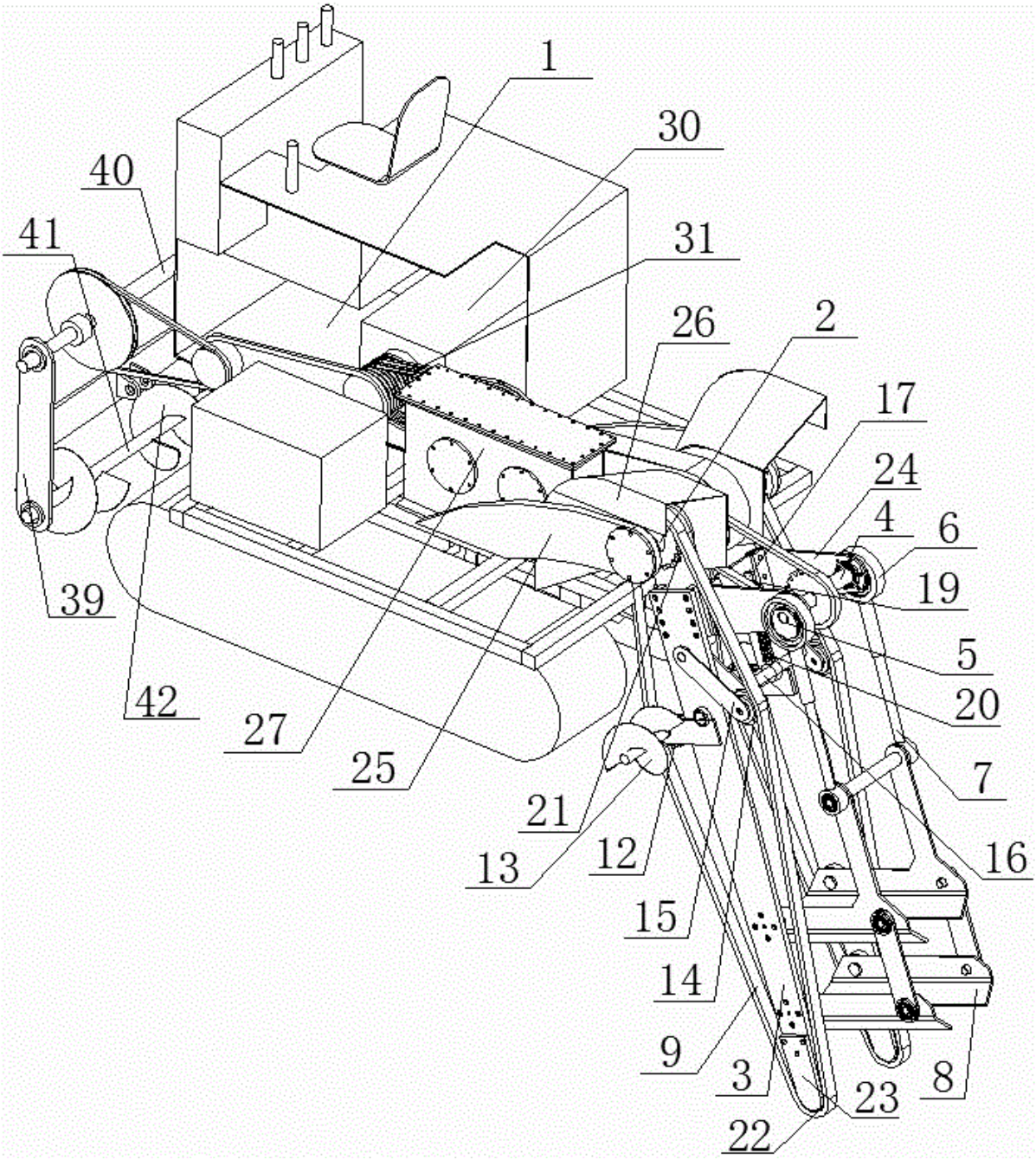
Family 262/667 - FAMPAT - ©Questel

Title

(CN106358564)

Underground crop harvester

Images



Publication data including kind & date

CN106358564 A 2017-02-01 CN106358564

Abstract

(CN106358564)

The invention belongs to the technical field of agricultural underground harvesting machinery, and particularly relates to an underground crop harvester which can be used for harvesting Chinese yam, burdock, green onion, liquorice and so on.The underground crop harvester comprises a machine body, and is characterized in that a driving bridge axle is arranged at the back part of the machine body; floating supports are hinged to the two sides of the driving bridge axle; an eccentric bridge axle is mounted on the floating supports; eccentric wheels are mounted on the two sides of the eccentric bridge axle; shaft sleeves are arranged on the eccentric wheels; the shaft sleeves are connected with guide rods; linkage shovels are mounted at the tail ends of the guide rods; soil digging chains sleeve the floating supports; a plurality of soil digging blades are arranged on the soil digging chains.The underground crop harvester has the beneficial effects as follows: the underground crop harvester can rapidly and continuously cut both sides of an underground crop and efficiently vibrates the crop in the middle so as to quickly take out the underground crop; the underground crop harvester is simple in structure, convenient to operate, good in stability, high in working efficiency and small damage to the crop, facilitates popularized cultivation of Chinese yam, and improves economic benefits of farmers.

Inventors

LI GUANGCHEN

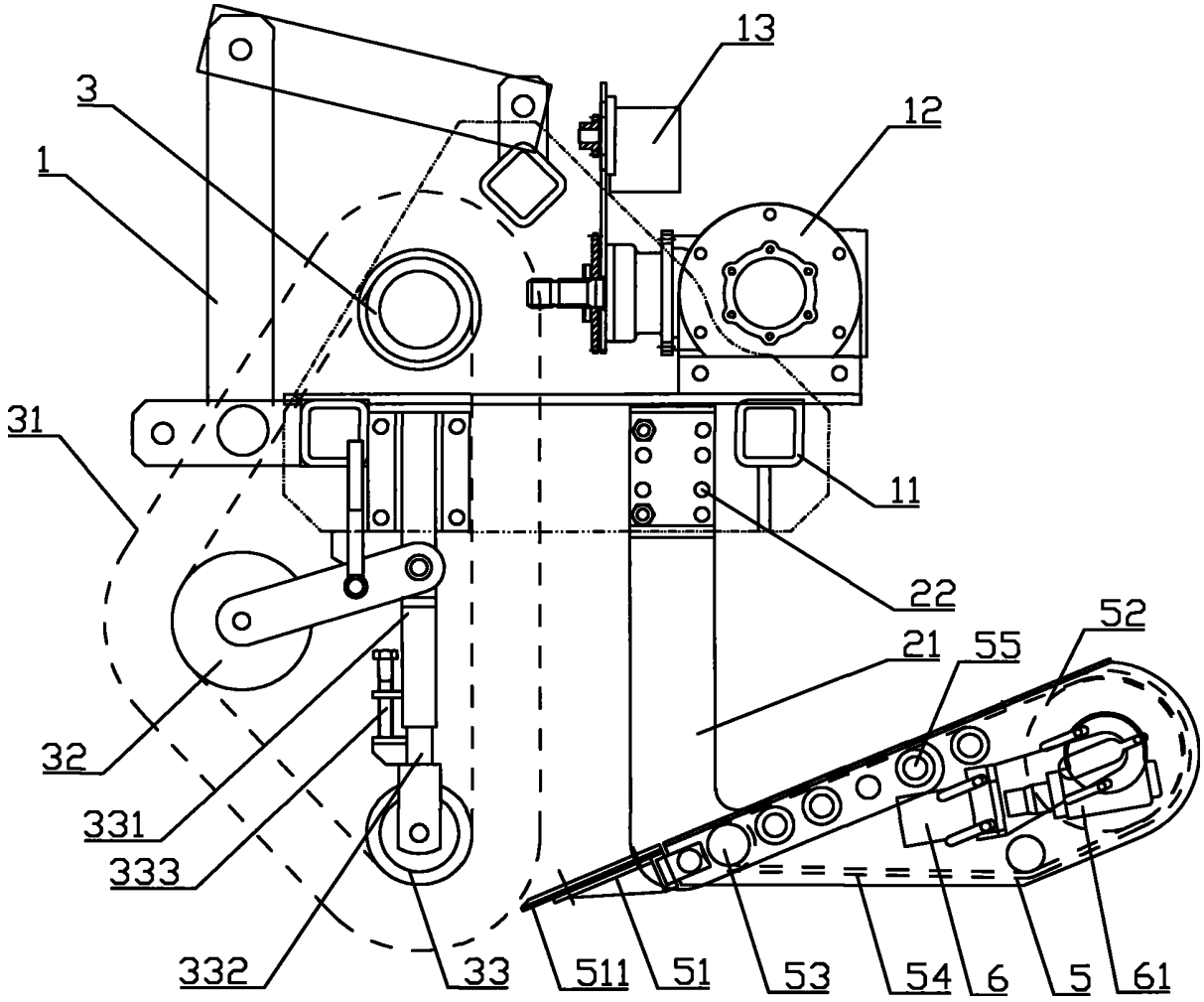
Family 263/667 - FAMPAT - ©Questel

Title

(CN202488984U)

Multipurpose root crop harvester

Images



Publication data including kind & date

CN202488984 U 2012-10-17 CN202488984U

Abstract

(CN202488984U)

The utility model discloses a multipurpose root crop harvester which comprises a traction frame used for being connected with traction equipment, wherein the traction frame is provided with a hydraulic device and a power distribution device which is connected with a power take-off of the traction equipment, the traction frame is provided with at least one operation frame in a sliding mode, and the operation frame is provided with an excavating device which is connected with the power distribution device.An operation frame locking device is arranged between the operation frame and the traction frame, and a conveying harvesting device which is driven by the hydraulic device is arranged on the operation frame and at the back of the excavating device.The multipurpose root crop harvester is reasonable in structure, and capable of carrying out harvesting operation of various root crops.In addition, the root crops are not prone to damage and improvement of harvesting efficiency is facilitated.

Inventors

CHEN YUJUN

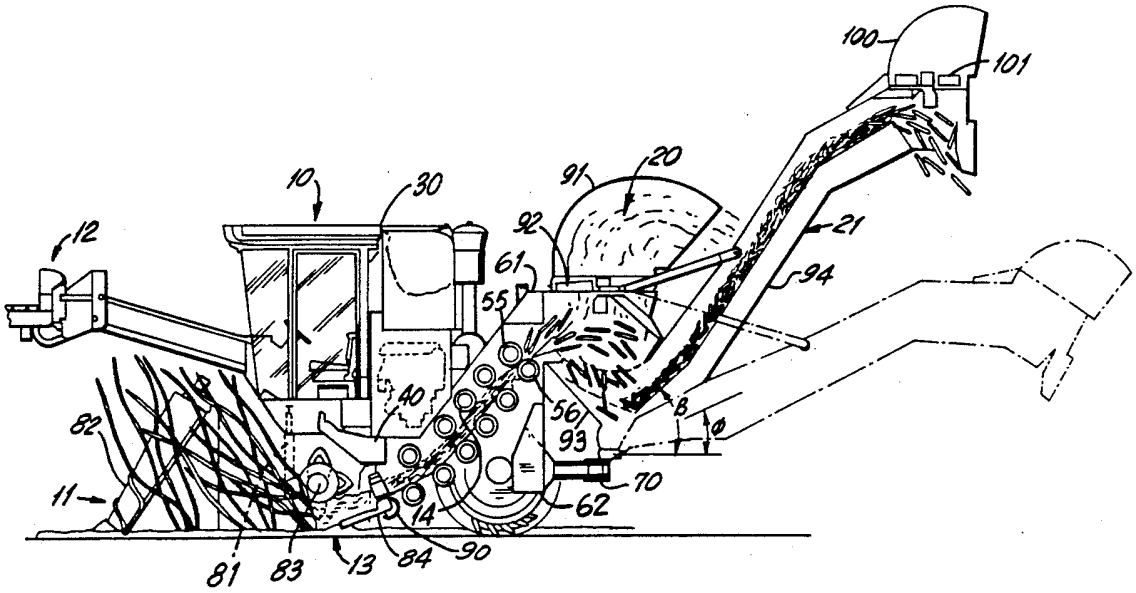
Family 264/667 - FAMPAT - ©Questel

Title

(US5031392)

Elevator assembly and slewing mechanism for cane harvester

Images



Publication data including kind & date

US5031392 A 1991-07-16 US5031392

Abstract

(US5031392)

There is provided an improved elevator control and slewing mechanism for a cane harvester including a bracket pivotally mounted to the harvester frame for rotation about a first vertical axis to which the elevator is mounted, a pair of slew control arms each of which includes two links which are pivotally joined to one another to form an elbow joint rotatable about a second vertical axis and means to pivotally couple one of the links of each pair to the harvester frame and the other one of each pair to the bracket and means for slewing the elevator about the first vertical axis.

Inventors

BAKER MALCOLM J

Latest standardized assignees - inventors removed

AUSTOFT INDUSTRY

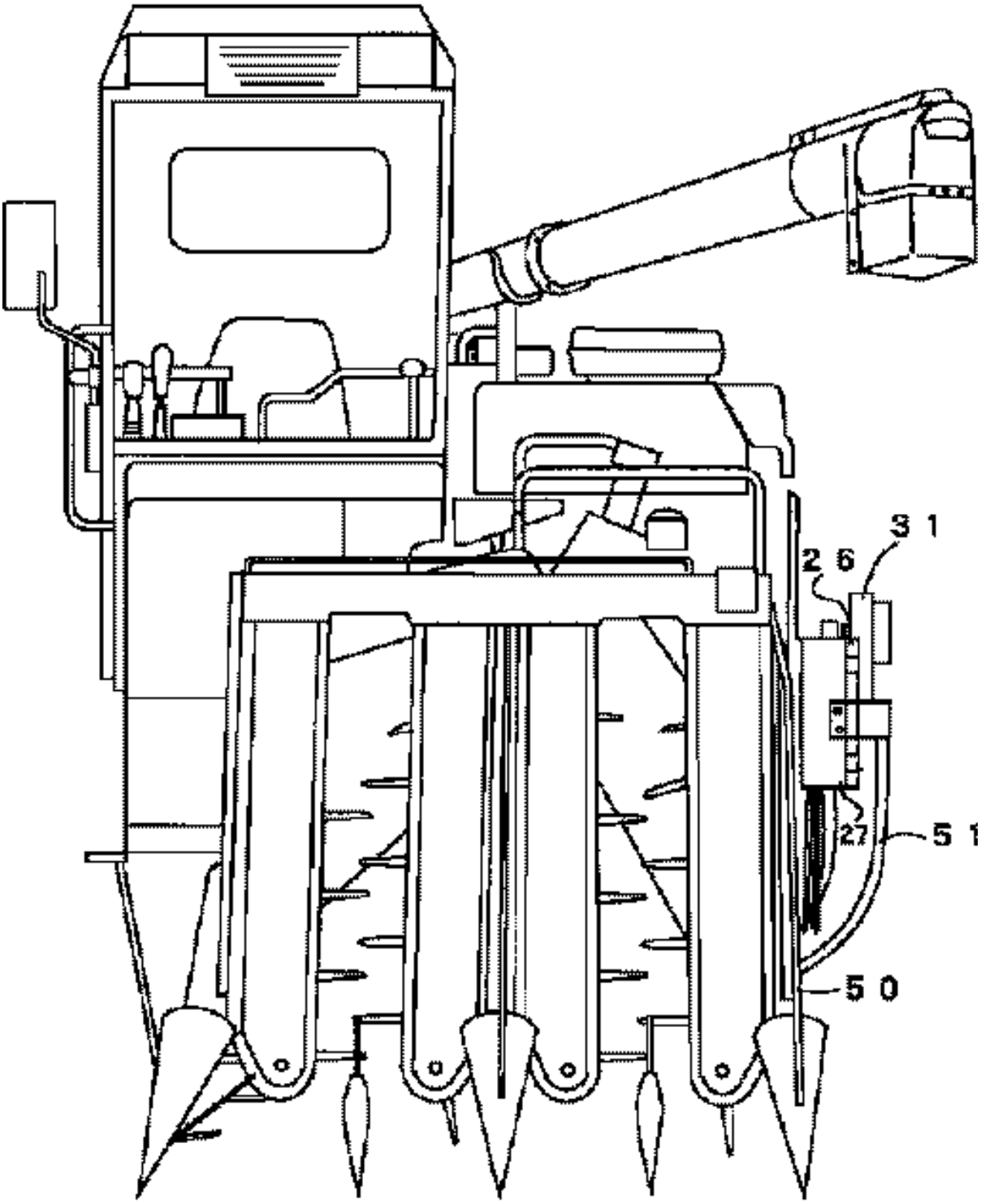
Family 265/667 - FAMPAT - ©Questel

Title

(JP2001269036)

Combine harvester

Images



Publication data including kind & date

JP2001269036 A 2001-10-02 JP2001269036

Abstract

(JP2001269036)

PROBLEM TO BE SOLVED: To provide a combine harvester capable of housing in a small space on a combine harvester machine body side when a dew-removing device is not used.SOLUTION: The dew-removing device 5 is provided on a combine harvester machine body side and is used for removing dew attached to unreaped culms.The dew-removing device 5 is equipped with a supporting part 26 of the dew- removing device 5 forming rotation supporting point and arranged in the direction opposite to the advancing direction of the combine harvester in an active state of the longitudinal direction and housed along a combine harvester machine body in inactive state and a frame 51 thereof and when the dew-removing

device is housed, the device is housed on the side of combine harvester machine body on the rear side in the advancing direction of the frame 51 of the above supporting part.Since the frame 51 of the supporting part is located in the front in the advancing direction of the combine harvester of the dew-removing device, the dew-removing device 5 is free from fear broken by interference of the dew-removing device 5 to levee, etc. when the combine harvester is traveled.

Inventors

TAKEUCHI KENICHIRO
IMAMURA HIDEKAZU
ICHIMARU TOMOYUKI
MIZUSHIMA ATSUSHI
TOYODA KAZUO

Latest standardized assignees - inventors removed

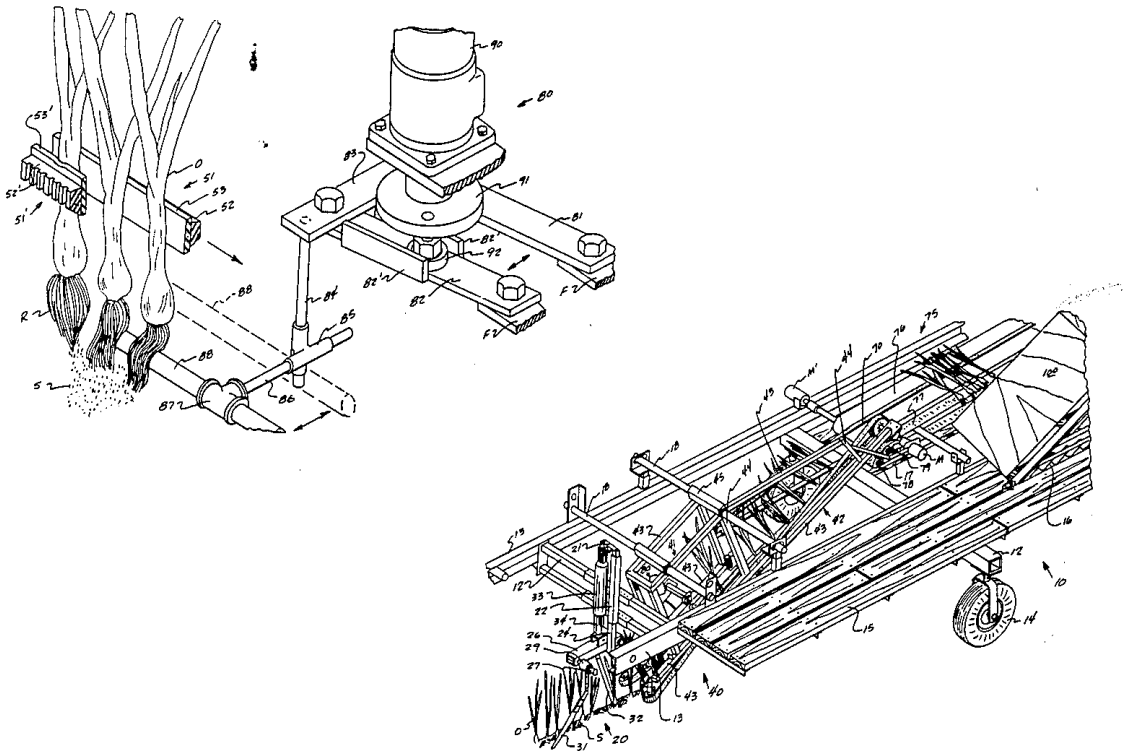
ISEKI AGRICULTURAL MACHINERY

Family 266/667 - FAMPAT - ©Questel

Title

(US4629005)
Bulb, root, and leafy vegetable harvester

Images



Publication data including kind & date

US4629005 A 1986-12-16 US4629005

Abstract

(US4629005)

A harvester for bulb, root and leafy vegetable products including stationary blades (31, 32), rotatable discs (131, 132) or the like which are transported at an angle through opposite sides of a product plant bed to loosen the soil, cut the root system, and prepare the products for removal from the plant bed; a pair of opposing, rotatable belts (51, 51') which follow an inclined path and cooperate to define a product passageway therebetween, said belts (51, 51') defining a product lifting and transport section (41) in which adjustable, pressure pulleys (48, 48') ensure proper gripping pressure on the products, and a product orienting section (42) in which the products are transformed from a vertical to a horizontal disposition; support means (70) adjacent said product orienting section (42) for receiving tops of products oriented to a horizontal disposition;

and conveyor means (75) adjacent an end of said product passageway for receiving freed, horizontally disposed product.A soil removal means (80) may also be employed beneath and axial to the product passageway along belts 51, 51' and includes an oscillatible rod (88) which vibrates the root system of the product to dislodge soil therefrom.

Inventors

HOOD JR CLARENCE E

WILLIAMSON ROBERT E

MARGOLIN AMIKAM

Latest standardized assignees - inventors removed

CLEMSON UNIVERSITY

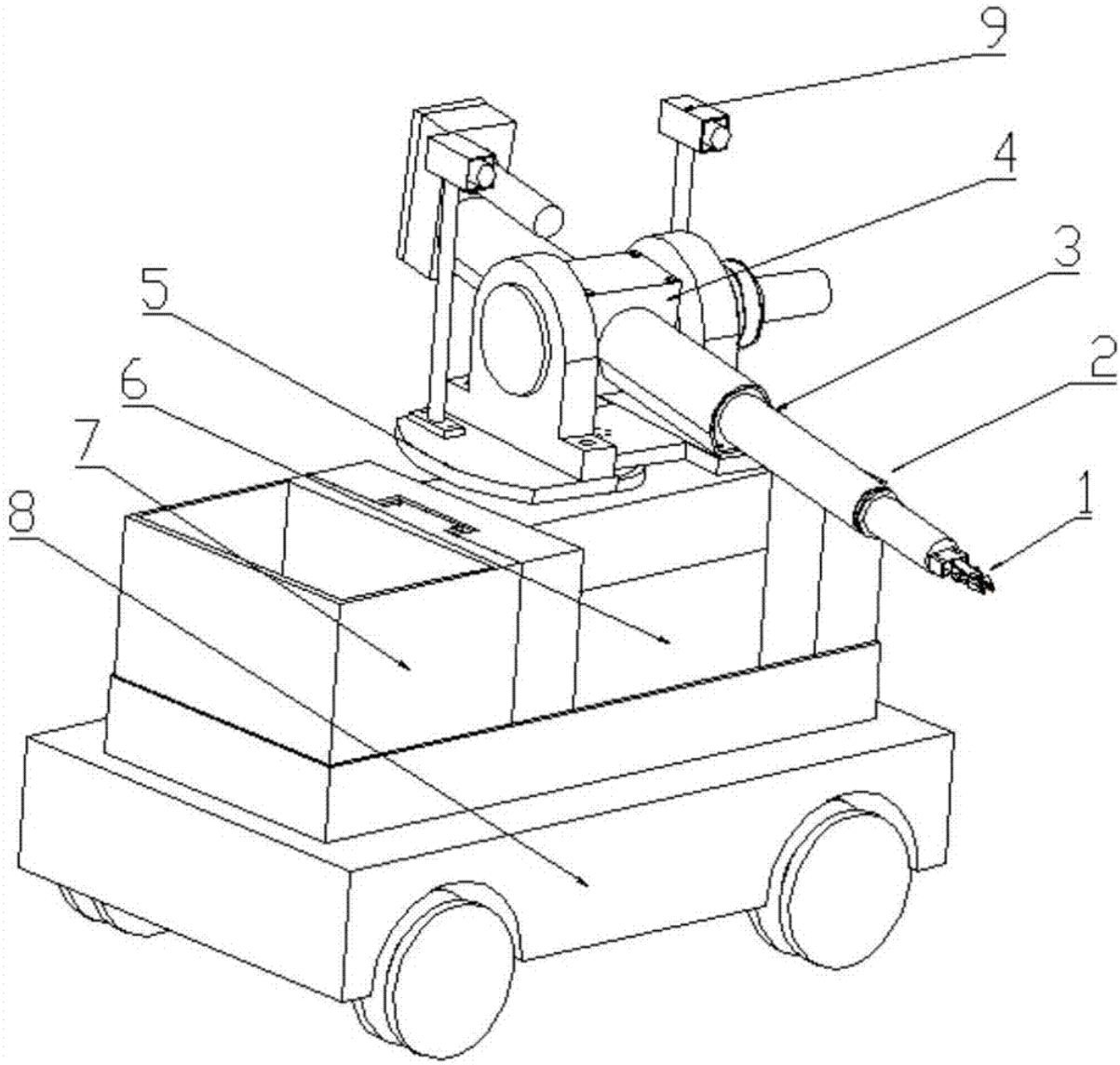
Family 267/667 - FAMPAT - ©Questel

Title

(CN107439143)

Greenhouse truss tomato harvester and harvesting method

Images



Publication data including kind & date

CN107439143 A 2017-12-08 CN107439143

Abstract

(CN107439143)

The invention relates to the field of greenhouse fruit-vegetable harvesting, in particular to a greenhouse truss tomato harvester and a harvesting method.The harvester comprises a harvesting manipulator (1), a wrist (2), an extensible arm

(3), a shoulder (4), a waist (5), an electric control box (6), a collection box (7), a traveling device (8) and a visual system (9).The visual system can automatically recognize truss tomato, judge maturity of the same and position the same and is used for providing information of picking points for a mechanical arm, and automation of a harvesting mechanism is realized.The mechanical arm has three degrees of freedom and can drive the manipulator to reach any position within a certain spatial range; the manipulator can pick and clamp the truss tomato at the same time, so that operating processes are reduced, and working efficiency is improved.

Inventors

ZHANG JUNXIONG

SU RUN

YUAN TING

GONG YUE

Latest standardized assignees - inventors removed

CHINA AGRICULTURAL UNIVERSITY

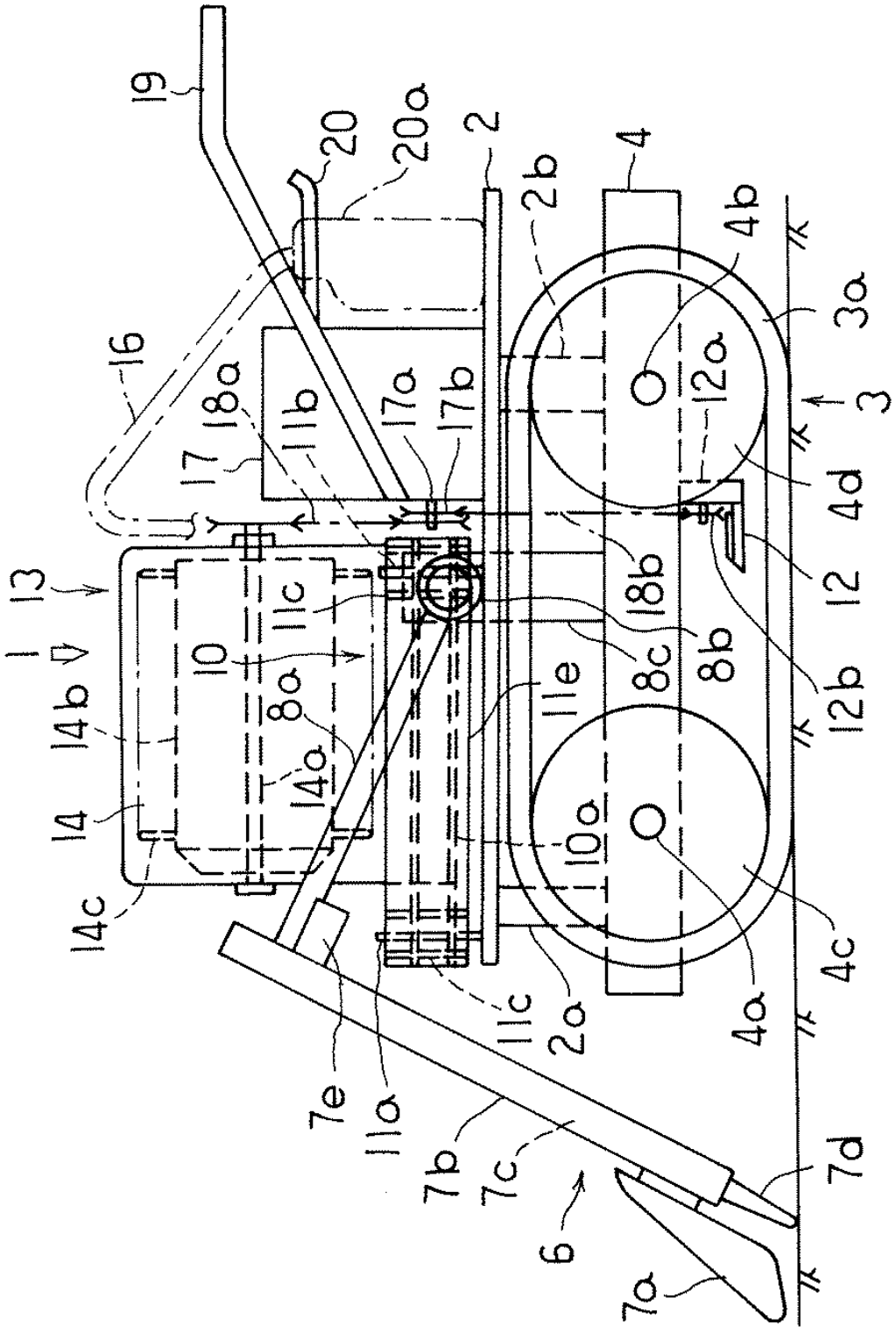
Family 268/667 - FAMPAT - ©Questel

Title

(JP2006174763)

Harvester

Images



Publication data including kind & date

JP2006174763 A 2006-07-06 JP2006174763

Abstract

(JP2006174763)

PROBLEM TO BE SOLVED: To provide a micro combine harvester that can reap a single row of stand cereal culms and can thresh the cereal culms.

SOLUTION: In this harvester, a cereal culms-separating and picking-up device 6 is mounted to the front part on one side of both sides of the traveling device 3.On the back side of this separating and picking-up device 6, the picked-up standing

cereal culms are transported rearward by using the nipping and transporting device 10 to the threshing machine 13 arranged alongside.The threshed cereal culms are cut with cutting device 12 set between the traveling devices 3, 3 on the back side of the threshed cereal culms-nipping and transporting device 10 and then are exhausted on the farm filed.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

NIIMI SHIZUO

SAITO MANABU

KAMITO YOSHIYUKI

KITAGAWA TOMOSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

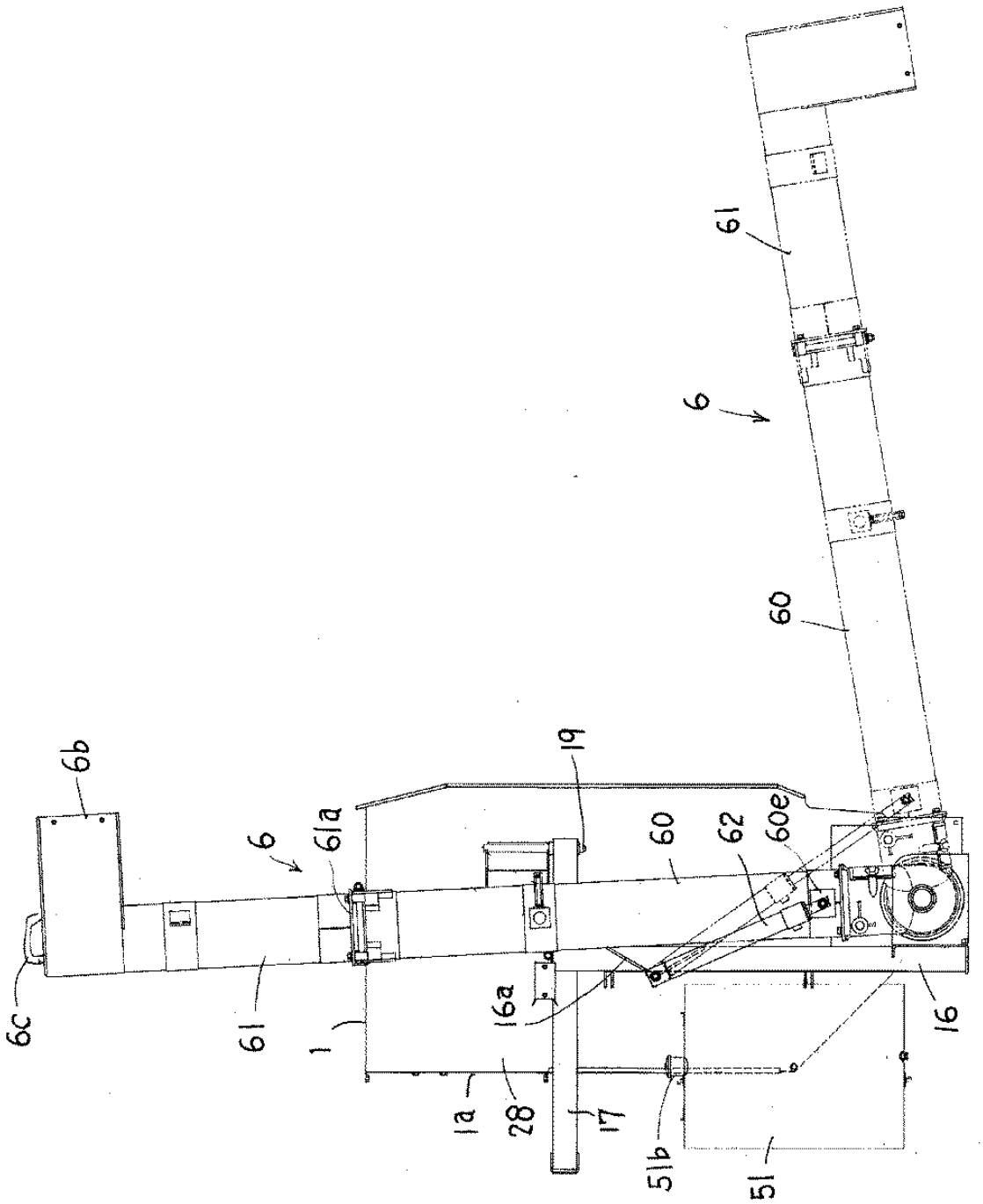
Family 269/667 - FAMPAT - ©Questel

Title

(JP2016198048)

Combine

Images



Publication data including kind & date

CN204681896	U	2015-10-07	CN204681896U
JP2015208267	A	2015-11-24	JP2015208267
JP2016198048	A	2016-12-01	JP2016198048

Abstract

(JP2016198048)

PROBLEM TO BE SOLVED: To enable a worker to adjust inclination of a grain discharge cylinder by himself/herself easily in a combine discharging grains in a grain tank in the grain discharge cylinder inclined to a lateral side.SOLUTION: The combine includes a cylinder 62 connecting a frame 16 arranged on a machine body frame 3 and a grain discharge cylinder 6 and rotating the grain discharge cylinder 6 from an erected posture stored above the machine body frame 3 to a posture overhung in an outer side direction of the machine body frame 3.A machine body side attachment part 62c of the cylinder 62 connected with the frame 16 is arranged on an opposite side to an overhang direction of the grain discharge cylinder 6 with a center line A of the grain discharge cylinder 6 in a state of being stored above the machine body frame 3 as a

reference, thereby the problem being solved.SELECTED DRAWING: Figure 21

Inventors

OSAKI MASAMI

Latest standardized assignees - inventors removed

ISEKI

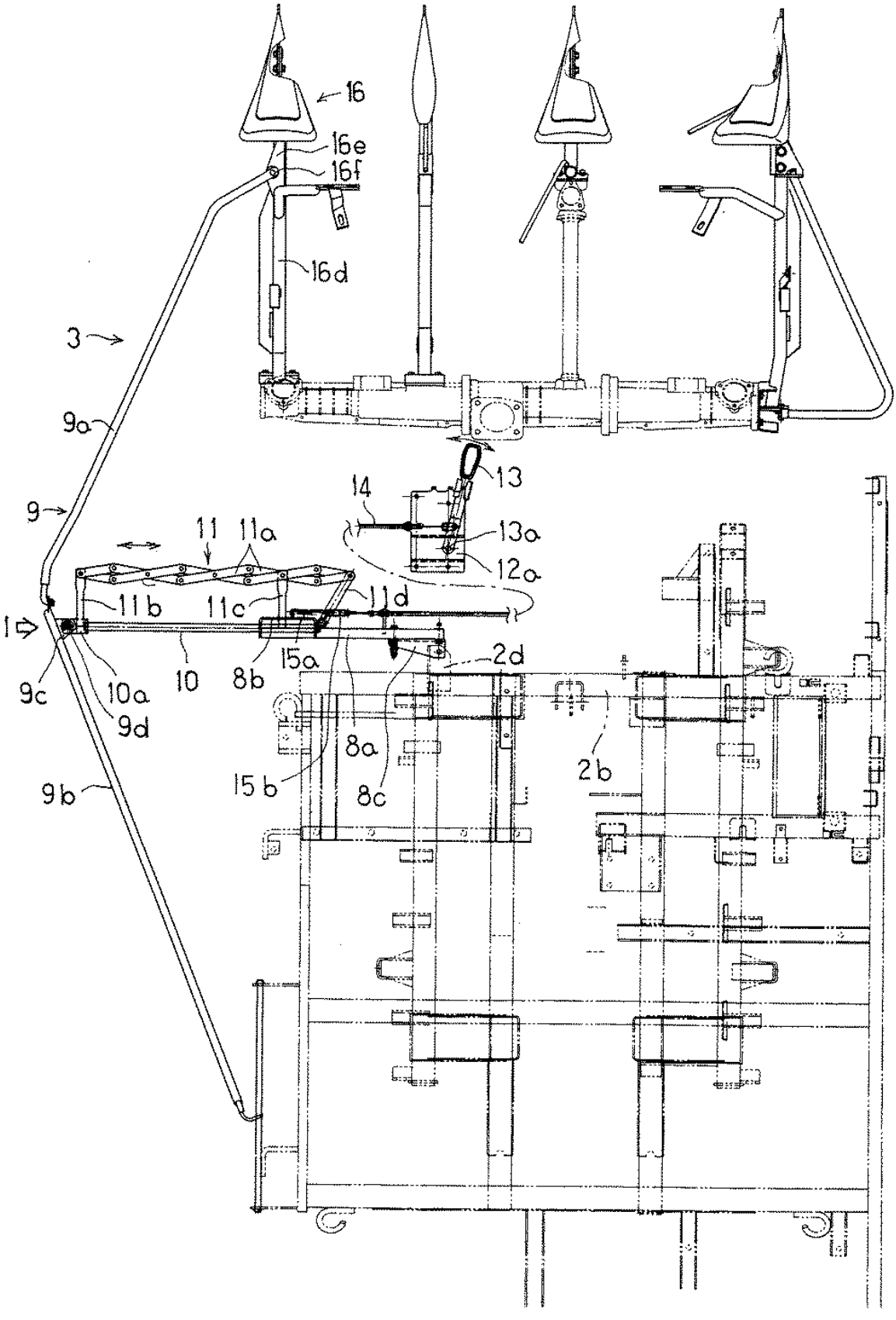
Family 270/667 - FAMPAT - ©Questel

Title

(JP2009065986)

Combine harvester

Images



Publication data including kind & date

JP2009065986	A	2009-04-02	JP2009065986
JP4636177	B2	2011-02-23	JP4636177

Abstract

(JP4636177)

PROBLEM TO BE SOLVED: To provide a combine harvester provided with a grass-dividing bar for sure carrying out of protrusive traveling, and traveling to a housing position.

SOLUTION: The combine harvester is equipped with a narrow guide device (8), protruding laterally outside between a front unreaped part of a reaping machine (3) to a rear unreaped part of a machine body (1a), and separating unreaped grains and culms.The grass-dividing bar (9), constituting the narrow guide device (8) for separating grains and culms, is divided into two parts consisting of a front grass-dividing bar (9a) and a rear grass-dividing bar (9b).The front edge of the front grass-dividing bar (9a) is freely rotatably attached to a support plate (16e) installed on a support pipe (16d) of a grass-dividing body (16a).The rear edge of the rear grass-dividing bar (9b) is freely movably attached to a support tool (2c) installed on a left side of a traveling body (2).The rear edge of the front grass-dividing bar (9a) and the front edge of the rear grass-dividing bar (9b) are freely rotatably connected.A link system (11) is provided for setting the grass-dividing bar (9) as freely moving between a protruding position and the inside housing position.A overhang control lever (13) is provided for operating the link system (111).

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

ANAMI MASAYUKI

SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

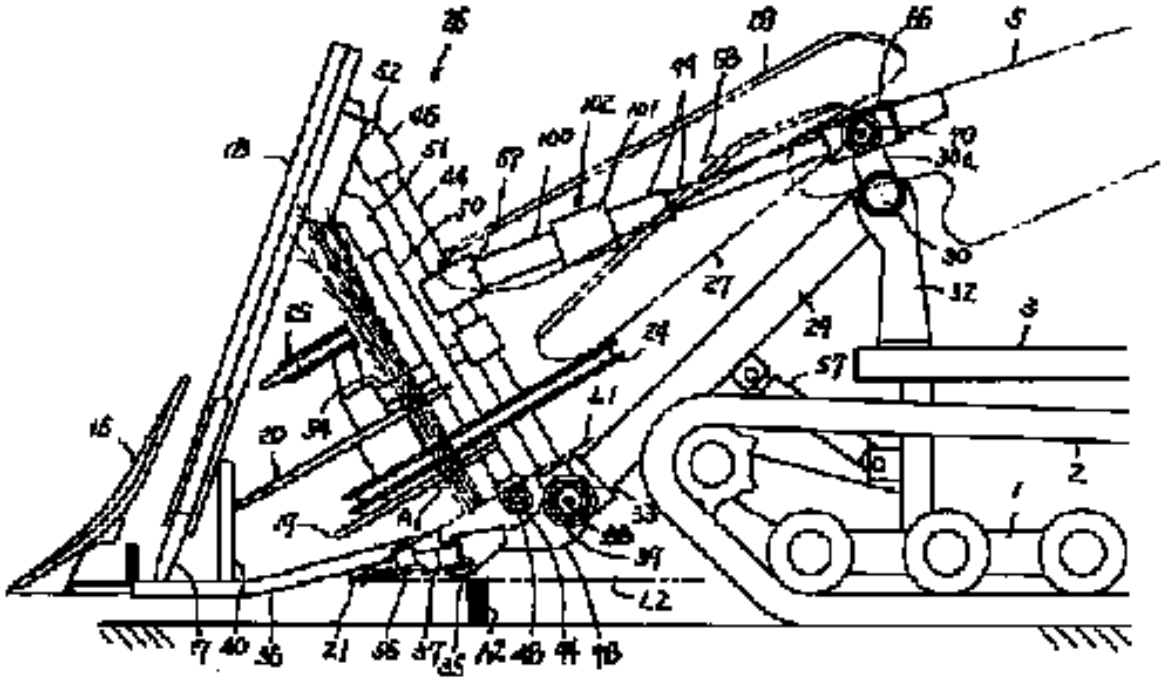
Family 271/667 - FAMPAT - ©Questel

Title

(JP09298934)

Reaper of combine harvester

Images



Publication data including kind & date

JPH09298934 A 1997-11-25 JP09298934

Abstract

(JP09298934)

PROBLEM TO BE SOLVED: To improve a grain culm taking over performance of pretreating device with a vertically carrying device for taking over and carrying a reaped grain culms to a thresher.SOLUTION: In this reaping device of a combine harvester, a pretreating device 26 is connected to a rotating supporting part 66 of vertical carrying devices 27 and 28 by a coupling member 68 having a joint 102 in the intermediate part and the joint of the coupling member is provided in a position at which right and left slide amount in front end of a vertical carrying device become nearly same as right and left slide amounts of the pretreating device.Since the pretreating device in the front of a reaping part is laterally slid, in a

reaping device of the combine harvester in which the vertically carrying device for taking over and carrying reaped grain culms from the pretreating device to the threshing part is laterally rotated round backward vertical shaft, interlocking with right and left slides, the pretreating device is constituted so as to slightly obliquely slid to perpendicular direction in advancing direction of a machine body and the angle is changed to an angle in which longitudinal moving amount of the pretreating device is nearly same as longitudinal moving amount accompanied by lateral slide at the front end of the vertically feeding device.

Inventors

YABUKI MAKOTO

IWAI HARUO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

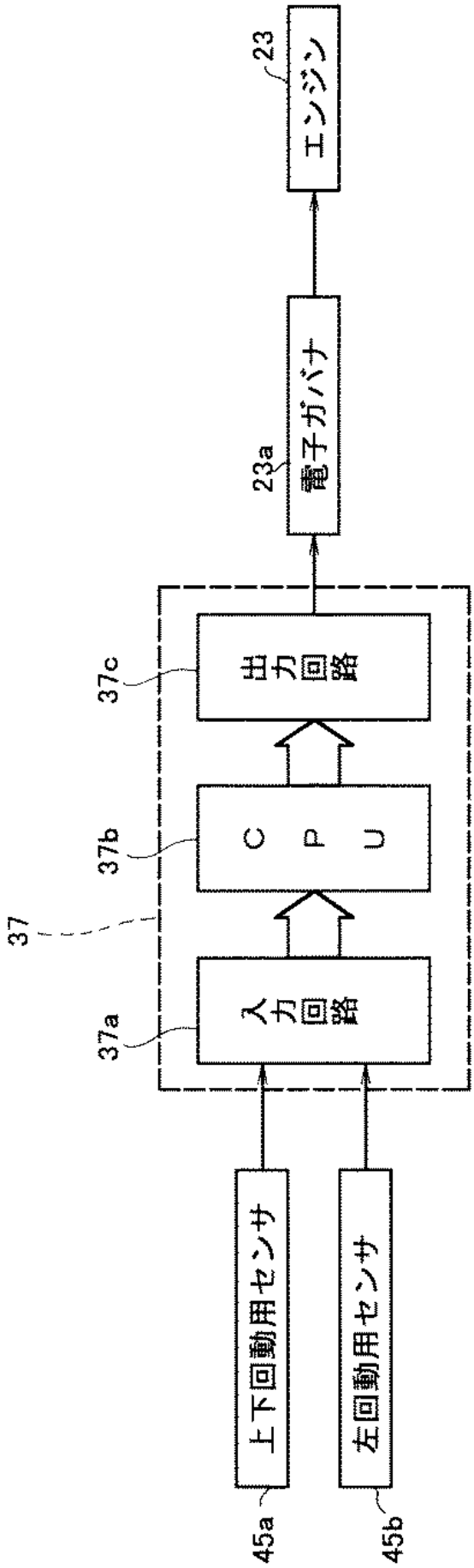
Family 272/667 - FAMPAT - ©Questel

Title

(JP2006204120)

Apparatus for turning reaping part of combine harvester

Images


23
エンジン
23a
電子ガバナ
37c
出力回路
37b
CPU
37
37a
入力回路
上下回動用センサ
左回動用センサ
45a
45b

Publication data including kind & date

JP2006204120 A 2006-08-10 JP2006204120

Abstract

(JP2006204120)
PROBLEM TO BE SOLVED: To automatically change number of revolutions of engine to number of revolutions of idling or prescribed low number of revolutions when carrying out turning movement operation of a reaping machine for reaping and transporting grain culms to the outside position on either one side.
SOLUTION: The reaping machine 4 for reaping and transporting grain culms is installed so as to enable free lifting and lowering, turning movement by an expansion cylinder 17 and enable free turning movement operation to the outside of the side by a turning apparatus 5 and when carrying out turning movement operation of the reaping machine 4 to the outside position on the side, number of revolutions of the engine 23 is changed to number of revolutions of idling or prescribed low number of revolutions by a controller 37.
COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

FUJITA YASUSHI
UEJI YOSHITAKA

Latest standardized assignees - inventors removed

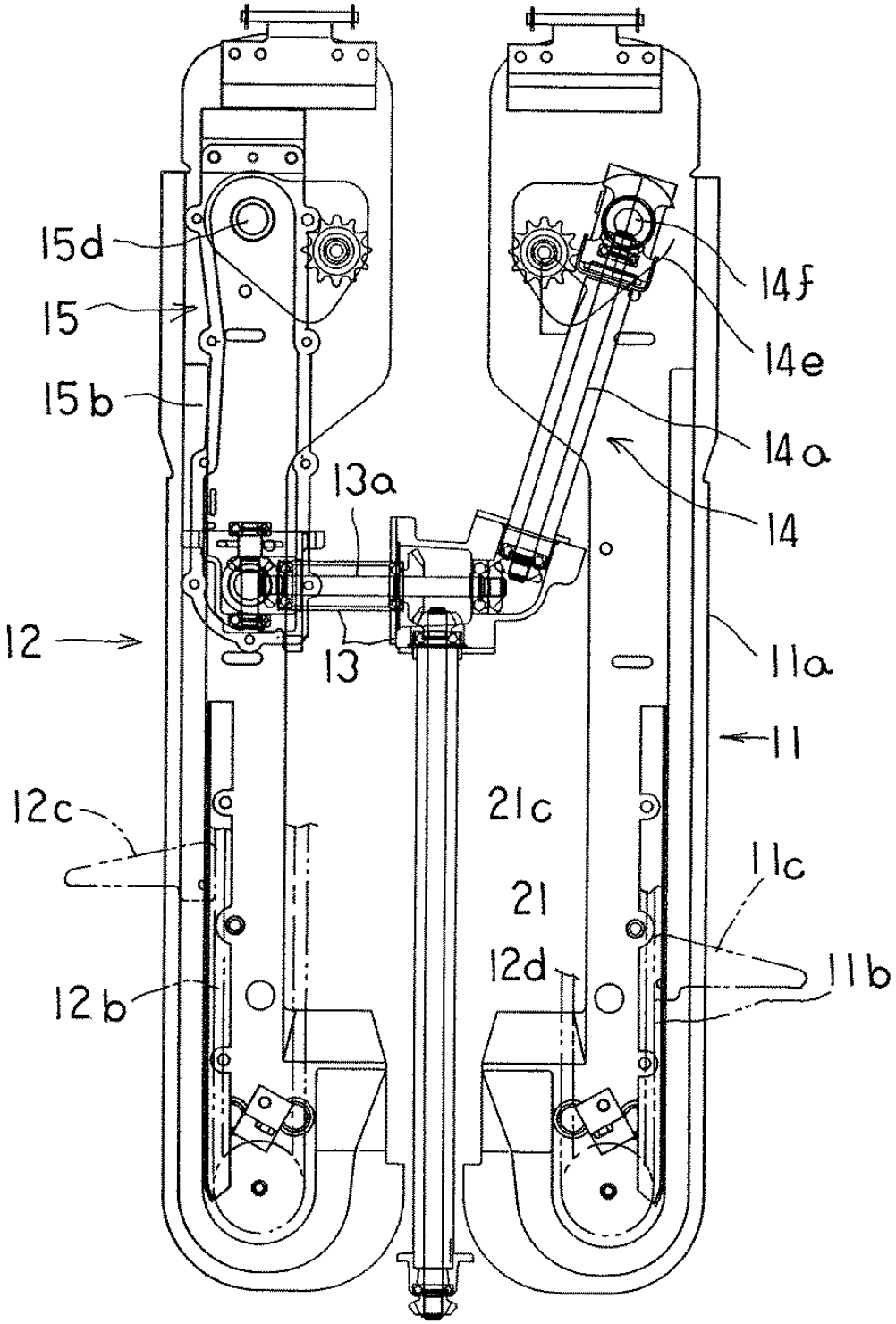
ISEKI AGRICULTURAL MACHINERY

Family 273/667 - FAMPAT - ©Questel

Title

(JP2006121945)
Raising up transmission device of combine harvester

Images



Publication data including kind & date

JP2006121945 A 2006-05-18 JP2006121945

Abstract

(JP2006121945)

PROBLEM TO BE SOLVED: To solve problems such that, by installing a plurality of cereal culm-raising devices jointly moving with a driving lateral shaft installed at the upper part of a taking part, individually and moved jointly, the weight of mounting part of the cereal culms-raising up devices, or an upper part frame for joining the upper ends of the cereal culm-raising up devices becomes necessary to lead a higher cost, and the like.

SOLUTION: The subject raising up transmission device of a combine harvester is constituted by installing a left/right raising

up devices 9, 10 for raising up standing cereal culms at the left and right both outside parts, and left central/right central raising up devices 11, 12 closely placed at the left and right both sides of its central part, a branched gear case 13 for rotating/driving at the left central/right central raising up devices 11, 12, and also left/right driving devices 14, 15 installed at the upper side of the branched gear case 13 as divided in left and right and facing in upward direction to rotate/drive the left central/right central raising up devices 11, 12.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

ANAMI MASAYUKI

SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

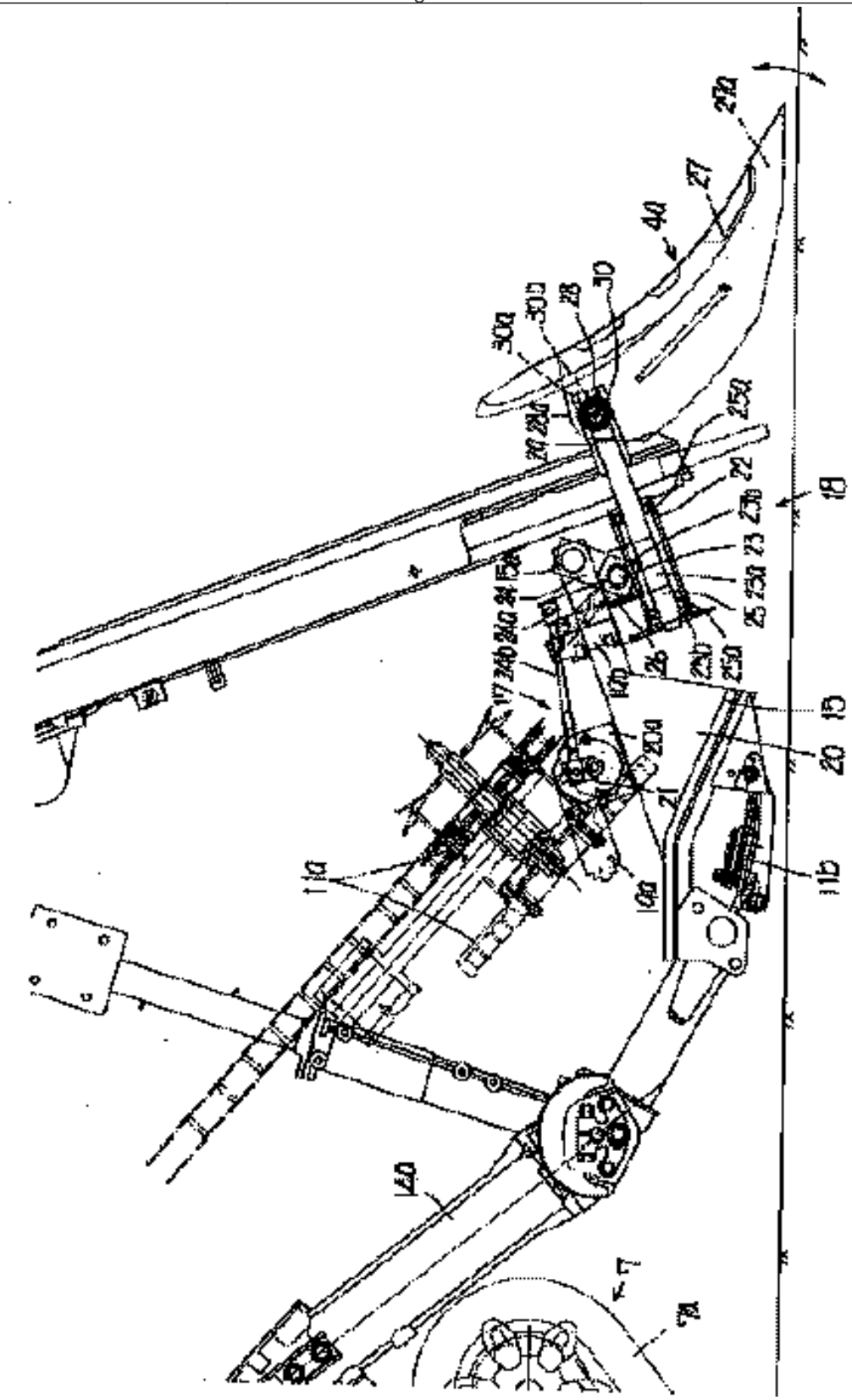
Family 274/667 - FAMPAT - ©Questel

Title

(JP2002125438)

Cereal stalk separating unit for combined harvester

Images



Publication data including kind & date

JP2002125438 A 2002-05-08 JP2002125438

Abstract

(JP2002125438)

PROBLEM TO BE SOLVED: To provide a cereal stalk separating unit for a combined harvester, used for separating standing cereal stalks and having such a stalk separator that is positioned on the outside of any one of both the sides of a reaping machine and made to return to its initial posture when the reaping machine is operated to be positioned in a prescribed height.SOLUTION: This cereal stalk separating unit for the combined harvester has plural stalk separators 4a, 4b which are positioned on the front areas of the reaping machine 3 and used for separating the standing cereal stalks, wherein the stalk separator 4a which is positioned on the outside of any one of the right and left sides and rotationally

moves freely in both the vertical and transverse directions is made to return to the initial posture by a controller when the reaping machine 3 is operated to be positioned in the prescribed height.The stalk separator 4a is ascended faster in speed than it is descended.Further, an operating means for operating the rotational movement in both the vertical and transverse directions is positioned on a main speed-change lever for conducting a variable speed operation for a traveling unit.

Inventors

SATOJI HISAYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

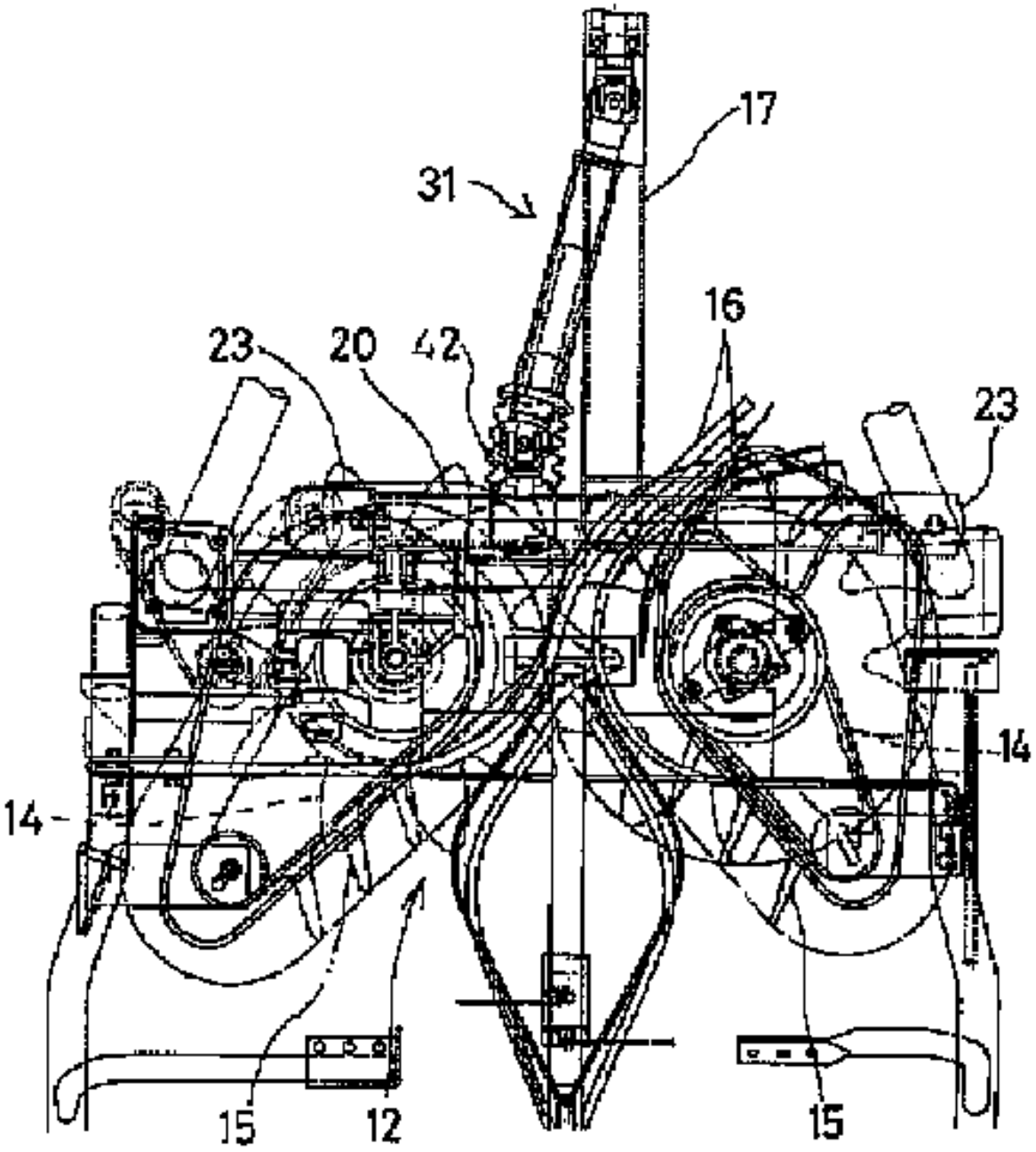
Family 275/667 - FAMPAT - ©Questel

Title

(JP11243746)

Combine harvester

Images



Publication data including kind & date

JPH11243746 A 1999-09-14 JP11243746

Abstract

(JP11243746)

PROBLEM TO BE SOLVED: To provide a combine harvester coupled with a pretreatment section in a transversely movable way, and designed to obviate to the utmost such an unfavorableness that raked grain culms come into contact with a joint transmission linked to the power input part of the pretreatment section.SOLUTION: This combine harvester is so designed that the lateral position of the pretreatment power input shaft 42 relative to the raking carriage route of a raking conveyor 12 is biased oppositely to the biased direction of the raking carriage route to prevent contact between a joint transmission mechanism 31 and raked grain culms, and furthermore, the transversely movable range of a pretreatment

frame is regulated by the aid of a stopper bolt free to adjust its position to prevent such an unfavorableness that the joint transmission mechanism 31 comes into contact with other members when the pretreatment section moves transversely.

Inventors

KOMATSU MASAHIRO

Latest standardized assignees - inventors removed

MITSUBISHI AGRICULTURAL MACHINERY

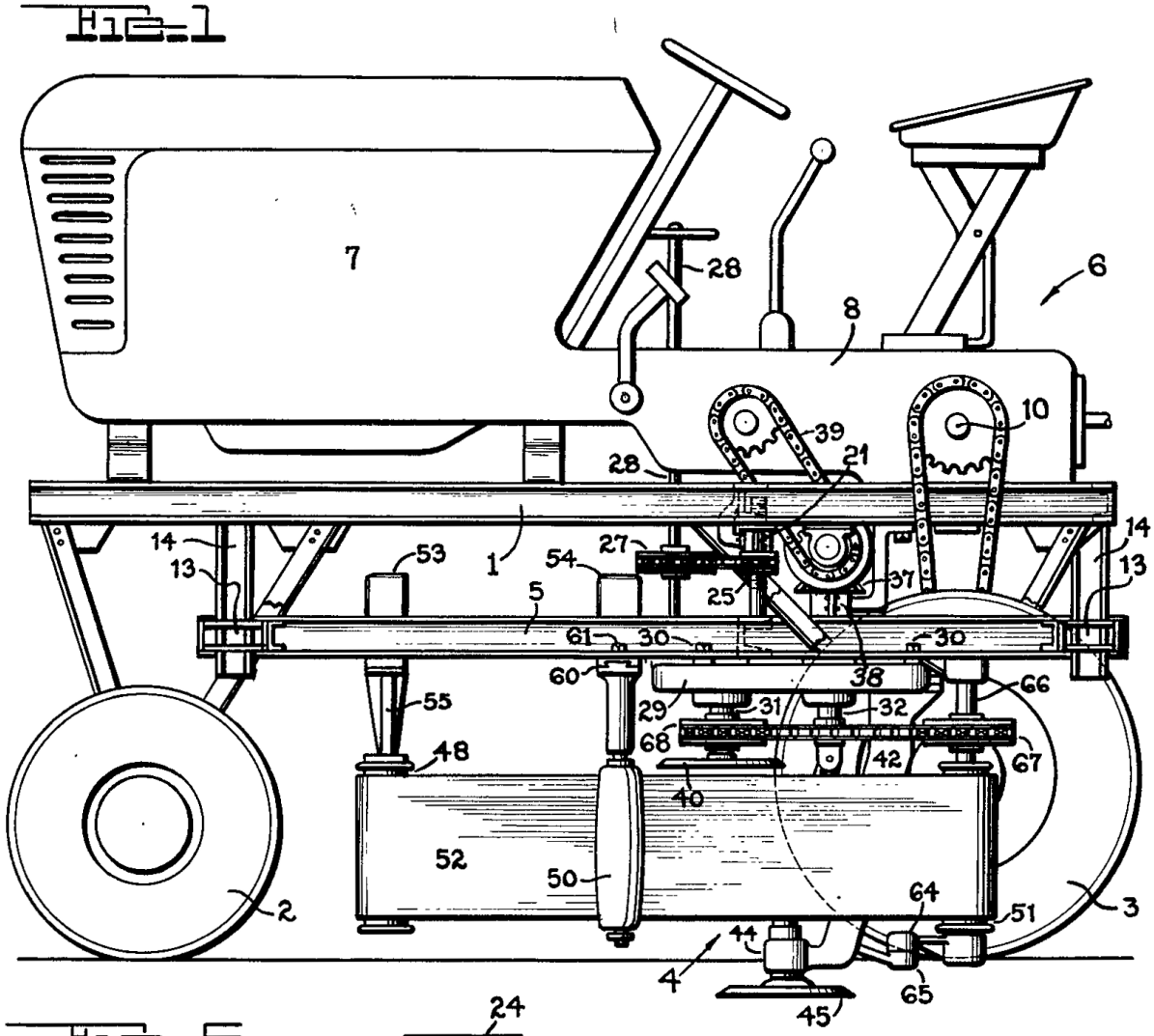
Family 276/667 - FAMPAT - ©Questel

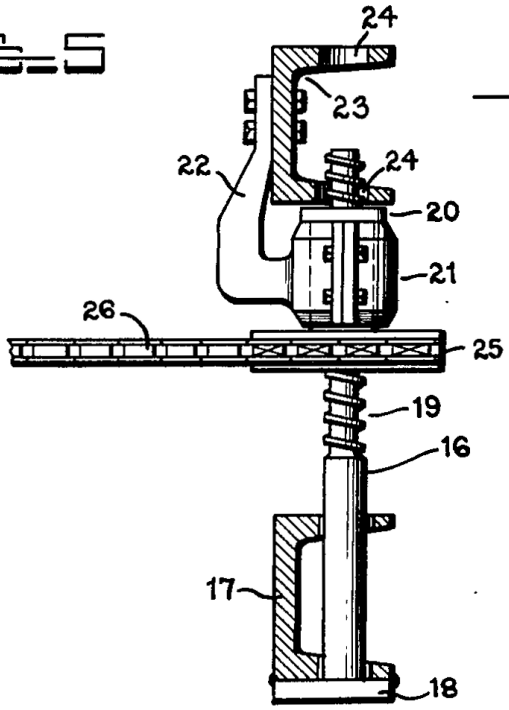
Title

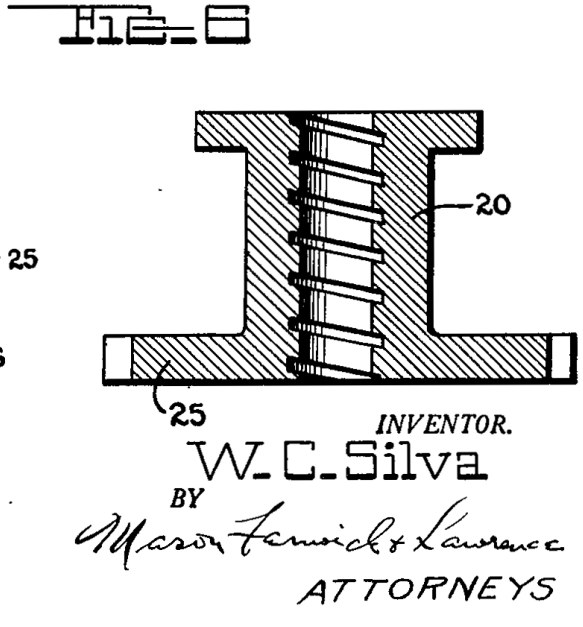
(US2529515)

Celery harvester

Images







Publication data including kind & date

US2529515 A 1950-11-14 US2529515

Inventors

SILVA WILLARD C

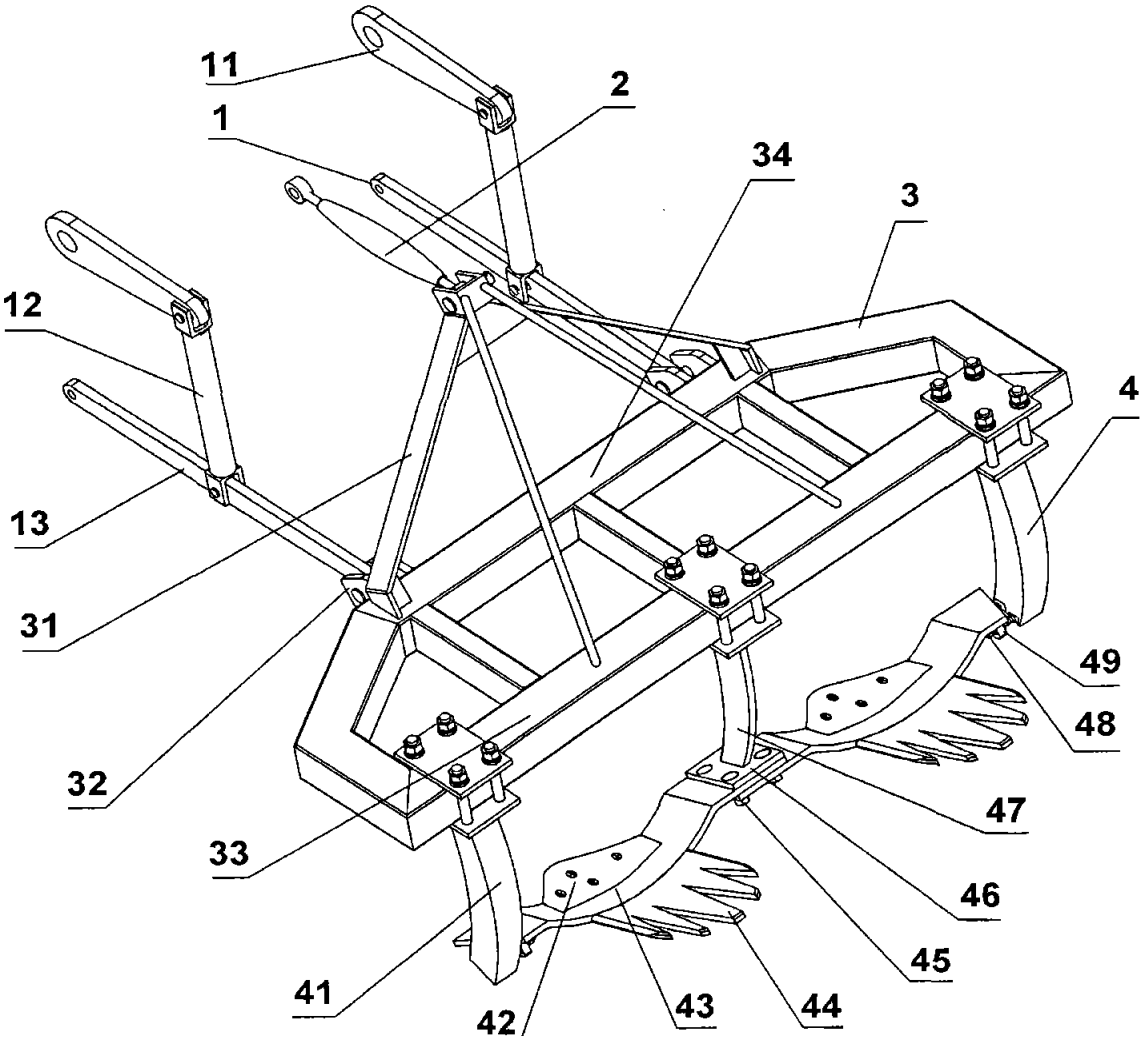
Family 277/667 - FAMPAT - ©Questel

Title

(CN201557387U)

Novel cassava harvester

Images



Publication data including kind & date

CN201557387 U 2010-08-25 CN201557387U

Abstract

(CN201557387U)

The utility model discloses a novel cassava harvester, which comprises a lifting traction unit hinged on a body, a pull rod fixed on the body, a frame and a cassava harvesting unit.The cassava harvester is characterized in that the cassava harvesting unit is mainly formed by two support columns, driving teeth, arc knife plate and a claw type lengthened plate, the upper ends of the two support columns are fixed on the top portion of a rear main beam of the frame, the arc knife plate is arranged between the two support columns, two ends of the arc knife plate are connected with the lower ends of the two support columns, the driving teeth are arranged at the front end of the arc knife plate, and the claw type lengthened plate is arranged at the rear end of the arc knife plate.The harvester can realize combined operation of cassava root harvesting and soil loosening, the driving teeth arranged at the front end of the arc knife plate and the claw type lengthened plate arranged at the rear end favors soil driving and can further separate the root from the soil, the detachable driving teeth can be replaced immediately after being worn, thereby facilitating maintenance, and the harvester can meet cassava roots with different row spacing due to conveniently adjustable working length of the arc knife plate.

Inventors

HUANG HUI
GAO WENWU
XUE ZHONG

CUI ZHENDE

LI MING

ZHANG JING

DENG YIGUO

JIANG ZHIGUO

Latest standardized assignees - inventors removed

AGRO MACHINERY RESEARCH INSTITUTE OF CHINESE ACADEMIC OF TROPICAL AGRICULTURAL SCIENCES

Family 278/667 - FAMPAT - ©Questel

Title

(US2482530)

Harvester

Images

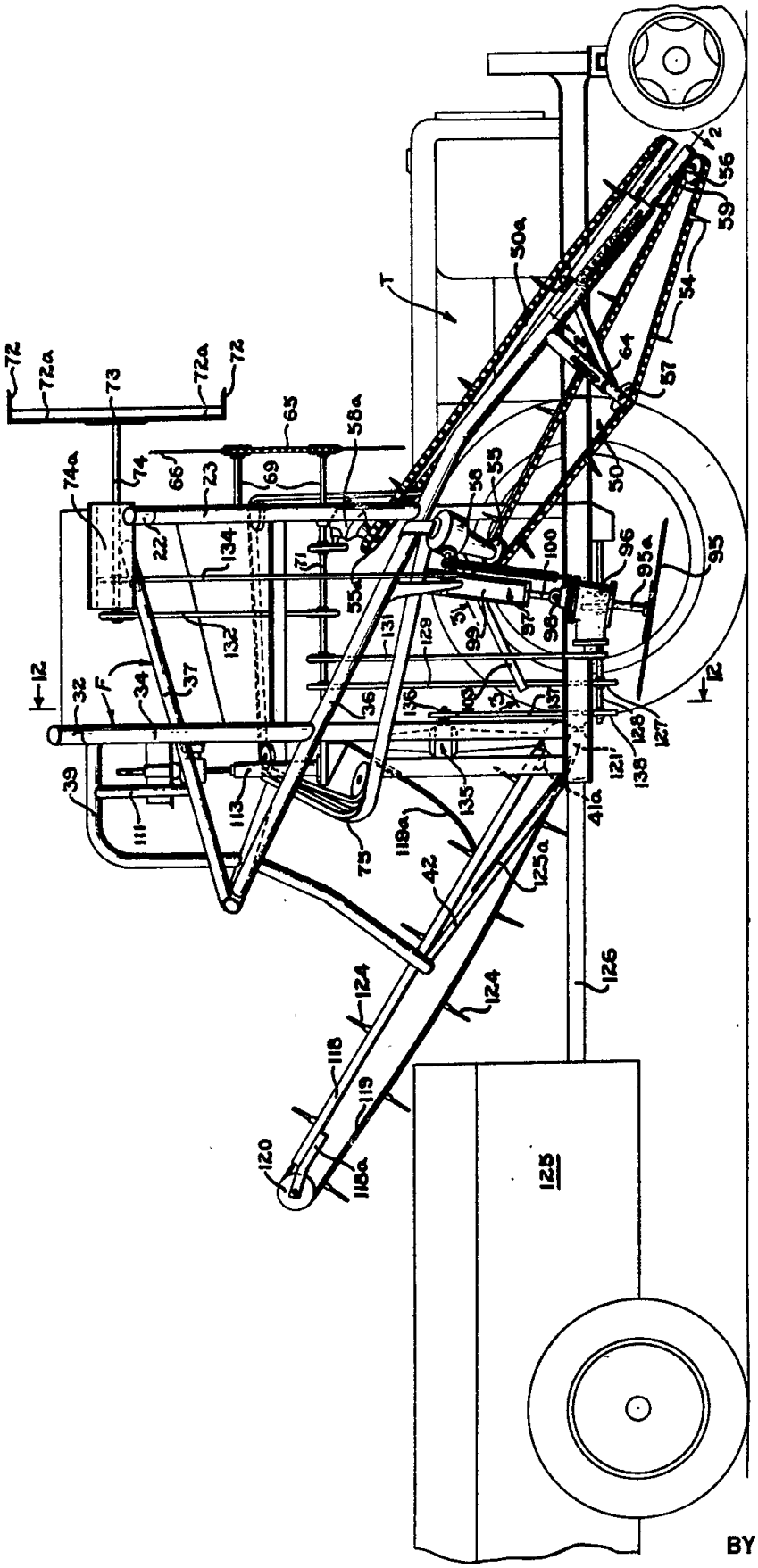


Fig 1

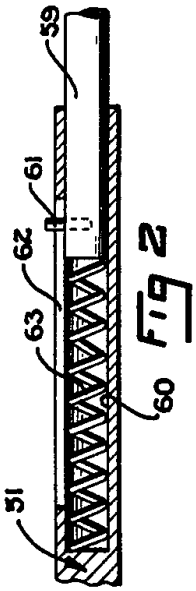


Fig 2

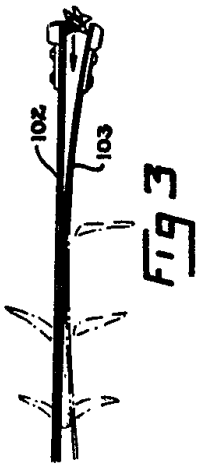


Fig 3

INVENTOR
Allan R. Wurtele
BY
F Bascom Smith
ATTORNEY

Publication data including kind & date

US2482530 A 1949-09-20 US2482530

Inventors

GARRETT WURTELE NOEMIE

PHILLIPS N P

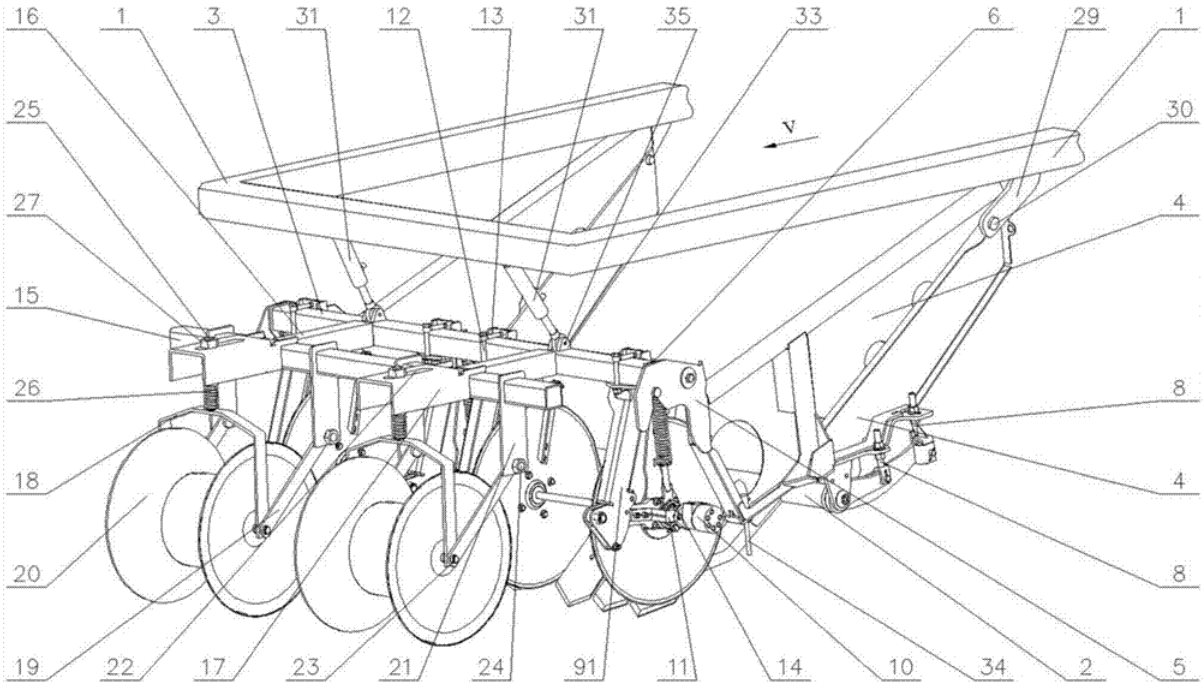
Family 279/667 - FAMPAT - ©Questel

Title

(CN107318339)

Soil cutting driving and soil compressing adjusting device for potato harvester

Images



Publication data including kind & date

CN107318339 A 2017-11-07 CN107318339

Abstract

(CN107318339)

The invention belongs to the field of potato harvesters, and particularly relates to a soil cutting driving and soil compressing adjusting device for a potato harvester.The soil cutting driving and soil compressing adjusting device comprises a upper framework (1), a lower framework, two vertical plates (4), hydraulic cylinders (31), a hydraulic control system, sensors (34), digging devices (2), soil cutting driving units and soil compressing adjusting units.The digging devices (2) are symmetrically arranged on the inner sides of the two vertical plates (4); the soil cutting driving units comprise soil cutting adjusting devices, hydraulic motors (10) and supports (11); the soil compressing adjusting units comprise hanger frames (17), adjusting frames (18), connecting arms (19), soil compressing wheels (20) and second connecting plates (21).The soil cutting driving and soil compressing adjusting device has the advantages that good soil cutting and soil compressing effects can be realized, the soil cutting driving and soil compressing adjusting device is beneficial to improving the potato and soil separation efficiency and the harvesting quality, and the adaptability of the potato harvester to different land parcels can be improved.

Inventors

LI HONGWEN
WEI ZHONGCAI
HE JIN
WANG QINGJIE
LIU WENZHENG
WANG XIANLIANG
HU HONGNAN
NIU QI
ZHANG YUFAN

Latest standardized assignees - inventors removed

CHINA AGRICULTURAL UNIVERSITY

Family 280/667 - FAMPAT - ©Questel

Title

(FR1128352)

For a tractor Harvester

Publication data including kind & date

FR1128352 A 1957-01-04 FR1128352

Latest standardized assignees - inventors removed

MASSEY HARRIS FERGUSON

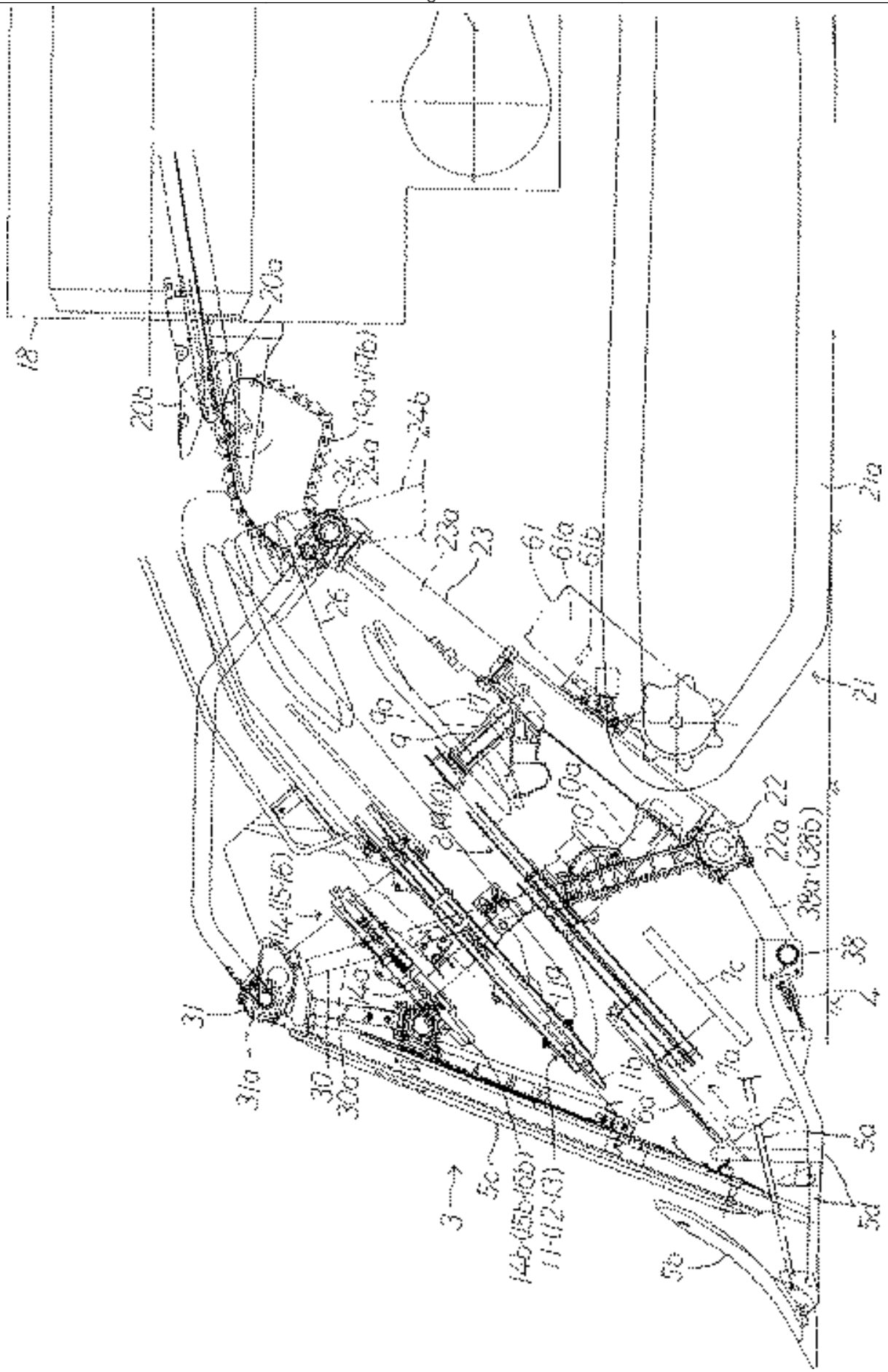
Family 281/667 - FAMPAT - ©Questel

Title

(JP2004033055)

Grain straw transport device of combine harvester

Images



Publication data including kind & date

JP2004033055 A 2004-02-05 JP2004033055

Abstract

(JP2004033055)

PROBLEM TO BE SOLVED: To widen a transport route comprising right, middle and left root transport devices and right, middle and left ear pit transport devices for transporting the root sides and ear tip sides of the grain straws to improve the performance of the transport.

SOLUTION: A combine harvester in which the right, middle and left root transport devices 8, 9, 10 and the right, middle and left ear tip transport devices 11, 12, 13 for transporting the root sides and the ear tip sides of the grain straws are disposed is characterized by disposing a right drive shaft 9a and a middle drive shaft 10a for rotating the right, middle and left root transport devices 8, 9, 10 in approximate parallel to an inclined support case 23 and disposing bevel gears back to back to form a transmission structure from a transmission mechanism of the inclined support case 23.

COPYRIGHT: (C)2004,JPO

Inventors

IIIZUMI KIYOSHI
TAKAHASHI HAKURO
KITAGAWA TOMOSHI
AKEHI RIYUUJI

Latest standardized assignees - inventors removed

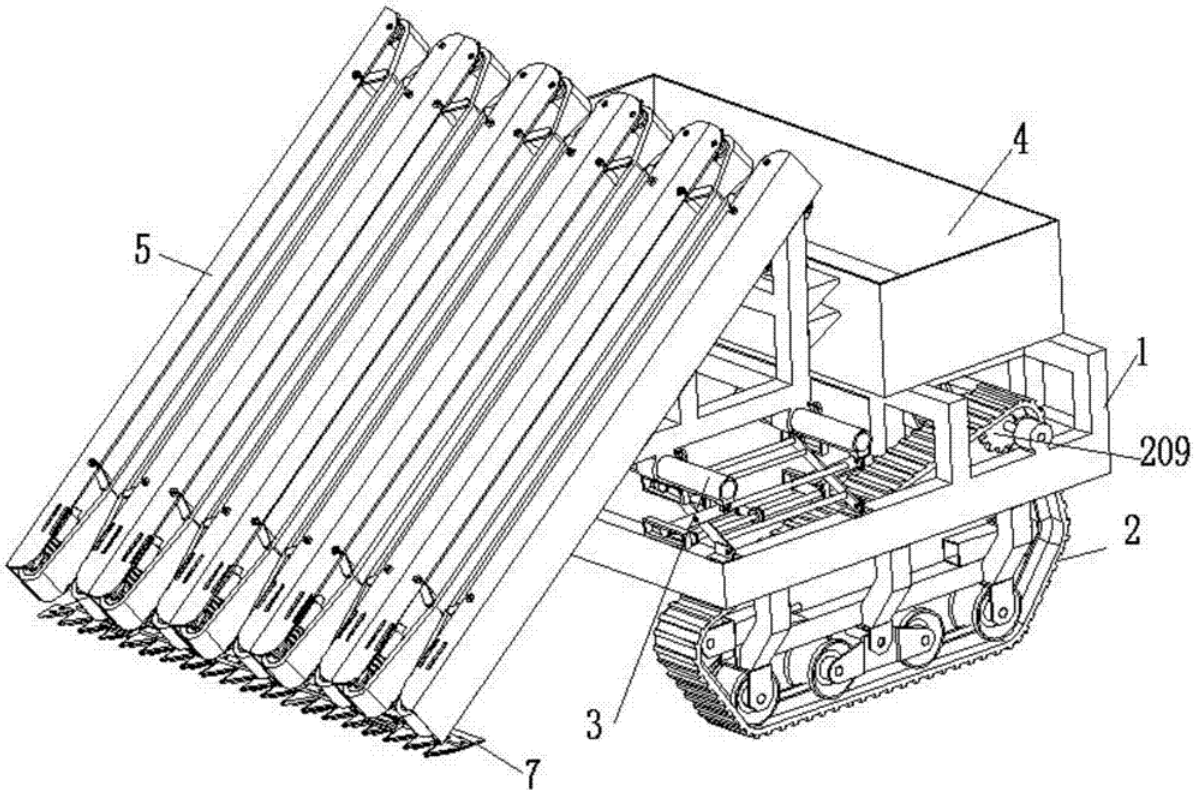
ISEKI AGRICULTURAL MACHINERY

Family 282/667 - FAMPAT - ©Questel

Title

(CN108271509)
Automatic harvester for leaf vegetables

Images



Publication data including kind & date

CN108271509 A 2018-07-13 CN108271509

Abstract

(CN108271509)

The invention discloses an automatic harvester for leaf vegetables.The harvester is characterized by comprising a retractable frame (1), continuous track mobile devices (2) are arranged at the two ends of the lower portion of the retractable frame (1) respectively, a fork frame lifting device (3) and a storage box (4) are arranged on the retractable frame (1) in the movement direction of the continuous track mobile devices (2) in sequence, and the fork frame lifting device (3) is

provided with a flexible clamping conveying device (5); a discharge end of the flexible clamping conveying device(5) is provided with a discharge guide rack (6) corresponding to the storage box (4), and a reciprocating-type cutter (7) is arranged on the lower portion of the flexible clamping conveying device (5).The automatic harvester for the leaf vegetables has the advantages that the labor intensity can be lowered, the production cost can be reduced, and the harvesting efficiency can be improved.

Inventors

JIANG RUI

SHEN YUNDE

ZHANG CHENGHAO

Phoebe

WANG MINLIANG

Latest standardized assignees - inventors removed

INSTITUTE OF LASER & OPTOELECTRONIC INTELLIGENT MANUFACTURING WENZHOU UNIVERSITY

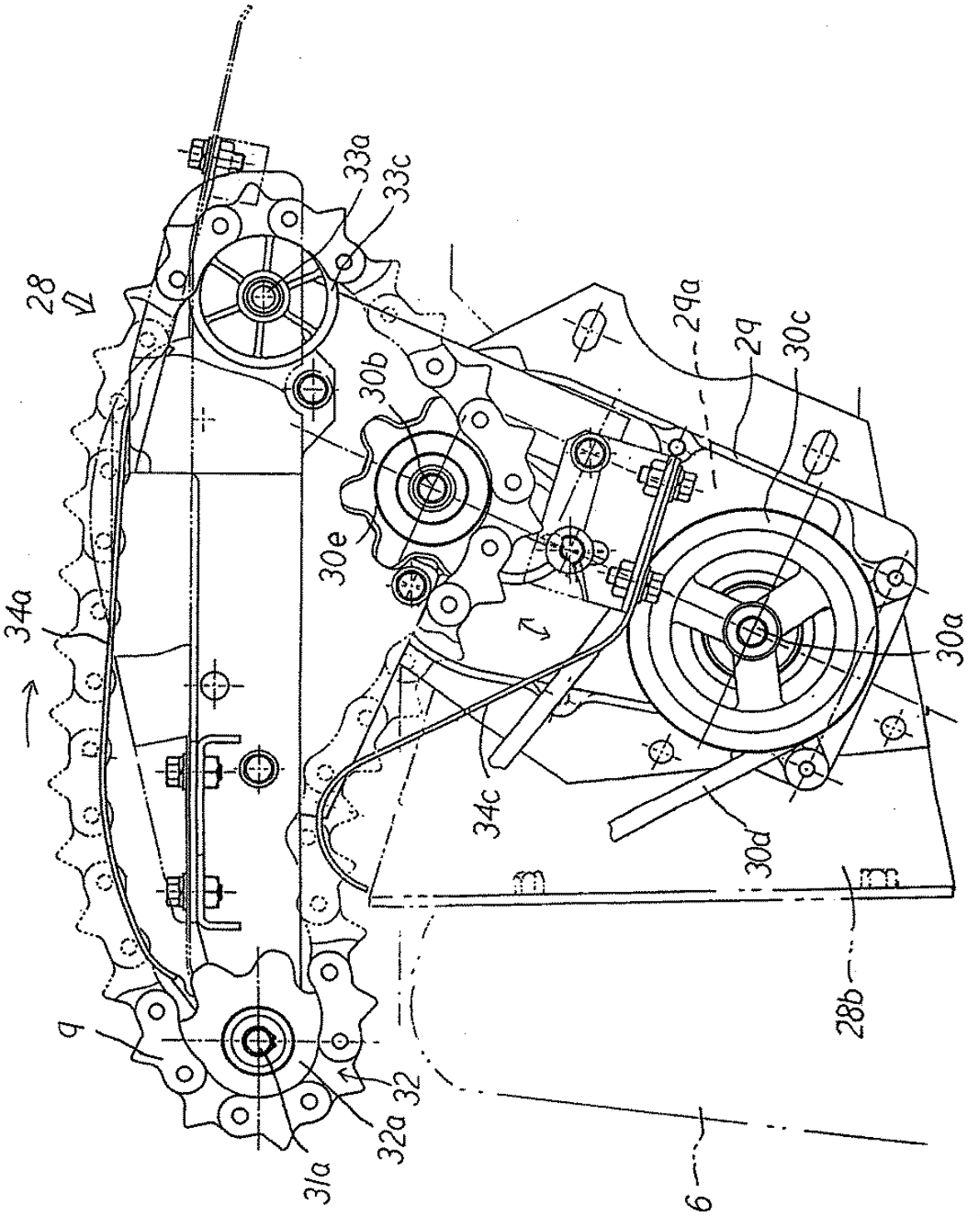
Family 283/667 - FAMPAT - ©Questel

Title

(JP2009213494)

Combine harvester

Images



Publication data including kind & date

JP2009213494	A	2009-09-24	JP2009213494
JP4670982	B2	2011-04-13	JP4670982

Abstract

(JP4670982)

PROBLEM TO BE SOLVED: To stabilize the relaying position of cereal culms from a reaping machine to an auxiliary conveying chain.

SOLUTION: This combine harvester is provided by installing the auxiliary conveying chain (9) at the inside position of a feed chain (11) between the rear side of a feeding/conveying device (24e) and a thresher (8) to make a constitution that the cereal culms conveyed by the feeding/conveying device (24e) are relayed and conveyed by the auxiliary conveying chain (9) and delivered to the feed chain (11) and nipping/holding rod (12) of the thresher (8), installing an input rotary wheel (30c) at an input shaft (30a) supported at the thresher (8) side, installing an output rotary wheel (5b) at the outside of a second transmission mechanism (5a) at the inside of a supporting pipe case (5), laying a belt body (30d) over the output

rotary wheel (5b) and the input rotary wheel (30c), installing a first rotary wheel (30e) at a shaft (30b) driven by the input to the input shaft (30a) and laying the auxiliary conveying chain (9) over the first rotary wheel (30e) and a second rotary wheel (32a) equipped at a front side shaft (31a).

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

IMAMURA HIDEKAZU
TAKEUCHI KENICHIRO
MATSUI MASAMI
ICHIMARU TOMOYUKI
TAGAMI KAZUNARI
TOYODA KAZUO

Latest standardized assignees - inventors removed

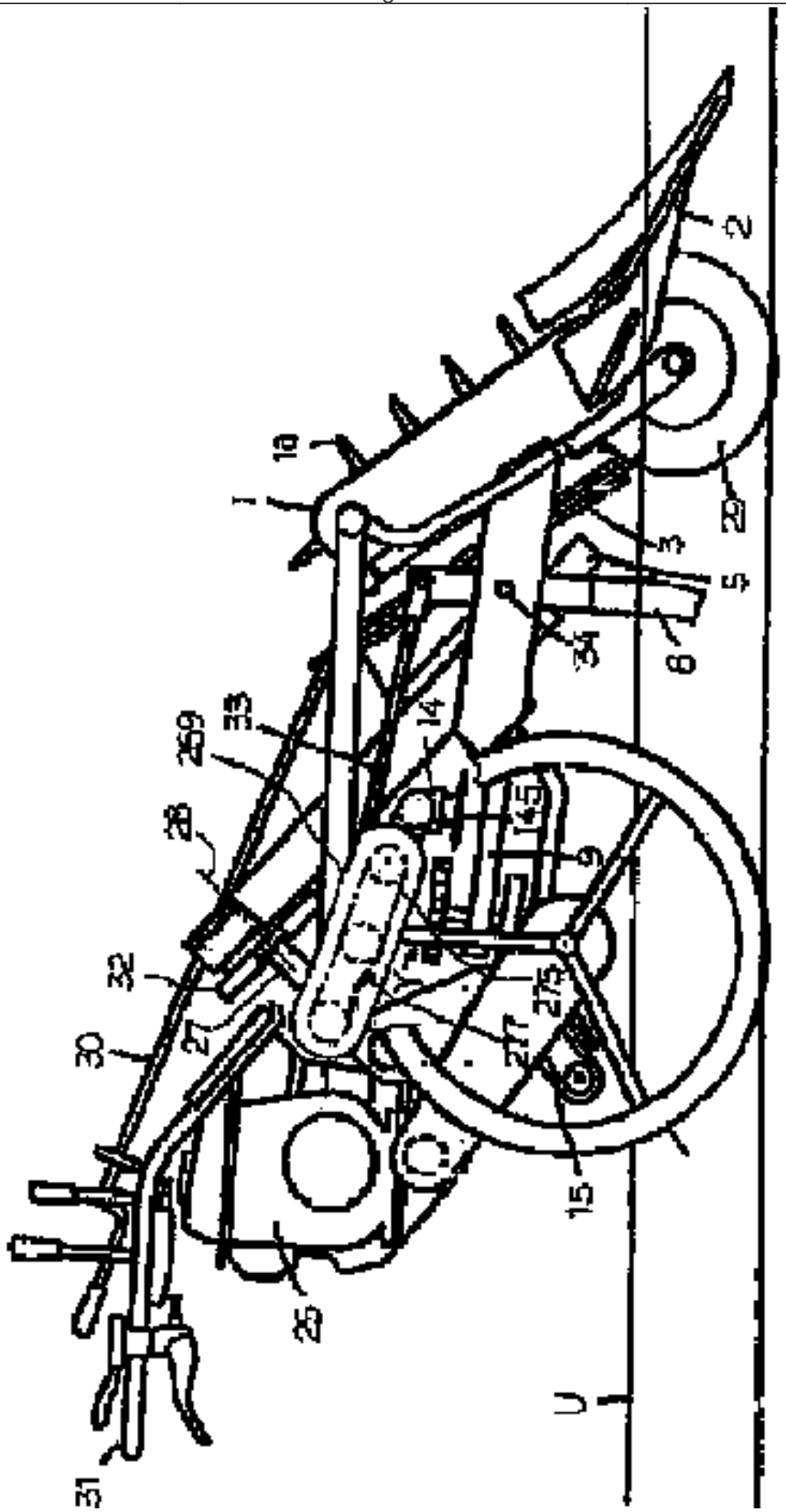
ISEKI AGRICULTURAL MACHINERY

Family 284/667 - FAMPAT - ©Questel

Title

(JP2000157023)
Rootstock harvester

Images



Publication data including kind & date

JP2000157023 A 2000-06-13 JP2000157023

Abstract

(JP2000157023)

PROBLEM TO BE SOLVED: To transmit a driving force of an engine surely and aim at the improvement of the rigidity of a cutting device itself in a rootstock harvester pulling out and harvesting onions or carrots planted in a ridge surface in a row by making the cutting off position for a stem with leaf part as changeable suitably as necessary and also the transmission system to the cutting device as difficult to be broken compared with that of a flexible shaft.SOLUTION: This rootstock harvester working so as to pull out rootstock crops planted in a ridge surface U and cut off at the middle of their stem with leaf parts by a cutting device 14 driven by an engine 25, is provided by making the fixed height position of the cutting

device as changeable and adjustable, and also transmitting the rotation of an engine 25 to the cutting device 14 through a rigid transmitting system 269 consisting of gears, rigid shafts, etc.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUDA YUKIHIRO
WATANABE KAZUYUKI

Latest standardized assignees - inventors removed

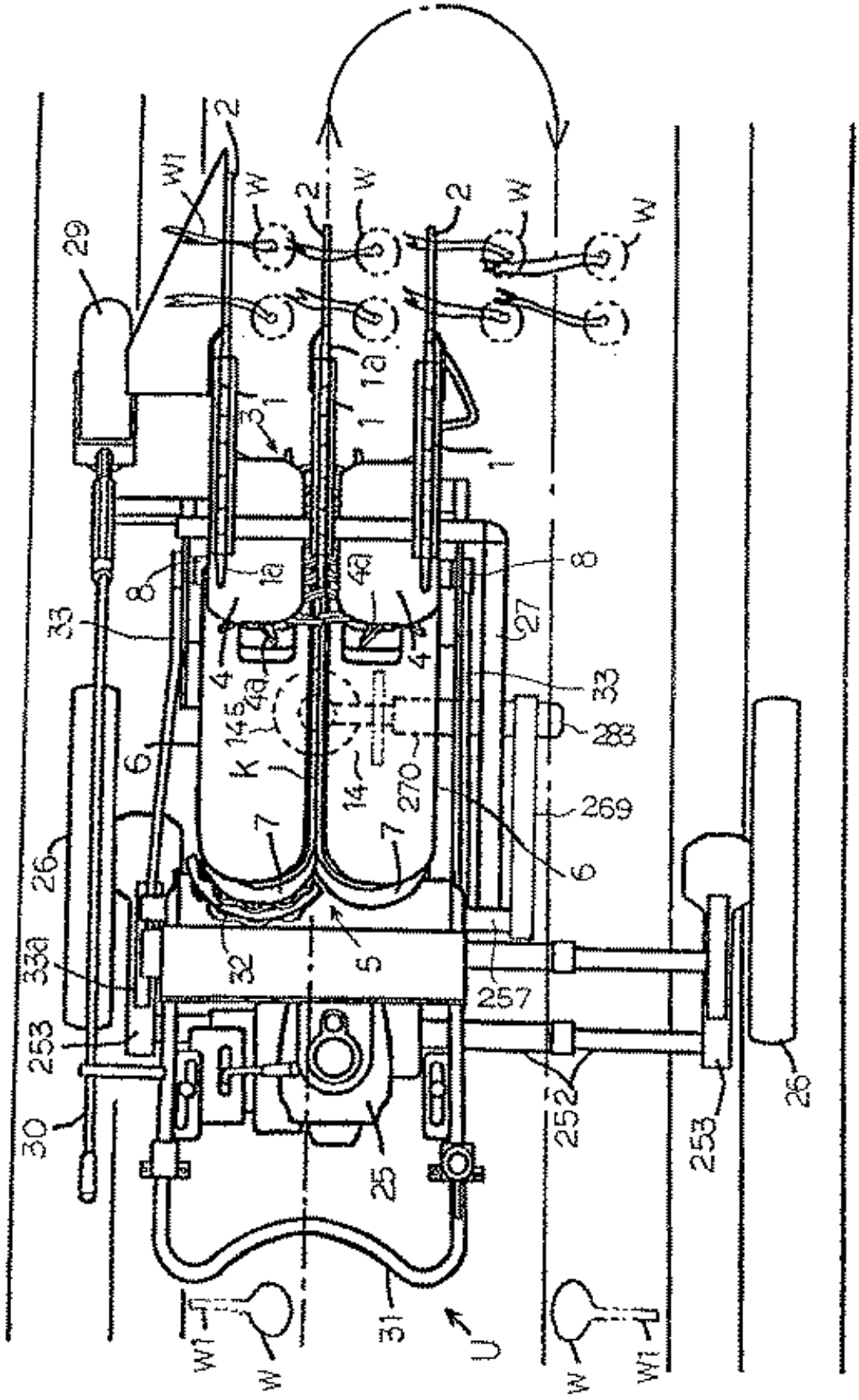
SEIREI INDUSTRY

Family 285/667 - FAMPAT - ©Questel

Title

(JP11178419)
Rhizome harvester

Images



Publication data including kind & date

JPH11178419	A	1999-07-06	JP11178419
JP3894641	B2	2007-03-22	JP3894641

Abstract

(JP3894641)

PROBLEM TO BE SOLVED: To provide a rhizome harvester capable of treating a rhizome crop such as an onion so that the length of a stem and leaf part remaining on a root side may be about 1-2 cm.SOLUTION: This rhizome harvester for digging up and conveying a rhizome crop (w) vegetating on a ridge surface U by a digging and conveying device 5, conveying the lower part of the stem and leaf part (w1) in the nearly horizontal rear direction by a lower part-nipping and conveying device during the conveyance, and cutting off the intermediate part of the length of the stem and leaf part (w2) by a cutting blade during the conveyance by the lower part- nipping and conveying device, has the cutting blade 200 installed at the position near to the rear part of the lower nipping and conveying device 9.A different cutting blade is preferably installed between the digging and conveying device 5 and the lower part nipping and conveying device.

Inventors

TERAMOTO SEIJI

MATSUI MIKIO

FUKUDA YUKIHIRO

WATANABE AKITO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

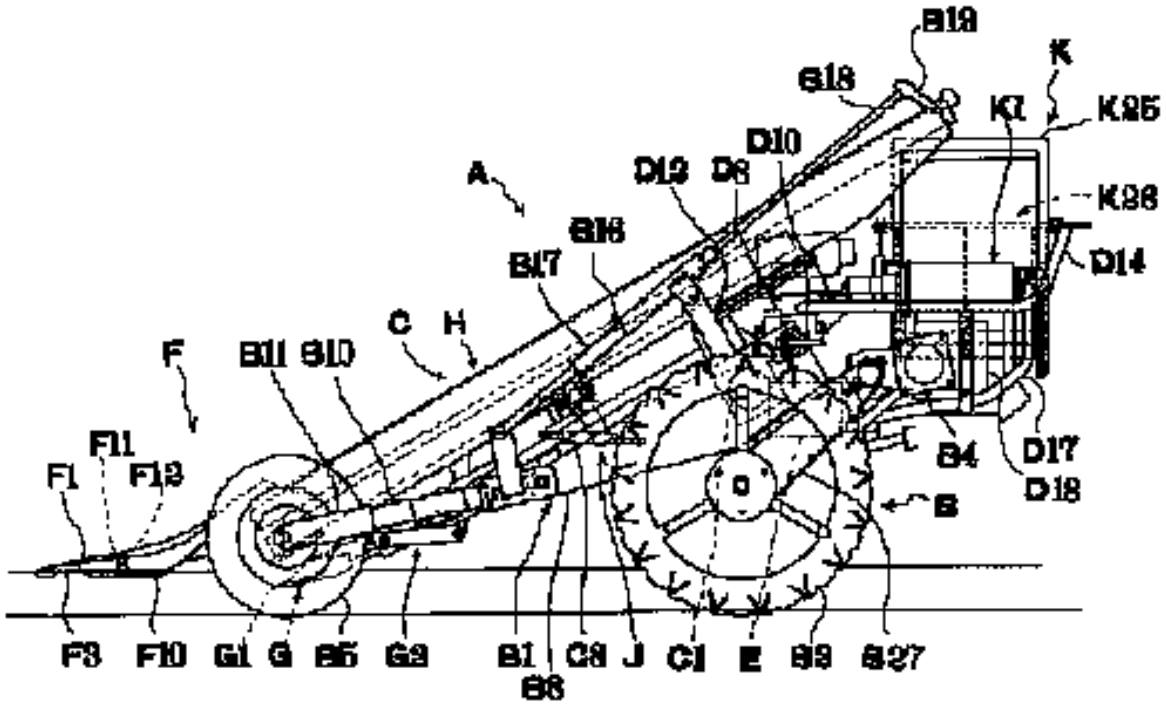
Family 286/667 - FAMPAT - ©Questel

Title

(JP09289817)

Leaf vegetable harvester

Images



Publication data including kind & date

JPH09289817 A 1997-11-11 JP09289817

Abstract

(JP09289817)

PROBLEM TO BE SOLVED: To provide a leaf vegetable harvester that can harvest leaf vegetables without damaging them and can barn the harvested leaf vegetables in alignment.SOLUTION: This leaf vegetable harvester comprises a functional unit C supported with a self-propelled unit B capable of self propulsion, which functional section C is provided with a leaf separator unit F to guide leaf vegetable planted in a field, a root cutting unit G to cut roots of leaf vegetables in the field ground, a transfer unit H with the inclination high at front and low at rear to pull the root-cut leaf vegetables out of the field ground and to transfer the harvested leaf vegetables backward, and a barning unit K to barn the harvested leaf

vegetables transferred through the transfer unit K.The barning unit K is equipped with a lateral conveyor K1 connected to the end of the transfer unit H to convey the harvested leaf vegetables laterally, and a barning mechanism to maintain the height and inclination of a barning box K25, which barns the leaf vegetables, as desired with capability of adjusting the height and inclination at will.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUDA YUKIHIRO
IRIE NOBUYUKI

Latest standardized assignees - inventors removed

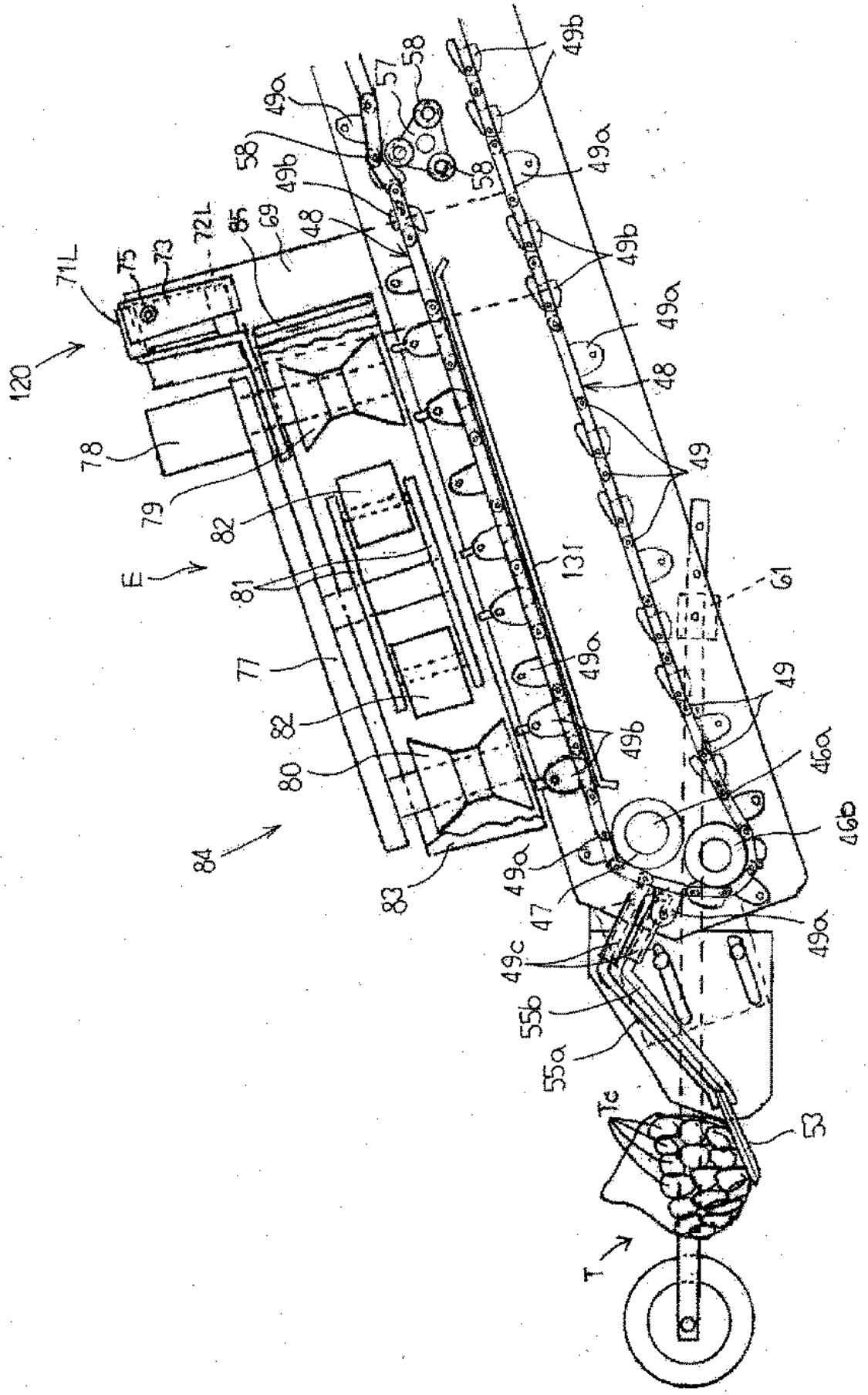
SEIREI INDUSTRY

Family 287/667 - FAMPAT - ©Questel

Title

(JP2010081801)
Crop separating harvester

Images



Publication data including kind & date

JP2010081801 A 2010-04-15 JP2010081801

JP5476698 B2 2014-04-23 JP5476698

Abstract

(JP5476698)

PROBLEM TO BE SOLVED: To smoothly transfer and convey taros dug by a digging member to a rear digging conveyor in a crop separating harvester.

SOLUTION: In the crop separating harvester equipped with the digging and conveying apparatus D for digging and conveying crops T backward, a first separation apparatus E for separating the crops T during conveyance, a second separation apparatus G for separating the unseparated crops T and a separating and conveying apparatus F for separating and conveying the separated crops T to the rear of the harvester, the conveying action surface along the longitudinal direction of the digging conveyor 50 is equipped with a plurality of conveying projections 49a for preventing the crops T from falling, the conveyance starting end side part of the digging conveyor 50 is equipped with a straight conveying part 50e in the vertical direction, moving from downward to upward, the digging member 53 is arranged ahead of the digging conveyor 50, a guide member 55a made of a plurality of rods is arranged behind the digging member 53, mud is dropped from the crops T by the guide member 55a and the crops are guided and supplied to the straight conveying part 50e in the vertical direction of the digging conveyor 50.

COPYRIGHT: (C)2010,JPO&INPIT

Inventors

ODAGIRI HAJIME

TAKAGI SHINGO

Takanori Iwabe

Latest standardized assignees - inventors removed

ISEKI

Family 288/667 - FAMPAT - ©Questel

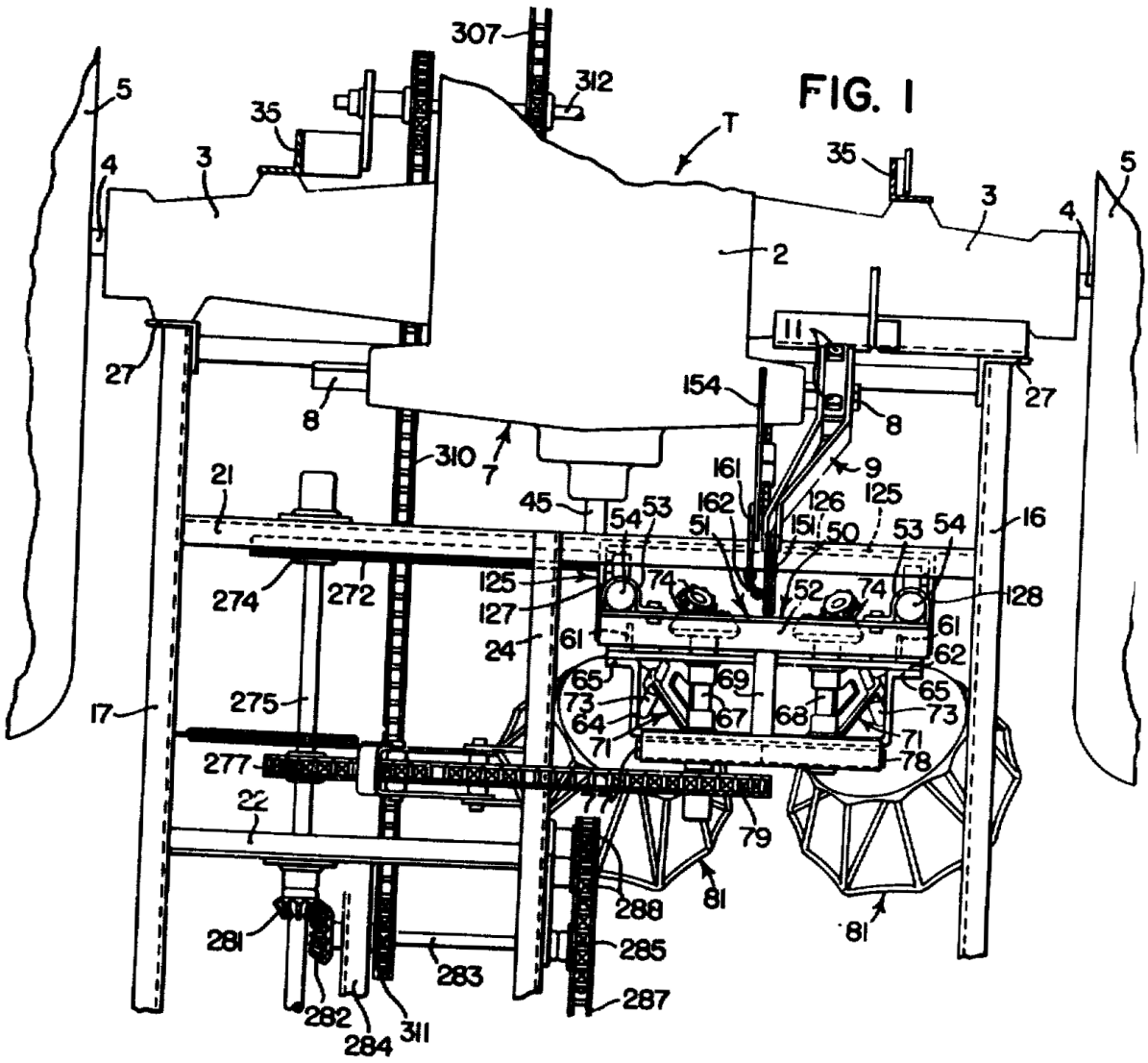
Title

(US2463447)

Beet harvester

Images

5 Sheets-Sheet 1



INVENTORS
CLAUDE W. WALZ, CLARENCE T. RASMUSSEN, ROBERT D. GRIFF
BY
ATTORNEYS.

Publication data including kind & date

US2463447 A 1949-03-01 US2463447

Inventors

WALZ CLAUDE W

GRIFF ROBERT D

RASMUSSEN CLARENCE T

Latest standardized assignees - inventors removed

DEERE

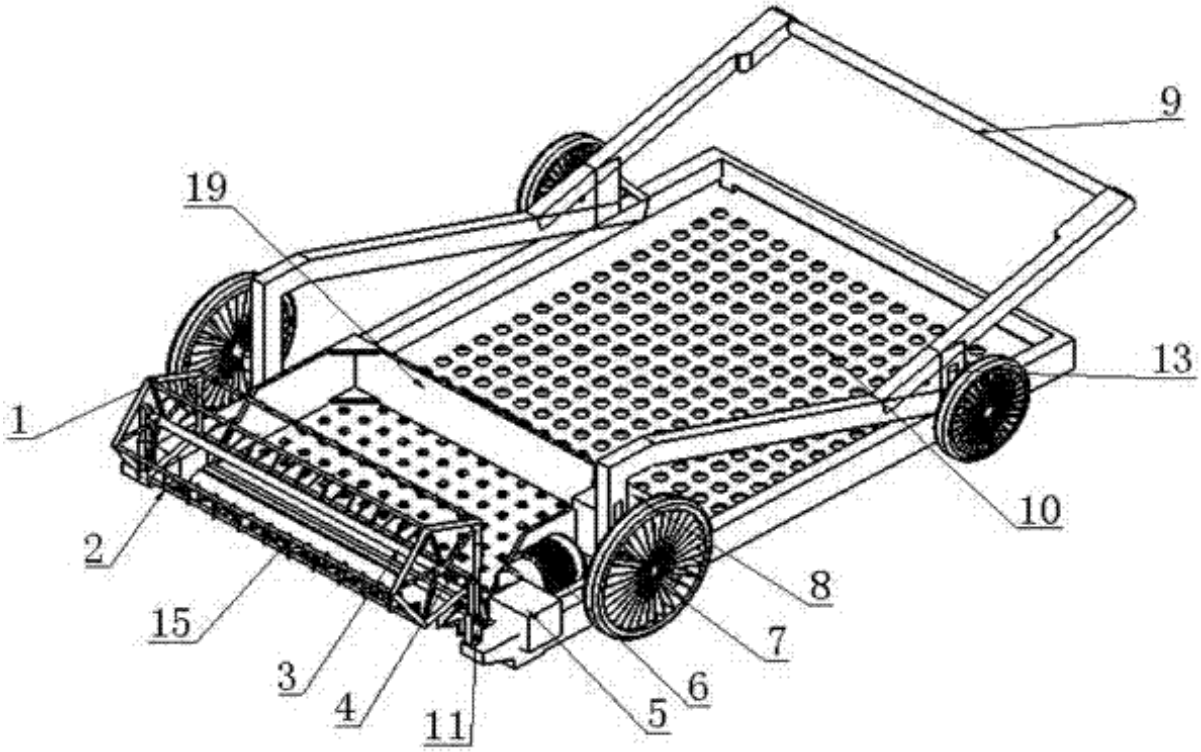
Family 289/667 - FAMPAT - ©Questel

Title

(CN107484495)

Leek harvester

Images



Publication data including kind & date

CN107484495 A 2017-12-19 CN107484495

Abstract

(CN107484495)

The invention relates to a leek harvester which comprises a rack with traveling wheels, wherein a reel driven to rotate by a motor is arranged at the front end of the rack; a cutting device arranged on the rack is arranged below the reel; a containing box is fixedly arranged on the rack and in the rear of the cutting device; and an open structure is formed in one side, which is close to the cutting device, of the containing box.The leek harvester disclosed by the invention is reasonable in overall structure and small in overall size, cutting is performed by the reel on the rack and the cutting device cooperating with each other, the cutting efficiency is greatly improved, and the labor intensity is alleviated.Moreover, the working time of peasants in a greenhouse is reduced, and thus the damage of a humid environment to body health is reduced.

Inventors

LI TIANHUA

CHEN DAJUN

HOU JIALIN

SHI GUOYING

LIU PING

LI YUHUA

WU YANQIANG

Latest standardized assignees - inventors removed

SHANDONG AGRICULTURAL UNIVERSITY

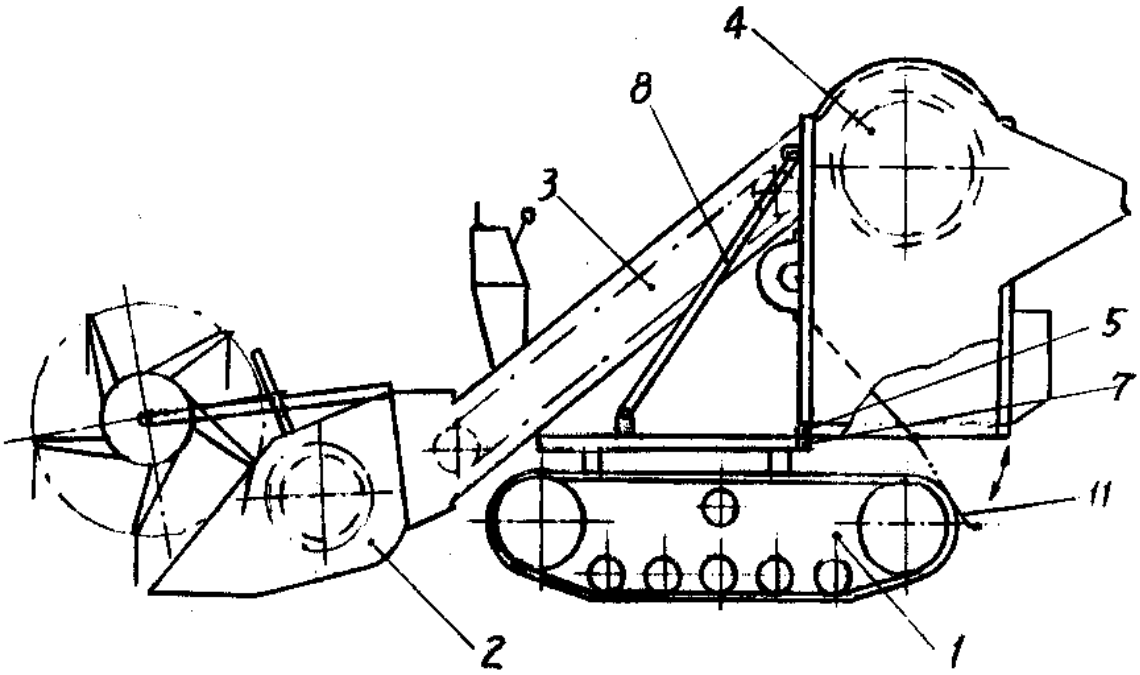
Family 290/667 - FAMPAT - ©Questel

Title

(CN2465448U)

Self-propelling full-feeding combine harvester with rear-mounted thresher

Images



Publication data including kind & date

CN2465448	Y	2001-12-19	CN2465448U

Abstract

(CN2465448U)

The utility model relates to a self-propelled full-feeding combine harvester with a rear-mounted thresher.Since a thresher is rear-mounted, a large space is arranged between a chassis and the thresher, which is convenient for a barn to be arranged at the thresher bottom, and grains area conveniently and quickly unloaded.The chassis and the thresher are stably fixed together by lathe dogs and pull rods.The utility model which is quickly and conveniently installed can moderately adjust the cooperation of a conveying trough and a header.

Inventors

ZHOU CHENGSHI
MAO FANGCHENG
LUO JIANNONG
SHE YUNJIE

Latest standardized assignees - inventors removed

HUNAN AGRICULTURAL MACHINERY RESEARCH INSTITUTE

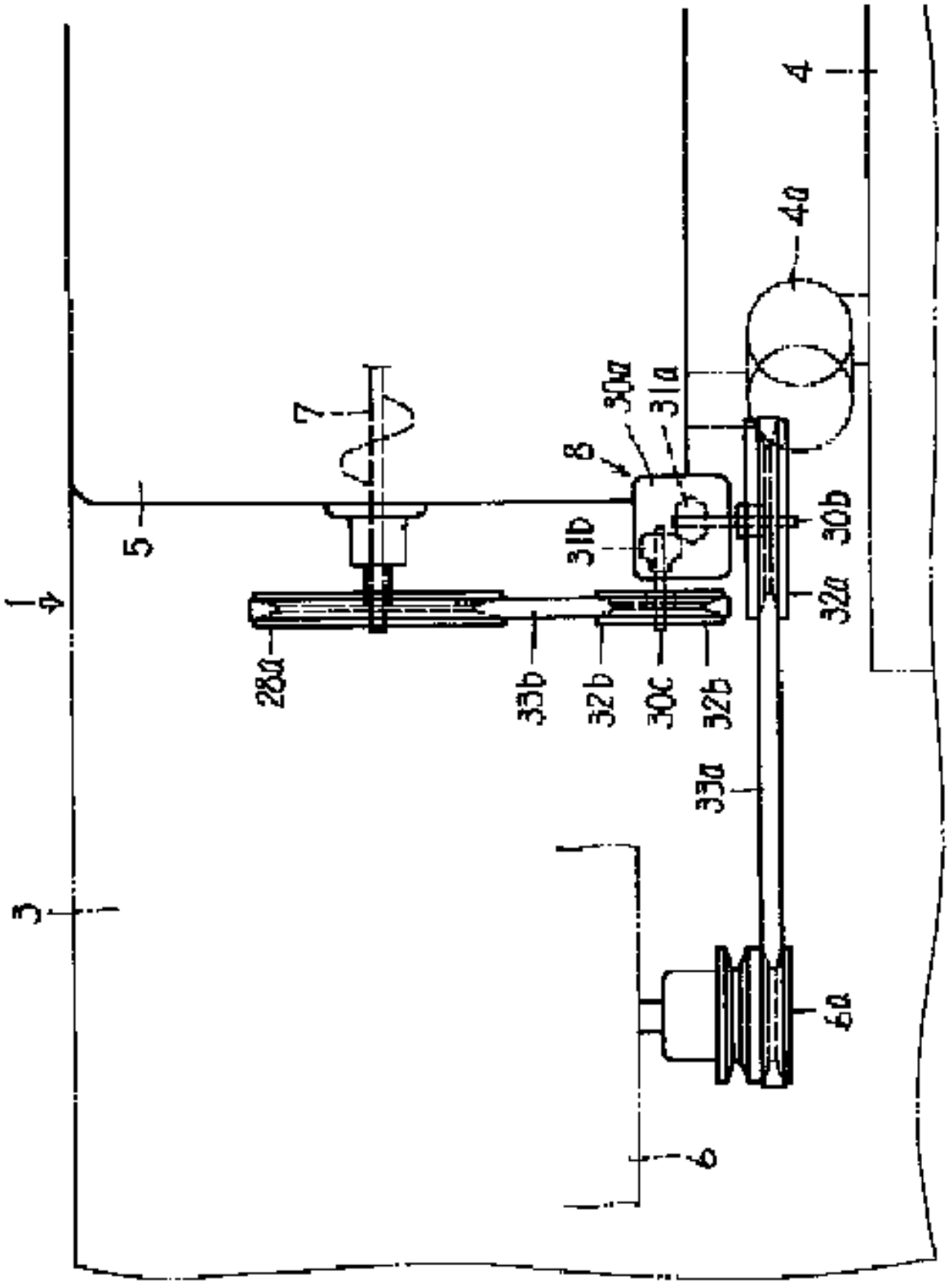
Family 291/667 - FAMPAT - ©Questel

Title

(JP2000308411)

Transmission gear for grain storage tank for combine harvester

Images



Publication data including kind & date

JP2000308411 A 2000-11-07 JP2000308411

Abstract

(JP2000308411)

PROBLEM TO BE SOLVED: To provide a transmission gear for a grain storage tank for a combine harvester, capable of rotating and driving a lower transporting screw installed in a lower part of the grain storage tank by an engine through a counter device and preventing adhesion of a straw waste, mud, etc., to a belt bridged from the engine to the counter device.SOLUTION: A lower transporting screw 7 in a grain storage tank 5 is rotated and driven by an engine 6 through a counter device 8.The engine 6 and the grain storage tank 5 are mounted on the upper side of a traveling body 3, and the counter device 8 is mounted on the upper side of the body 3 in front of a first grain elevator 4a of a thresher 4.

Inventors

MIZUMOTO TAKESHI

DOIHARA JUNJI

IZUMI KOJI

YAMAMOTO JIRO

FUTAGAMI SHIN

ANAMI MASAYUKI

HIROSE MASAKAZU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

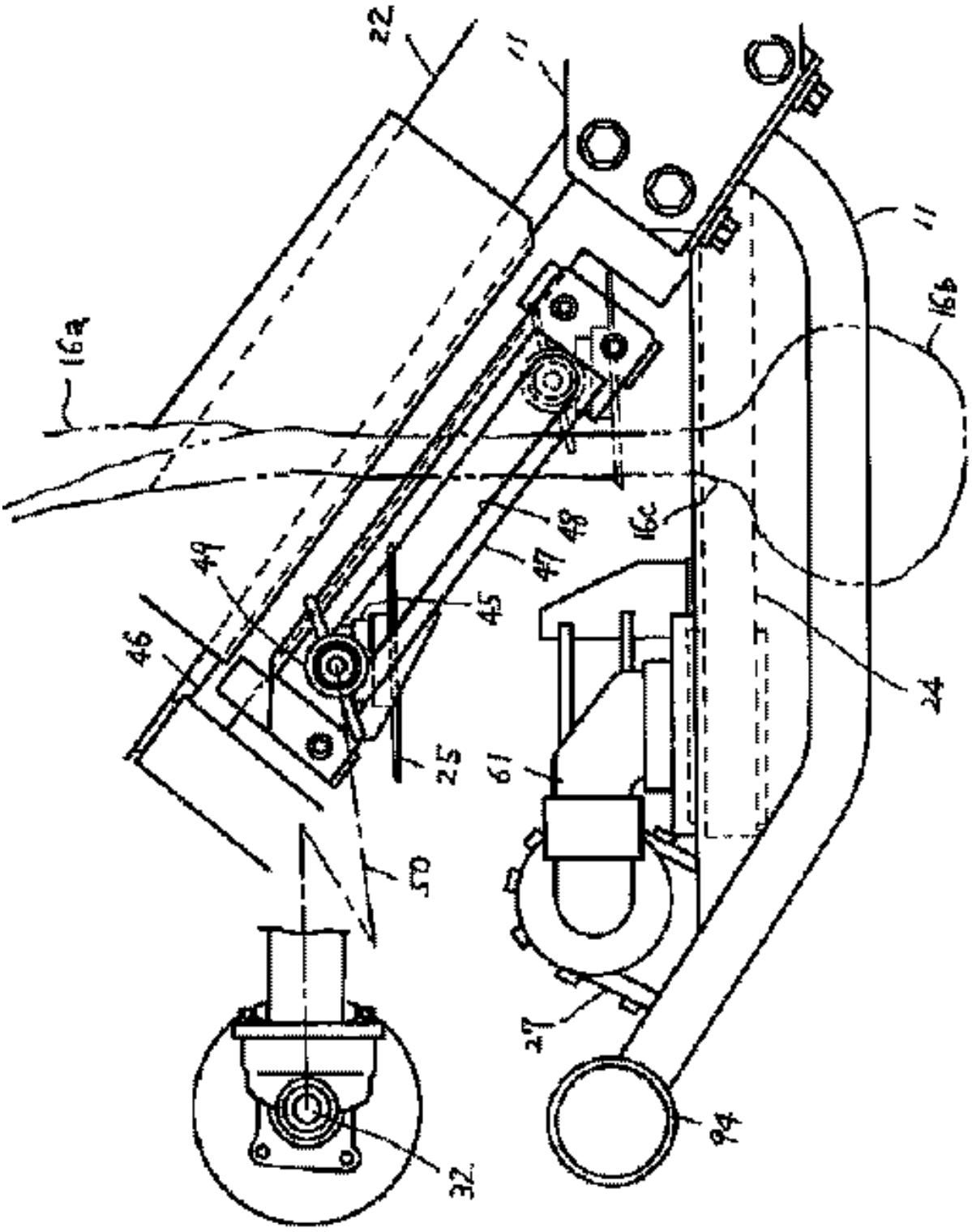
Family 292/667 - FAMPAT - ©Questel

Title

(JP2001178234)

Harvester

Images



Publication data including kind & date

JP2001178234	A	2001-07-03	JP2001178234
JP3408513	B2	2003-05-19	JP3408513

Abstract

(JP3408513)

PROBLEM TO BE SOLVED: To provide a harvester so designed as to enable the length of the stems/leaves remaining on the crop side to be regulated when stems/leaves (16a) are to be cut off a root vegetable crop (16) in harvesting the crop, and also to drive the relevant cutting device (25) without using an exclusive driving source.SOLUTION: This harvester has a carrier (22) for nipping the stems/leaves of a root vegetable crop and then carrying them backwardly upward to pull the crop off the ground, a lower carrier (24) for nipping the neck (16c) of the crop thus pulled off and in carriage and then

carrying it backward off the machine body, and a cutting device (25) for cutting and separating the crop thus nipped and carried by the lower carrier (24) and the stems/leaves thus nipped and carried by the carrier (22); wherein the cutting device (25) has such a scheme that the end portion of a drive case (45) with a cutting blade (25) axially attached to its tip side is slidably fitted into the guide hole (48) of a guide frame (47) and the cutting blade is supported in a vertically movable manner between the carrier (22) and the lower carrier (24), and the cutting device is to be driven by engine power.

Inventors

EZAKI MARE
KOBASHI HIDEAKI
YOKOYAMA MITSUGI
IRIE HAJIME
MATSUI MIKIO
WATANABE AKITO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

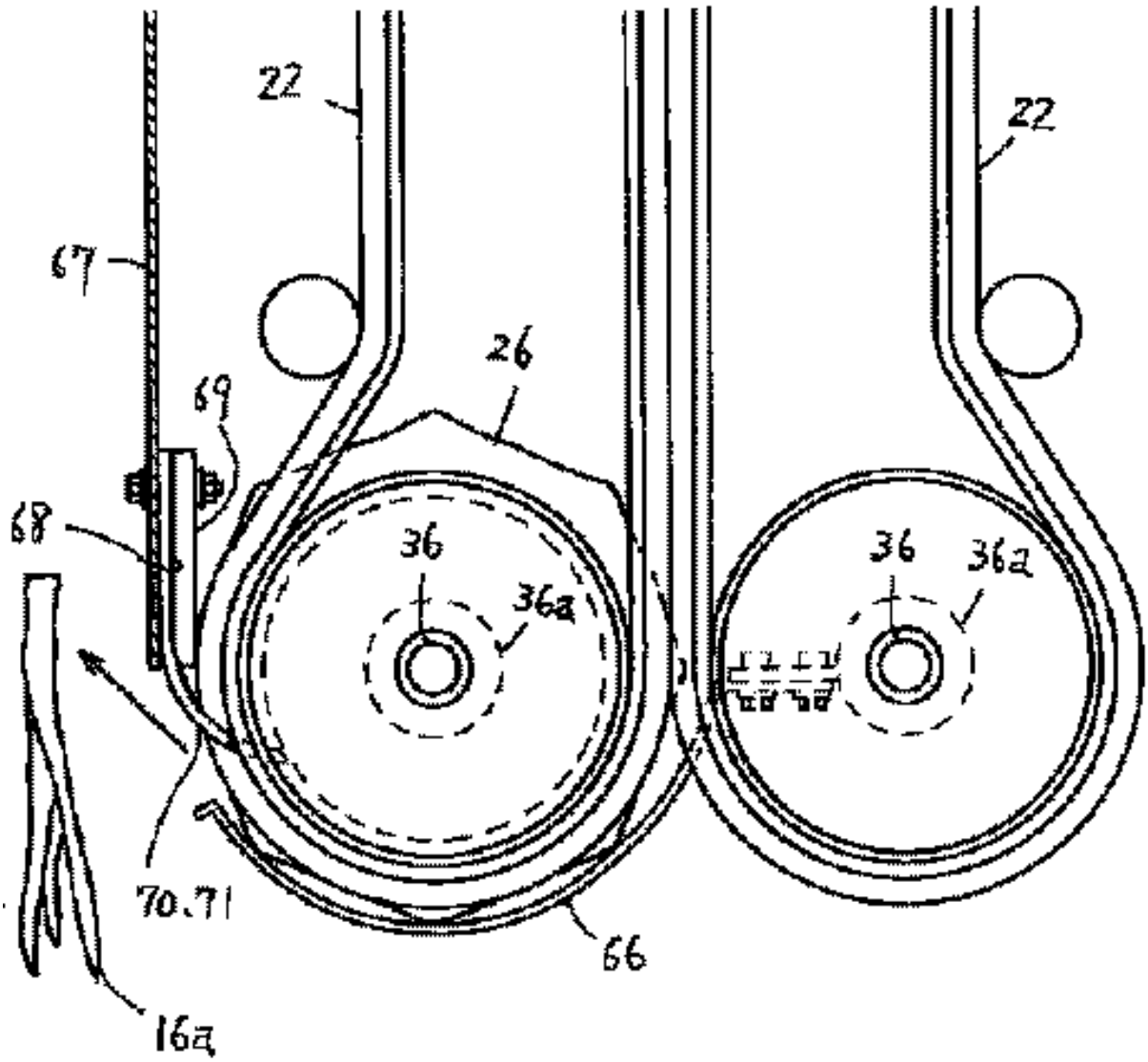
Family 293/667 - FAMPAT - ©Questel

Title

(JP2001178232)

Harvester

Images



Publication data including kind & date

JP2001178232	A	2001-07-03	JP2001178232
JP3351784	B2	2002-12-03	JP3351784

Abstract

(JP3351784)

PROBLEM TO BE SOLVED: To provide a harvester so designed as to discharge the stems/leaves (16a) of a root vegetable crop such as onions so as not to constitute a hindrance to the next step's harvest when the stems/leaves (16a) are cut off in harvesting the crop.SOLUTION: This harvester has left and right driving wheels (9), (10) traveling on the furrows (15) on both sides of a ridge (14), a carrier (22) for nipping the stems/leaves (16a) of a root vegetable crop (16), pulling them off the field and carrying them, and a cutting device (25) for cutting the other portion (16b) of the crop off the

carrier (22); wherein there is furnished a device (26) for discharging the stems/leaves (16a) thus cut off from the feed terminal end of the carrier (22) inward off one of the driving wheels (9) on one flank of the machine body.

Inventors

YAMAMOTO YOSHIAKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

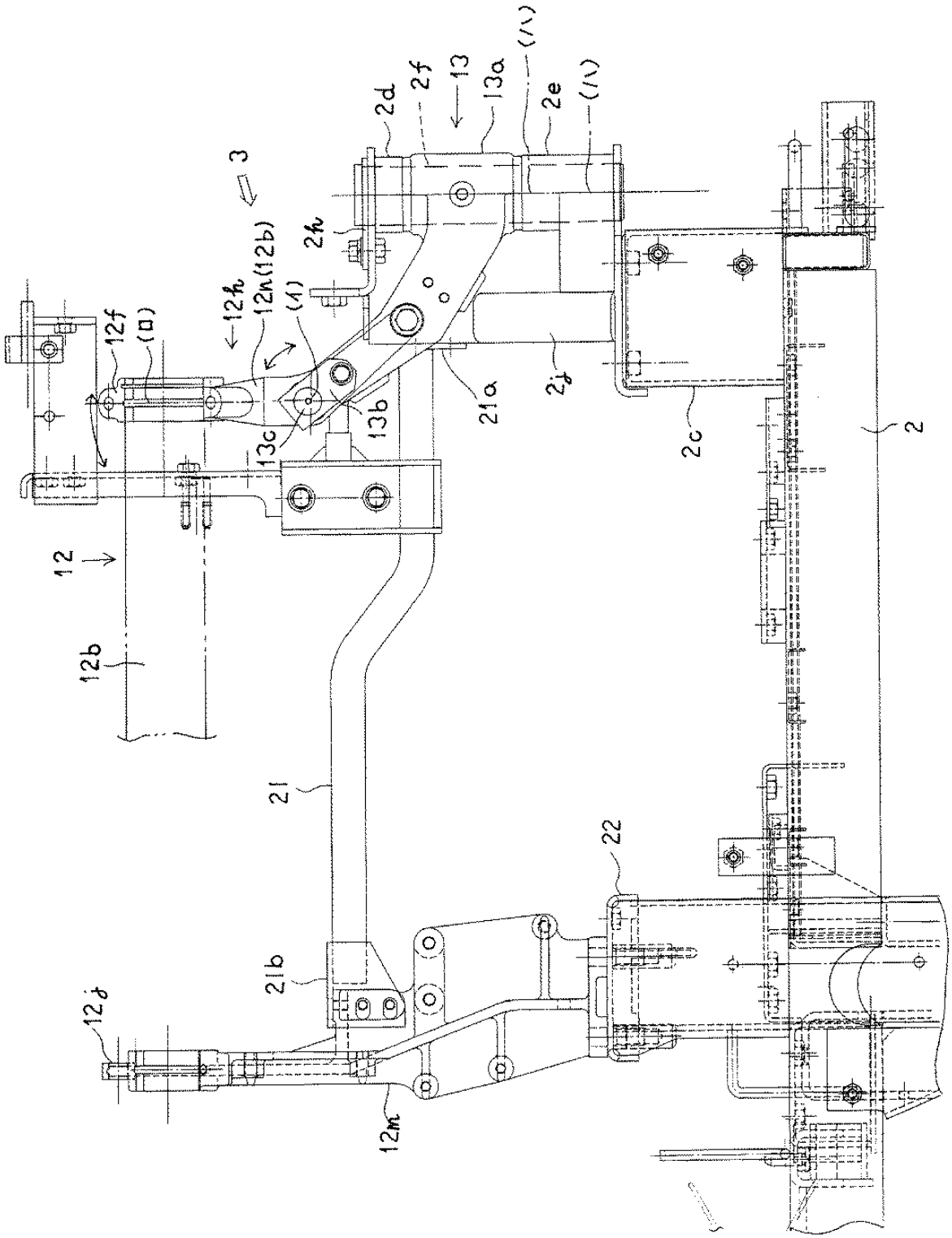
Family 294/667 - FAMPAT - ©Questel

Title

(JP2007195456)

Combine harvester

Images



Publication data including kind & date

JP2007195456	A	2007-08-09	JP2007195456
JP4622870	B2	2011-02-02	JP4622870

Abstract

(JP4622870)

PROBLEM TO BE SOLVED: To smoothly rotate and move a reaping machine when the reaping machine which is arranged at the front part of a traveling undercarriage and reaps and transports cereal culms is operated to rotate and move outward to the left and to make the reaping machine vertically follow the inclination of ground surface.

SOLUTION: The combine harvester has a constitution that a connection pin 13c for connecting the upper part of a connection arm 13a to the lower part of a lower receiving metal 12h is arranged approximately horizontally in the longitudinal direction.When the reaping machine 3 is operated to rotate and move outward to the left around the connection

pin 13c as a rotation shaft center (a), a rotation receiving apparatus 14 follows the unevenness of the ground surface correspondingly to the unevenness of the ground surface.The reaping machine 3 follows the inclination of the ground surface around the rotation shaft center (a) as the shaft center and is vertically rotated.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

WATANABE HITOSHI
MATSUI MASAMI
ICHIMARU TOMOYUKI
KAMIMURA TAKAHIKO
KITAGAWA TOMOSHI
TSUJI KENTARO

Latest standardized assignees - inventors removed

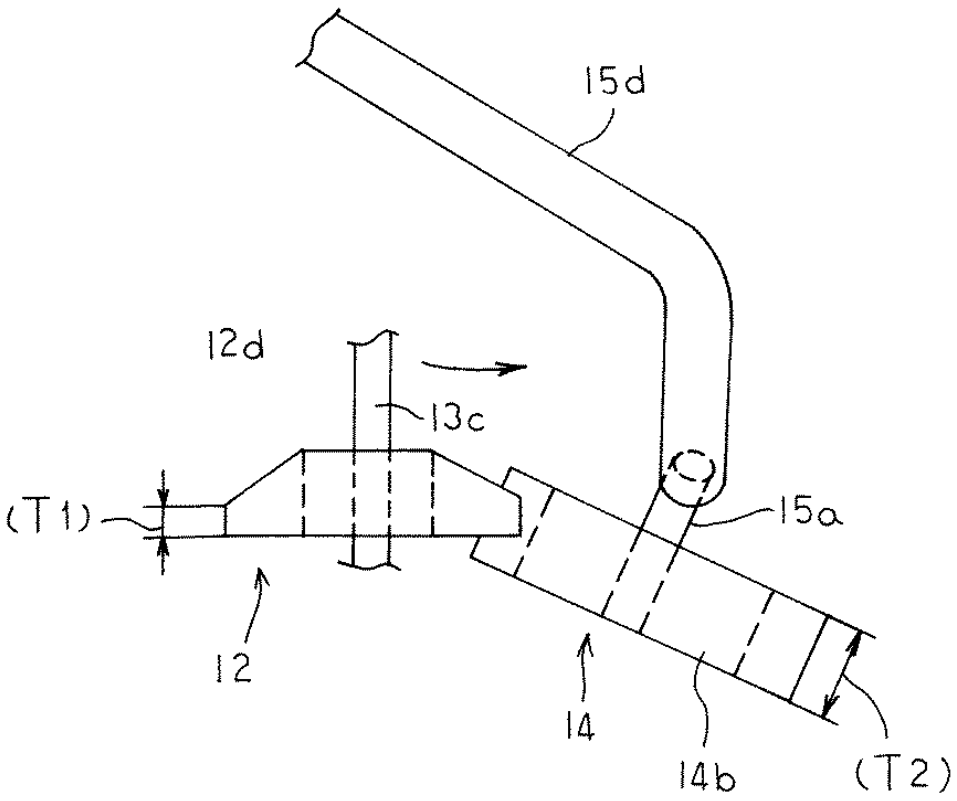
ISEKI AGRICULTURAL MACHINERY

Family 295/667 - FAMPAT - ©Questel

Title

(JP2007060955)
Combine harvester

Images



Publication data including kind & date

JP2007060955 A 2007-03-15 JP2007060955

Abstract

(JP2007060955)

PROBLEM TO BE SOLVED: To more enlarge the tooth thickness of a supply transfer device supply star wheel engaged, driven and rotated with an ear tip transfer device driving star wheel for rearward and upward transferring the ear tips of

grain straws than the tooth thickness of the driving star wheel to prevent the disengagement of the wheels, thereby surely transferring the ear tips of the grain straws.

SOLUTION: This combine harvester is characterized by more enlarging the tooth thickness of the supply transfer device supply star wheel engaged, driven and rotated with the ear tip transfer device driving star wheel for rearward and upward transferring the ear tips of grain straws than the tooth thickness of the driving star wheel.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

SAITO MANABU

ANAMI MASAYUKI

KUGIMIYA HIROSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

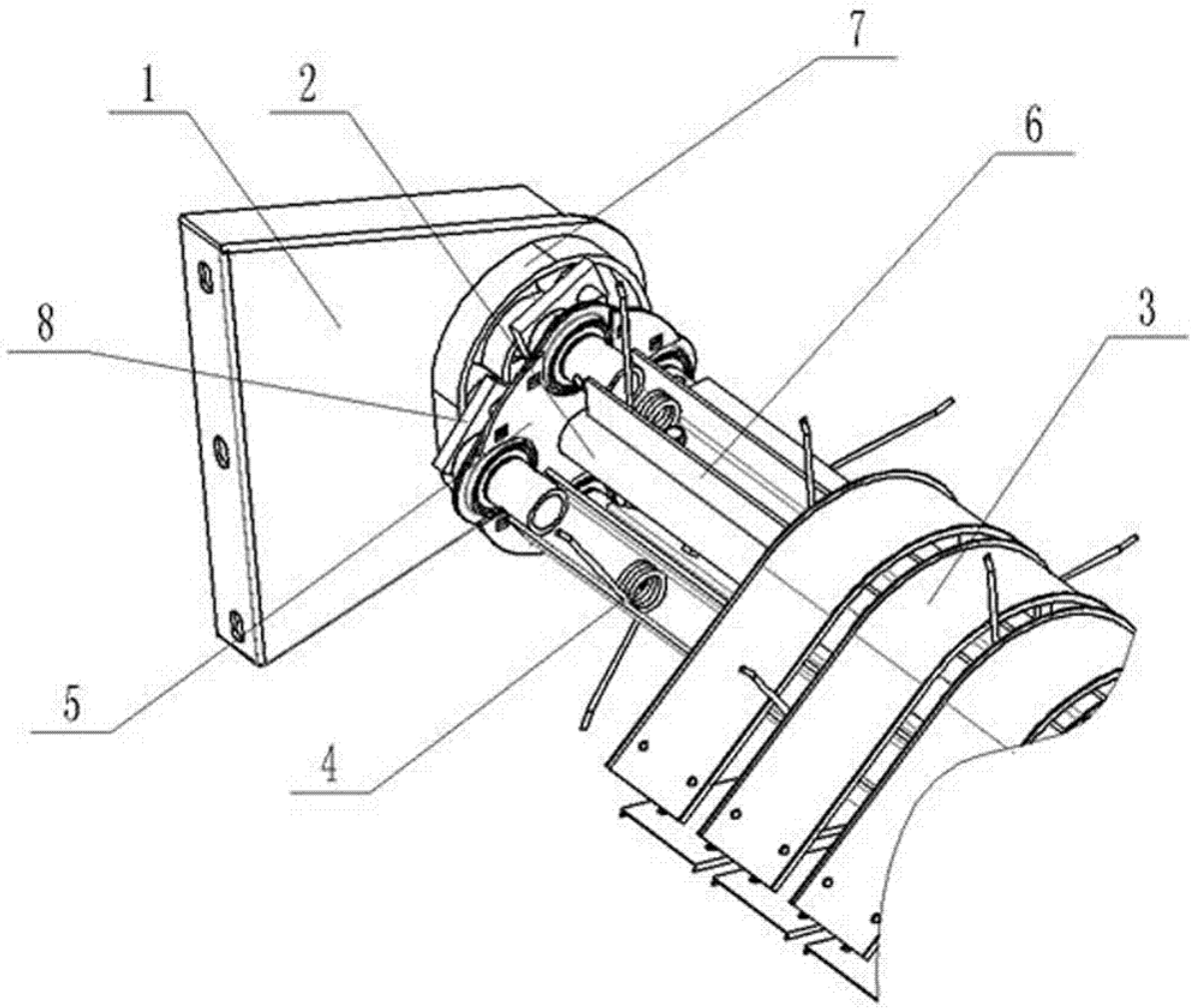
Family 296/667 - FAMPAT - ©Questel

Title

(CN207099681U)

Self -propelled peanut harvester pickup

Images



Publication data including kind & date

CN207099681 U 2018-03-16 CN207099681U

Abstract

(CN207099681U)

The utility model discloses a self -propelled peanut harvester pickup, including and picking up frame, center pin, curved cover plate, bullet tooth side thick stick, bullet tooth, have a positioning disk to fix with picking up the frame in pickup one

end, have guide slide on the positioning disk, fixedly connected with two carousels in center pin both ends are installed at least 4 and are played tooth side's thick sticks between two carousels, and fixed mounting has the bullet tooth on the bullet tooth side thick stick, install the rocking arm between positioning disk and bullet tooth side thick stick, play the tooth and stretch out from the clearance that forms between two adjacent apron.The utility model discloses a slide and rocking arm structure have realized playing stretching out and retracting of tooth, and it is little to play tooth impact, picks up respond wellly.

Inventors

YIN LIANG

Latest standardized assignees - inventors removed

HENAN LONGFEI AGRICULTURAL MACHINERY

Family 297/667 - FAMPAT - ©Questel

Title

(CN201630019U)

Watermelon harvester

Publication data including kind & date

CN201630019	U	2010-11-17	CN201630019U

Abstract

(CN201630019U)

The utility model discloses a watermelon harvester which comprises a support.The support is provided with an annular beam; the annular beam is provided with a power device and a drive mechanism; the lower part of the drive mechanism is provided with a hanging and conveying mechanism; and the power device is in drive connection with the hanging and conveying mechanism through the drive mechanism.The watermelon harvester has advantages of novel principle, simple structure, easy manufacture and convenient installation and disassembly, fully reduces the labor intensity of manual harvest, and improves the harvesting efficiency; and the utility model provides the mechanical watermelon harvesting equipment for public watermelon peasants, and the watermelon harvester has advantages of high practicality and convenient popularization and application.

Inventors

ZHAO XIANGXIONG

YE FANG

HUANG WEIHUA

ZHAO TIE

Latest standardized assignees - inventors removed

HENAN AGRICULTURAL UNIVERSITY

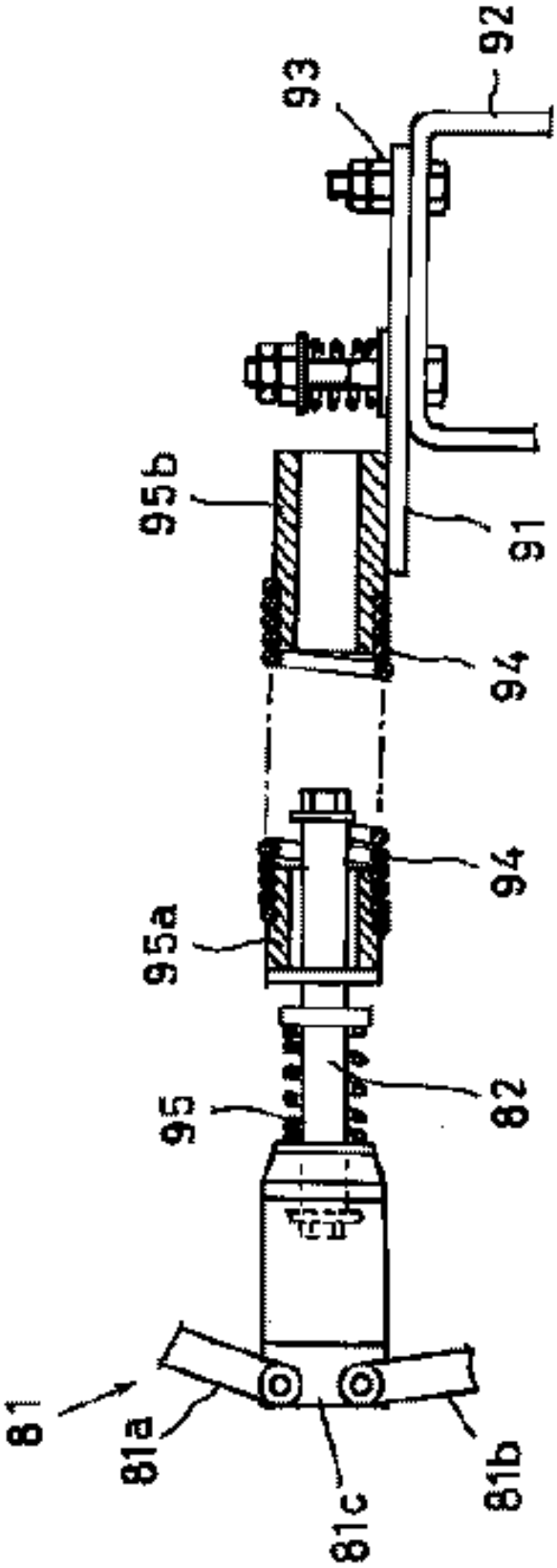
Family 298/667 - FAMPAT - ©Questel

Title

(JP2002065028)

Side divider of combine harvester

Images



Publication data including kind & date

JP2002065028 A 2002-03-05 JP2002065028

Abstract

(JP2002065028)

PROBLEM TO BE SOLVED: To provide a side divider of a combine harvester, having a buffer mechanism so that the side divider can be prevented from damaging, even when the side divider is not stored or the harvester is operated in a reverse harvesting direction.SOLUTION: In this combine harvester with the side divider, the buffer mechanism is positioned on a divider-supporting stay of the side divider.

Inventors

NAKAYA AKIHIKO

MORIYAMA KOJI

YOSHITAKE YUICHIRO

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

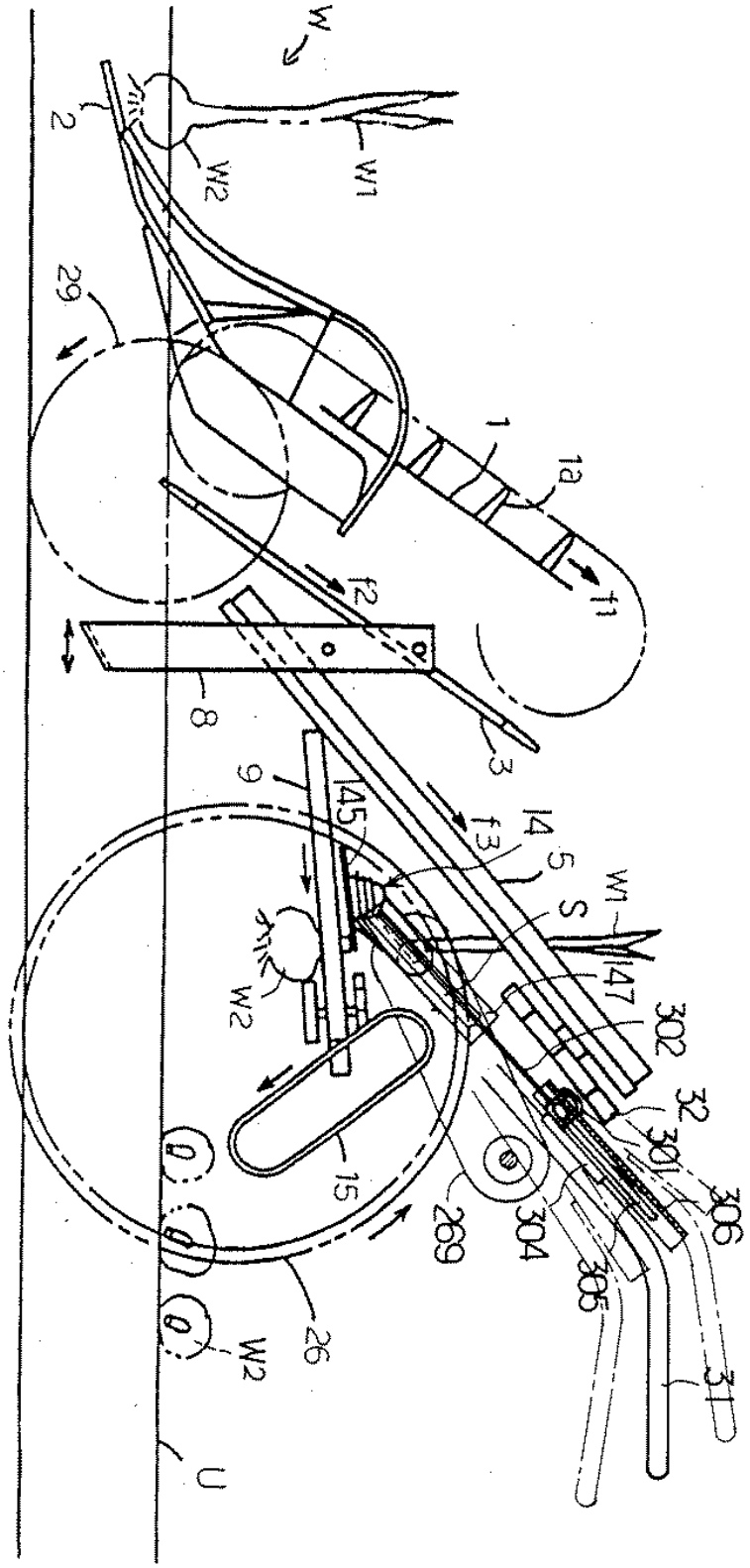
Family 299/667 - FAMPAT - ©Questel

Title

(JP2000078926)

Device for cutting leaf and stem of harvester for rhizomatic crop

Images



Publication data including kind & date

JP2000078926	A	2000-03-21	JP2000078926
JP3904738	B2	2007-04-11	JP3904738

Abstract

(JP3904738)

PROBLEM TO BE SOLVED: To operate the height (cut length of leaves and stems) of a device for cutting capable of cutting the leaves and stems of uprooted rhiomatic crops by an operator while staying in a maneuvering position.SOLUTION: This device 14 for cutting leaves and stems of a harvester for rhizomatic crops is capable of uprooting vegetated rhizomatic crops (w) with an uprooting and conveying device 5 while traveling, conveying the uprooted rhizomatic crops (w) to the rear of a machine body with a lower conveying device 9 and cutting the leaves and stems w1 of the rhizomatic crops (w) with the device 14 for cutting during the conveyance in the lower conveying device 9.In this case, the device 14 for cutting is installed so as to be movable in the front and rear directions obliquely to the machine body so that the length of the cut leaves and stems w1 can be regulated.The device 14 for cutting is connected to an operating tool arranged at the rear of the machine body with a linking cord so as to make the device 14 for cutting movable by front and rear movement of the operating tool.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
WATANABE AKITO
YAMAMOTO YOSHIAKI

Latest standardized assignees - inventors removed

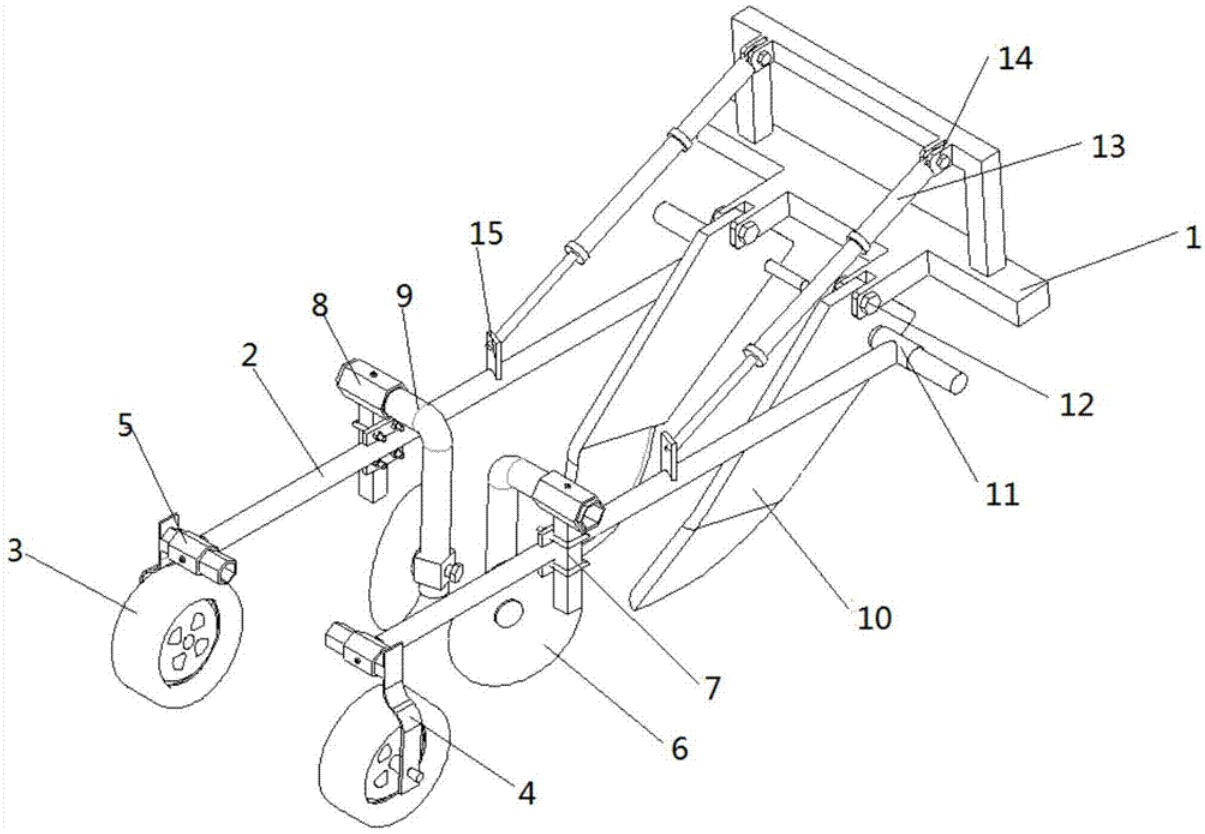
SEIREI INDUSTRY

Family 300/667 - FAMPAT - ©Questel

Title

(CN206260290U)
Self -propelled shallot combine harvester's native device of branch

Images



Publication data including kind & date

CN206260290 U 2017-06-20 CN206260290U

Abstract

(CN206260290U)
The utility model relates to a self -propelled shallot combine harvester's native device of branch, include the gauge wheel, divide soil disc, adjust support, pneumatic cylinder, dig soil spade and fixed bolster.Two the adjustment support

respectively through two mobilizable connections of pneumatic cylinder in fixed bolster front end both sides, the gauge wheel is connected through the gauge wheel mount in adjustment support front end below, and the gauge wheel horizontal spacing is adjustable, divide the mobilizable connection of soil disc bilateral symmetry on the adjustment support at gauge wheel rear, two digger blade bilateral symmetry fix on the adjustment leg joint pole of two adjustment supports inboards, the utility model discloses simple structure, be convenient for installation and dismantlement, the maintenance is also convenient.Can have the native effect of fine branch, it is convenient to adjust.

Inventors

HOU JIALIN
LIU JINGWEI
LI YUHUA
SONG TIANXIN

Latest standardized assignees - inventors removed

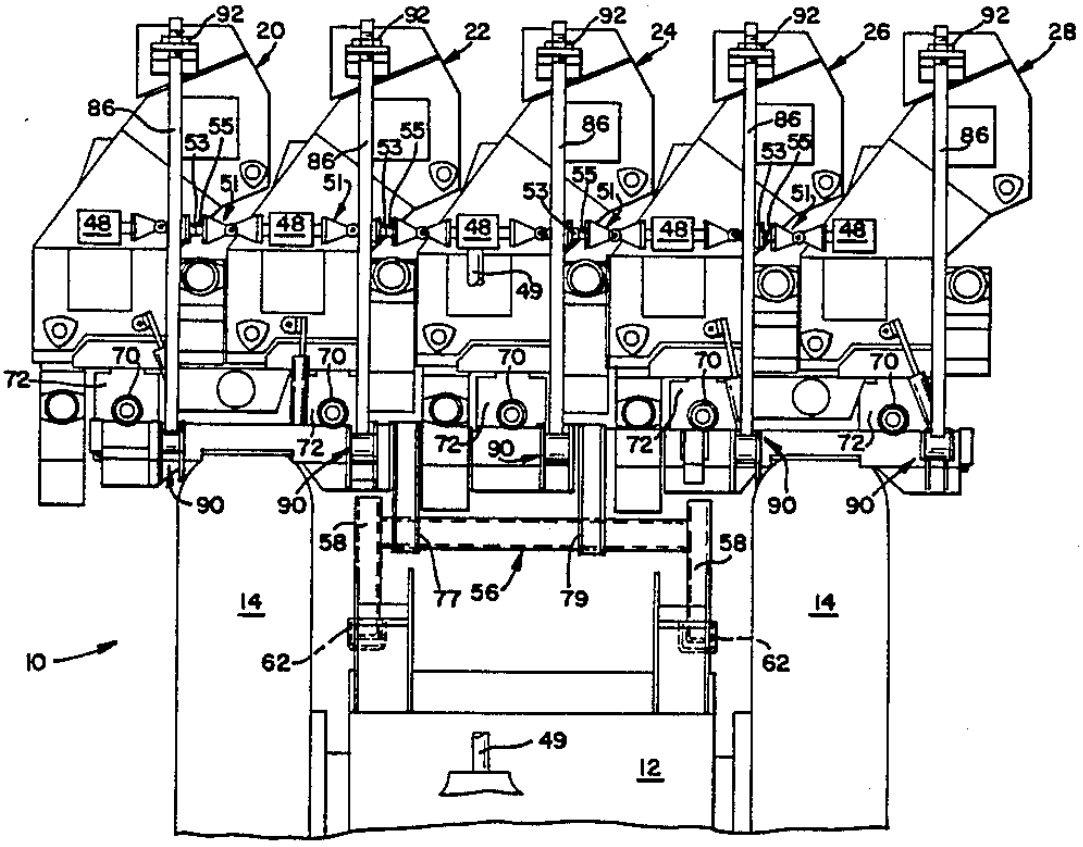
SHANDONG AGRICULTURAL UNIVERSITY

Family 301/667 - FAMPAT - ©Questel

Title

(US4947628)
Multiple row cotton harvester

Images



Publication data including kind & date

US4947628 A 1990-08-14 US4947628

Abstract

(US4947628)
A multiple row cotton harvester machine having a plurality of harvesting units and a system for individually mounting the harvesting units at a front end of the cotton harvester.The mounting system includes a lift arm assembly which is adapted for vertical movement with respect to the frame of a harvesting machine.The harvesting units are individually connected to the lift arm assembly in a manner allowing the harvesting units to be pivotally moved relative to each other between first

and second positions about a substantially vertical axis and in a generally horizontal direction to provide access for servicing or to effect wider row cotton harvesting operations.

Inventors

ORSBORN JESSE H

COVINGTON MICHAEL J

Latest standardized assignees - inventors removed

CASE EQUIPMENT

CNH GLOBAL

BLUE LEAF IP

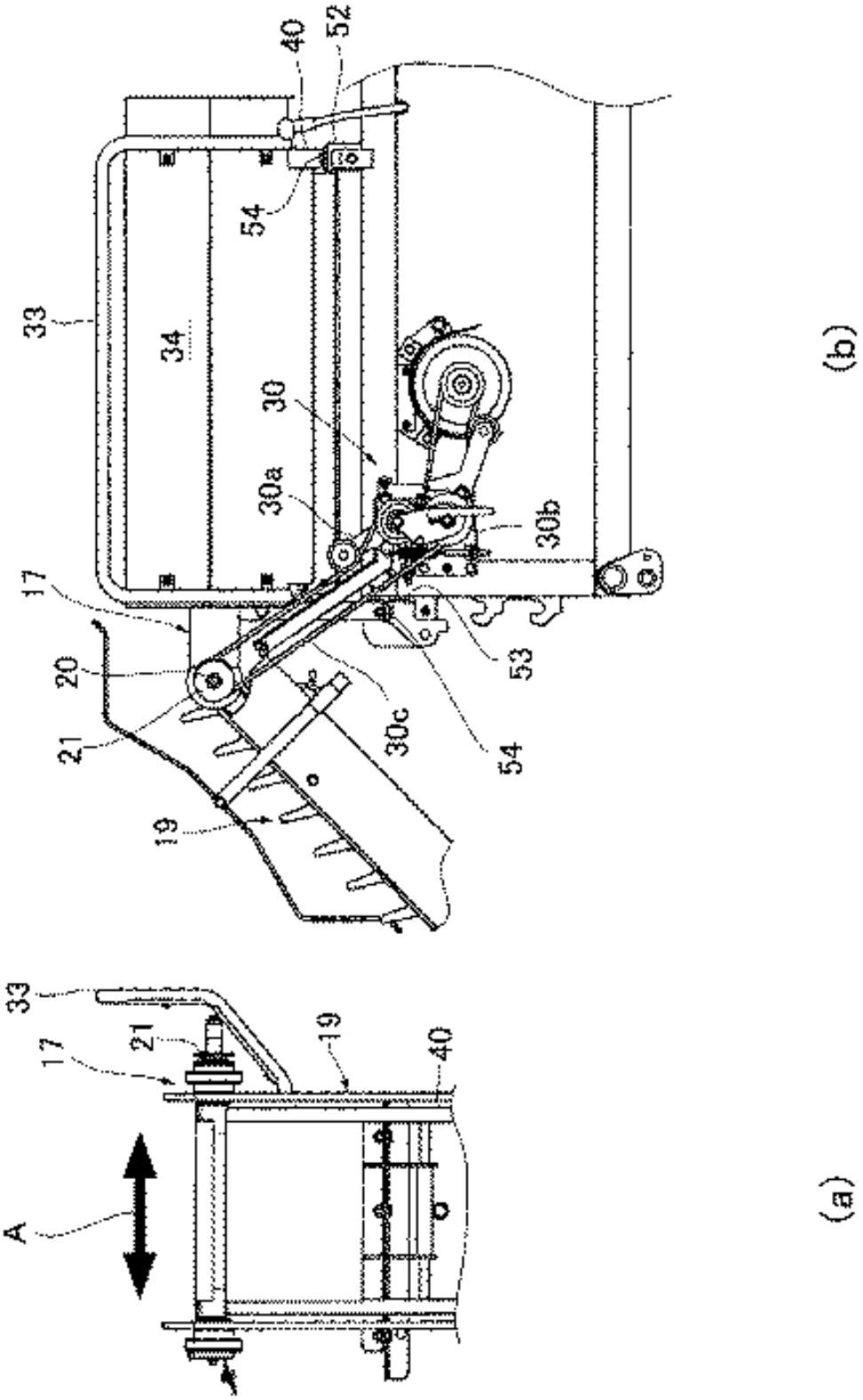
Family 302/667 - FAMPAT - ©Questel

Title

(JP2007116915)

Harvester

Images



Publication data including kind & date

JP2007116915	A	2007-05-17	JP2007116915
JP4866055	B2	2012-02-01	JP4866055

Abstract

(JP4866055)

PROBLEM TO BE SOLVED: To provide a harvester having good recovering operation efficiency for Welsh onions dried on ground, transporting the Welsh onions in good balance and having a wide range of regulation of falling positions of the Welsh onions.

SOLUTION: The harvester of the Welsh onions which is one example of harvesters is equipped with a horizontal transporting part 17 for transporting the Welsh onions harvested from a field in the horizontal direction and a lowering transporting part 19 for transporting the Welsh onions while being lowered from the machine body 2 and discharging the Welsh onions in a transverse posture crossing the moving direction of the machine body 2 relatively to the ground surface.The horizontal transporting part 17 and the lowering transporting part 19 are fixed onto a supporting pedestal 40 which is mounted so as to be movable in the right and left directions from fixing members 52 and 53 installed in the machine body 2.The positions of the horizontal transporting part 17 and the lowering transporting part 19 can be regulated through the supporting pedestal 40 from the machine body 2 in the right and left directions.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

TAKARAKURA NOBUYUKI

Latest standardized assignees - inventors removed

KOBASHI KOGYO

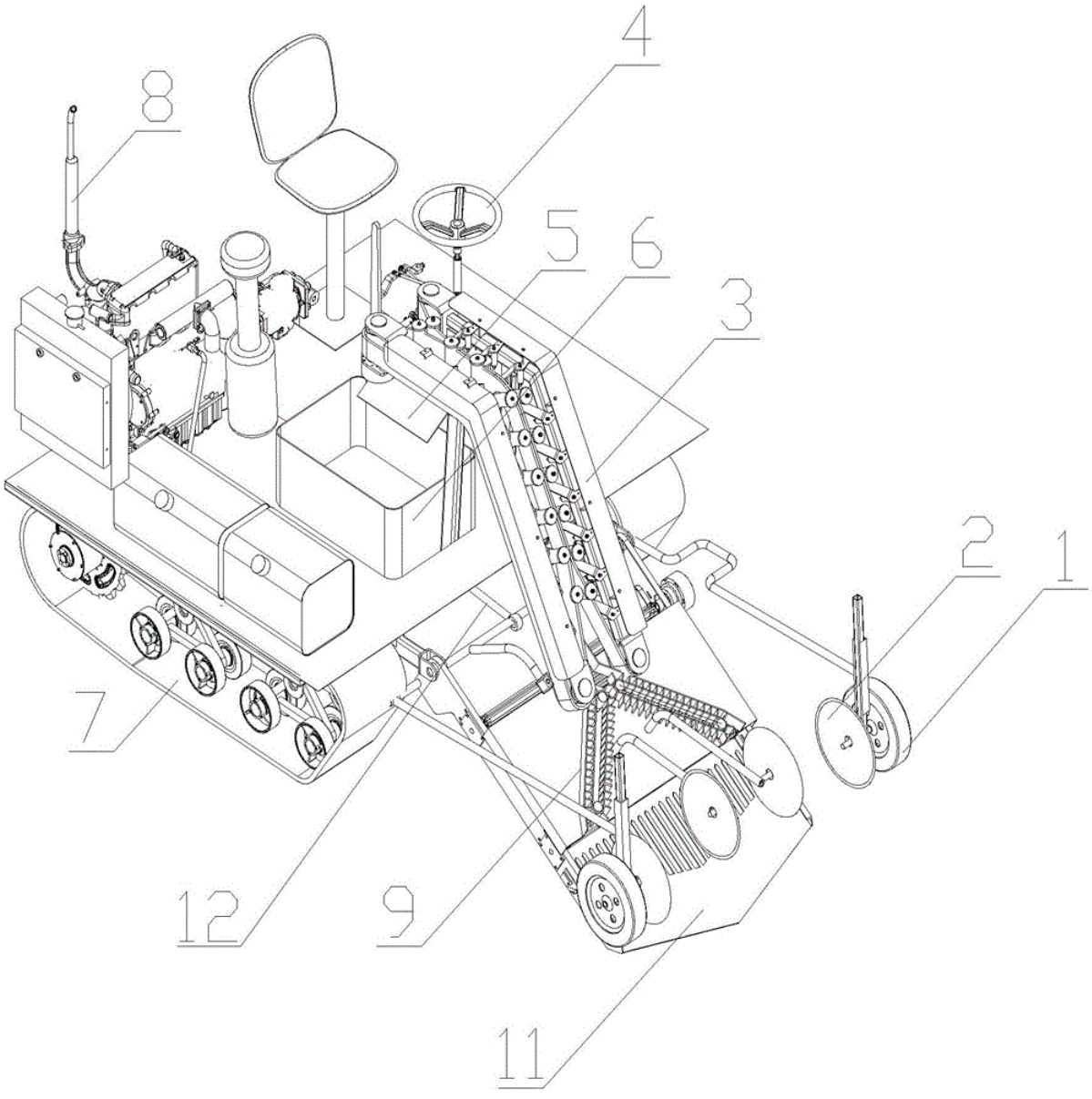
Family 303/667 - FAMPAT - ©Questel

Title

(CN206227002U)

Double row is from walking crawler -type shallot combine harvester

Images



Publication data including kind & date

CN206227002 U 2017-06-09 CN206227002U

Abstract

(CN206227002U)

The utility model relates to a double row is from walking crawler -type shallot combine harvester, include that native conveyor is trembled to support depth limit device, centre gripping conveyor, keysets, double row, the secondary goes native device, double row to collect device and collection basket.Hydraulic pressure caterpillar base plate is the support and the mounting platform of complete machine, the double row is trembled native conveyor and is located the complete machine foremost, with hydraulic pressure caterpillar base plate's chassis frame connection, and can angle regulation under the control of pneumatic cylinder, support depth limit device installs and trembles native conveyor both sides at the double row, the double row collects the device to be settled above native conveyor is trembled to the double row through lead plate, centre gripping conveyor's complete machine direction of advance end next -door neighbour double row collects the device latter half to fix on the skeleton of hydraulic pressure caterpillar base plate's chassis, the keysets is located centre gripping conveyor free falling mouth department, collection basket lies in keysets free falling mouth department, keeps flat on hydraulic pressure caterpillar base plate walks the platen, the utility model discloses can the one -off while automatic results be carried out to two lines of shallots, owing to PVC assembles the effectively rotatory diameter of space bar in area and the V font delivery track that the double row collects the lead plate of mechanism front end, the shallot results of different spacings can be satisfied.

Inventors

HOU JIALIN
WANG HOUXIN
LI YUHUA
LIU XIAO
LIU JINGWEI
SONG TIANXIN

Latest standardized assignees - inventors removed

SHANDONG AGRICULTURAL UNIVERSITY

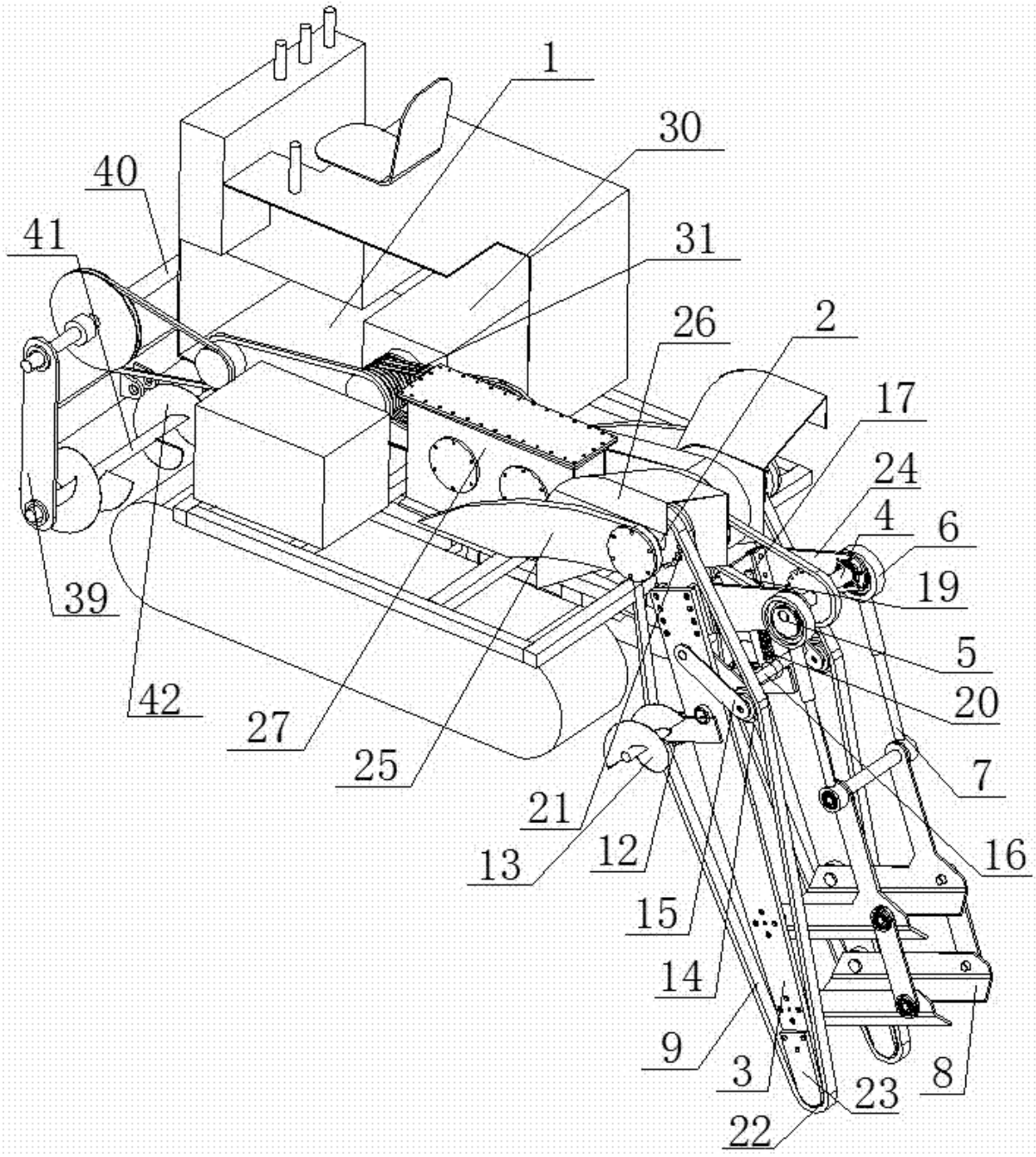
Family 304/667 - FAMPAT - ©Questel

Title

(CN206402698U)

Underground crops harvester

Images



Publication data including kind & date

CN206402698 U 2017-08-15 CN206402698U

Abstract

(CN206402698U)

The utility model belongs to the technical field of the secret harvest machinery of agricultural, in particular to underground crops harvester who can be used to gather in the crops chinese yam, burdock, shallot, licorice root etc..This underground crops harvester, including the organism, characterized by: the organism rear portion is equipped with initiative gap bridge shaft, and initiative gap bridge shaft both sides are articulated to have a floating support, and floating support is last to install eccentric gap bridge shaft, and the eccentric wheel is installed to eccentric gap bridge shaft both sides, is equipped with the axle sleeve on the eccentric wheel, and shaft liner connection has a guide arm, and the guide arm end is installed the linkage and is held in the palm the shovel, and floating support is last to be overlapped to be equipped with and takes off the catena strip, takes off and is equipped with a plurality of native blades of taking off on the catena strip.The beneficial effects of the utility model are that: can carry out quick continuous cutting into to secret crop both sides, thereby and simultaneously centering intercrop carry on that the efficient vibration is quick completely takes out secret crop, simple structure, convenient operation, stability is good, work efficiency is high, little to the crops damaged condition, help in popularize the planting of chinese yam, improved peasant's economic benefits.

Inventors

LI GUANGCHEN

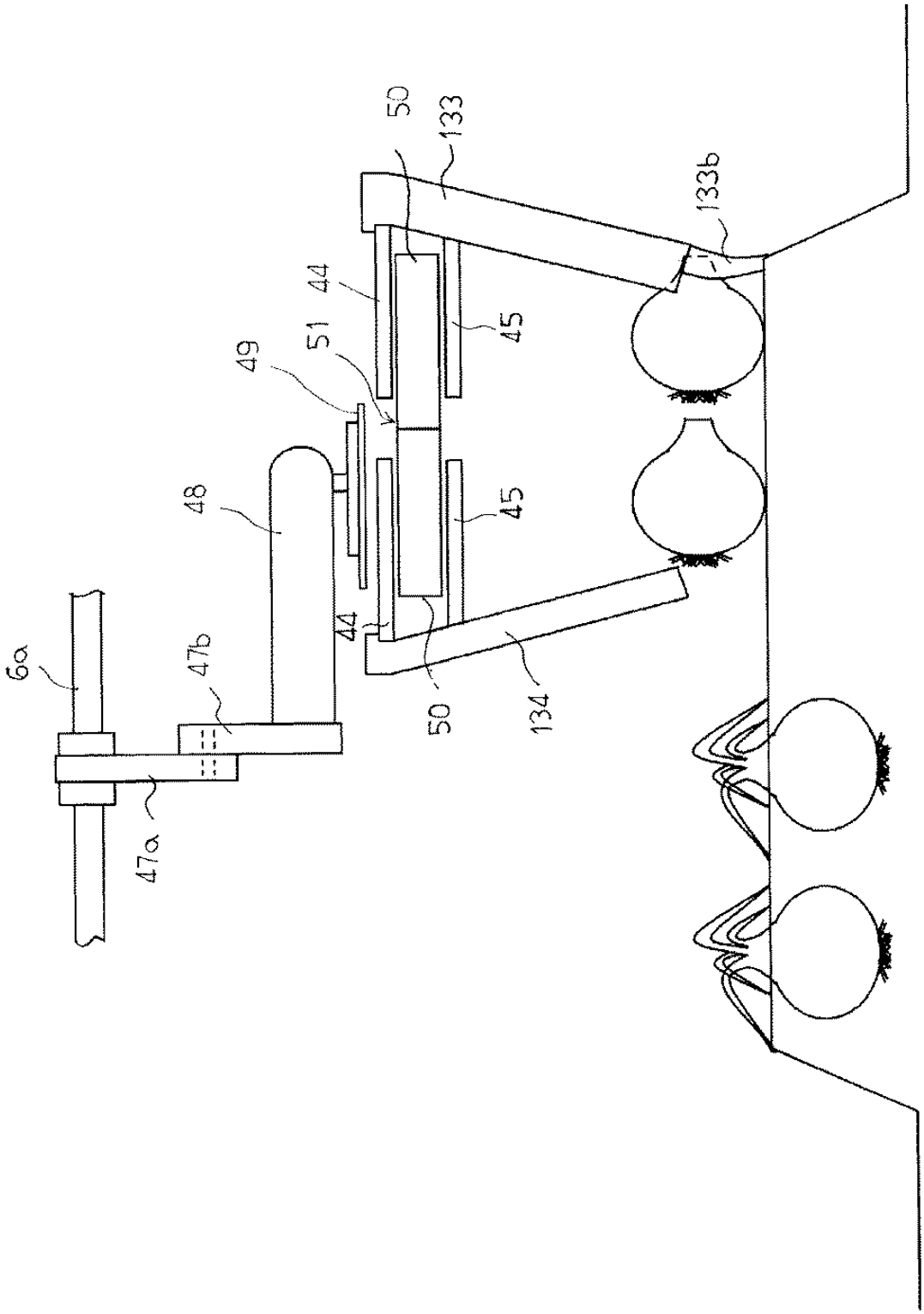
Family 305/667 - FAMPAT - ©Questel

Title

(JP2015043722)

Crop harvester

Images



Publication data including kind & date

JP2015043722	A	2015-03-12	JP2015043722
JP6131782	B2	2017-05-24	JP6131782

Abstract

(JP6131782)

PROBLEM TO BE SOLVED: To provide a crop harvester that can prevent crops ejected on a farm field while stems and leaves are in a state of being cut after pull harvesting from moving to a ridge furrow or an adjacent row with non-harvest crops planted.SOLUTION: A crop harvester is configured by: providing a pullout conveyor for holding stems and leaves, and pulling out crops from a field; providing a cutter 49 for cutting the stems and leaves of the crops during conveyance by the pullout conveyor; providing an alignment unit 51 for aligning positions of the stems and leaves to be cut with the cutter 49; providing a first regulation member 133 for regulating the movement of the crops to the ridge furrows at one of the right and left one sides of the alignment unit 51; providing a second regulation member 134 for regulating the movement of the crops to the adjacent rows at the another of the right and left other sides of the alignment unit 51; lengthening a front and rear length of the first regulation member 133 more than the second regulation member 134; and forming a flexural guide unit for separating the crops from the ridge furrows at the rear of the first regulation member 133.

Inventors

Masami Muramachi
TAKAGI SHINGO
Hideaki Kurose
YUMITATSU TAKESHI
Shinichi Matsuzabu

Latest standardized assignees - inventors removed

ISEKI

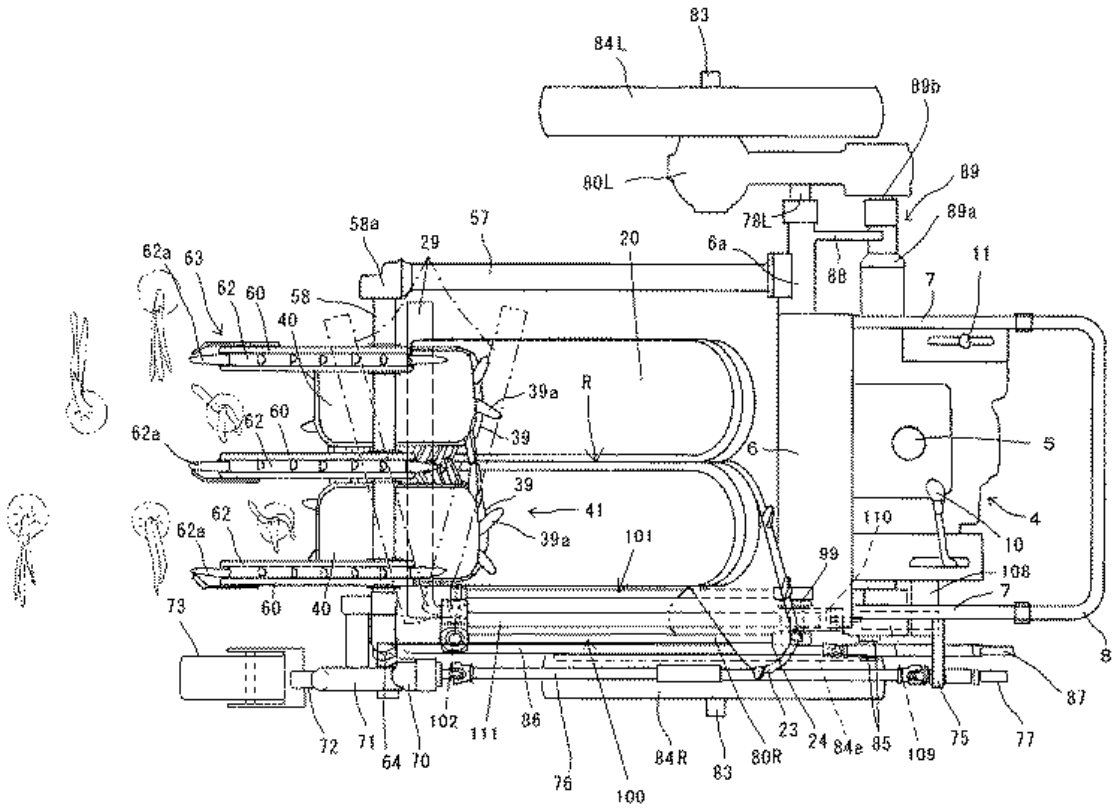
Family 306/667 - FAMPAT - ©Questel

Title

(JP2014128209)

Crop harvester

Images



Publication data including kind & date

JP2014128209 A 2014-07-10 JP2014128209

JP6209819 B2 2017-10-11 JP6209819

Abstract

(JP6209819)

PROBLEM TO BE SOLVED: To provide a crop harvester which surely loosens soil around the crop to be harvested and cuts roots thereof, prevents the crop from being mis-picked, and easily performs adjustment work such as root cutting of the harvested crop.SOLUTION: The crop harvester includes: a lifting device 63 provided on a front part of a machine frame 1 for lifting up foliage portions of the crop; a picking and conveying device 20 for picking up the crop from soil by clipping the foliage portions lifted by the lifting device 63; a soil loosening part 29 for loosening the soil surrounding the crop to be picked by the picking and conveying device 20 and for cutting roots of the crop; a rotary arm 102 rotatably provided in a front-rear direction to which the soil loosening part 29 is provided; a rotary portion 100 provided on the rotary arm 102; a swinging case 107 provided on the rotary arm 102; and a swinging portion 101 provided on the swinging case 107 for swinging the rotary arm 102 in the front-rear direction, in which the soil loosening part 29 rotates and swings in the front-rear direction by operating the rotary portion 100 and the swinging portion 101.

Inventors

Masami Muramachi
TAKAGI SHINGO
Hideaki Kurose
YUMITATSU TAKESHI

Latest standardized assignees - inventors removed

ISEKI

Family 307/667 - FAMPAT - ©Questel

Title

(US5916112)

Guide link for a rotatable harvester gearbox

Images

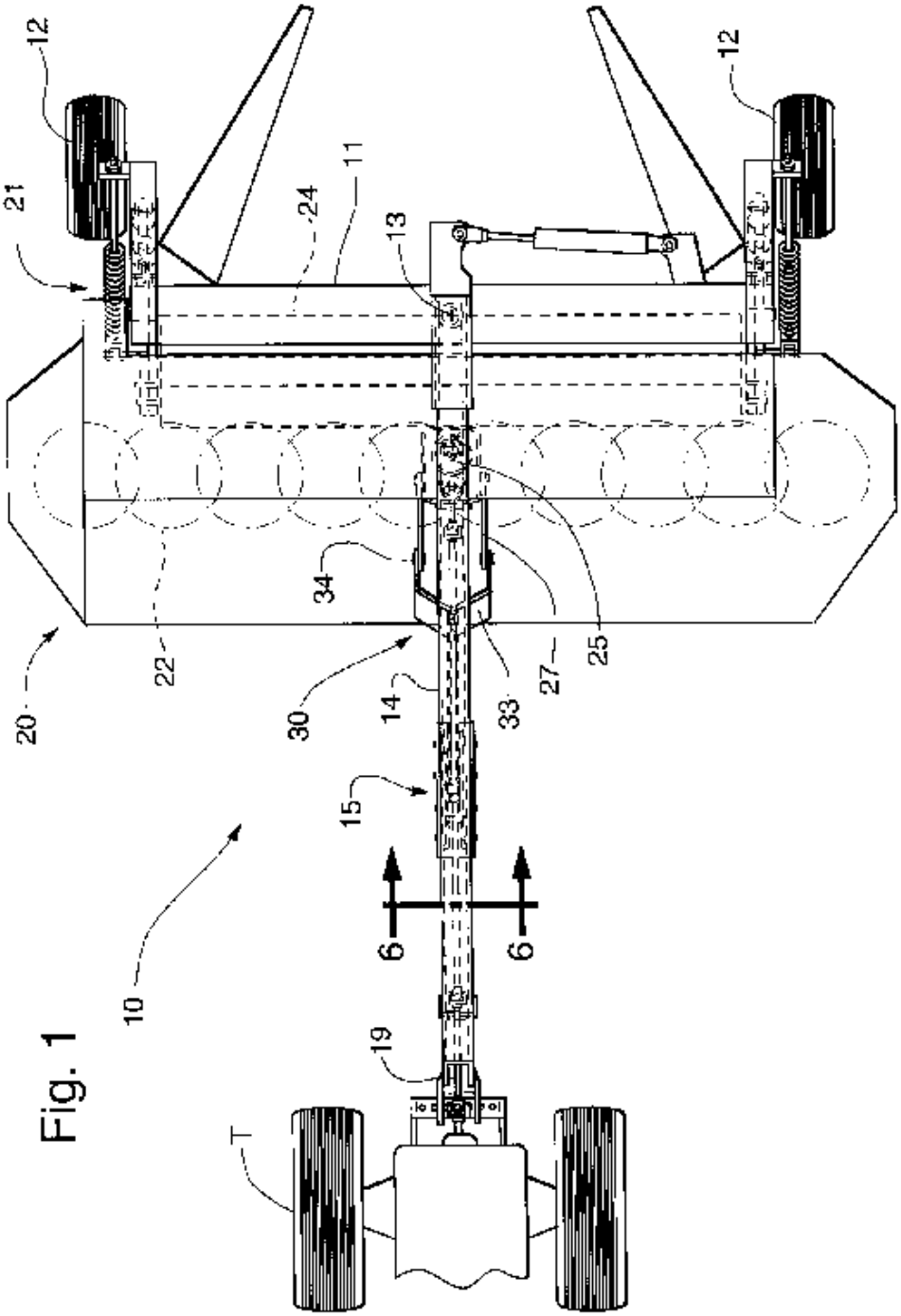


Fig. 1

Publication data including kind & date

US5916112 A 1999-06-29 US5916112

Abstract

(US5916112)

A guide link mechanism is supported from the draft tongue of a pull-type harvester and connected to the gearbox mounted on the crop harvesting header to provide rotational power thereto wherein the guide link is supported from a sliding mechanism mounted on the tongue that accommodates the changes in distance in respective points associated with the pivotal movement of the draft tongue about a different pivot center than the gearbox.The sliding mechanism includes a bracket affixed to the underside of the draft tongue and low friction inserts, such as nylon, phenolic, urethane or polyethylene inserts, carried by the bracket.The guide link is connected to a slider plate that is slidably received by the phenolic inserts to permit a sliding movement thereof relative to the draft tongue.The rearward end of the guide link is

pivotally connected to the gearbox to accommodate vertical movements of the crop harvesting header relative to the draft tongue.The guide link mechanism effects pivotal movement of the gearbox in response to the pivotal movement of the draft tongue to minimize angular deflection of the universal joints in the drive line supported on the draft tongue to deliver rotational power to the gearbox.

Inventors

STIEFVATER THOMAS L
CLEVENGER JR JAMES T
CAMPBELL STEVEN J
UNDERHILL KENNETH R

Latest standardized assignees - inventors removed

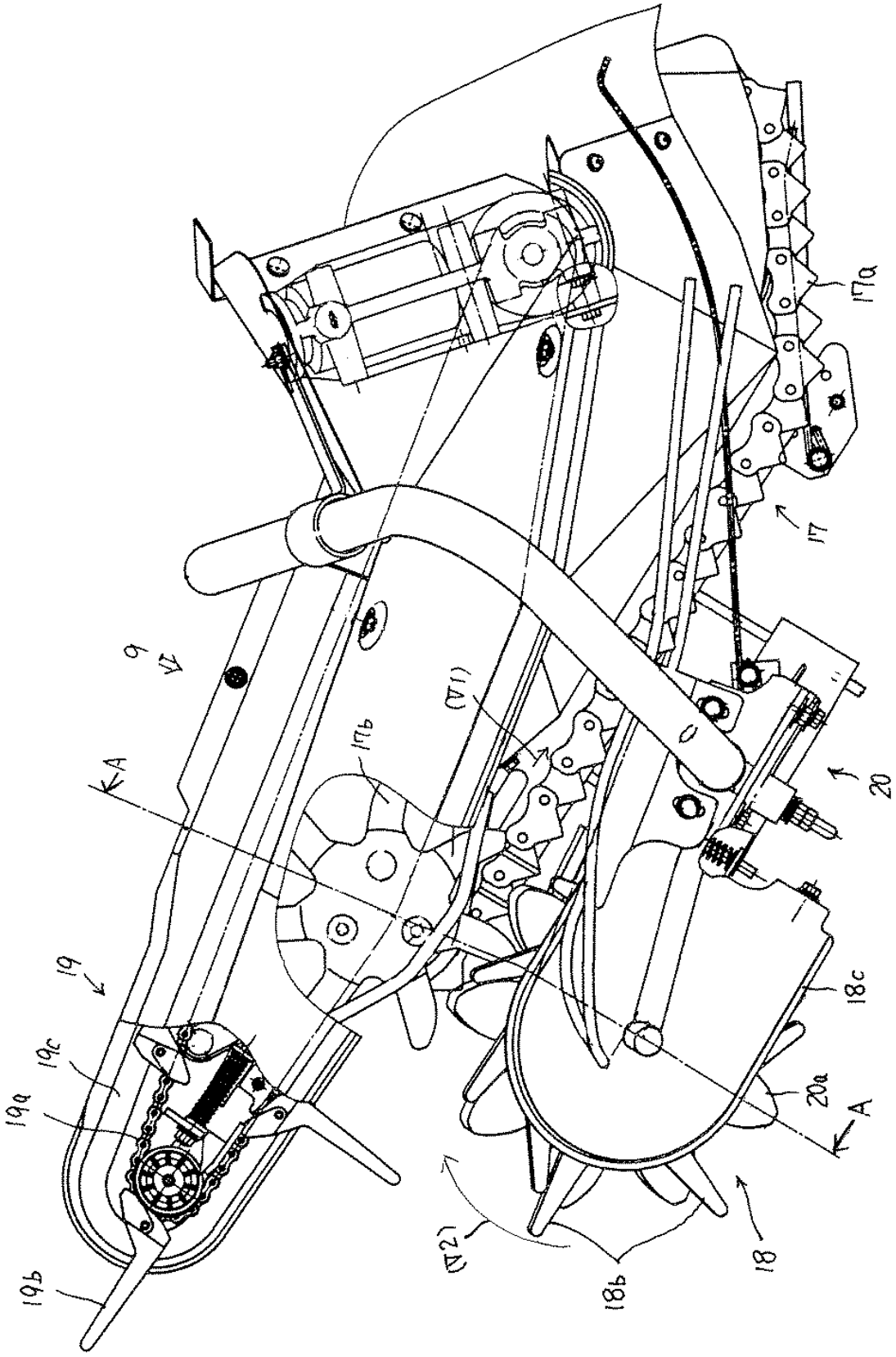
BLUE LEAF IP

Family 308/667 - FAMPAT - ©Questel

Title

(JP2005218363)
Apparatus for conveying grain culm of combine harvester

Images



Publication data including kind & date

JP2005218363	A	2005-08-18	JP2005218363
JP4325423	B2	2009-09-02	JP4325423

Abstract

(JP4325423)

PROBLEM TO BE SOLVED: To solve the problem in which grain culms are not often surely conveyed by root/ear-conveying devices, though reaped grain culms conveyed by a raking and conveying apparatus are taken over by a root

part-conveying device and an ear tip-conveying device, and the root part side is conveyed by the root part-conveying device and the ear side is conveyed by the ear tip-conveying device and they are fed to a thresher.

SOLUTION: In the grain culms-conveying apparatus, the root part-conveying device for taking over the reaped grain culms from the raking and conveying apparatus and conveying the root part side to a backward upper part and left/right ear-conveying devices for taking over the reaped grain culms from the above apparatus and conveying the ear side are installed, and a left conveying star wheel to be moved installed on the upper side of conveying start end of the root part-conveying device and driven by a right driving star wheel is installed.The left ear-conveying lag of the left ear-conveying device is installed at a position lower by a prescribed height than a position of the right ear-conveying lag of the right ear-conveying device.The chain rate of a root part-conveying chain of the left ear-conveying device is set to have nearly same rate as the peripheral speed of the top of the left ear-conveying lag of the left ear-conveying device, and the root part-conveying chain of the root part-conveying device is divided into two parts of front/rear root parts-conveying chains.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

ANAMI MASAYUKI

SAITO MANABU

OKUMOTO KOJI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

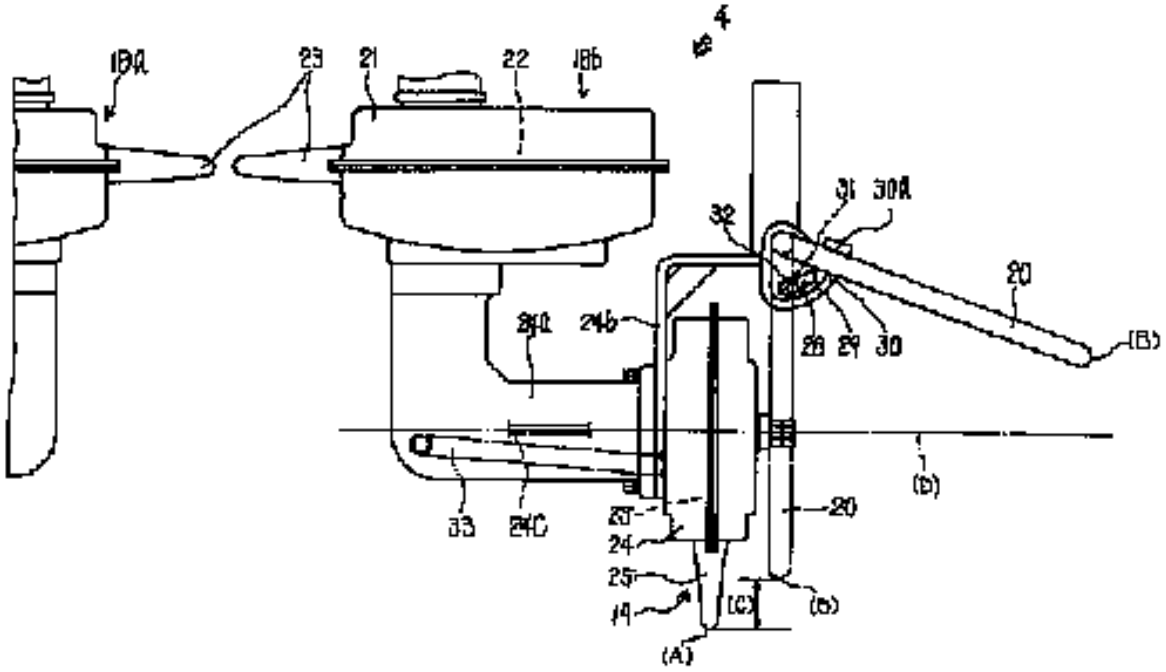
Family 309/667 - FAMPAT - ©Questel

Title

(JP11243748)

Raising up device for grain culm of combine harvester or the like

Images



Publication data including kind & date

JPH11243748 A 1999-09-14 JP11243748

Abstract

(JP11243748)

PROBLEM TO BE SOLVED: To eliminate problems that a separating rod is protruded from operating surfaces of auxiliary raising up lugs of an auxiliary raising up device for separating and raising up stand grain culms which are not reaped when the separating rod for separating the stand grain culms on the side of the unreaped grain culms which are not reaped is kept in a housed state so as not to contact a levee at the time of reaping the stand grain culms near the levee and the stand grain culms cannot resultantly be separated and raised up with the auxiliary raising up lugs to cause the grain culms left unreaped.SOLUTION: The raising up devices 18a and 18b for grain culms of a combine harvester or the like are

obtained by freely rotatably installing a separating rod 20 on the outside of an auxiliary raising up device 19 on the outside of the raising up device 18b on the side of unreaped grain culms of the raising up devices 18a and 18b on both the left and the right sides for raising up the stand grain culms to be reaped and are capable of separating the stand grain culms on the side of the unreaped grain culms and making auxiliary raising up lugs 26 of the auxiliary raising up device 19 act on the stand grain culms even when the separating rod 20 is kept in a housed state.

Inventors

ANAMI MASAYUKI

MORIMOTO HIROYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

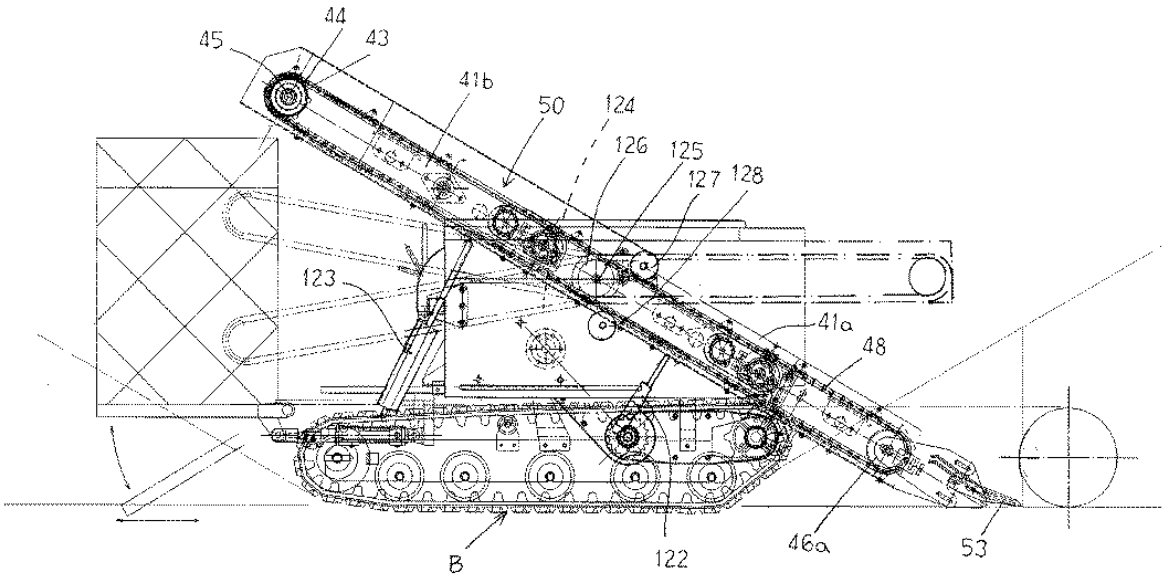
Family 310/667 - FAMPAT - ©Questel

Title

(JP2012205527)

Crop harvester

Images



Publication data including kind & date

JP2012205527 A 2012-10-25 JP2012205527

Abstract

(JP2012205527)

PROBLEM TO BE SOLVED: To provide a crop harvester composed so that the terminal end position of a digging and transporting conveyor is not changed even when the starting end of the digging and transporting conveyor is lifted and lowered, and hardly changing the falling distance from the transporting terminal end of the digging and transporting conveyor to a housing container even when the digging depth is changed.SOLUTION: The harvester for root vegetables includes the digging and transporting conveyor 50 installed for transporting harvests from a digging spade 53 at the front of the machine body toward the rear part of the machine body on a main frame equipped with a traveling device B.In the harvester for the root vegetables, the intermediate part of the front and rear of the digging and transporting conveyor 50 is made bendable; and the starting end of the digging and transporting conveyor 50 is composed so that the position can vertically be changed.The starting end and terminal end of the digging and transporting conveyor 50 are composed so as to be singly liftable and lowerable, respectively, and the digging and transporting conveyor 50 is composed so as to be bendably supported in the intermediate part of the front and rear.

Inventors

ODAGIRI HAJIME
Masami Muramachi
TAKAGI SHINGO
Takanori Iwabe
Hideaki Kurose
Yoshimi Akira

Latest standardized assignees - inventors removed

ISEKI

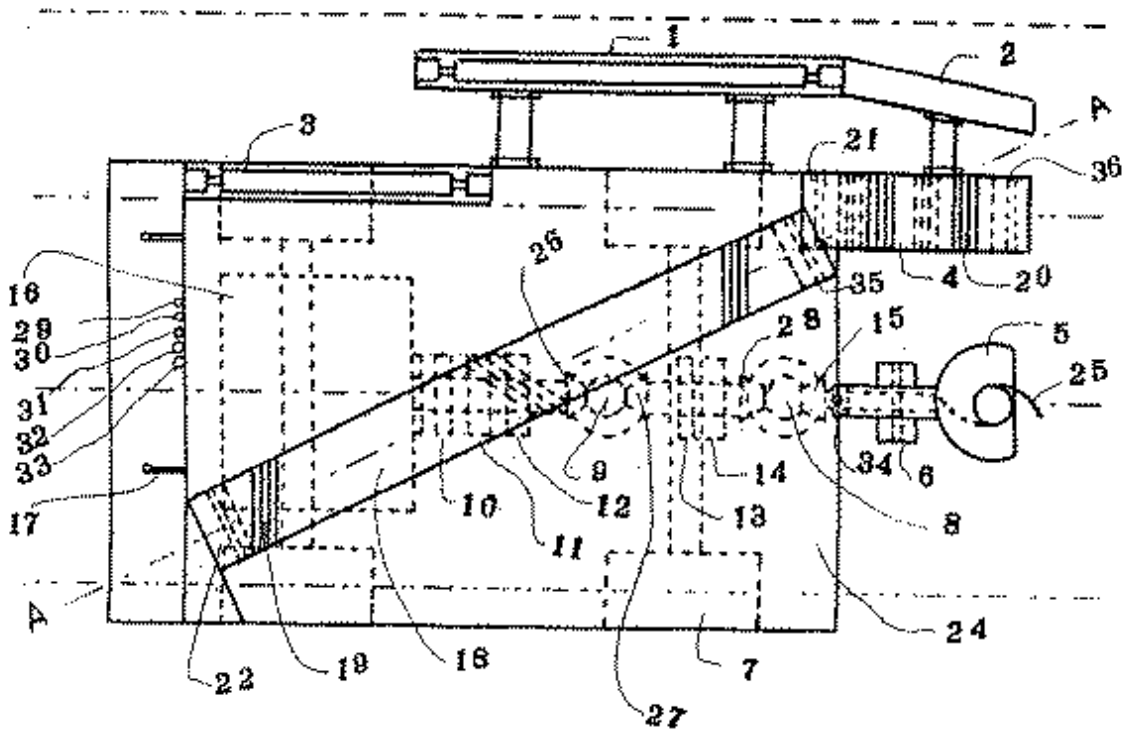
Family 311/667 - FAMPAT - ©Questel

Title

(JP2001069838)

Sugarcane harvester

Images



Publication data including kind & date

JP2001069838	A	2001-03-21	JP2001069838
JP4085224	B2	2008-05-14	JP4085224

Abstract

(JP4085224)

PROBLEM TO BE SOLVED: To provide a sugarcane harvester in order to reduce heavy labor, improve the operating efficiency and further improve the economic efficiency because the harvesting of sugarcanes is carried out by manual operations in the whole process at present and is heavy labor for workers in the sugarcanes, the operating efficiency is bad due to the manual operations, the labor force is further insufficient only by private labor force and farmers cannot but employ persons so that the sugarcanes must be harvested within a definite period of time and a reduction in the economic efficiency is thereby caused.SOLUTION: This sugarcane harvester comprises wheels thereof corresponding to furrows of a sugarcane field and arranged so that the sugarcanes growing on ridges can be cut with a cutter while traveling and further an up conveyor and a main conveyor provided in order to feed the cut sugarcanes to a sugarcane receiver.

Inventors

YONAHA TERUYOSHI

Family 312/667 - FAMPAT - ©Questel

Title

(DE4009981)

Ascertaining amt. of useful product in mixt. - removing unwanted components by washing and measuring mass by measuring vol

Images

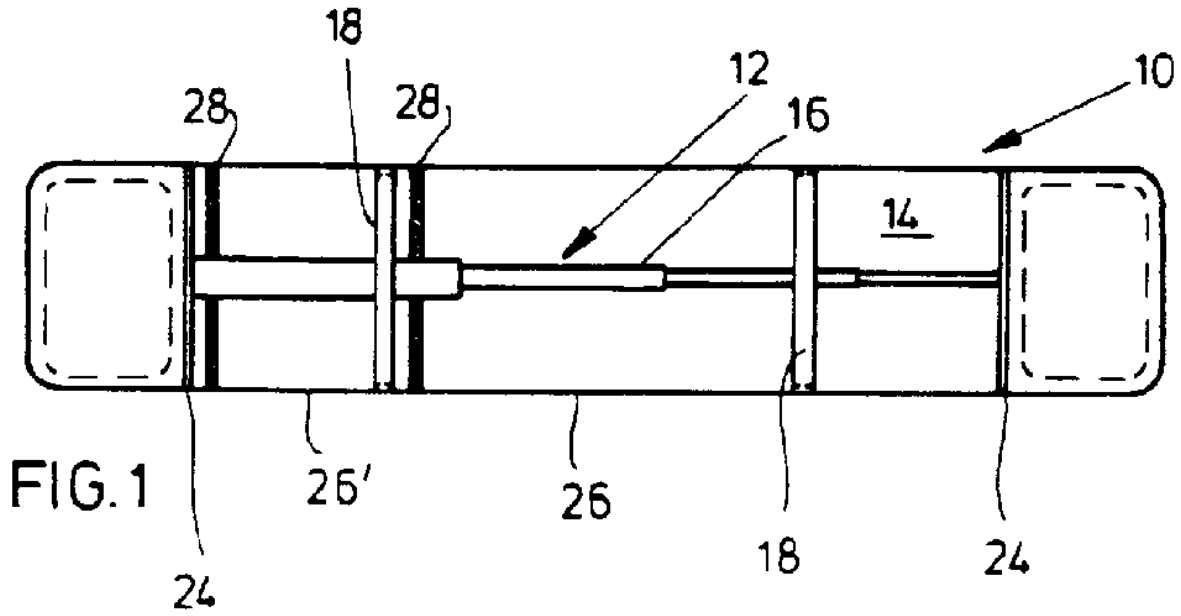


FIG.1

Publication data including kind & date

DE4009981	A1	1991-10-02	DE4009981
DE4009981	C2	1993-03-04	DE4009981

Abstract

(DE4009981)

The mass of valuable product in a batch is ascertained by using a collector (10), a cleaner and a measurer.The collector is applied to the stream of material.From there it is picked up and processed in the cleaner to separate out the desired product.The latter is delivered to the measurer where the mass is derived from its volume.A calculator can be used in the last stage to compare the derived mass in relation to masses.The collector can be in the form of a cloth (14) stretched over a frame (12).The latter can be telescopic in construction or have a length part (16) formed from elements which can be plugged together.A tensioning element (18) crosses the length part.A motor-driven fan, acting like a hair-dryer, can be used in the cleaner, the power deriving from an accumalator.USE/ADVANTAGE - Esp. ascertaining grain less in combine harvester.Simple method and equipment.

Inventors

RIEDINGER, FRANZ W., 6650 HOMBURG, DE

Latest standardized assignees - inventors removed

DEERE

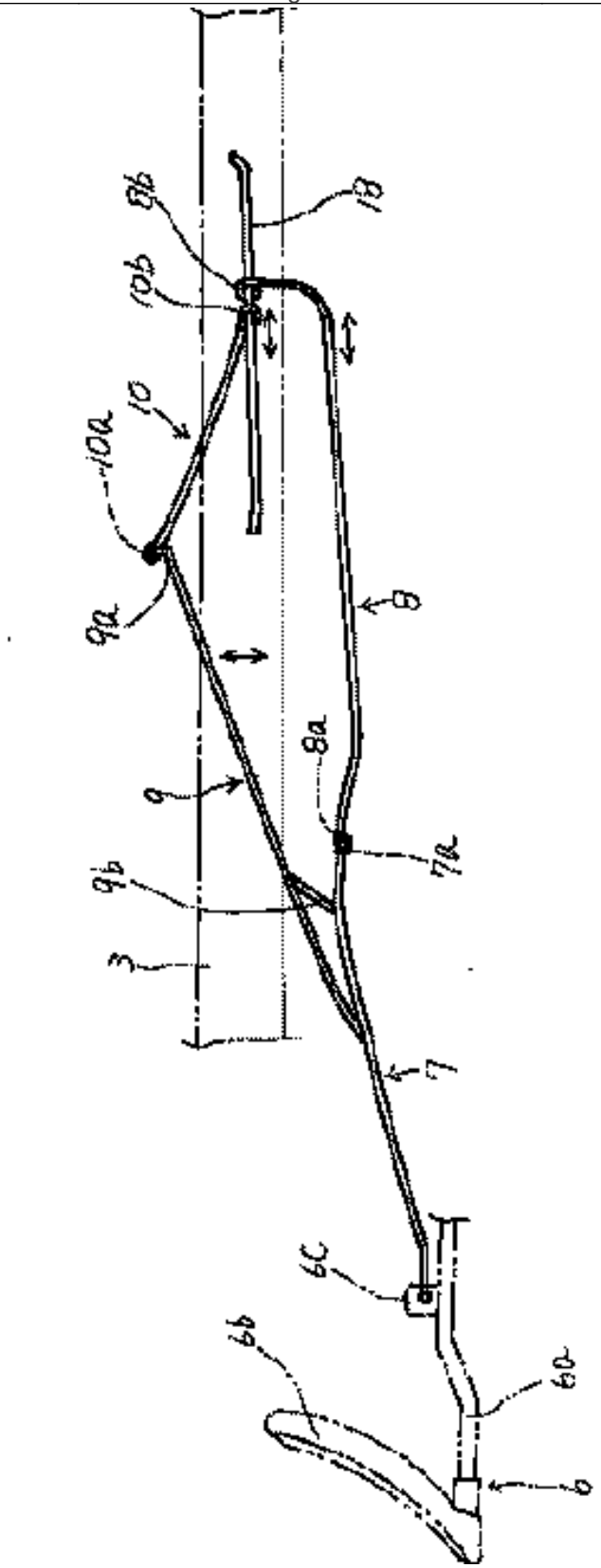
Family 313/667 - FAMPAT - ©Questel

Title

(JP2003009631)

Apparatus for separating grain culm of combine harvester

Images



Publication data including kind & date

JP2003009631 A 2003-01-14 JP2003009631

Abstract

(JP2003009631)

PROBLEM TO BE SOLVED: To simply regulate a narrow guide depending on a long culm or a lodged state of stand grain culms and surely separate the grain culms.SOLUTION: This apparatus for separating grain culms of a combine harvester is composed by connecting a front and a rear narrow guides 7 and 8 for separating the stand grain culms between a grass divider 6 installed on the left side of the front end of a reaper and the rear of a thresher, installing the rear narrow guide 8 by freely slidable pivoting thereof on a traveling narrow guide 18, connecting a front and a rear long culm narrow guides 9 and 10 between the front narrow guide 7 and the traveling narrow guide 18 and installing the rear long culm narrow guide

10 by freely slidable pivoting thereof on the traveling narrow guide 18.The front and the rear long culm narrow guides 9 and 10 are connected between the front narrow guide 7 and the rear narrow guide 8 and the rear long culm narrow guide 10 is installed by freely slidable pivoting thereof on the rear narrow guide 8.

Inventors

TAKAHASHI HAKURO
IIIZUMI KIYOSHI
UCHIDA HIROYA
WATANABE HITOSHI
KUROKAWA MASAHIRO
SHIRAKATA MIKIYA
NISHIZAKI HIROSHI
TSUJI KENTARO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

Family 314/667 - FAMPAT - ©Questel

Title

(DE2706260)

Top feeler for sugar-beet harvester - consists of wheel and deflector wheel around which runs continuous belt or chain

Publication data including kind & date

DE2706260 A1 1978-08-17 DE2706260

Abstract

(DE2706260)

The feeler for the knife which cuts off the tops of sugar beet, consists of an inclined belt or chain, which travels in the direction of movement of the harvester.The feeling component consists of a feeler wheel in front of which is a deflector or tension wheel.The distance between the deflector wheel and the ground can be adjusted.A profiled tube is fixed in front of the feeler wheel to an attachment rail.The profiled tube is telescopic, consisting of inner and outer tubes with a compression spring.

Inventors

BOLLMANN HEINRICH

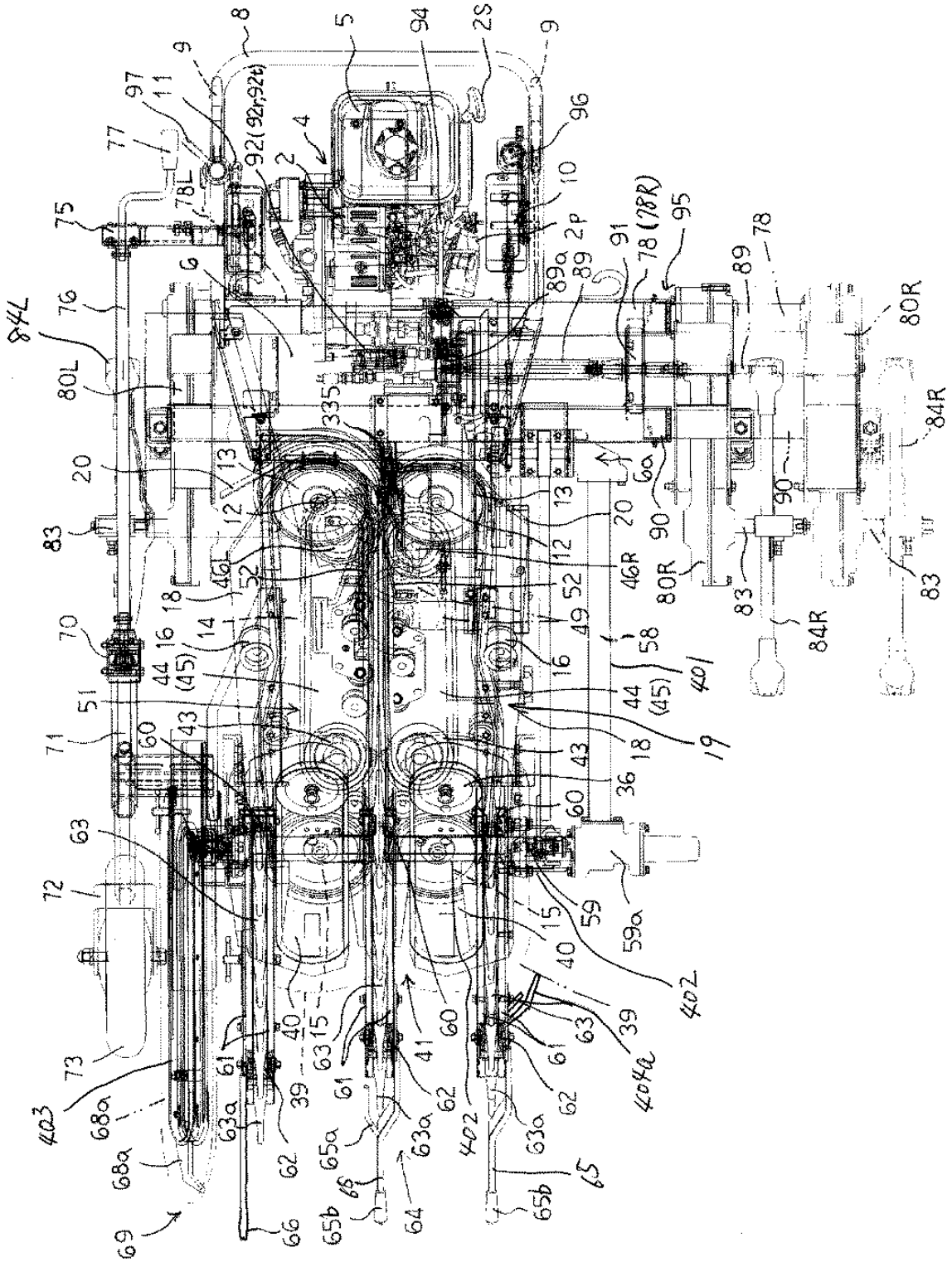
Family 315/667 - FAMPAT - ©Questel

Title

(JP2016032451)

Crop harvester

Images



Publication data including kind & date

JP2016032451 A 2016-03-10 JP2016032451

Abstract

(JP2016032451)

PROBLEM TO BE SOLVED: To perform favorable harvesting work by properly pulling up a foliage of a crop by using a pull-up device.SOLUTION: A crop harvester comprises left and right traveling devices (84L, 84R), a pull-up device (64) which pulls up a foliage, and a drawing transportation device (19) which grips the foliage pulled up by the pull-up device (64), and draws out the foliage from a field.Left and right centers of the pull-up device (64) are displaced to left and right one-end sides with respect to left and right centers between the left and right traveling devices (84L, 84R).The pull-up

device (64) comprises a circulation mechanism of pull-up lugs (63a) which are arranged in left and right directions in a plurality of rows, the pull-up lugs (63a) pull up the foliages while circulating in each row, the pull-up lugs (63a) at left and right one-end sides out of the pull-up lugs (63a) in a plurality of the rows are formed of soft materials, and the pull-up lugs (63a) in the rows at left and right other-end sides are formed of hard materials which are harder than those of the pull-up lugs (63a) in the rows at the left and right one-end sides.SELECTED DRAWING: Figure 2

Inventors

TAKAGI SHINGO
Hideaki Kurose
Masami Muramachi
YUMITATSU TAKESHI
Shinichi Matsuzabu

Latest standardized assignees - inventors removed

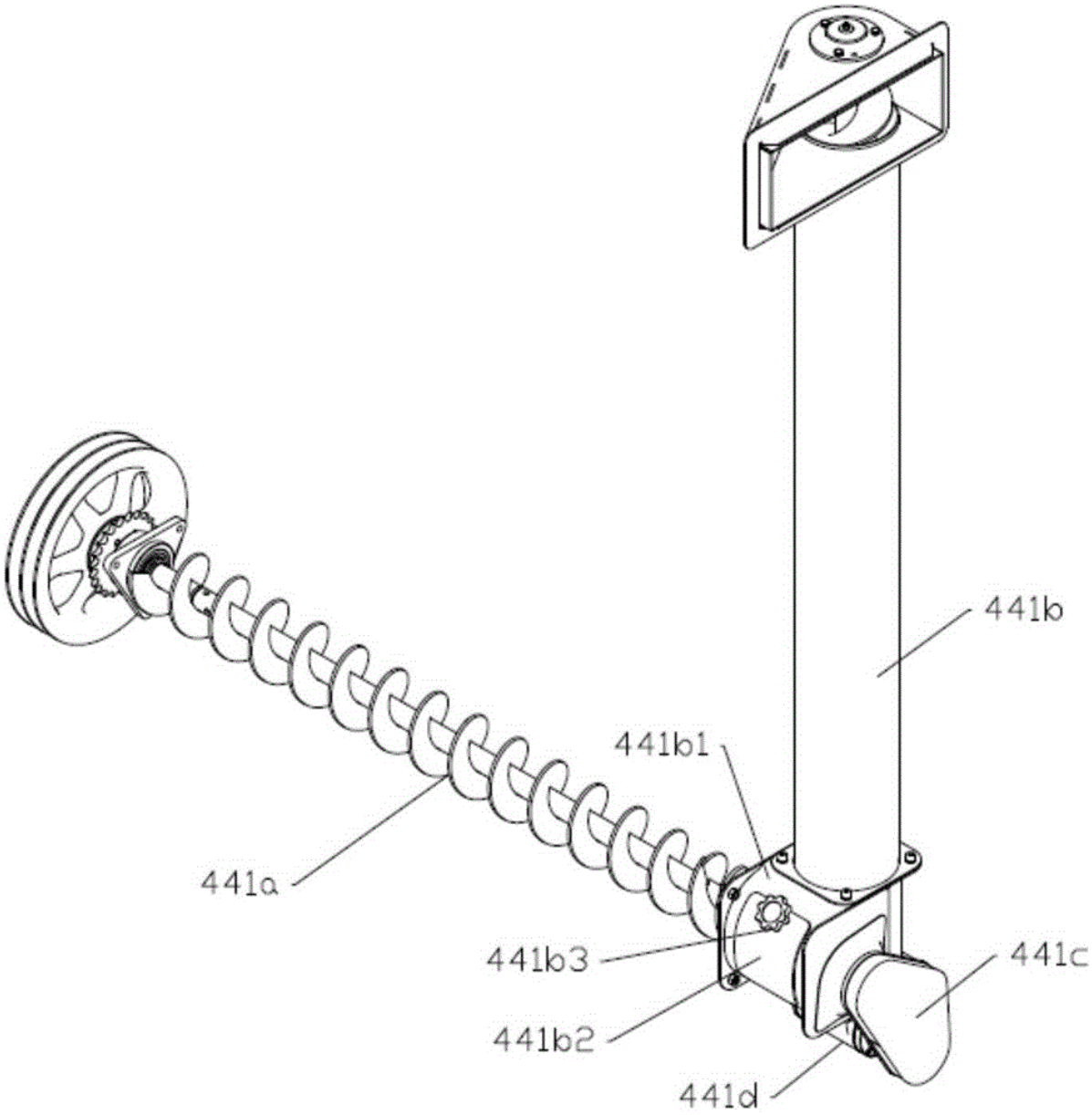
ISEKI

Family 316/667 - FAMPAT - ©Questel

Title

(CN103814683)
Grain conveying device and combine-harvester with grain conveying device

Images



Publication data including kind & date

CN103814683	A	2014-05-28	CN103814683
CN103814683	B	2016-05-18	CN103814683B

Abstract

(CN103814683B)

The invention discloses a grain conveying device which comprises a transverse conveying auger and a vertical conveying auger which are connected through a connecting part, and the connecting part is provided with a lateral opening.According to the grain conveying device disclosed by the invention, a bevel gear box is arranged externally, so the maintenance is convenient in case of malfunction; the axial lead of the transverse conveying auger and the axial lead of the vertical conveying auger are connected in a staggered manner rather than being crossed, and thus the manufacturing cost of equipment is reduced; a cleaning window is arranged on the connecting part, so the congestion is relieved in time, and the smooth production is guaranteed.

Inventors

FENG YUNYUN

GU WEI

Latest standardized assignees - inventors removed

STAR AGRICULTURAL MACHINERY

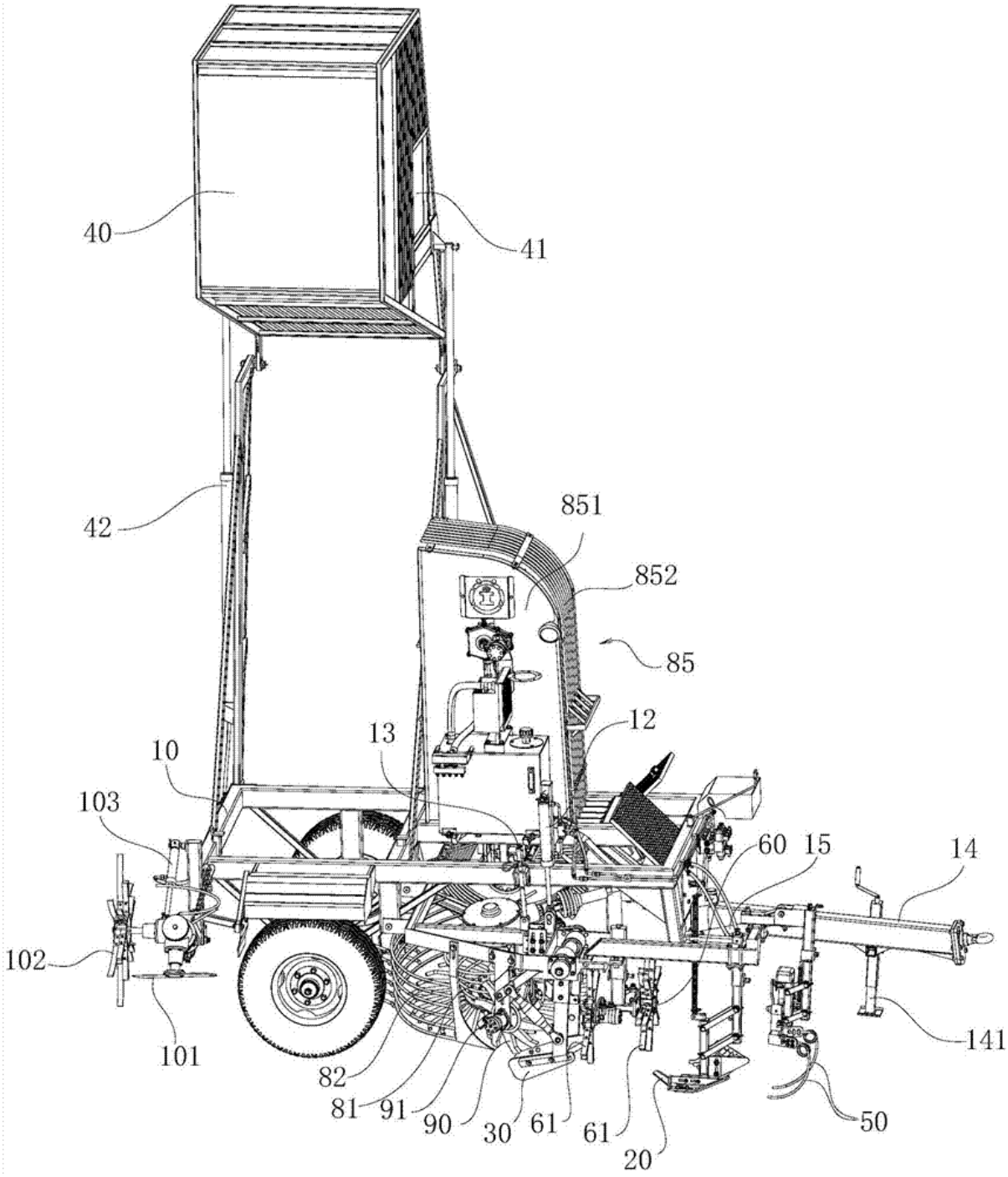
Family 317/667 - FAMPAT - ©Questel

Title

(CN108184437)

Radish harvesting method

Images



Publication data including kind & date

CN108184437 A 2018-06-22 CN108184437

Abstract

(CN108184437)

The invention relates to a radish harvesting method which includes the steps: firstly, driving a radish harvester onto one side of a radish planting field, and parking the radish harvester at the endof a ridge of one side of the radish planting field; connecting the radish harvester with a traction mechanism, starting a first cylinder, adjusting a auxiliary frame to reach suitable height, adjusting the heights of two arc-shaped arrangement rods of an arrangement mechanism to reach suitable positions, adjusting the cutter height of a leaf cutting mechanism to reach a suitable position, adjusting the heights of two soil digging plates of a root digging mechanism to reach suitable positions, and adjusting the height of a raking plate to reach a suitable position; starting the traction mechanism, and dragging the radish harvester to go forward along the length direction of the ridge until the radish harvester reaches the tail end of the ridge; stopping a fifth hydraulic motor and a dynamic hydraulic motor, stopping a first hydraulic motor and a second hydraulic motor, stopping a third hydraulic motor and a fourth hydraulic motor, and starting an adjusting cylinder to match with the traction mechanism to turn round; completely harvesting radishes of the whole radish planting field.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE CITED

Latest standardized assignees - inventors removed

LI CUIPING

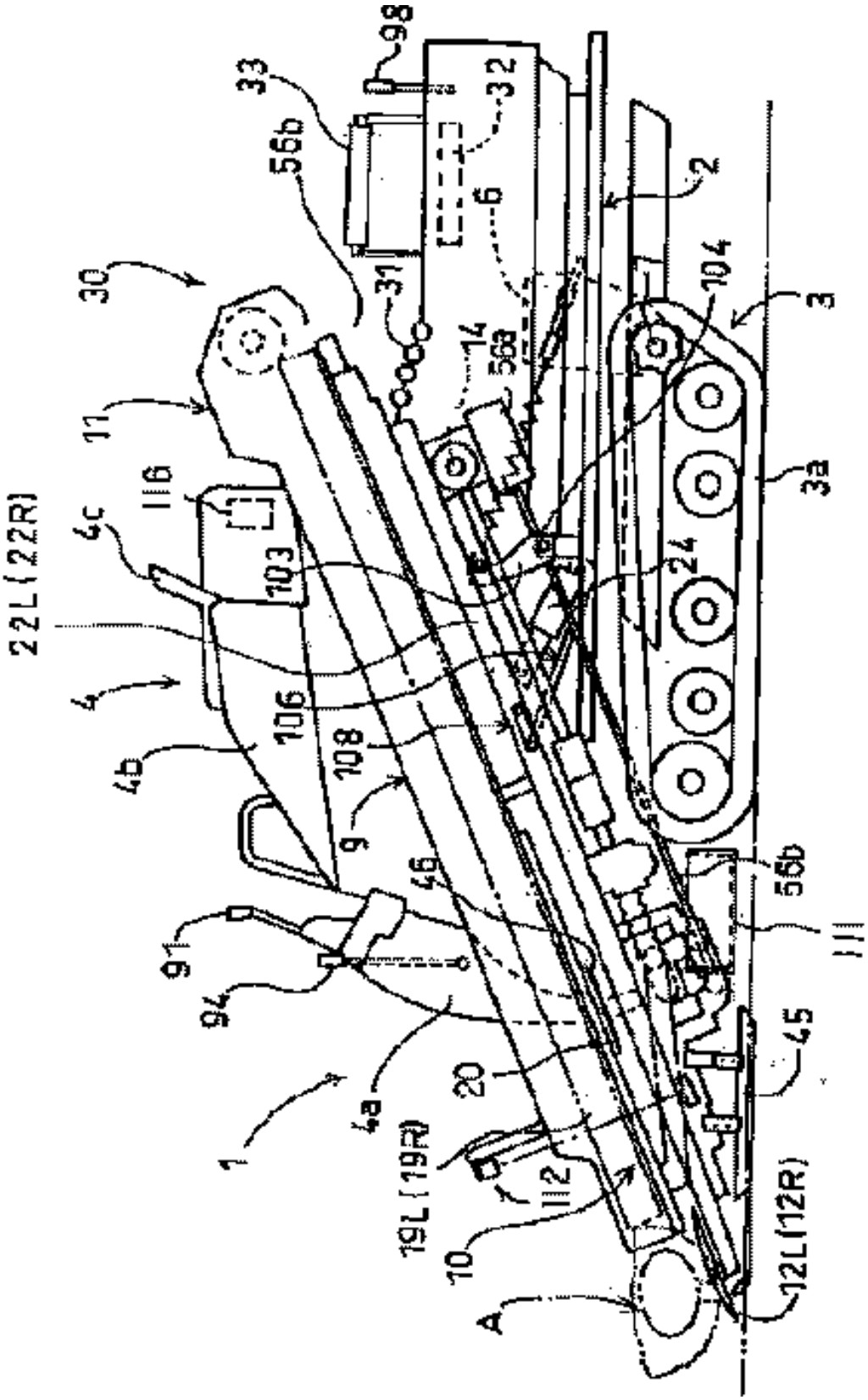
Family 318/667 - FAMPAT - ©Questel

Title

(JP2003310030)

Harvester for head formation vegetable

Images



Publication data including kind & date

JP2003310030 A 2003-11-05 JP2003310030

Abstract

(JP2003310030)
PROBLEM TO BE SOLVED: To provide a harvester for head formation vegetables, with which rhizome parts separated from the head formation vegetables are not discharged to a field when the head formation vegetables are harvested.
SOLUTION: In the harvester for the head formation vegetables, equipped with a pulling apparatus 10 for pulling out the head formation vegetables and sending them backward, a cutter 20 for cutting the rhizome parts and a head formation part nipping and transporting apparatus 11 for nipping the head formation parts and transporting them backward, the harvester is equipped with a rhizome part storing container 111 for receiving the rhizome parts cut off by the cutter 20 and dropping.
COPYRIGHT: (C)2004,JPO

Inventors

TAKAHASHI SHINICHI
MIKI TERUMASA

Latest standardized assignees - inventors removed

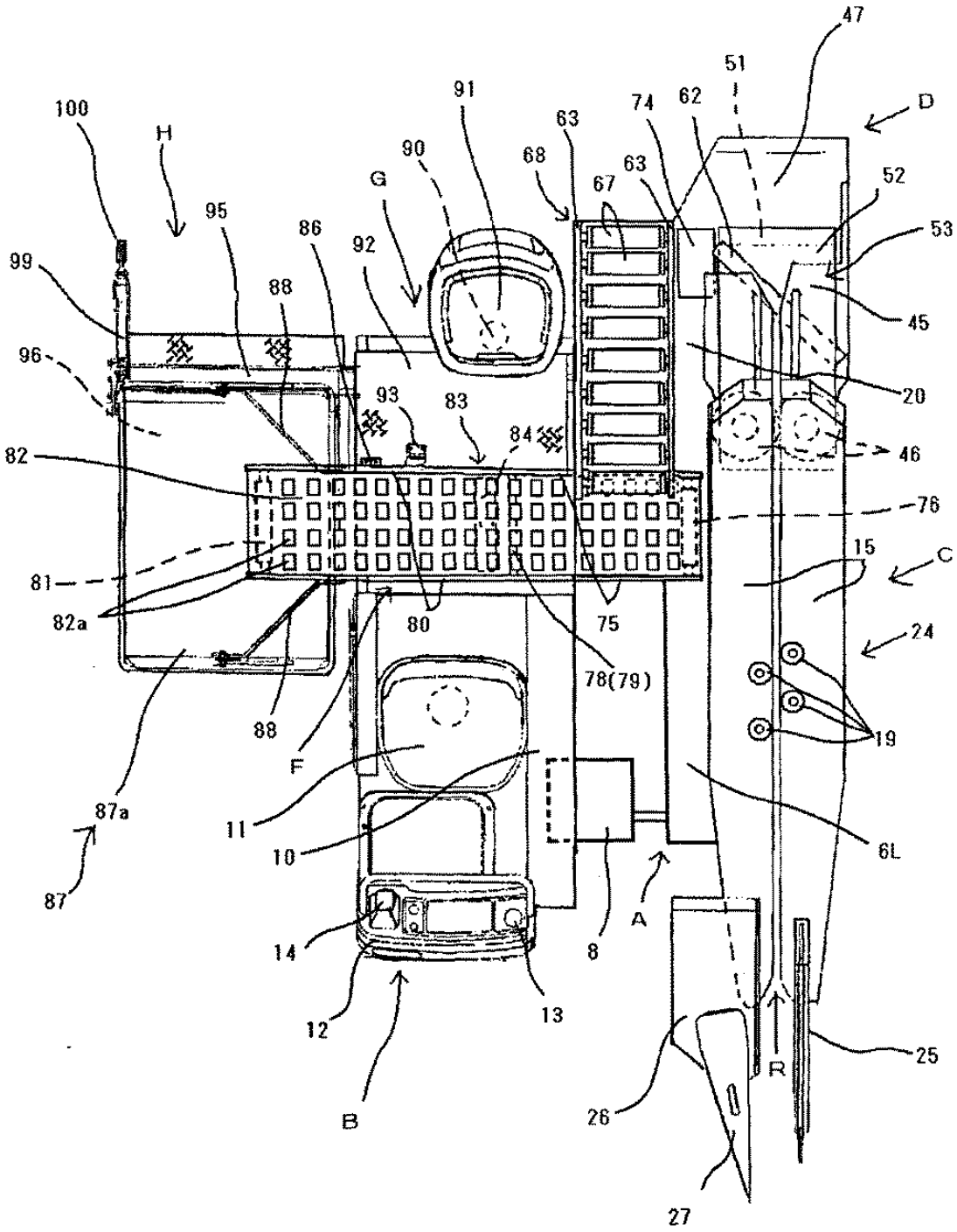
SEIREI INDUSTRY

Family 319/667 - FAMPAT - ©Questel

Title

(JP2010142178)
Root crop harvester

Images



Publication data including kind & date

JP2010142178 A 2010-07-01 JP2010142178

Abstract

(JP2010142178)

PROBLEM TO BE SOLVED: To provide a root crop harvester having short back and forth length and narrow right and left width of a machine body and smoothly performing gyration and turnaround of the body.

SOLUTION: The root crop harvester is provided with a drawing and transporting device (24) to draw and transport a root crop backward at a side of a steering unit (B), a transferring and cutting device (48) to cut and drop the root crop with a leaf and stalk cutting mechanism (46) during backward transportation, a residual leaf processing device (D) to transfer the root crop backward under the cutting device, remove residual leaves by a rolling roller (62) and discharge the resicual leaves to a lateral side of the steering unit, a first selection and transportation device (68) to transfer the crop forward on the harvested side, a second selection and transportation device (83) to transport the root crop received at the terminal end of

the first transportation device to a holding member loading table (96) at an end of the harvested side across the back side of the steering unit (B), and a selection work floor (92) having a selection work seat (91) placed at a position facing the first selection and transportation device (68) and the second selection and transportation device (83) and seating a worker to perform selection work of the root crop and exchange work of the holding member (87).

COPYRIGHT: (C)2010,JPO&INPIT

Inventors

ODAGIRI HAJIME

TAKAGI SHINGO

IWABE TAKAAKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

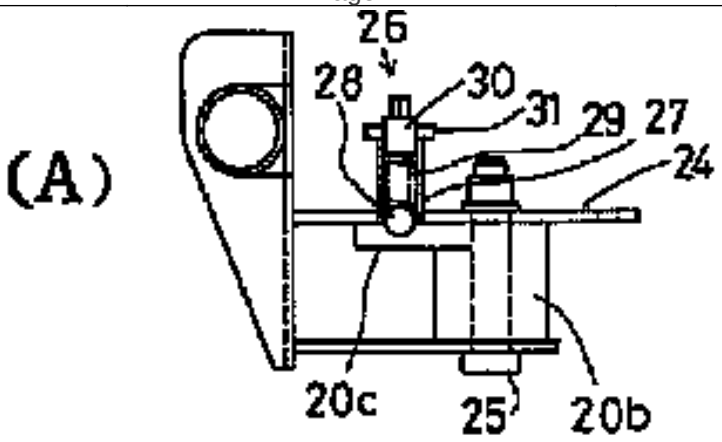
Family 320/667 - FAMPAT - ©Questel

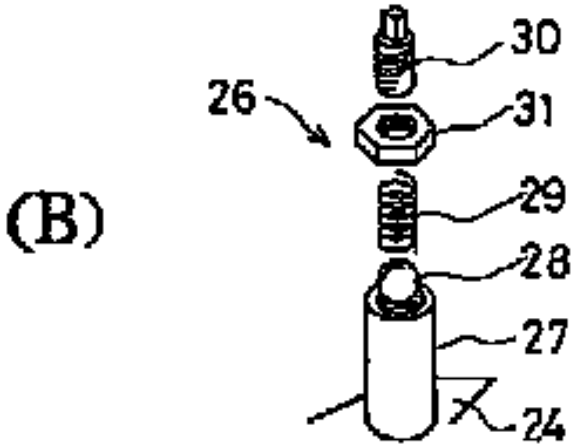
Title

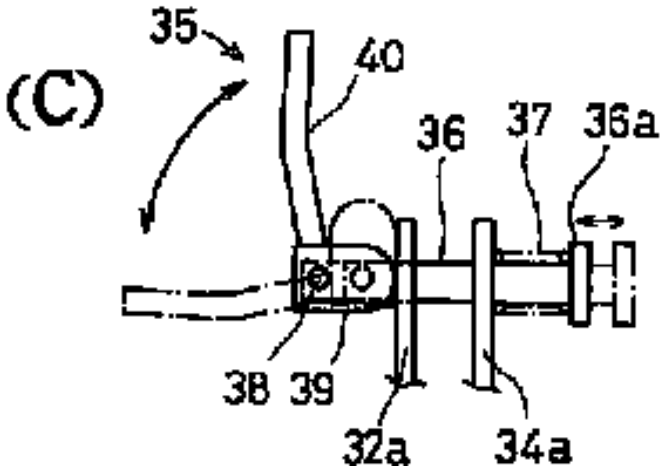
(JP2000116220)

Reaping harvester

Images







Publication data including kind & date

JP2000116220 A 2000-04-25 JP2000116220

Abstract

(JP2000116220)

PROBLEM TO BE SOLVED: To facilitate the position adjustment of a reaping part and to reduce backlash of the reaping part as small as possible in changing the right and left positions of the reaping part.SOLUTION: In connecting a reaping part 2 for cutting stems and culms to the front part of a machine body so as to change a right and a left positions, this reaping harvester is equipped with a ball mechanism 26 for locating the reaping part 2 at each of change positions and temporarily retaining the reaping part and an expanding and contracting lock mechanism 35 for fixing the temporarily retained reaping part.

Inventors

KOMATSU MASAHIRO

Latest standardized assignees - inventors removed

MITSUBISHI AGRICULTURAL MACHINERY

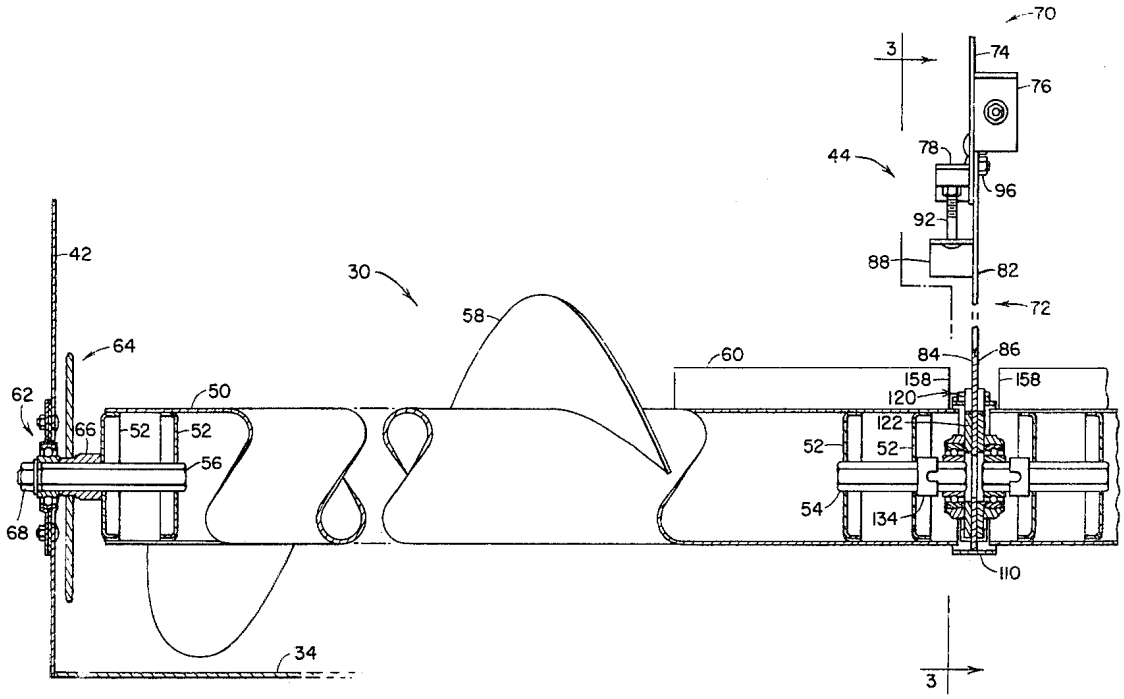
Family 321/667 - FAMPAT - ©Questel

Title

(EP--44505)

Harvester with a crop conveyor means

Images



Publication data including kind & date

US4300333	A	1981-11-17	US4300333
AU7249181	A	1982-01-21	AU8172491
EP0044505	A1	1982-01-27	EP--44505
BR8104537	A	1982-03-30	BR8104537
ES504055	A0	1982-05-16	ES-504055
ES8204578	A1	1982-05-16	ES8204578
CA1145561	A	1983-05-03	CA1145561
AU535872	B2	1984-04-05	AU-535872
AR231482	A1	1984-12-28	AR-231482
EP0044505	B1	1985-04-10	EP--44505
DE3169816	D1	1985-05-15	DE3169816

Abstract

(EP--44505)

The cross auger of a corn head for a combine is made up of two independent identical but opposite-hand auger sections, each separately driven and with their inner ends sharing a common central suspension member.The inner end of each section includes a bearing plate which abuts its respective side of the suspension member and engages a pair of support ledges for support and location.A single fastener locks the two auger sections in position.A common central annular shield axially overlaps the inner ends of the tubes of both auger sections.An upper portion of the shield is easily removable to permit the inner end of either auger section to be lifted out of engagement with the support hanger without disturbing the remaining auger section.

(From US4300333 A)

Inventors

ANDERSON, SIDNEY ELMER

Latest standardized assignees - inventors removed

DEERE

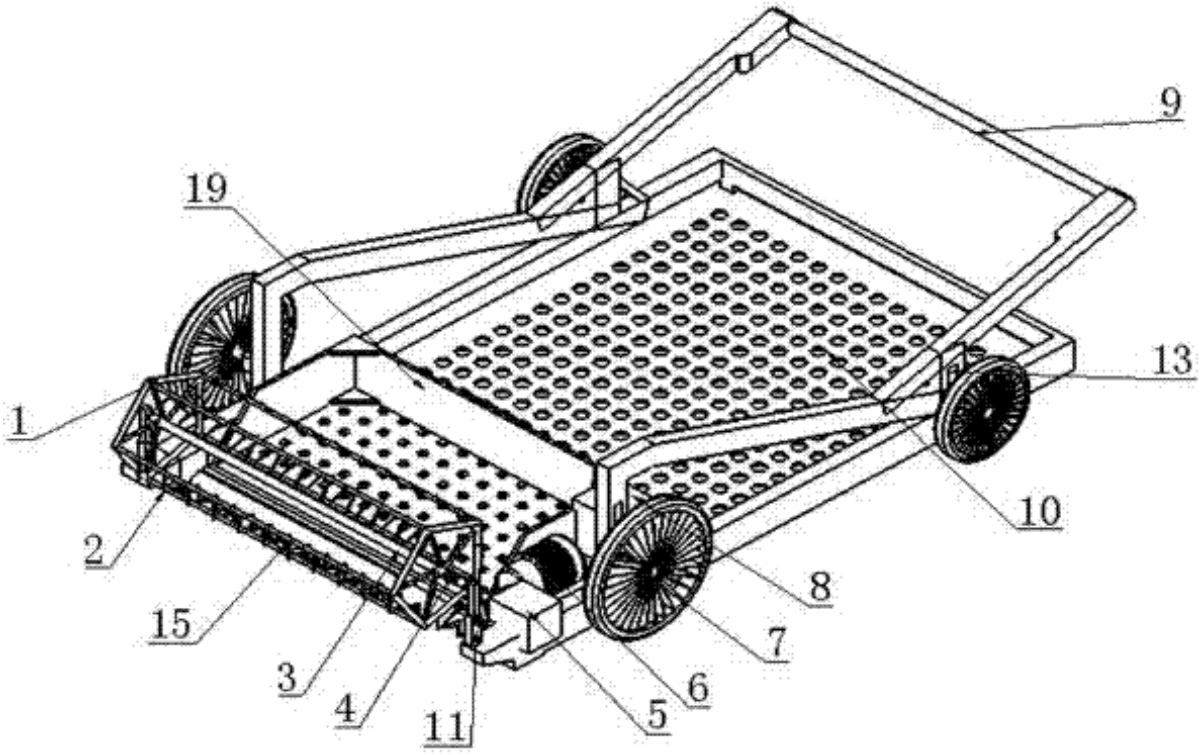
Family 322/667 - FAMPAT - ©Questel

Title

(CN207284237U)

Chinese chive harvester

Images



Publication data including kind & date

CN207284237 U 2018-05-01 CN207284237U

Abstract

(CN207284237U)

The utility model relates to a chinese chive harvester, including the frame of installing the walking wheel, the rotatory reel by motor drive is installed to the frame front end, the reel below is equipped with installs cutting device in the frame, it holds the case to have set firmly in the frame at cutting device rear, hold one side that the case is close to cutting device for open structure.The utility model discloses the whole structure is rationally distributed, and the complete machine is small, utilizes in the frame reel and cutting device's cooperation cutting, has improved by a widemargin and has reaped efficiency, has alleviateed intensity of labour to reduce the operating time of peasant household at the big -arch shelter, reduced the injury of humid environment to the health.

Inventors

LI TIANHUA

CHEN DAJUN

HOU JIALIN

SHI GUOYING

LIU PING

LI YUHUA

WU YANQIANG

Latest standardized assignees - inventors removed

SHANDONG AGRICULTURAL UNIVERSITY

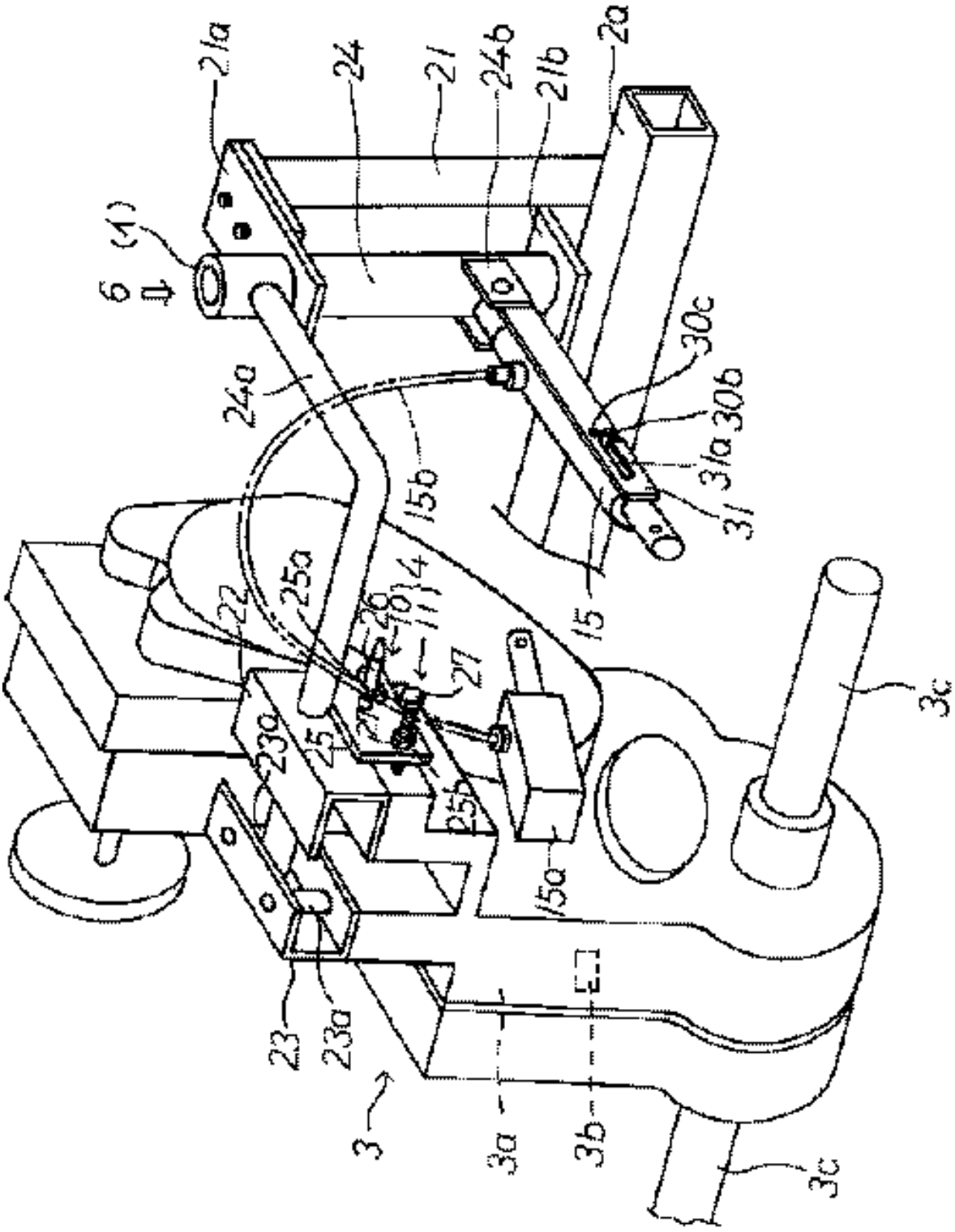
Family 323/667 - FAMPAT - ©Questel

Title

(JP2003310032)

Reaping machine for combine harvester

Images



Publication data including kind & date

JP2003310032 A 2003-11-05 JP2003310032

Abstract

(JP2003310032)

PROBLEM TO BE SOLVED: To provide a reaping machine for a combine harvester, with which a reaping apparatus is readily restored from a nonoperation state to a reaping operation state of reaping grain culms and accurately to a fixed original position.

SOLUTION: The reaping machine for the combine harvester has constitution that the reaping apparatus for reaping and transporting stand grain culms is supported in a reaping operation state and in a nonoperation state openable to an external side by a rotary support device 6 and a positioning means 4 for restoring and setting the reaping apparatus at the operation state is installed.The positioning means 4 is constituted of a vertical positioning apparatus 10 and a horizontal positioning apparatus 11 and the horizontal positioning means 11 is adjustable.

COPYRIGHT: (C)2004,JPO

Inventors

SATOJI HISAYUKI

IWAMOTO HIROSHI

NAGAI TOSHIRO

WATABE HIROKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

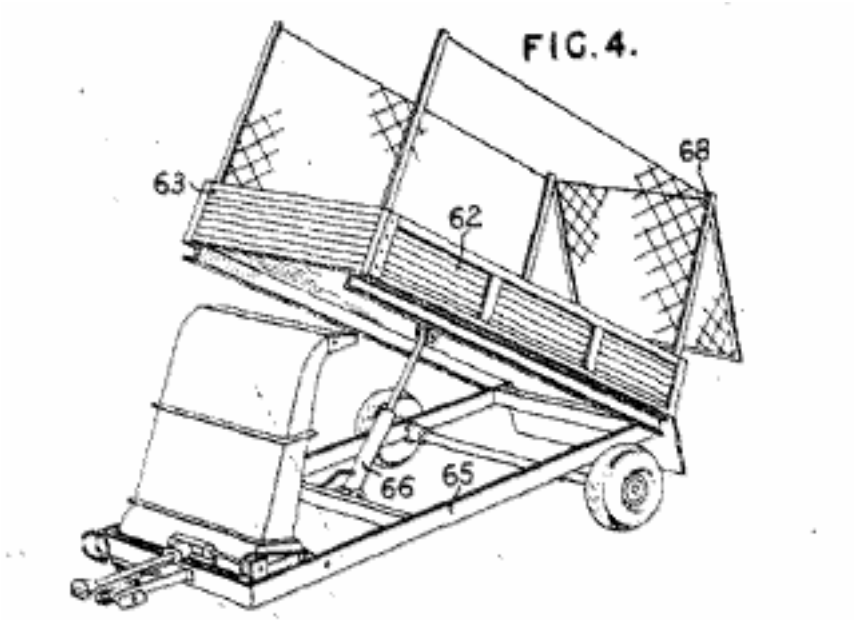
Family 324/667 - FAMPAT - ©Questel

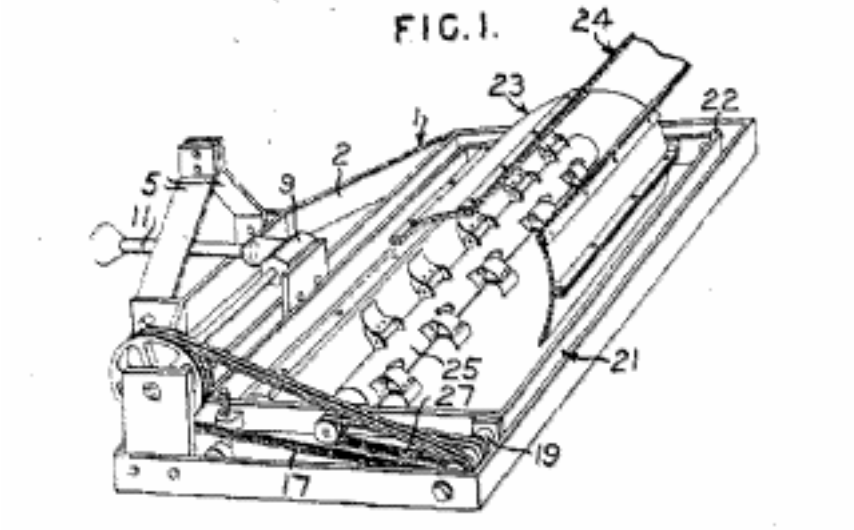
Title

(GB-878398)

Improvements in forage harvesters

Images





Publication data including kind & date

GB878398 A 1961-09-27 GB-878398

Abstract

(GB-878398)

878,398. Forage harvesters.LUNDELL (GREAT BRITAIN) Ltd.Sept. 8, 1959 [Sept. 11, 1958 ; April 1, 1959], Nos. 29198/58 and 11128/59.Class 6(3).In a forage-harvester of the type having a crop-disingrating and pick-up member comprising a power-driven flail-shaft 25, the flailshaft is carried by a sub-frame 21 pivotally supported on the main frame 1 of the harvester.In Fig. 1, the main frame is directly mounted on tractor hitch-links by means of a structure 2, 5, the drive to the flails being derived from the tractor through a shaft 11, gearbox 9, and belt-drives 17, 27.The sub-frame is pivoted within the main-frame on aligned stub-shafts 19, 22, one of these carrying common pulleys for the belt-drives 17, 27.A casing 23 envelops the upper part of the flail-assembly and is integral with a discharge shoot 24.In Fig. 4, the main frame 65 forms part of a tipping trailer, the body 62, 63 being tipped by a hydraulic jack 66 and having a pivoted rear side 68.

Inventors

YOUNG DANIEL ARTHUR

STEVEN ROBERT STEVENSON

Latest standardized assignees - inventors removed

LUNDELL GREAT BRITAIN

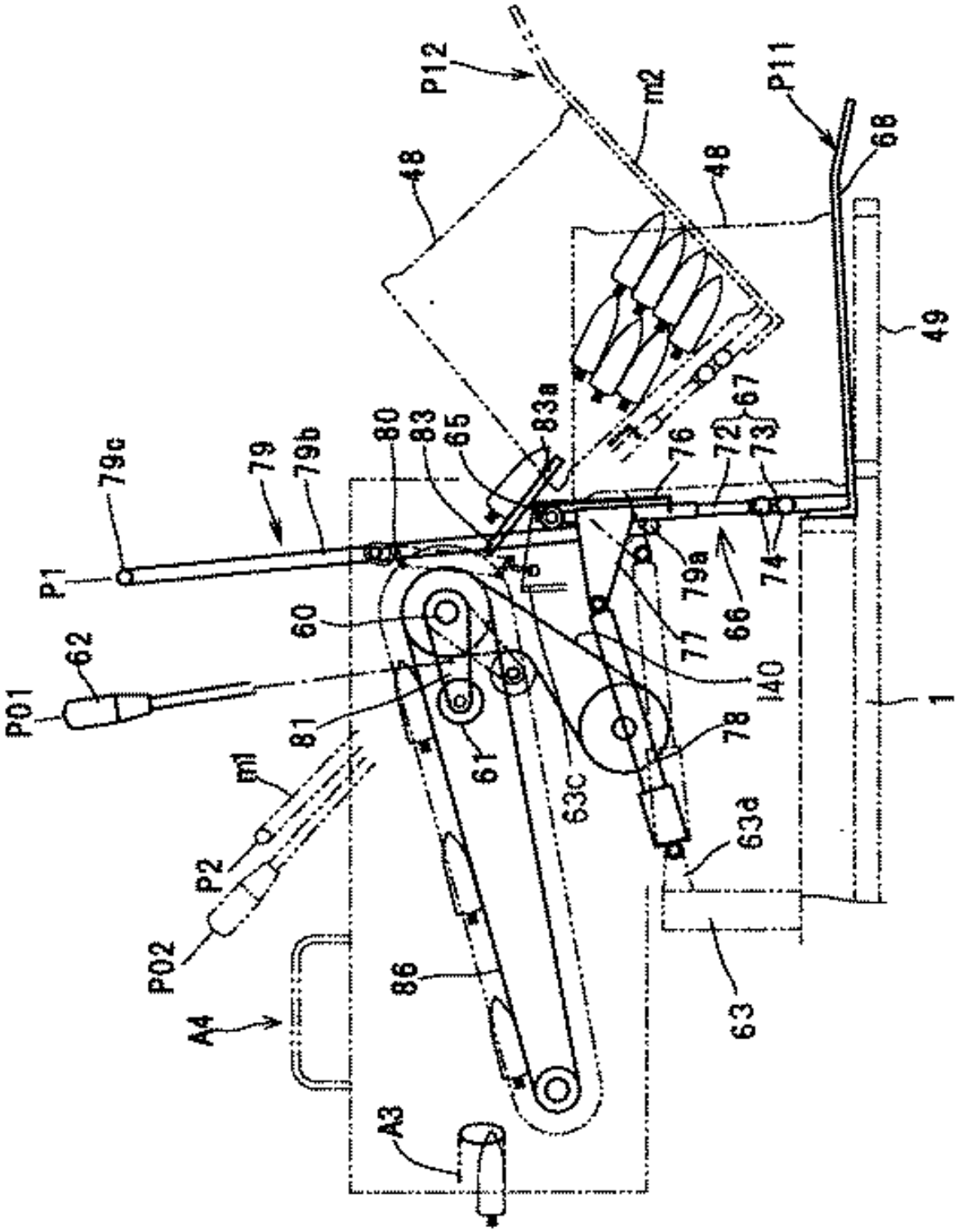
Family 325/667 - FAMPAT - ©Questel

Title

(JP2005034103)

Root crop harvester

Images



Publication data including kind & date

JP2005034103 A 2005-02-10 JP2005034103

Abstract

(JP2005034103)

PROBLEM TO BE SOLVED: To reduce labor of operation and improve operation efficiency by swinging a container-receiving base 66 upward without moving an operator for carrying out separation of root vegetables, walking while following to the rear side of a machine body, from separation maximum position to the traverse direction of the machine body 1 and stretching hands of the operator beyond the limit when housing a root vegetable K fed out from final end of conveyance of a separation conveyer A4 into a container 48.

SOLUTION: The subject root crop harvester pulls out a root vegetable K from a field during traveling of a traveling machine body 1 and conveys the root vegetable K on the upper side of the machine body 1 and cuts the leaf part of the root

vegetable K and operates the separation conveyer 4A at a rear part of the machine body so as to feed the root part K2 of the root vegetable obtained by the cutting into the container 48 placed on a container-receiving base 66 swingably installed around a longitudinal shaft 65 at a side part of the machine body.In the root crop harvester, a receiving base operation lever 79 constituted so as to swing the container-receiving base 66 around the longitudinal shaft 65 is installed so as to enable swinging operation by the operator walking while following the rear side of the separating conveyer 4A.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

MORIKAWA KIYOHIRO

TERAMOTO SEIJI

TAKAHASHI SHINICHI

NARAMURA HIRONORI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

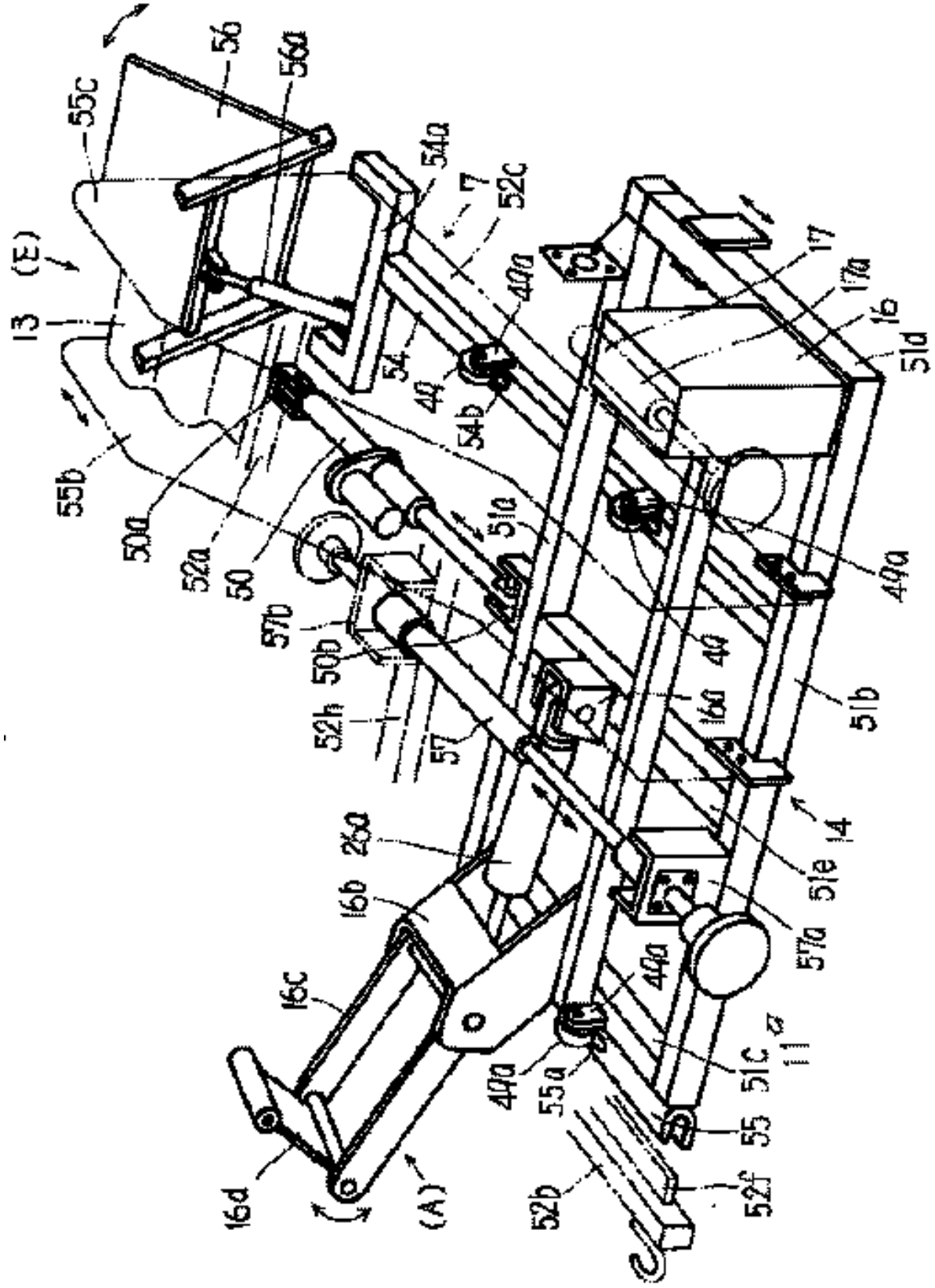
Family 326/667 - FAMPAT - ©Questel

Title

(JP2002078409)

Harvester

Images



Publication data including kind & date

JP2002078409 A 2002-03-19 JP2002078409

Abstract

(JP2002078409)

PROBLEM TO BE SOLVED: To keep a balance when many boxes filled with carrots are loaded on one side of a traveling vehicle.SOLUTION: This harvester has a digging part (A), a conveying part, a cutting part, a waste leaf-discharging part, a conveying part (E) for conveying the harvest, and a carrying platform part for carrying the storing boxes for storing the harvests in order from the front part for harvesting the crop bodies (carrots), installed in one side of the traveling vehicle 2, so that they may be freely integrally moved based on the traveling vehicle 2 by a moving device 11.The moving device 11 has a moving roller 49 installed in a moving frame 14, and a moving means 50 for moving the moving frame 14 in the right

and left direction.

Inventors

KAWAGUCHI HIROMICHI

YANO NORIHIRO

TAKAGI SHINGO

IWABE TAKAAKI

KITTE HAJIME

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

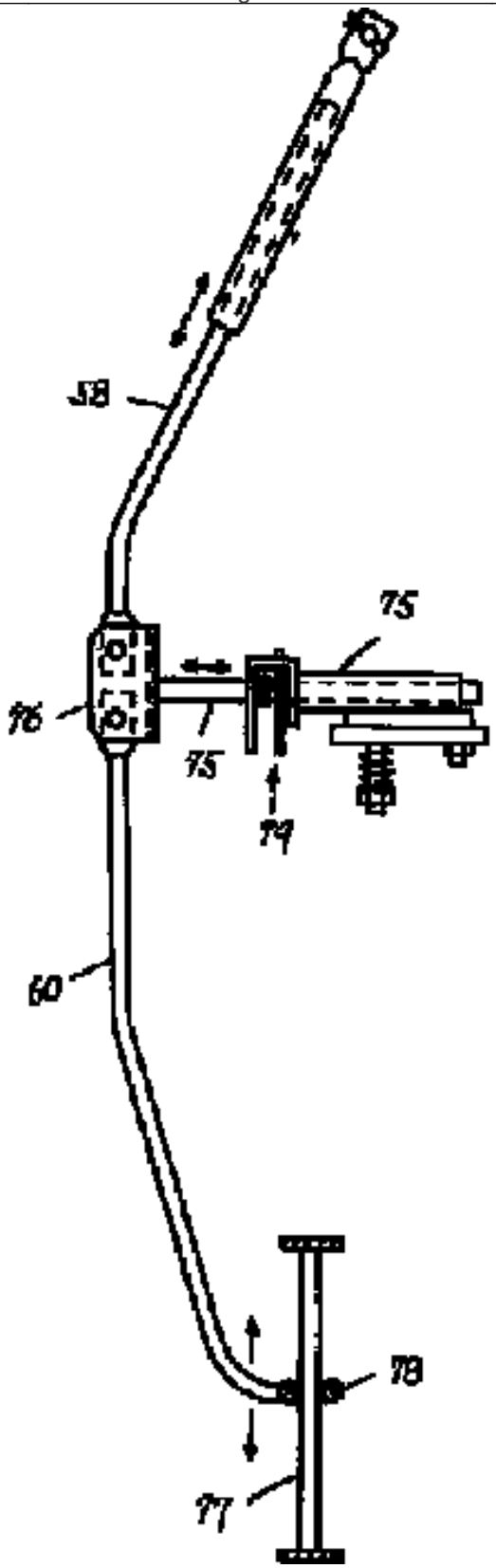
Family 327/667 - FAMPAT - ©Questel

Title

(JP09215428)

Dividing device of combine harvester

Images



Publication data including kind & date

JPH09215428	A	1997-08-19	JP09215428
JP3083489	B2	2000-09-04	JP3083489

Abstract

(JP3083489)

PROBLEM TO BE SOLVED: To prevent a side divider of the combine harvester from deforming and breaking by interfering with a levee.SOLUTION: The combine which has side dividers 58 and 60 extended from the front left side of a mower part to the rear left part of a threshing machine body is provided with an arm 75 which supports the intermediate part between the side dividers 58 and 60 on the threshing machine body, and the quantity of outward projection of the side dividers 58 and 60 from the machine and their up/down position are varied by expanding and contracting, and swinging the arm 75 up

and down.

Inventors

OKAZAKI MASAHARU

YABUKI MAKOTO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

Family 328/667 - FAMPAT - ©Questel

Title

(WO201245227)

High speed combined harvesting and planting management machine

Images

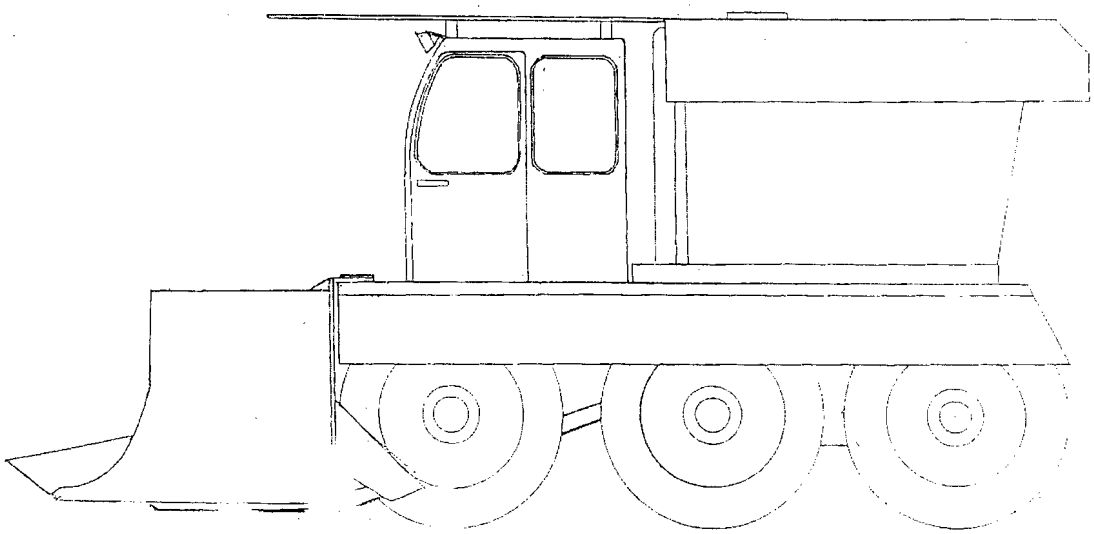


图 1 / **Fig.** 1

Publication data including kind & date

CN102027833	A	2011-04-27	CN102027833
WO2012045227	A1	2012-04-12	WO201245227
CN103384467	A	2013-11-06	CN103384467
CN103384467	B	2017-11-03	CN103384467B

Abstract

(WO201245227)

A fuel-saving high-speed combined harvesting and planting management machine comprises a whole frame chassis device, a three-axle hydraulic walking device, a hydraulic steering device, a braking device, a diesel engine device, a hydraulic system, a cab (5), an instrument monitoring device, an electrical system, an air conditioning system, a harvesting and threshing device, a cleaning and blowing device, a grain storing and conveying device, an atomizing and fire-fighting device, a dozer blade device, and a hydraulic device for rotary tillage, water-injection, precision seeding and fertilizing.The combined harvesting and planting management machine can complete a variety of tasks including plough harrow cultivating, land leveling, groove ditching and ridging, fertilizing and seeding, atomizing and plant protecting, pesticide spraying and disease preventing, foliar feeding, town and country fire-fighting, producing and transporting processes,

combined harvesting, etc..The machine achieves the effects of high speed, low power consumption, fuel-saving environmental-protection, and combined harvesting, and reforms the traditional farmland task process.

Inventors

CAO ANBAI

CAO KEYI

CAO KEYU

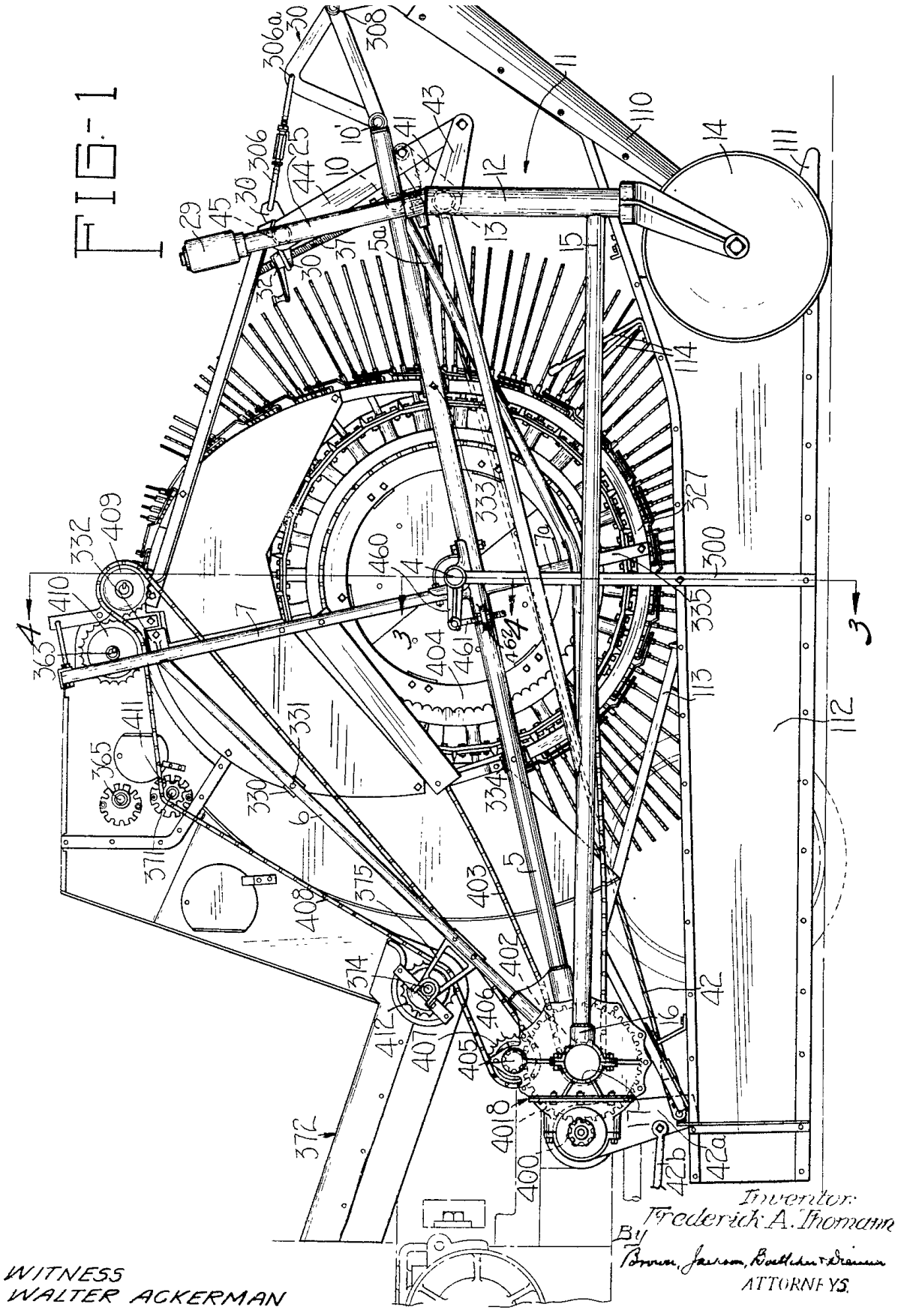
Family 329/667 - FAMPAT - ©Questel

Title

(US1933881)

Cotton harvester

Images



Publication data including kind & date

US1933881 A 1933-11-07 US1933881

Inventors

THOMANN FREDERICK A

Latest standardized assignees - inventors removed

DEERE

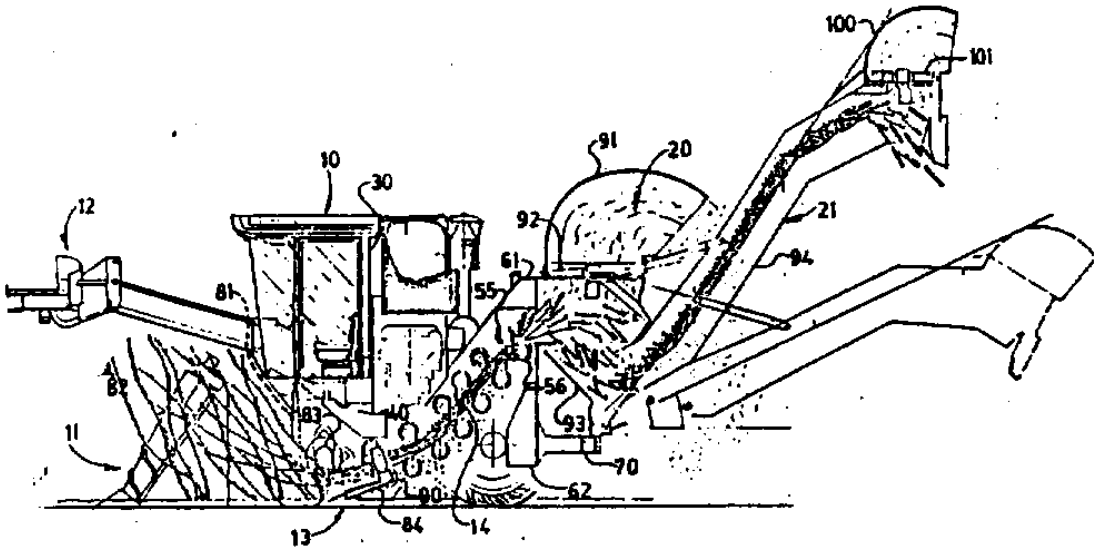
Family 330/667 - FAMPAT - ©Questel

Title

(DE3529231)

Sugar-cane harvester

Images



FIGUR 1

Publication data including kind & date

DE3529231	A1	1986-04-17	DE3529231
BR8503854	A	1986-05-27	BR8503854

Abstract

(DE3529231)

The present invention relates to a sugar-cane harvester with two oppositely arranged frame parts (22, 23) according to the invention, there being provided between these frame parts (22, 23) fluid reservoirs (40; 61, 62) which transmit substantial proportions of the structural load exerted on the harvester (10). <IMAGE>

Inventors

BAKER MALCOLM JOHN

WILLIAMS JOHN GARVEY

STIFF RODNEY ALLEN

HOYLE JAMES WILSON

LESTER LESLIE JOHN

Latest standardized assignees - inventors removed

VERSATILE TOFT

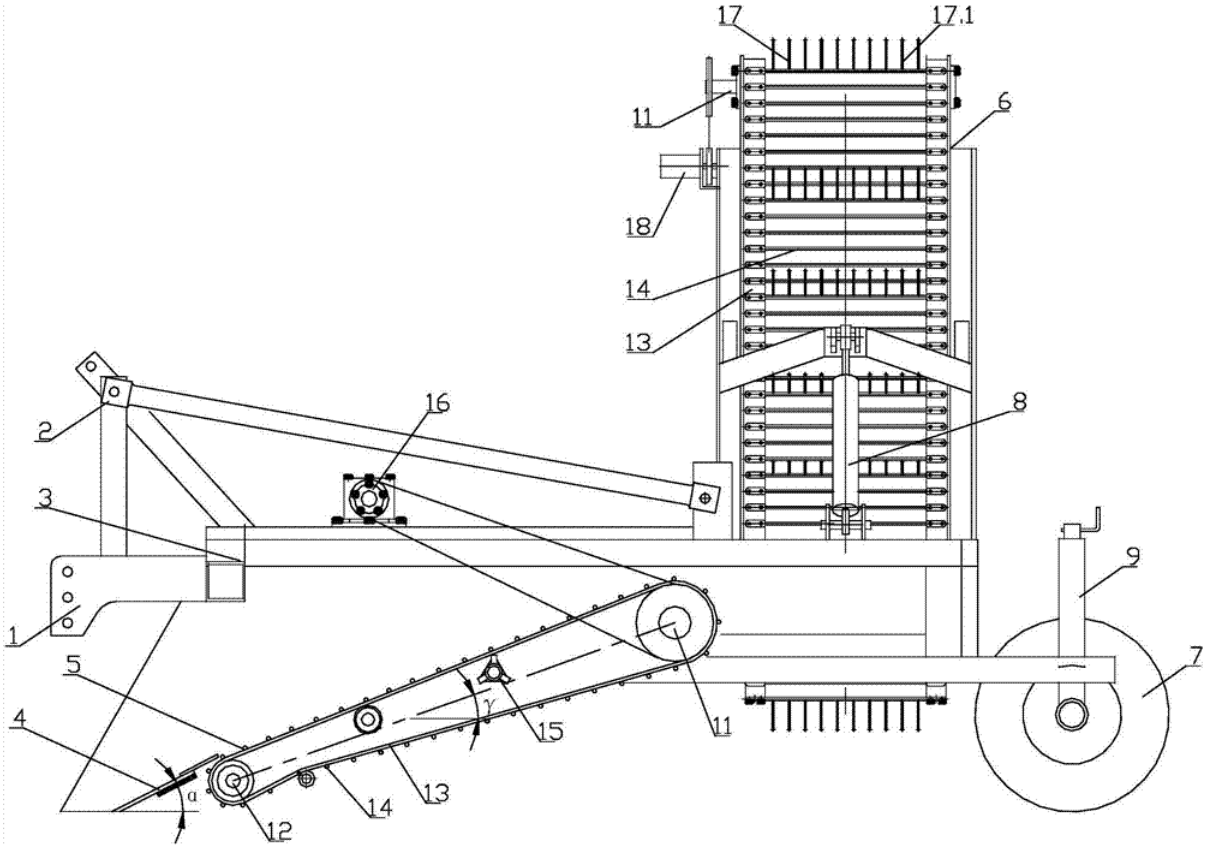
Family 331/667 - FAMPAT - ©Questel

Title

(CN206909139U)

Piece root crop harvester

Images



Publication data including kind & date

CN206909139 U 2018-01-23 CN206909139U

Abstract

(CN206909139U)

The utility model discloses a piece root crop harvester, it includes traction frame, mounted frame, main frame, digger blade, excavation conveying mechanism and elevating mechanism.The advantage: 1,can once accomplish excavation, transport, promotion, loading work, the operation continuity is good, has reduced the past and has followed the process that machinery was picked up at the back by themanual work, ensures the root tuber and puts in storage rapidly, avoids the root tuber wilting of exposing to the weather for a long time, desiccate, greatly reduced the root tuber quality, 2, easy and middle -size and small -size tractor is supporting, is fit for china's national conditions at present to its simple structure uses and maintains the convenience, and the field is used in a flexibleway changeable, can adapt to more abominable orographic condition, does not occupy power when idle, and it is also more convenient to transport, 3, separable clearance bonds at the surperficial soil block of root tuber, and the root tuber cleanliness factor of results is high.

Inventors

LU ZHANYUAN
CHENG YUCHEN
YANG SHAONAN
ZHANG DEJIAN
YE XUESONG
WANG JIANGUO
ZHANG XIANGQIAN
YANG BIN
GUO XIAOXIA
ZHANG JIANZHONG
XIAN FENG
CHEN LIYU
WANG YUFEN
ZHANG HELIANG

ZHI YINGBIAO

ZHANG FURONG

Latest standardized assignees - inventors removed

INNER MONGOLIA ACADEMY OF AGRICULTURAL & ANIMAL HUSBANDRY SCIENCES

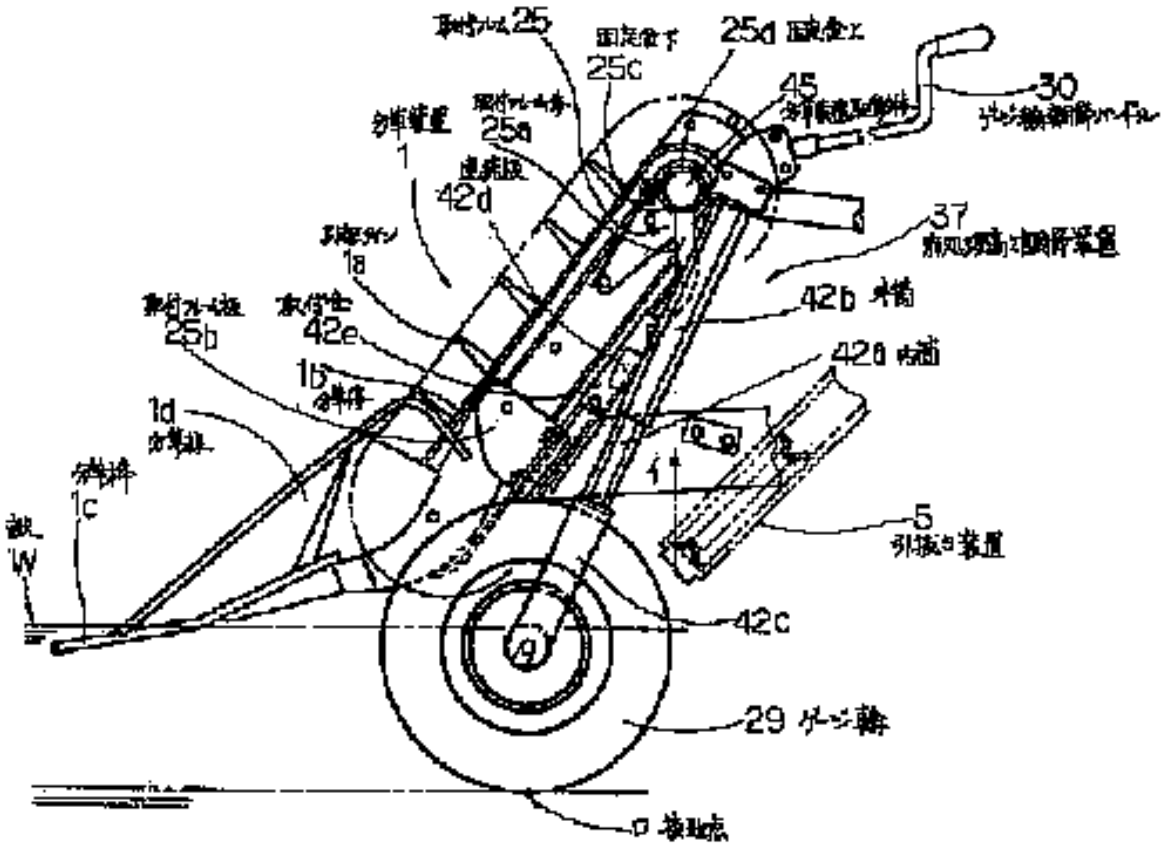
Family 332/667 - FAMPAT - ©Questel

Title

(JP11299327)

Height-controlling apparatus for pretreating part of harvester

Images



Publication data including kind & date

JPH11299327 A 1999-11-02 JP11299327

Abstract

(JP11299327)

PROBLEM TO BE SOLVED: To provide a harvester for grains or rhizomes having a construction to enable the smooth work by devising the relative position of a height-controlling apparatus of a pretreating part, a grass-dividing apparatus and a pulling apparatus in contrast with conventional harvester having indefinite relative position between a gauge wheel and a grass-dividing apparatus to scoop, divide and arrange the leaf and stalk of a harvested crop and generally provided with the wheel and the dividing apparatus in consideration of only the operability for the vertical adjustment and, accordingly, sometimes causing the work trouble by the treading of the gauge wheel on the leaf and stalk to be scooped with the grass-dividing apparatus or the change of the ground height of the pulling apparatus by the adjustment of the vertical position of the grass- dividing apparatus.SOLUTION: A height-adjusting apparatus of a pretreating part is offset at a position retracted from the work-starting position of a raising tine of a grass-dividing apparatus or of an endless belt having protrusions, the outer cylinder of the height-adjusting apparatus is connected to the grass-dividing apparatus and the connecting position is set in consideration with the vertical position relative to the work starting position of the pulling apparatus.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUDA YUKIHIRO
WATANABE AKITO
IRIE NOBUYUKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

Family 333/667 - FAMPAT - ©Questel

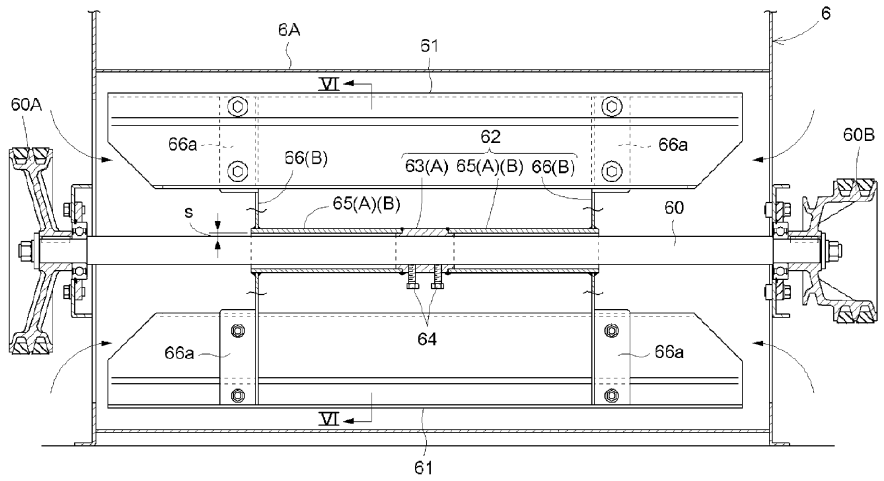
Title

(WO2009144990)

Threshing apparatus

Images

[図5]



Publication data including kind & date

WO2009144990	A1	2009-12-03	WO2009144990
IN4251/CHENP/2009	A	2009-12-04	IN2009CN04251
JP2009284801	A	2009-12-10	JP2009284801
JP2009284800	A	2009-12-10	JP2009284800
CN101686639	A	2010-03-31	CN101686639
CN101686639	B	2012-02-08	CN101686639B
JP5341396	B2	2013-11-13	JP5341396
JP5503116	B2	2014-05-28	JP5503116

Abstract

(WO2009144990)
Disclosed is a threshing apparatus (4) such that even when twisting or bending occurs in the rotating shaft (60) that transmits motive force to a winnowing fan (6) that blows a winnowing air flow, the action of external force due to the twisting or bending at connection sites with blades (61) is minimized, and a reduction of the overall weight is made possible.The winnowing fan (6) is provided with a rotating shaft (60) to which is input motive force from the motor, blades (61) that are positioned at a distance from the rotating shaft in the radial direction, and a blade support mechanism (62) that connects the rotating shaft with the blades and transmits rotational motive force.For the blade support mechanism (62), the connection between the rotating shaft and a blade is provided at only one location in the axial direction of the rotating shaft (60).

Inventors

BUNNO YUICHI
ASAKURA SADAO
SEGAWA TAKUJI
FUKAI HIROSHI
OGATA HIROSHI
AZUMA TAIICHIROU

Latest standardized assignees - inventors removed

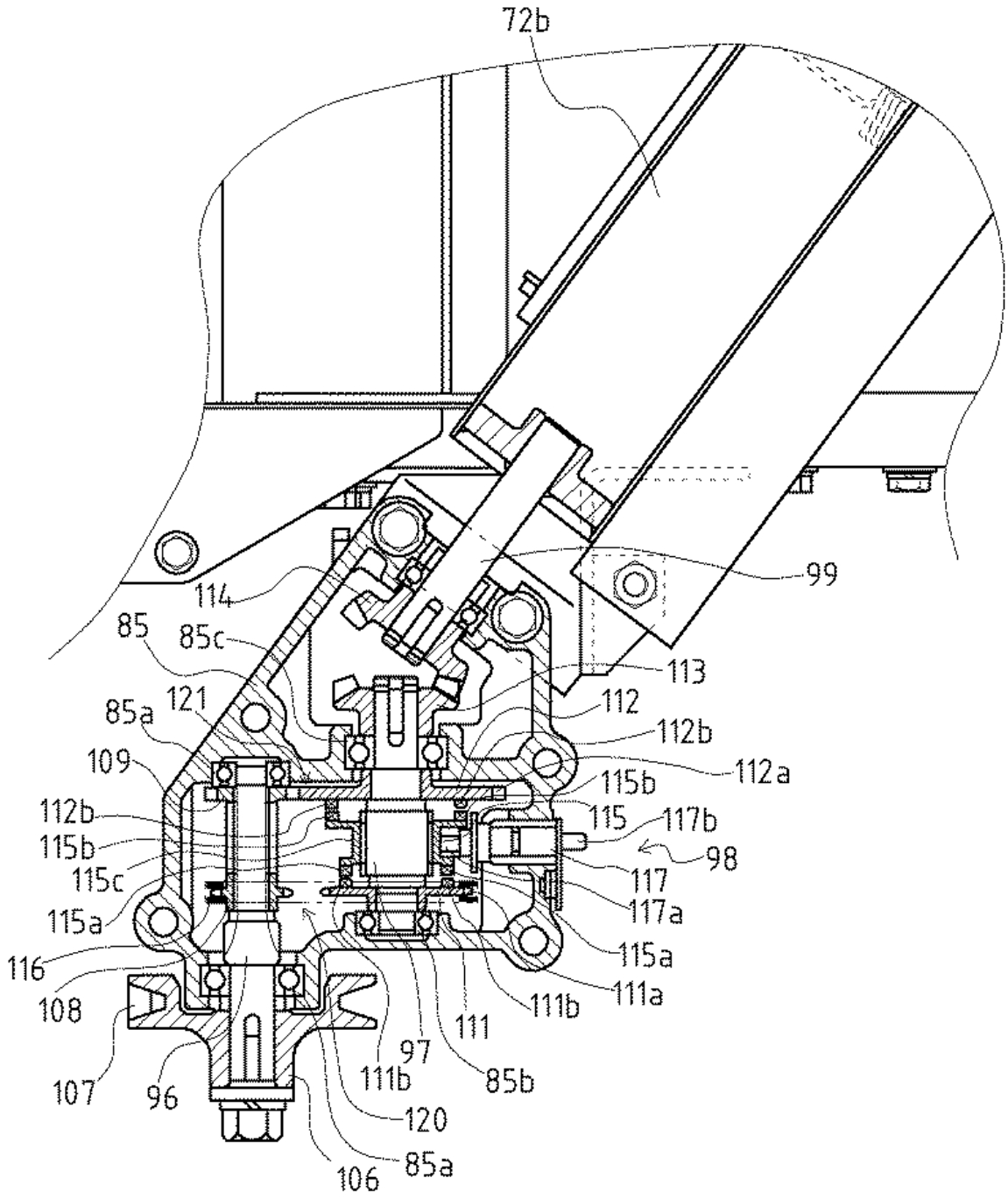
KUBOTA

Family 334/667 - FAMPAT - ©Questel

Title

(JP2008061502)
Root vegetable harvester

Images



Publication data including kind & date

JP2008061502 A 2008-03-21 JP2008061502

Abstract

(JP2008061502)

PROBLEM TO BE SOLVED: To provide a root vegetable harvester solving a problem that when root parts of root vegetables are transversely fed to a selection conveyor side on a lower conveyor, the tip part of a root vegetable such as a tapered carrot is nipped in a gap between a transversely feeding roller (oblique roller) and the lower conveyor, so-called an insertion occurs and the root part is damaged.

SOLUTION: The root vegetable harvester is disposed with a treatment apparatus (72), which treats remaining root vegetable leaves after cutting leaf parts, and includes a flat belt (72a) and the oblique roller (72b), at the rear lower part of a pulling out and conveying apparatus (8), wherein a drive gear case (85) is arranged at one side in the shaft center direction of the oblique roller (72b), and a forward and reverse rotation change-over apparatus (98) is arranged in the drive gear case (85) so that the oblique roller (72b) is forwardly and reversely rotated.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

MORIKAWA KIYOHIRO

UEDA MINORU

SUGIMURA YASUO

Latest standardized assignees - inventors removed

YANMAR

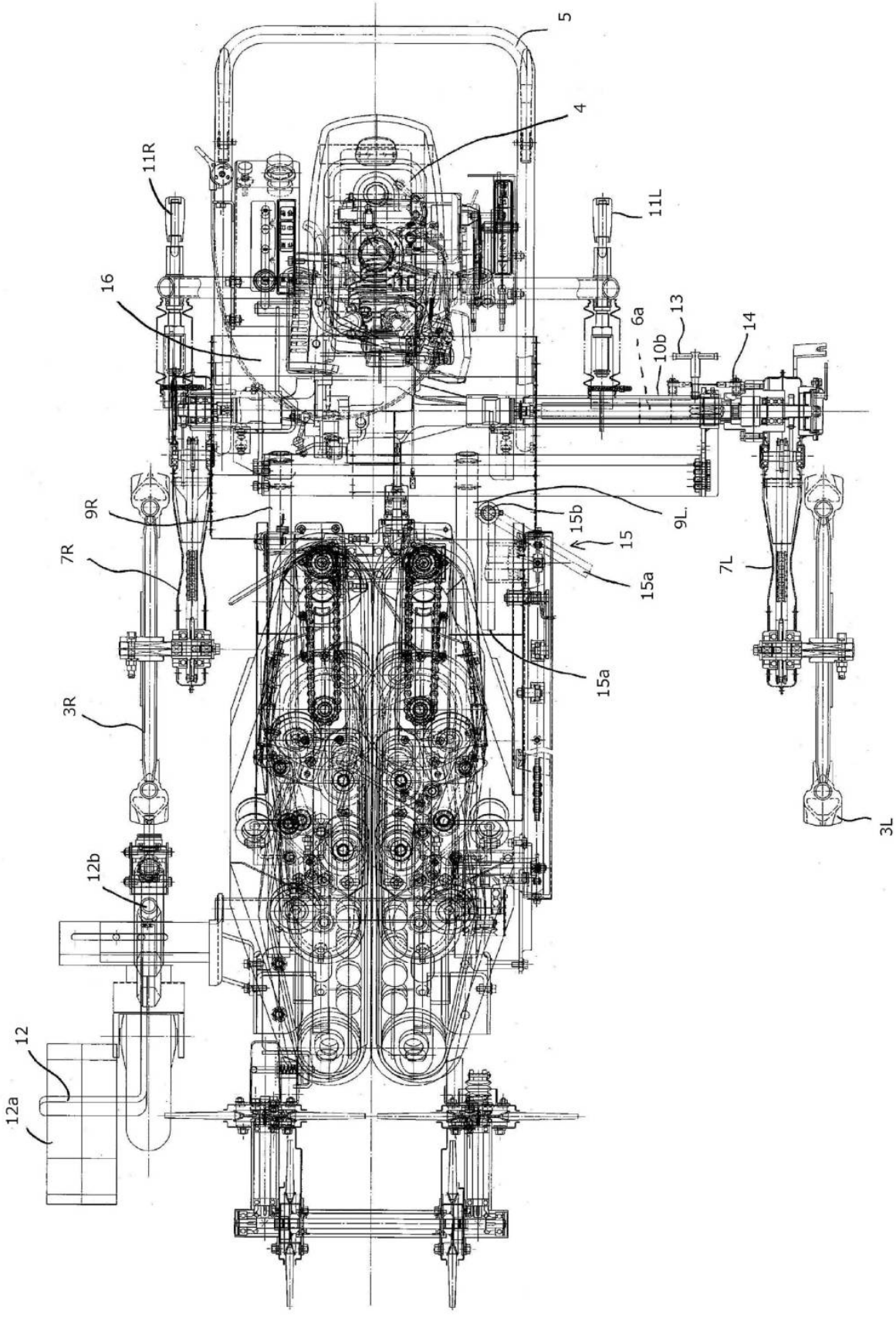
Family 335/667 - FAMPAT - ©Questel

Title

(JP2018033328)

Vegetable harvester

Images



Publication data including kind & date

JP2018033328 A 2018-03-08 JP2018033328

Abstract

(JP2018033328)

PROBLEM TO BE SOLVED: To change a tread width of a vegetable harvester safely in simple constitution.SOLUTION: In a vegetable harvester, a pull-up mechanism 100 and a pull-out conveyance device 200 are arranged in main frames 9L, 9R including right/left travel wheels 3L, 3R, a foliage cut device 400 is arranged in the pull-out conveyance device 200, and a

foliage discharge member 290 discharging a foliage portion cut by the foliage cut device 400 to a side of a machine body is arranged.A tread width of left and right travel wheels 3L, 3R can be changed by expanding/contracting an output shaft 6a to the travel wheel 3L on an opposite side to the foliage portion discharge direction of the foliage discharge member 290.A temporary support member 15 supporting the travel wheel 3L moving laterally in a floating state is arranged.The temporary support member 15 is brought into a storage state by lifting a ground contact part 15a with respect to an output shaft 6a of the right/left travel wheels 3L, 3R.SELECTED DRAWING: Figure 9

Inventors

Masami Muramachi
TAKAGI SHINGO
Hideaki Kurose
NINOMIYA KOJI

Latest standardized assignees - inventors removed

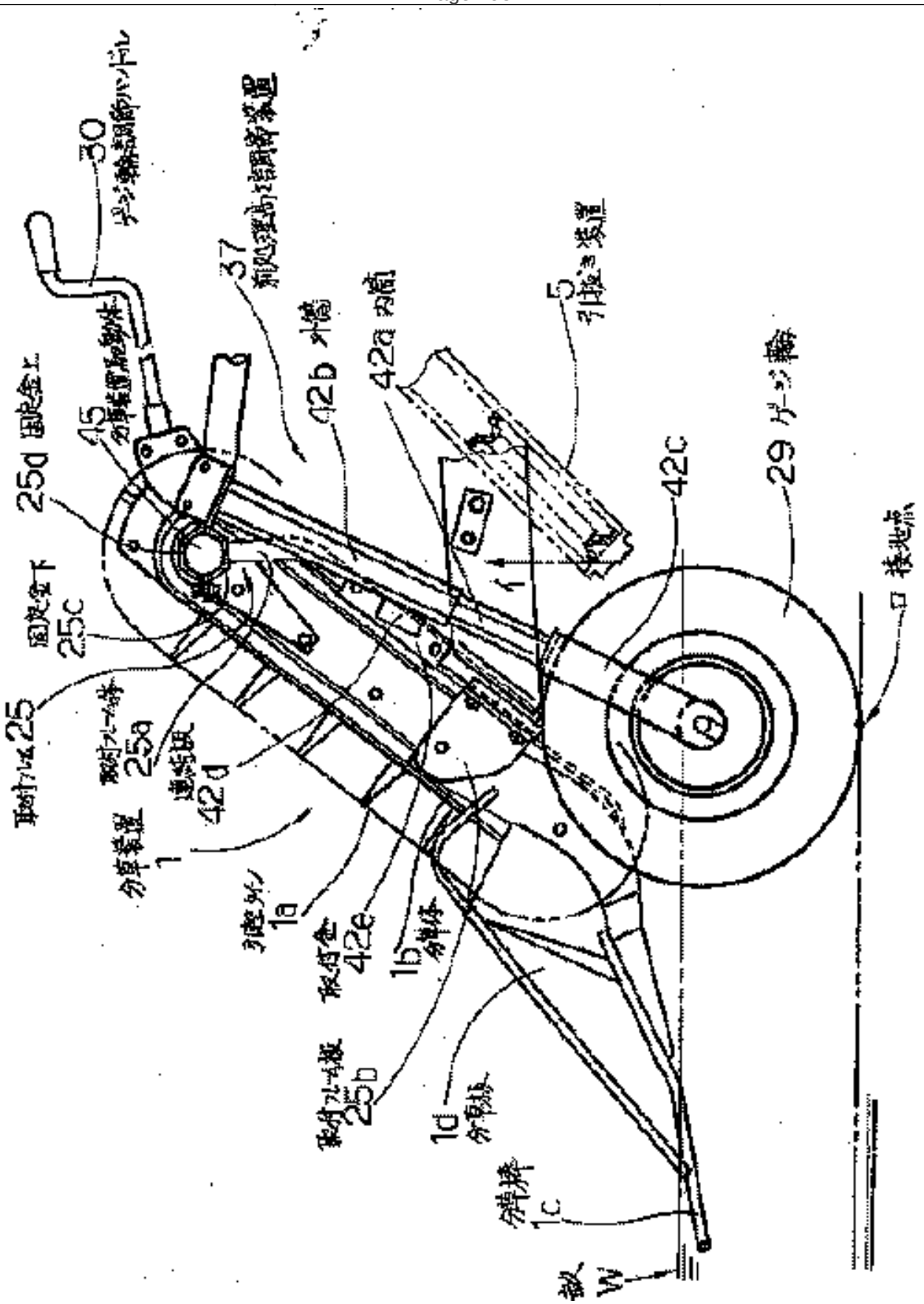
ISEKI

Family 336/667 - FAMPAT - ©Questel

Title

(JP2001178228)
Height-adjusting device in pre-treating part of harvester

Images



Publication data including kind & date

JP2001178228 A 2001-07-03 JP2001178228

Abstract

(JP2001178228)

PROBLEM TO BE SOLVED: To solve the generation of inconvenience on working such that stems and leaves part which is to be raised by a weed-separating device 1, is stepped on by a gauge body in a harvester constituted as traveling the machine body along a ridge W, raking and raising the stems and leaves of root vegetables planted on the ridge with the pre-treating parts such as the weed-separating device 1, etc., mounted on the front part of the machine body and equipped with an adjusting device for adjusting the height of the pre-treating parts such as the weed-separating device, etc.SOLUTION: This height-adjusting device of the pre-treating part of the harvester is constituted by linking an outer

cylinder 42b of a supporting cylinder 42 constituted as capable of freely elongating and contracting by insertion and coupling of an inner cylinder 42a with the outer cylinder 42b, and a mounting frame 25 fixed at the weed-separating device 1 with a linking plate 42d, and putting the point of a gauge ring 29 pivoted at the tip end side of the inner cylinder 42a of the supporting cylinder 42, for making a contact with the ground as further rear from the beginning end position for working of the weed-separating device.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUDA YUKIHIRO
WATANABE AKITO
IRIE NOBUYUKI

Latest standardized assignees - inventors removed

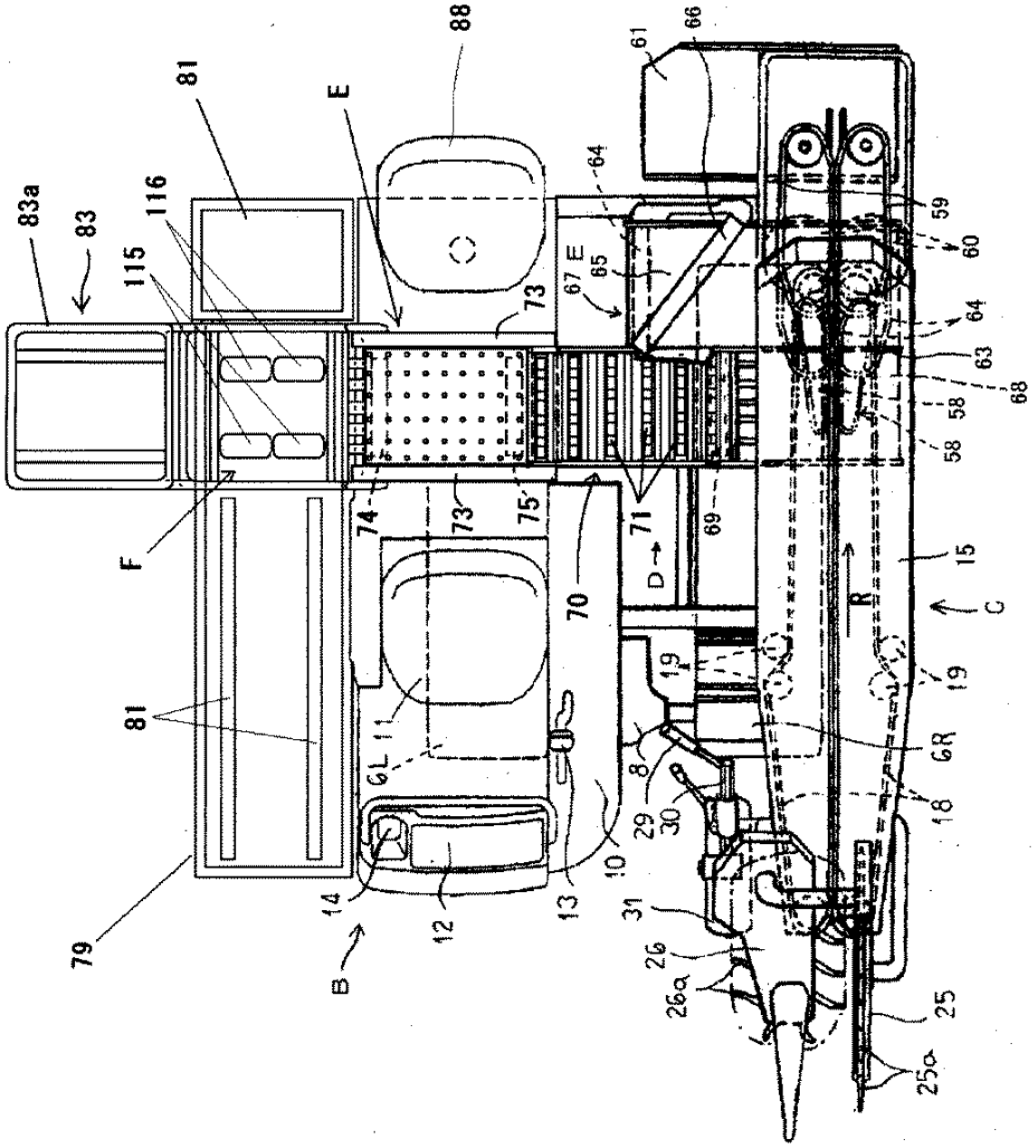
SEIREI INDUSTRY

Family 337/667 - FAMPAT - ©Questel

Title

(JP2013074816)
Self propelled root vegetable harvester

Images



Publication data including kind & date

JP2013074816 A 2013-04-25 JP2013074816

Abstract

(JP2013074816)

PROBLEM TO BE SOLVED: To provide a root vegetable harvester having good operation controllability and capable of being easily housed in a barn by bringing the lateral width of a machine body to be narrow and the longitudinal length of the machine body to be short.SOLUTION: The root vegetable harvester is constituted by installing a harvesting part C, that nips the foliage part of planted crop, pulls up the same and sends the same upward, on either one of the left or the right side of the machine body, almost horizontally installing a transfer carrying part D which transversely carries the crop harvested at the harvesting part C and a selection carrying part E which receives the crop from the transfer carrying part D for a selection operator to carry out a selection operation of the crop during carriage, placing a housing part F which loads a container K receiving the selected crop at the end of the selection carriage part E on the opposite side to the harvesting part C of the machine body, and keeping a container housing stand 79 arranged ahead of the housing part F.

Inventors

Masami Muramachi

Shingo Takagi

Takanori Iwabe

Hideaki Kurose

YUMITATSU TAKESHI

Latest standardized assignees - inventors removed

ISEKI

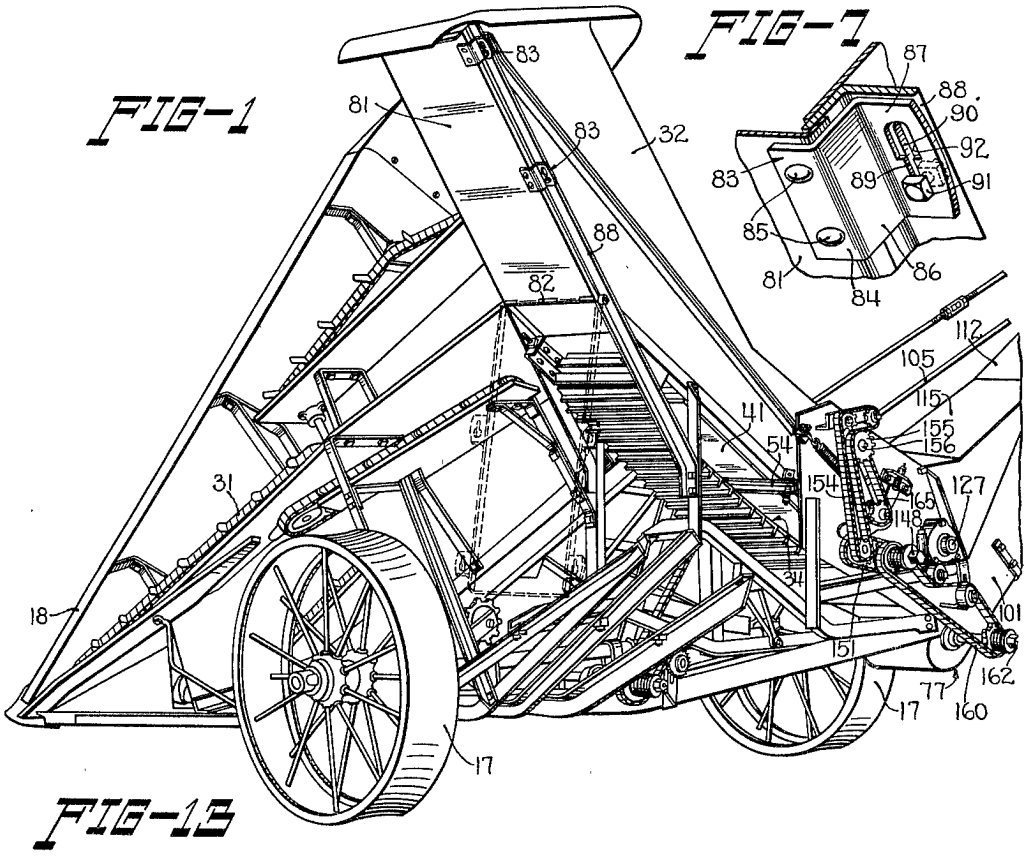
Family 338/667 - FAMPAT - ©Questel

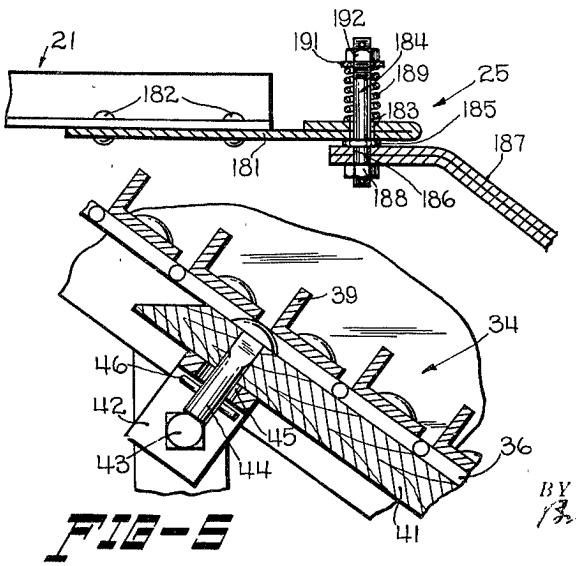
Title

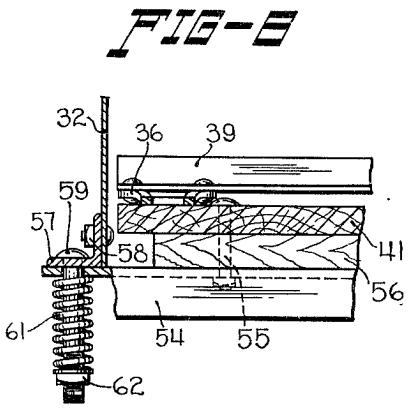
(US2111323)

Ensilage harvester

Images







INVENTOR
Ellsworth J. Johnson,
BY
Brown, Jackson, Boettcher & Dienner.
ATTORNEYS.

Publication data including kind & date

US2111323 A 1938-03-15 US2111323

Inventors

JOHNSON ELLSWORTH T

Latest standardized assignees - inventors removed

DEERE

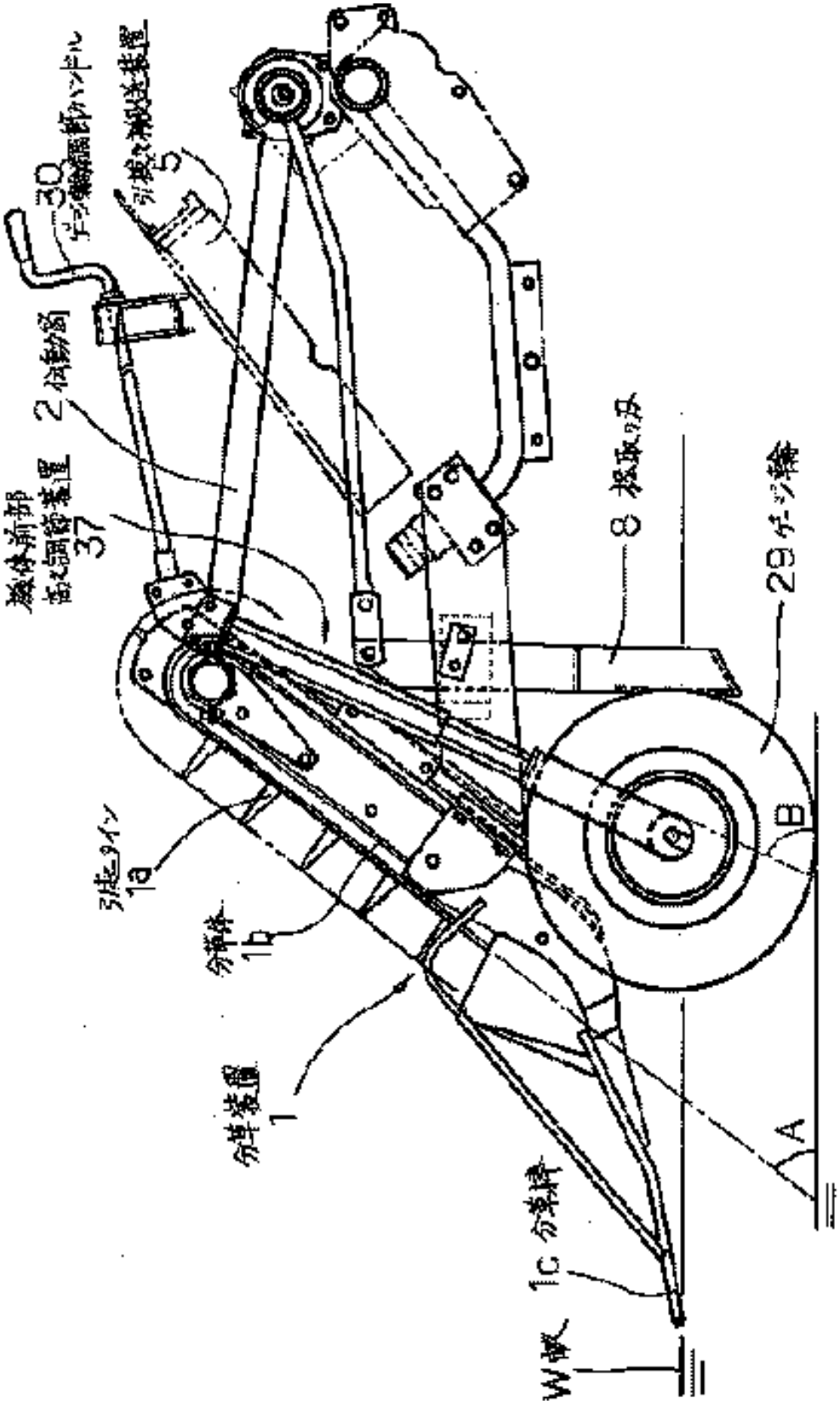
Family 339/667 - FAMPAT - ©Questel

Title

(JP2001178230)

Height-adjusting device for front part of machine frame in harvester

Images



Publication data including kind & date

JP2001178230 A 2001-07-03 JP2001178230

Abstract

(JP2001178230)

PROBLEM TO BE SOLVED: To solve the generation of inconvenience on working such that stems and leaves part which is to be raised by a weed-separating device 1, is stepped on by a gauge ring 29 in a harvester constituted as traveling the machine body along a ridge W, raking and raising the stems and leaves of root vegetables such as onions planted on the ridge with the weed-separating device 1, etc., mounted on the front part of the machine body and equipped with the gauge ring 29 for keeping the front part of the machine frame at a suitable height by displacing it upward and downward against the machine frame.SOLUTION: This height-adjusting device for the front part of the harvester is provided by retreating the point of the gauge ring 29 making a contact with the ground as further rear from the beginning end position for working of the weed-separating device 1.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUDA YUKIHIRO
WATANABE AKITO
IRIE NOBUYUKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

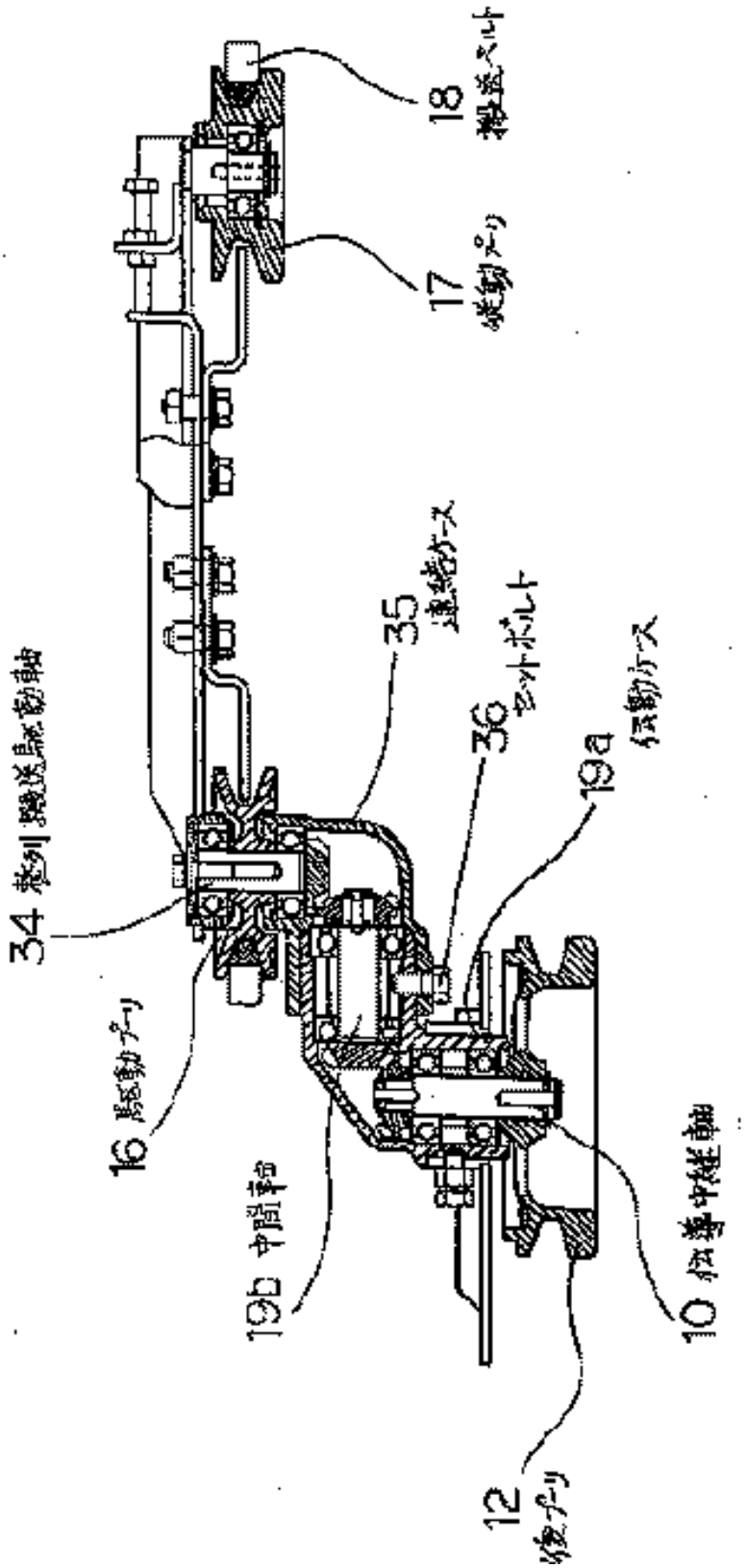
Family 340/667 - FAMPAT - ©Questel

Title

(JP2001178229)

Root vegetable harvester

Images



Publication data including kind & date

JP2001178229 A 2001-07-03 JP2001178229

Abstract

(JP2001178229)

PROBLEM TO BE SOLVED: To provide a root vegetable harvester so designed that the terminal end side of a lower carrier (9) for nipping the lower portion of the stems/leaves of a root vegetable crop pulled off a ridge and carrying the crop backward is collocated via a transmission mechanism with an aligning carrier (15) for releasing crop in a sideways fallen posture onto a ridge so as to simplify both the mount structure and the drive structure of the aligning carrier (15).SOLUTION: This root vegetable harvester has such a scheme that a junction case (35) projected on an aligning carrier (15) is fixedly set on a transmission case (19a) projected from the terminal end of a lower carrier (9), and the aligning

carrier (15) is collocated on the terminal end side of the lower carrier (9); and among a pair of left and right lower carriers (9a), (9b) representing the lower carrier (9), a transmission relay shaft (10) axially set with the rear pulley (12) of one of the lower carriers (9b), an intermediate shaft (19b) and a drive shaft (34) axially set with the drive pulley (16) of the conveyor belt (18) of the aligning carrier (15), and the bevel gear mutually connecting the above respective shafts (10), (19b), (34) are put into the transmission case (19a) and the junction case (35), respectively.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUDA YUKIHIRO
WATANABE AKITO
IRIE NOBUYUKI

Latest standardized assignees - inventors removed

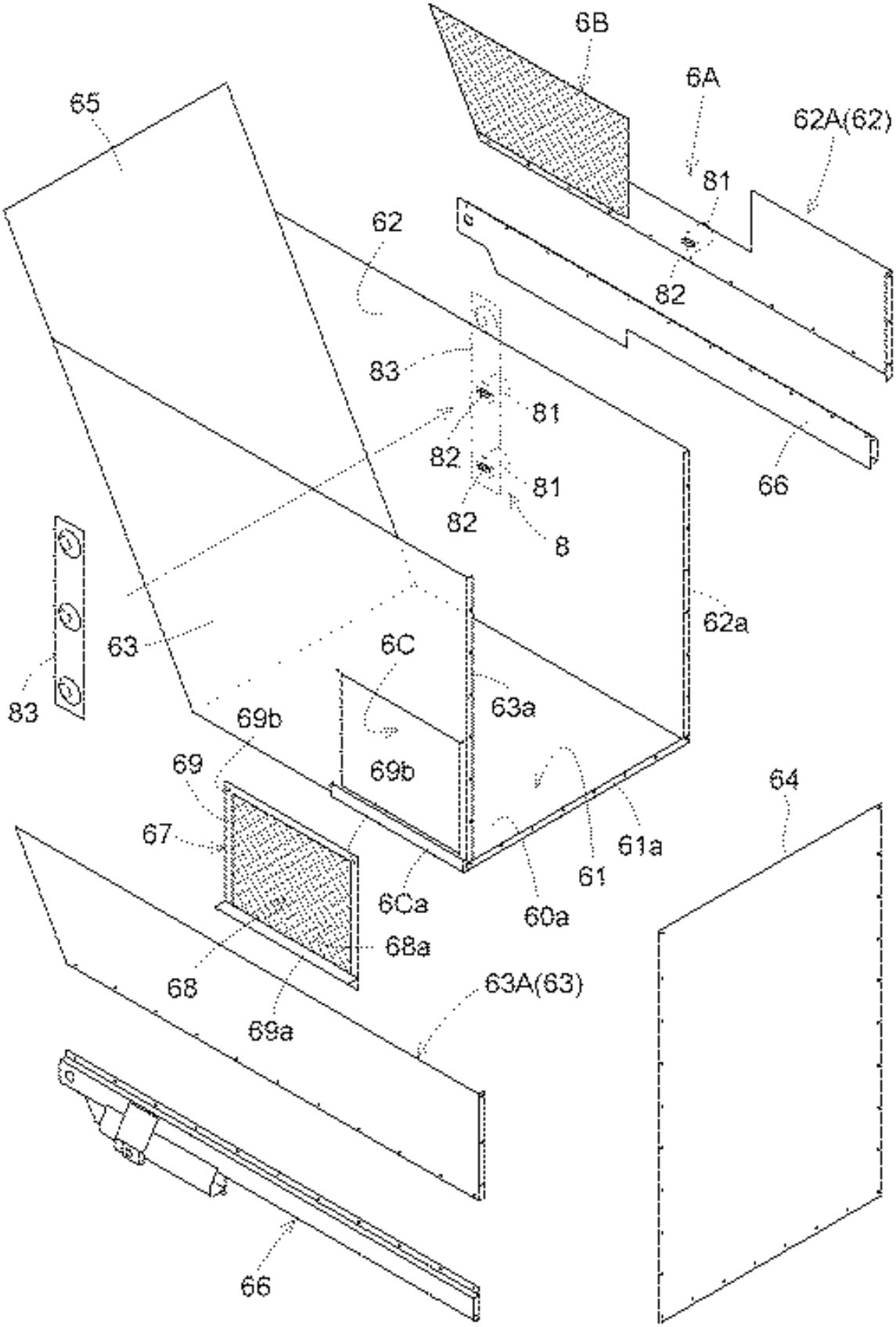
SEIREI INDUSTRY

Family 341/667 - FAMPAT - ©Questel

Title

(JP2015000028)
Corn harvester

Images



Publication data including kind & date

JP2015000028 A 2015-01-05 JP2015000028

Abstract

(JP2015000028)

PROBLEM TO BE SOLVED: To provide a corn harvester that can confirm the storage condition of corn crops in a storage tank with a simple structure.SOLUTION: A corn harvester has a harvesting part that harvests a harvest, a feeder that conveys the harvest backward, and a storage tank which can store the harvest discharged from the conveyance end of the feeder.In the lower part of the outer peripheral wall surface of the storage tank, an access door 6C and a lid body 67 which

can open/close the access door 6C are provided.

Inventors

FUKUOKA YOSHITAKE

Latest standardized assignees - inventors removed

KUBOTA

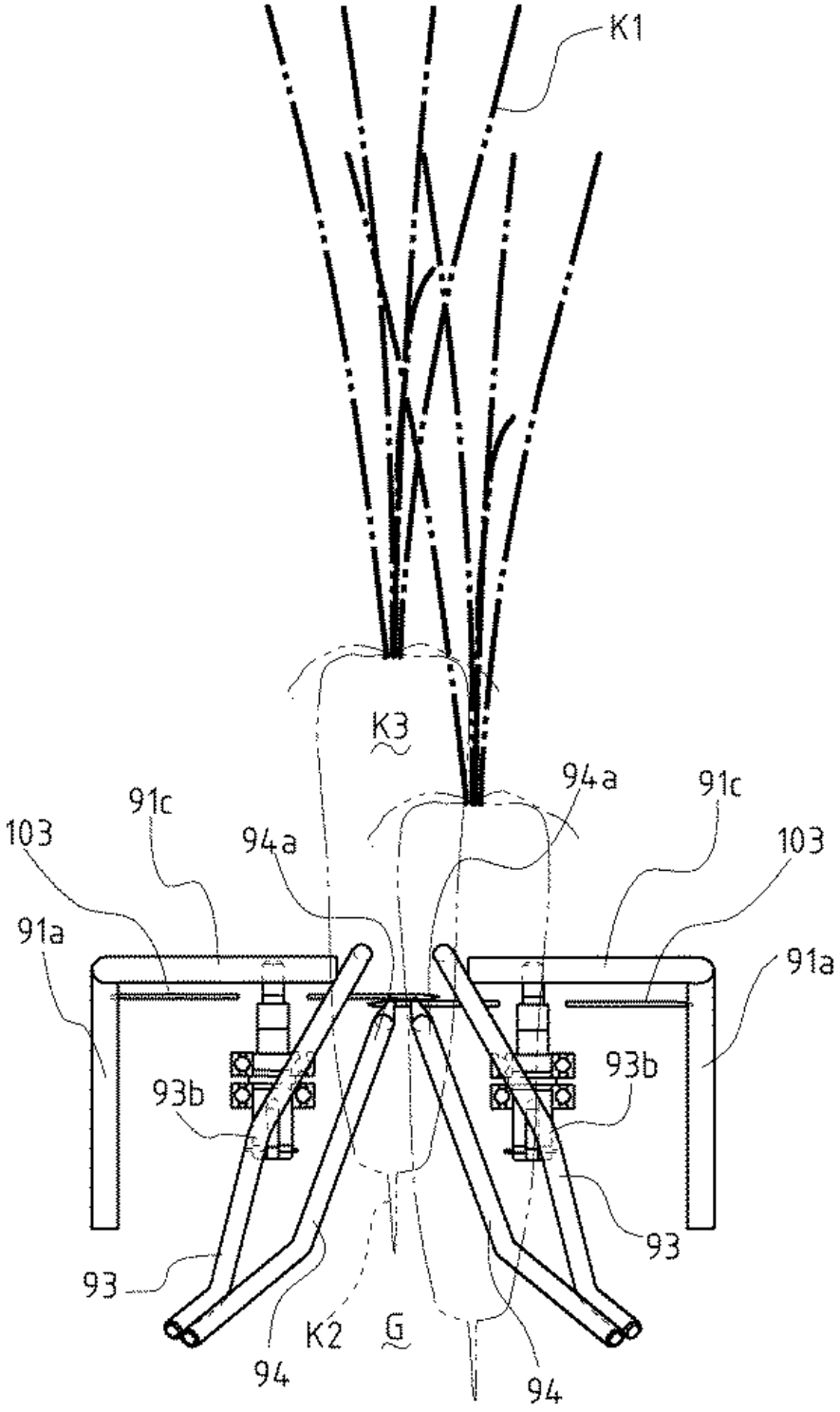
Family 342/667 - FAMPAT - ©Questel

Title

(JP2007330176)

Root-cutting off guide for root vegetable harvester

Images



Publication data including kind & date

JP2007330176	A	2007-12-27	JP2007330176
JP4728175	B2	2011-07-20	JP4728175

Abstract

(JP4728175)

PROBLEM TO BE SOLVED: To solve the problem that, when root vegetables are to be guided centrally by butting them on the guiding guard (root-cutting off guide) of a root cutter, in the case of a conventional root-cutting off guide constituted of plate form, mud/soil or the like is stuck onto the guide to effect soil's closing grooves for guiding the right and left tails of root vegetables, possibly resulting in the root vegetables' coming off the guide.

SOLUTION: The root-cutting off guide (71) for a root vegetable harvester has the following construction and mechanism: A root cutter (10) is disposed below a lower part during conveying root vegetables by a pulling and conveying apparatus (8) to guide root vegetables' roots (K2) to the transverse center of the root cutter (10).In this guide (71), a pair of right and left rod-like forms are disposed in a V-shaped manner when viewed from the front, and another pair of right and left rod-like forms are projected inclinedly upward from the lower part of the above pair of right and left rod-like forms.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

MORIKAWA KIYOHIRO

SUGIMURA YASUO

Latest standardized assignees - inventors removed

YANMAR

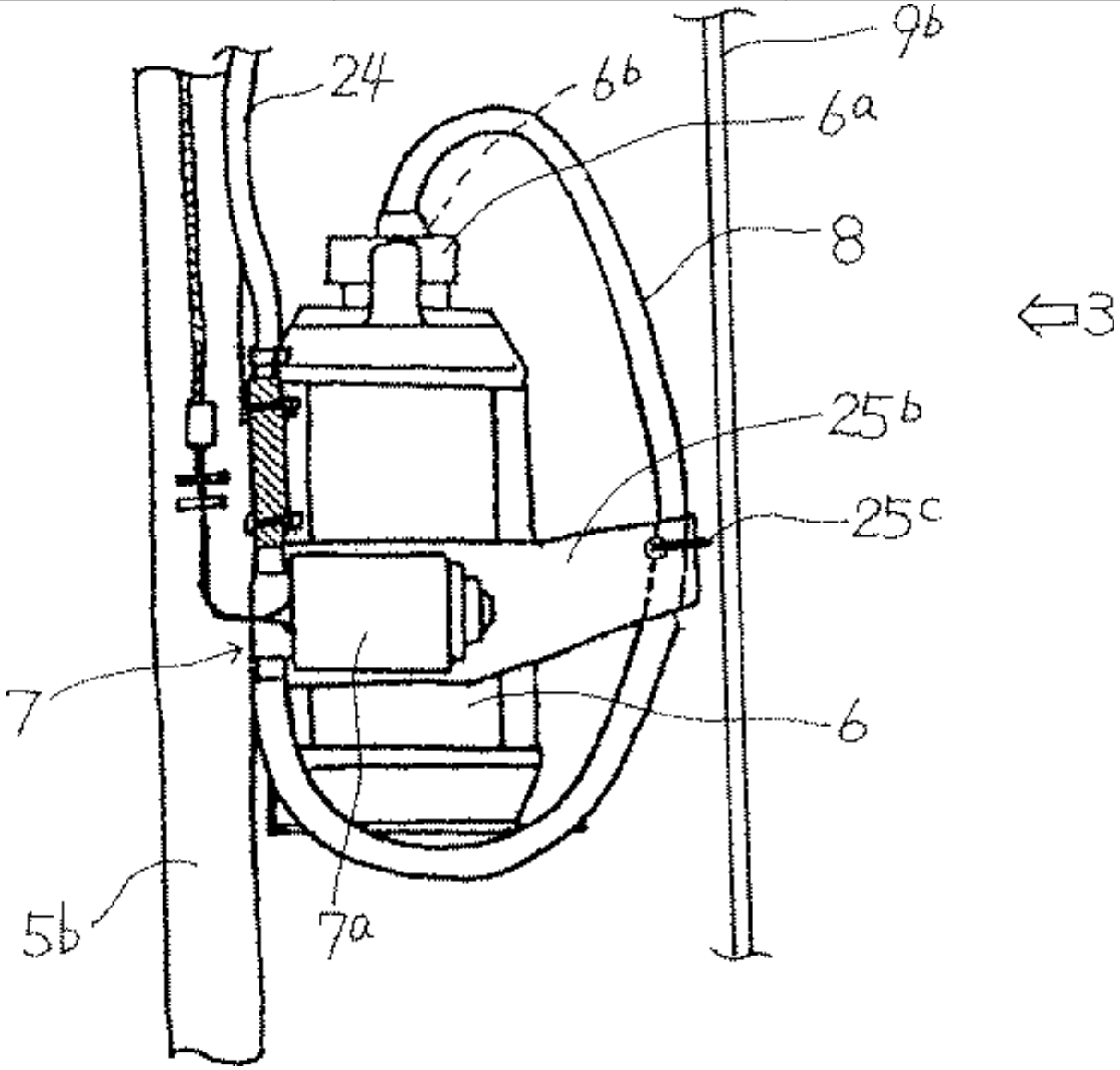
Family 343/667 - FAMPAT - ©Questel

Title

(JP2004081073)

Lubricating system for combine harvester

Images



Publication data including kind & date

JP2004081073 A 2004-03-18 JP2004081073

Abstract

(JP2004081073)

PROBLEM TO BE SOLVED: To provide a lubricating system for combine harvester, having such a scheme that a lubricant tank and a lubricating pump are set up in close proximity to each other to shorten a lubricant feed hose connecting the lubricant tank and the lubricating pump to each other so as to neither be bent nor get kinky.

SOLUTION: The lubricating system has the following scheme.The lubricant tank 6 and the lubricating pump 7 are set up in the vicinity of the reaping right frame 5b of a reaper 3 and the lubricant feed hose 8 connecting the lubricant tank and lubricating pump to each other runs along the inner side of a right cover 9b and set to the lubricating pump 7 from the right side of the lubricant tank 6 via under the lubricating pump 7, and the conveying case as a means for conveying grain culms is provided with an insertion hole and a lubricant feed hose branched downward from a lubricant feed hose connected to the lubricating pump 7 is put through the insertion hole and a lubricant feed hose set above a dividing pipe is provided with a guide cover.

COPYRIGHT: (C)2004,JPO

Inventors

IIIZUMI KIYOSHI
KITAGAWA TOMOSHI
TAKAHASHI HAKURO
AKEHI RIYUUJI
MIYAKE TATSUYA

UCHIDA HIROYA

KUSUME KOJI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

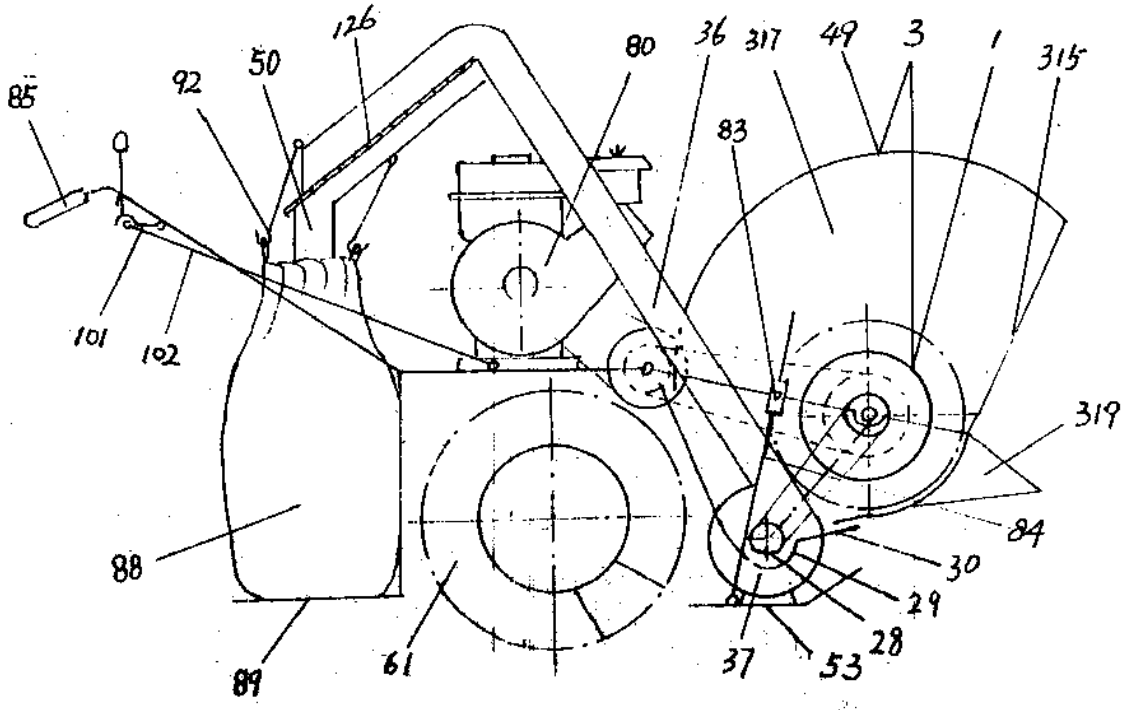
Family 344/667 - FAMPAT - ©Questel

Title

(CN2407568U)

Primary threshing rice and wheat harvester

Images



Publication data including kind & date

CN2407568 Y 2000-11-29 CN2407568U

Abstract

(CN2407568U)

The utility model provides a primary threshing rice and wheat harvester, which has various types.A threshing device at the lower part of the utility model is provided with at least one threshing implement of which shaft is breadthways laid or perpendicularly laid, the ring circumference face of each threshing implement is provided with threshing striking teeth which are protrusive outward, the threshing striking teeth all are gullet teeth, or parts of the threshing striking teeth are gullet teeth.Each gullet tooth is provided with a protrusion with a little side direction geometric component or an arris of protrusive part or a tooth slope formed by a face and a tooth hook.The threshing implement can hook the ear part of primary rice and wheat, and can control rice and wheat at easy collected tooth district at the upper part of the threshing implement to complete threshing in one step, so the utility model has the advantages of small loss for harvest, few process, high efficiency, energy saving and handiness.The different types of the utility model can be suitable for the requirement of different operating conditions.

Inventors

CHEN XINGZHONG

CHEN XINGFANG

CHEN XINGAN

Latest standardized assignees - inventors removed

ZHENG FENG

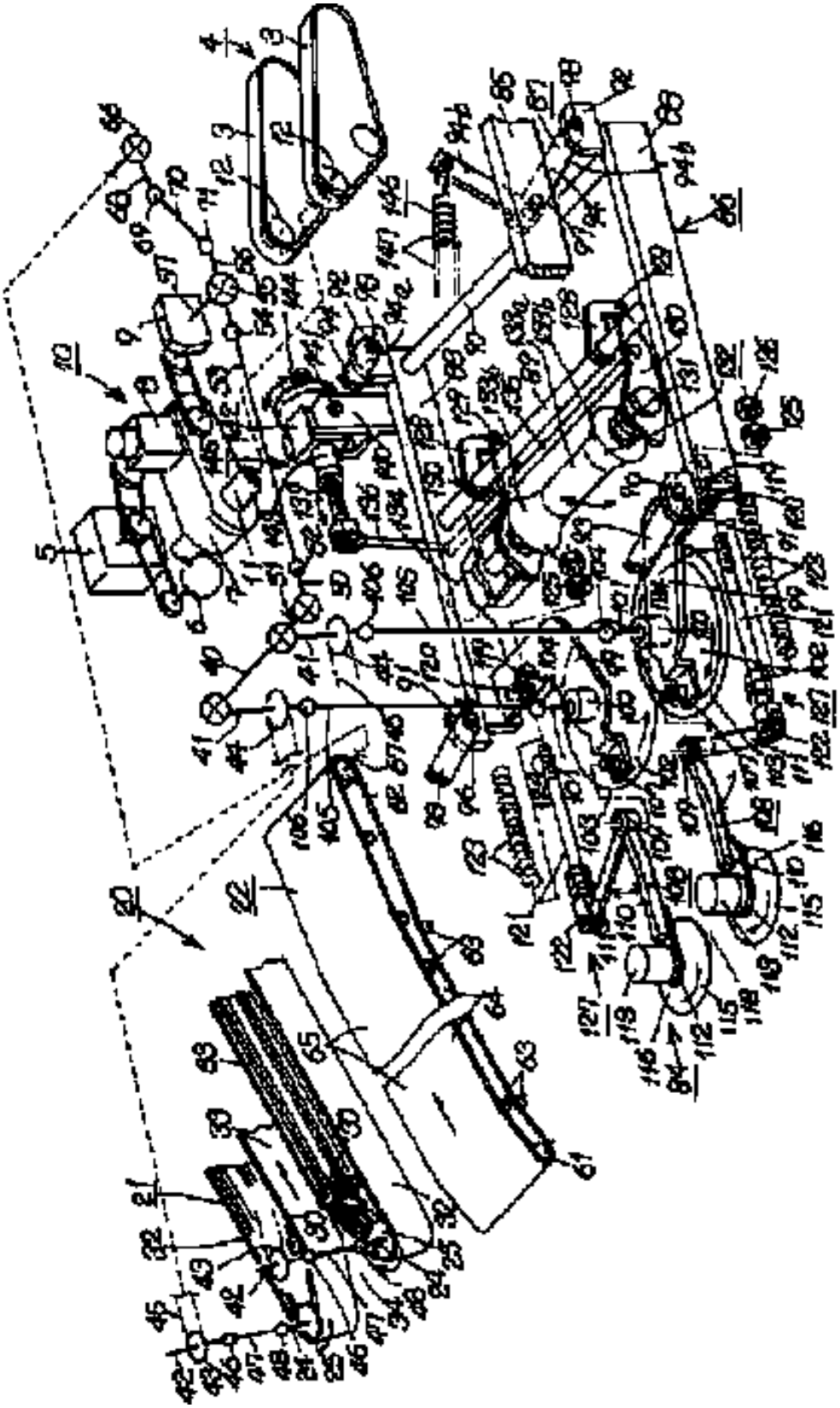
Family 345/667 - FAMPAT - ©Questel

Title

(JP11243745)

Head formation vegetable harvester

Images



Publication data including kind & date

JPH11243745 A 1999-09-14 JP11243745

Abstract

(JP11243745)

PROBLEM TO BE SOLVED: To provide the subject harvester designed to regulate the cutting position for a cutter and equipped with a cutting device excellent in adaptability to ridge width and ridge followability.SOLUTION: This head formation vegetable harvester has a traveling vehicle body 1, a cutting device 84 for cutting the roots of head formation vegetables, and a conveyor 20 for carrying head formation vegetables freed from the roots by cutting off them; wherein the cutting device 84 has a cutter 102, a guide wheel 115 for guiding head formation vegetables to the cutter, and a ridge following driving roller 132 for regulating the cutting position for the cutter 102 and following along the ridge planted with the vegetables; the ridge following driving roller 132 has a small-diameter roller 133a rotatingly travel on a stock after cutting off the root of the vegetables and large-diameter rollers 133b provided on both sides of the small-diameter roller 133a in an axially retractable manner, contacting on both ridge shoulders at a specified ground contact pressure and rotatingly travel compliantly along both the ridge shoulders; in this case the large-diameter rollers 133b are always energized with springs.

Inventors

KANEMITSU MIKIO
OTA TOMOHIKO
KATO KEIZO
MIYAMOTO KAZUMASA
HIRAMOTO MINORU

Latest standardized assignees - inventors removed

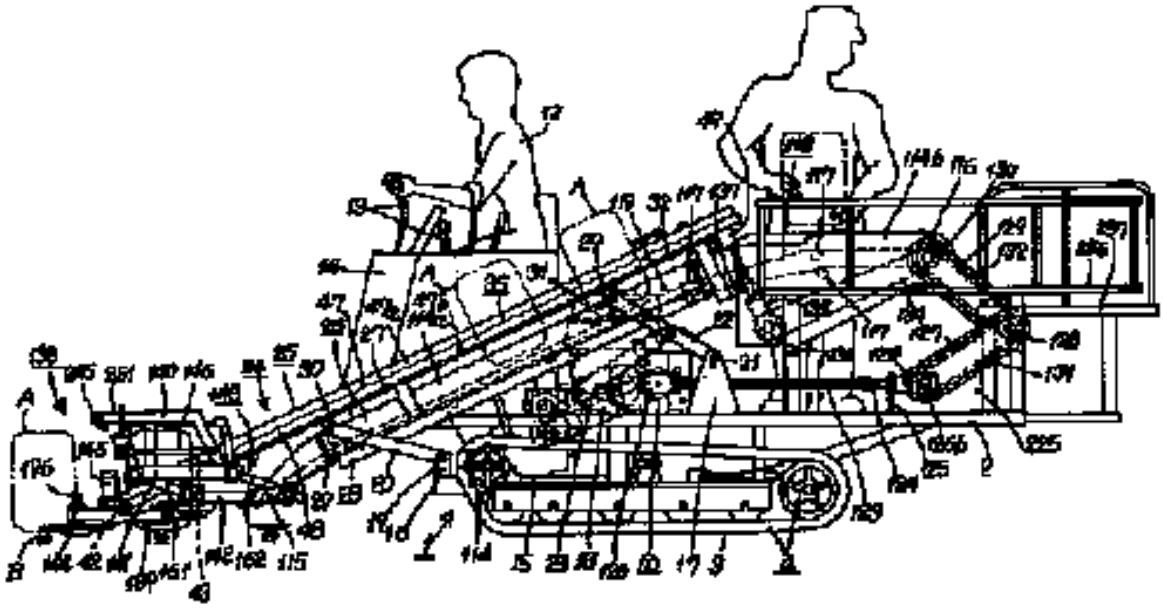
SASAKI
KUBOTA
MATSUYAMA PLOW MFG

Family 346/667 - FAMPAT - ©Questel

Title

(JP11239406)
Harvester for vegetable with formed head

Images



Publication data including kind & date

JPH11239406 A 1999-09-07 JP11239406

Abstract

(JP11239406)

PROBLEM TO BE SOLVED: To provide a harvester for a vegetable with a formed head for sufficiently nipping the lower part of a vegetable with a formed head, firmly tightening the head, by an upper nipping face part of an elastic nipping body for elastically deforming in nipping the lower part of the vegetable with the formed head and a lower nipping face part having a larger projected amount than that of the upper nipping face part.SOLUTION: This harvester for a vegetable with a formed head is equipped with a traveling body 1, a cutter 139 and a conveyor 25 for nipping and transporting a vegetable with a formed head A from which a root part B is cut off by the cutter 139.The nipping conveyor 25 has a pair of endless

rotating bodies 35 for nipping and transporting the vegetable with the formed head A by opposing inside rotating parts, front guide bodies for guiding the front returning parts of the endless rotating bodies 35, tension members and rear guide bodies for guiding the rear returning parts of the endless rotating bodies 35.The endless rotating bodies 35 comprise elastic nipping bodies 47 which are elastically deformed in nipping the vegetable with the formed head A by the inside rotating parts, nip the lower part of the vegetable with the formed head A and have upper and lower elastically deformable nipping face parts 47a and 47b.The lower nipping face parts 47b are formed protrusively in the nipping direction than the upper facing face parts 47a.

Inventors

KANEMITSU MIKIO
OTA TOMOHIKO
KATO KEIZO
MIYAMOTO KAZUMASA
TOYAMA SHINICHI
HIRAMOTO MINORU

Latest standardized assignees - inventors removed

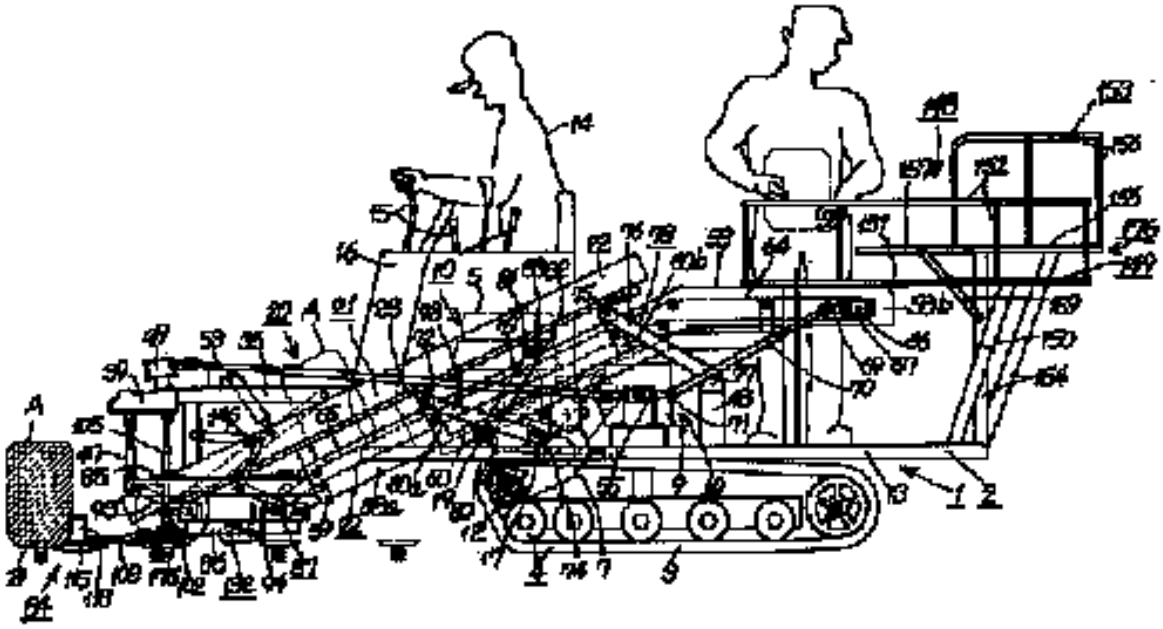
SASAKI
KUBOTA
MATSUYAMA PLOW MFG

Family 347/667 - FAMPAT - ©Questel

Title

(JP10276540)
Head formation vegetable harvester

Images



Publication data including kind & date

JPH10276540 A 1998-10-20 JP10276540

Abstract

(JP10276540)

PROBLEM TO BE SOLVED: To provide a head formation vegetable harvester with which a head formation vegetable can be cut at its root in planting state, this head formation vegetable can be conveyed to a finish working part while keeping the planting state and at the finish working part, the vegetable can be finished for forwarding, packaged and sealed.SOLUTION: This harvester is provided with a traveling car body 1, cutting device 84 having a cutter 102 for cutting a root part B of head formation vegetable A in the planting state on the field, conveyer 20 for conveying the root part B cut vegetable A in the planting state, and finish working part 148 for finishing the vegetable A conveyed by the conveyer 20 for

forwarding.The finish working part 148 has empty box loading spaces for packaging the vegetable A, vegetable storage spaces for temporarily storing the vegetables A, adjustment working table 157 for the vegetables A, packaging work spaces for packaging and sealing the vegetables A adjusted on the adjustment work table 157, and carry-out parts for carrying out corrugated cartons sealed in the packaging spaces.

Inventors

SUZAWA KENZO
KANEMITSU MIKIO
OTA TOMOHIKO
KATO KEIZO
MIYAMOTO KAZUMASA
HIRAMOTO MINORU

Latest standardized assignees - inventors removed

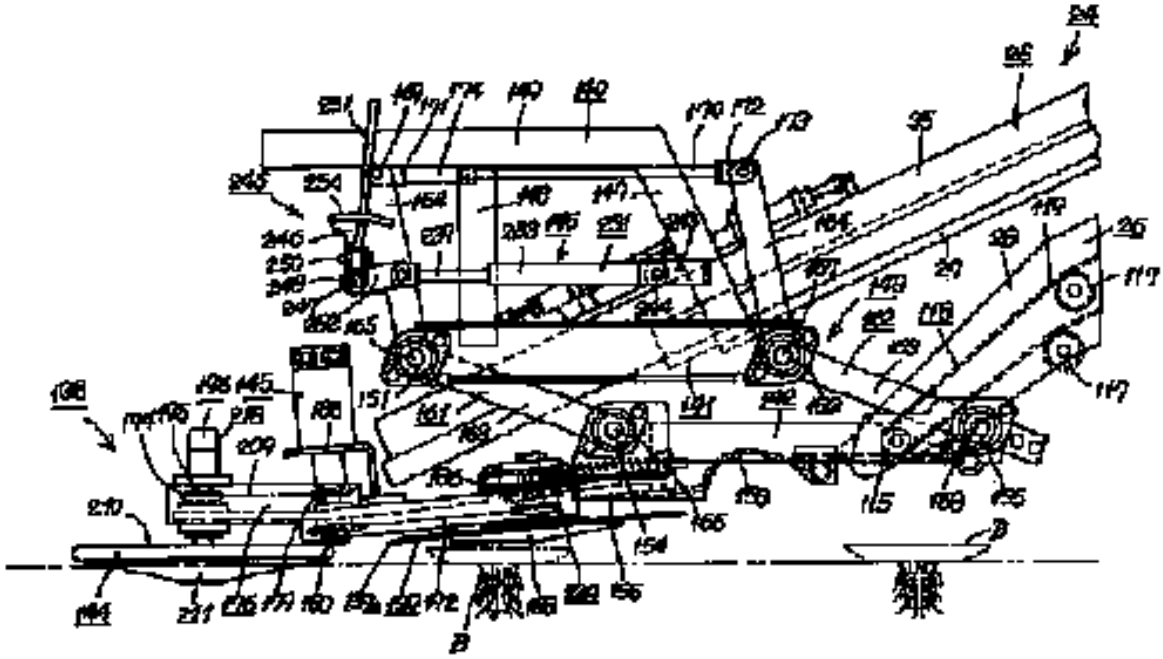
SEIBUTSUKEI TOKUTEI SANGYO
KUBOTA
MATSUYAMA PLOW MFG

Family 348/667 - FAMPAT - ©Questel

Title

(JP11239407)
Harvester for vegetable with formed head

Images



Publication data including kind & date

JPH11239407 A 1999-09-07 JP11239407

Abstract

(JP11239407)

PROBLEM TO BE SOLVED: To provide a harvester for a vegetable with a formed head capable of surely cutting the root part of the vegetable with the formed head from a fixed position by a cutter while controlling the cutting position of the cutting by guide wheels grounded on ridge sides and rotated and preventing the vertical deviation of the cutting position of the cutter by a stump and the forced movement of ridge soil, etc., toward the cutter.SOLUTION: This harvester for a vegetable with a formed head is equipped with a traveling body, a cutting apparatus 138 for cutting off a root part B of the vegetable with the formed head and a conveyor 24 for transporting the vegetable with the formed head.The cutting

apparatus 138 has a parallel link 143 for vertically movably supporting the movable frame 142 on a stationary frame 141 and energizing the movable frame 142 in the direction to continuously retain it in a fixed height position, a rotatable cutter 139 for cutting the root part B of the vegetable with the formed head at the rear part of a transmission case 176 fixed to the movable frame 142 and rotatable guide wheels 144 which are grounded on ridge sides at the front part, control the cutting position of the cutter 139, arrange the position of the vegetable with the formed head and guides it to the cutter 139.

Inventors

KANEMITSU MIKIO
OTA TOMOHIKO
KANAI YOSHIHIDE
ITO TSUKASA
KATO KEIZO
MIYAMOTO KAZUMASA
TOYAMA SHINICHI
HIRAMOTO MINORU

Latest standardized assignees - inventors removed

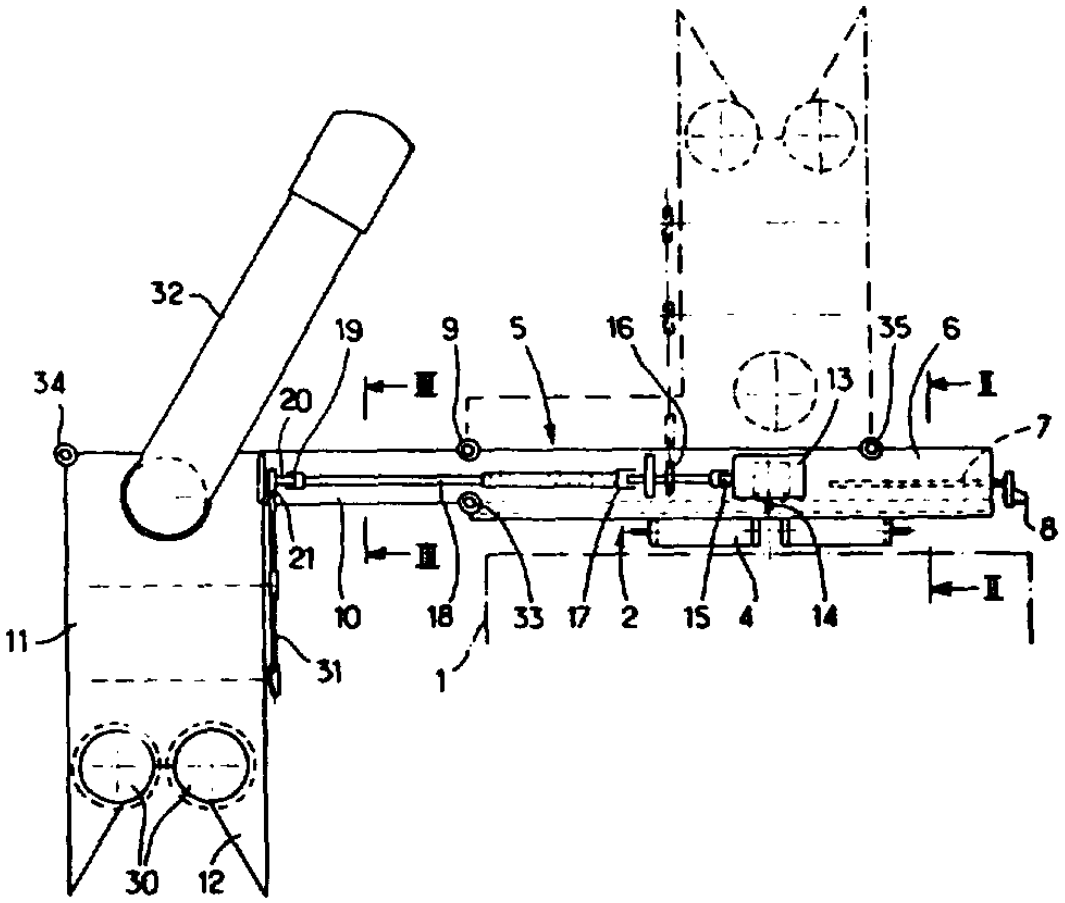
SASAKI
KUBOTA
MATSUYAMA PLOW MFG

Family 349/667 - FAMPAT - ©Questel

Title

(EP--92013)
Harvesting and chopping device

Images



Publication data including kind & date

EP0092013	A1	1983-10-26	EP--92013
DE92013	T1	1984-05-24	DE--92013T
EP0092013	B1	1987-03-04	EP--92013
AT25560	T	1987-03-15	ATE025560
DE3275494	D1	1987-04-09	DE3275494

Abstract

(EP--92013)

1.A forage harvester of the type comprising a frame to be coupled to a tractor (1) and to extend at the side of this tractor in the normal working position, this frame carrying the body (11) of the machine with the usual active members being supported on the opposite side from the tractor (1) by a carrying wheel rolling along the ground, the said frame comprising a beam (5) connected to the tractor and formed of a first, inner part (6) and a second, outer part (10) hinged to each other around a vertical shaft (9) the outer part (10) carrying the body (11) of the machine and being pivotally displaceable around the vertical shaft (9) between a first position situated in line with the inner part (6) and a second position in which it is folded back behind this inner part (6), characterized in that this frame of the machine additionally comprises a support (2) forming a transverse slide (3) which is equipped with means (4) of connection to the tractor (1), the inner part (6) of the beam (5) being mounted slidingly in or on this transverse slide (3), means being provided to immobilize this sliding part of the beam in the desired position in or on the slide (3).

Inventors

MAGIN, LUDWIG

Latest standardized assignees - inventors removed

DEERE

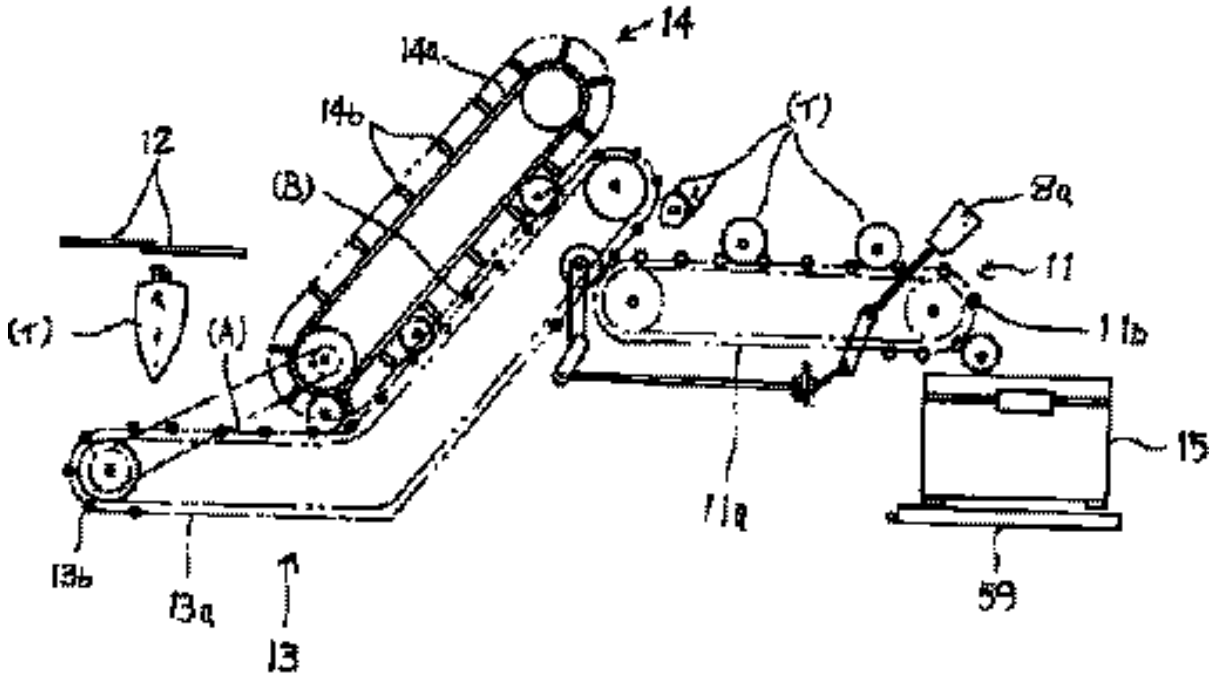
Family 350/667 - FAMPAT - ©Questel

Title

(JP2002335729)

Transfer apparatus of crop harvester

Images



Publication data including kind & date

JP2002335729 A 2002-11-26 JP2002335729

Abstract

(JP2002335729)

PROBLEM TO BE SOLVED: To provide a transfer apparatus of a crop harvester capable of smoothly performing operations when the interior of a housing box is filled with harvested and sorted crop bodies and the housing box is exchanged or operations are restarted after the exchange.SOLUTION: This transfer apparatus of the crop harvester is designed to cut a prescribed position of a leaf part with leaf cutting devices 12 and 12 during taking over, nipping and transferring of each crop body (a) after arranging the neck with a tapping transfer apparatus, receive the crop body (a) after cutting the leaf part with a lower transfer conveyor 13, install an upper transfer conveyor 14 on the upper side of the lower

transfer conveyor 13, hold the crop body (a) between the upper and lower conveyors 14 and 13 and transfer the crop body (a) to the upper part in the transverse direction.Furthermore, a freely vertically movable carrying platform device for carrying a freely stretchable housing bag for receiving and housing the crop body (a) is composed so as to detect the amount of the housed crop body (a) housed in the housing bag with a housing amount sensor and contract and control the housing bag according to the vertical moving control of the carrying platform device with a controller.

Inventors

KAWAGUCHI HIROMICHI
YANO NORIHIRO
TAKAGI SHINGO
IWABE TAKAAKI
KITTE HAJIME

Latest standardized assignees - inventors removed

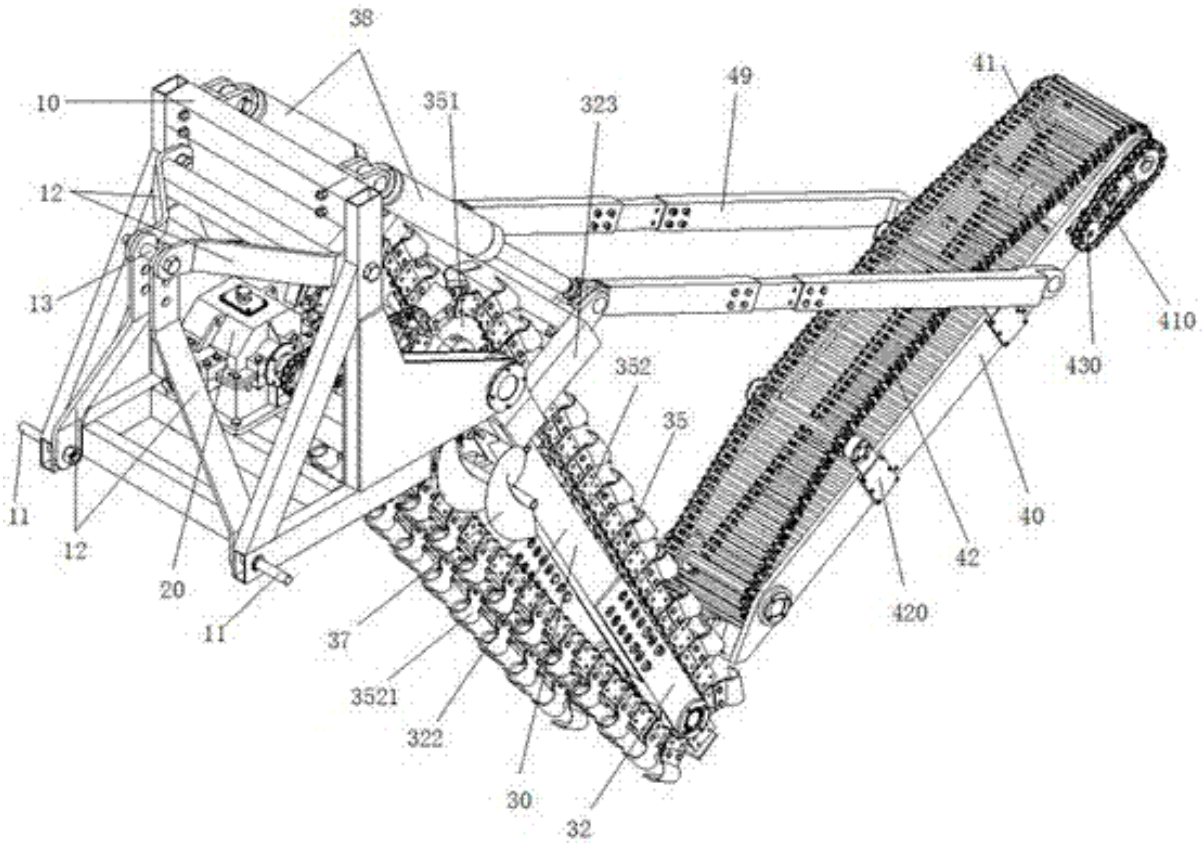
ISEKI AGRICULTURAL MACHINERY

Family 351/667 - FAMPAT - ©Questel

Title

(CN108575253)
Deep root crops a harvester

Images



Publication data including kind & date

CN108575253	A	2018-09-28	CN108575253

Abstract

(CN108575253)

The present invention relates to a deep root crops harvesting machines, comprising a housing, gearing, the digging of deep boring device and conveyor, the boring device's main shaft provided to dig deeply transmission power, to rotate the spindle; the digging of deep boring device further comprises a support frame, a driven shaft, and at least one soil ridge at least two trenching mechanism cutting mechanism, the proximal housing end of the support and the spindle is provided, and the proximal housing end and rotatably connected, at a distal housing end supporting frame includes a driven shaft, and a distal frame end connecting conveyor, soil ridge cutting mechanism is fixed to the driven shaft, and follows the driven shaft

to rotate; trenching mechanism includes a large sprocket each, and a small sprocket chain cutter of the trenching chain is provided with one, the larger sprocket fixed to the main shaft, a sprocket fixed to the driven shaft is small, a small chain wheel to rotate through trenching chain drives, located between adjacent two of the smaller sprocket soil ridge cut trenching mechanism is a mechanism, cutting mechanism for cutting the soil ridge of the soil ridge is provided on the blade.The present invention digging is of good quality, harvest efficiency is high.

Inventors

YANG FAZHAN
LIU GUOHUA
LI WEIHUA
YANG YUNPENG
WANG YU LING
JIANG FULIN

Latest standardized assignees - inventors removed

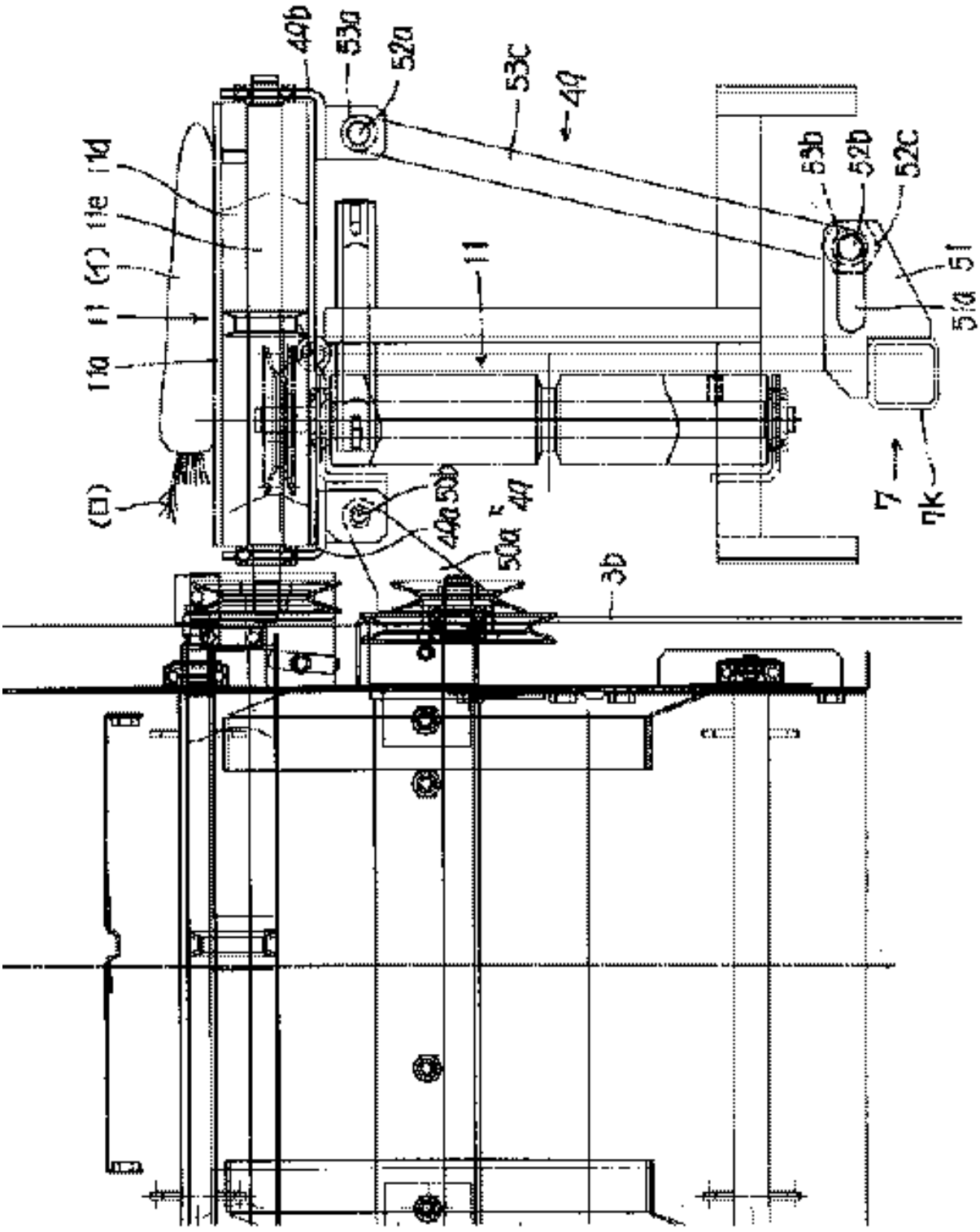
QINGDAO TECHNOLOGICAL UNIVERSITY

Family 352/667 - FAMPAT - ©Questel

Title

(JP2002171815)
Transfer apparatus for harvester

Images



Publication data including kind & date

JP2002171815 A 2002-06-18 JP2002171815

Abstract

(JP2002171815)

PROBLEM TO BE SOLVED: To provide a transfer apparatus for a harvester designed to eliminate or separate and extract crops (carrots) with the leaves left uncut and/or stuck with waste grass, waste leaves, soil, or the like left intact, or defective crops with flaws or bifurcated shape, prior to holding them into container boxes.SOLUTION: This transfer apparatus for a harvester is a separatory transfer apparatus 11 functioning to visually separate defective crops with flaws or bifurcated shape during transferring treated crops (1) following being fed with them from an eliminatory transfer unit functioning to eliminate residual leaves (2) left in crops (1), waste grass, waste leaves, soil, or the like, adhered to crops (1) during

delivery transfer of crops (1) with the leaves cut off from a transfer conveyor, wherein the separatory transfer apparatus 11 is designed to be foldable forwardly downward and the rear end part thereof tiltable backwardly downward through operating a support unit 49 supporting the apparatus 11.

Inventors

KITTE HAJIME
KAWAGUCHI HIROMICHI
YANO NORIHIRO
TAKAGI SHINGO
IWABE TAKAAKI

Latest standardized assignees - inventors removed

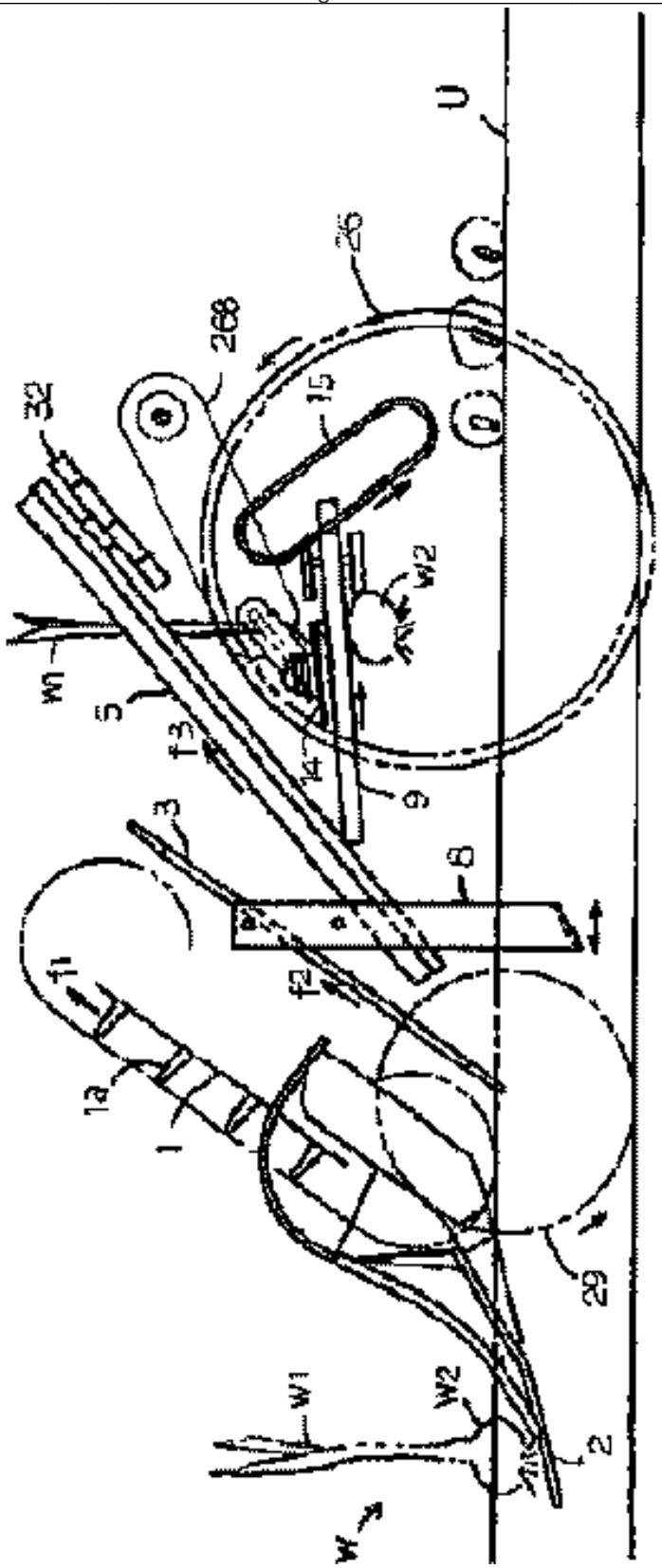
ISEKI AGRICULTURAL MACHINERY

Family 353/667 - FAMPAT - ©Questel

Title

(JP2001169634)
Rhizome harvester

Images



Publication data including kind & date

JP2001169634 A 2001-06-26 JP2001169634

Abstract

(JP2001169634)

PROBLEM TO BE SOLVED: To continuously arrange harvested crops, which are pulled out during the advance of a machine body, on the surface of ridge having the traveling track of the machine body in a fixed position of laid sideways in a rhizome harvester.SOLUTION: In this rhizome harvester in which a crop w such as an onion, etc., on the surface of a ridge U is dug up by digging up blades 8/8, pulled out by a pulling out and transporting apparatus (6), transported backward while the lower part of stem and leaf part w1 of the crop w being nipped by a lower transportation apparatus 9, the stem and leaf part w1 of the crop w is cut at a position at a fixed height in the process of the transportation.The treated crop w is

dropped through a sideways falling transportation apparatus Y on the surface of the ridge U, a raising up apparatus 1 for pushing aside and raising up the stem and leaf part w1' of the crop such as an onion, etc., by a seizing projection la is installed at the front part of the machine body.A grass separating bar 2 is extended from the tip of the raising up apparatus 1 slantingly forward and downward and the stem and leaf part w1 of the crop w is pushed aside by the grass separating bar 2.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUI YUKIHIRO
WATANABE KAZUYUKI

Latest standardized assignees - inventors removed

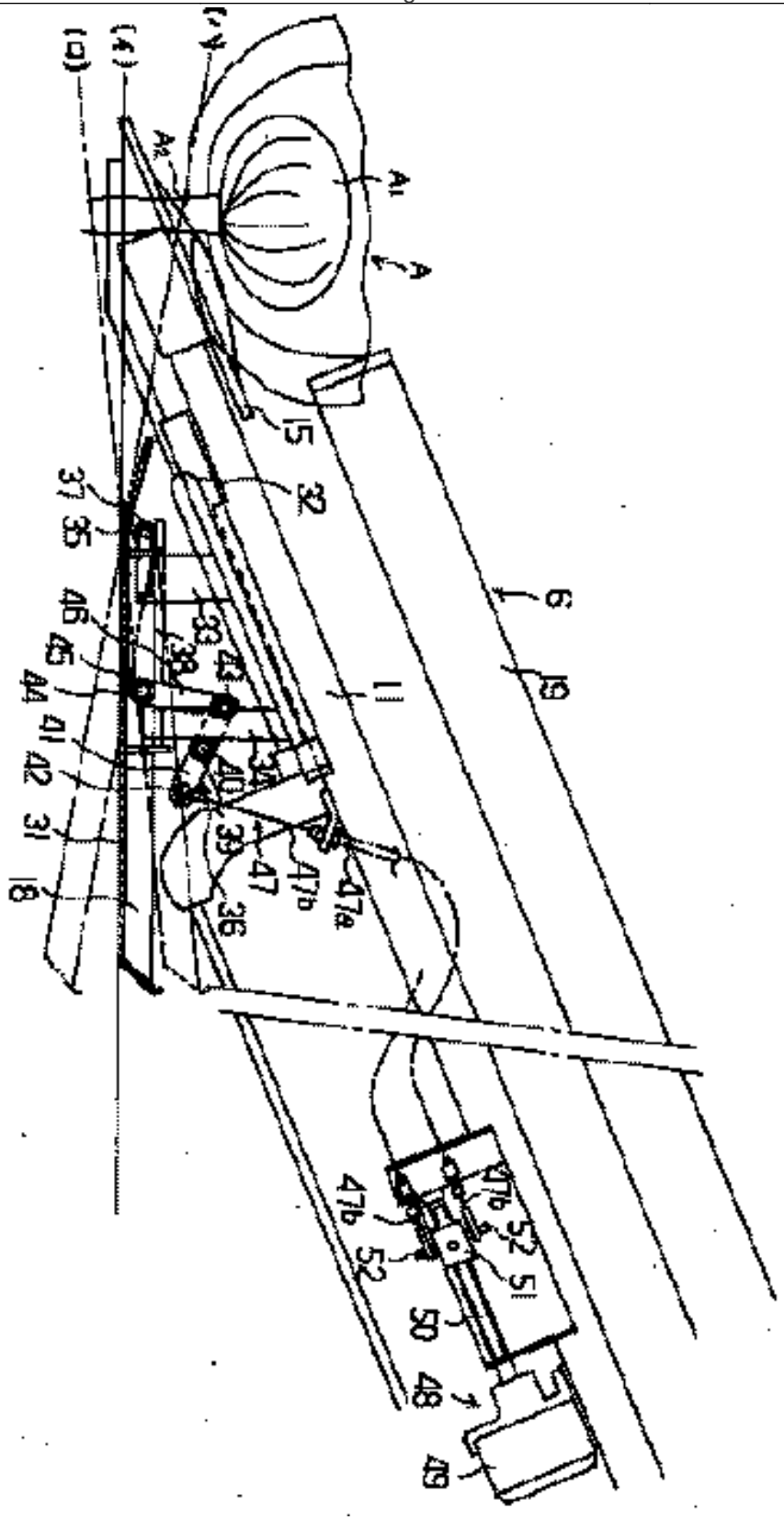
SEIREI INDUSTRY

Family 354/667 - FAMPAT - ©Questel

Title

(JP2003018906)
Vegetable harvester

Images



Publication data including kind & date

JP2003018906 A 2003-01-21 JP2003018906

Abstract

(JP2003018906)

PROBLEM TO BE SOLVED: To save labor by regulating the angle of the ground surface with each ground contact surface of the ground contact bodies regulating the angle of lifting bodies acting on a vegetable, making the lifting bodies optimally act irrespective of quality or growth conditions of the harvested vegetable and remotely operating the regulation.SOLUTION: This vegetable harvester is capable of uprooting each vegetable with the formed head planted in a field and harvesting the vegetable with the formed head while traveling.The vegetable harvester is characterized as follows.An uprooting device having the lifting bodies with a front descending slope for nipping the stem and root part of the

vegetable with the formed head, admitting into a space between the base of the formed head and the ground surface and lifting the formed head part according to the advance of the machine body is installed at the tip of an operating part frame vertically movable relatively to the machine body.A front supporting device having the ground contact bodies contacting the ground surface on both sides of the stem and root part and supporting the operating part frame is provided in the operating part frame at the rear of the uprooting device.Furthermore, the angle of the ground surface with the ground contact surface of the ground contact bodies is made variable by remote operation.

Inventors

ONBE HIROSHI

FUKUDA YUKIHIRO

SHIN HIROKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

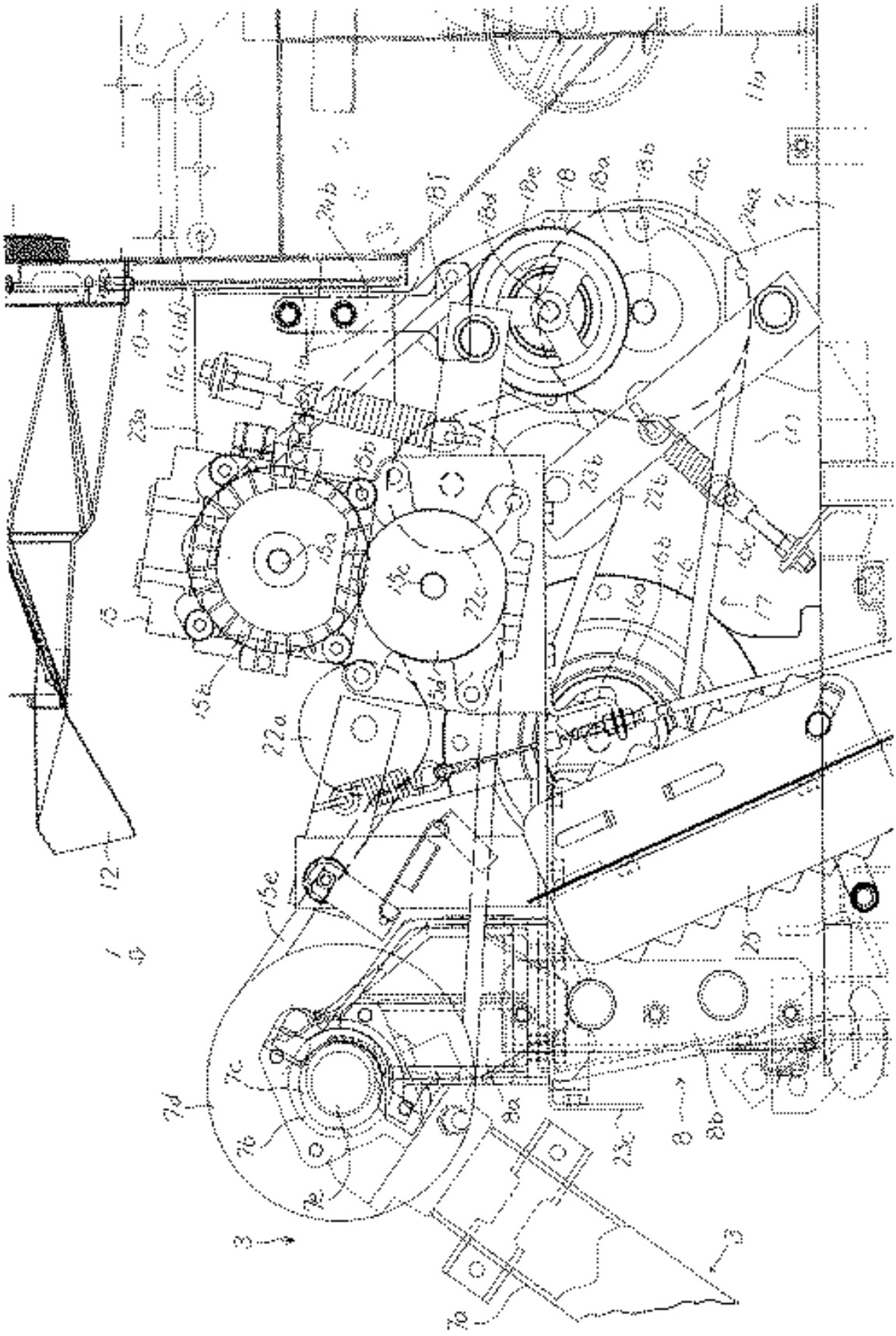
Family 355/667 - FAMPAT - ©Questel

Title

(JP2004229513)

Reaper-driving apparatus of combine harvester

Images



Publication data including kind & date

JP2004229513 A 2004-08-19 JP2004229513

Abstract

(JP2004229513)

PROBLEM TO BE SOLVED: To easily maintain a hydraulic continuously variable transmission which is used for reaping and rotates a reaper for reaping grain straws.

SOLUTION: This hydraulic continuously variable transmission 15 for rotating the reaper 3 for reaping the grain straws is

disposed in a space surrounded with a supporter 8 for supporting the reaper 3, the front side plate 11a of a thresher 10, an entrance funnel 12 for guiding grain straws to the thresher 10, and the upper side of a travel vehicle 2.A transmission part 17 ranged from the output pulley 16b of an engine 16 to the input pulley 7d of the reaper 3 is also disposed in the space.A counter gear case 18 is disposed on the lower side of the entrance funnel 12 and on the front side of the front side place 11a.

COPYRIGHT: (C)2004,JPO&NCIPI

Inventors

OCHI SHOJI
ITO KOJI
ISHIKAWA MICHIO
MIZUSHIMA ATSUSHI
MIYAKE TATSUYA
UCHIDA HIROYA
YUBIHARA HIROHIKO

Latest standardized assignees - inventors removed

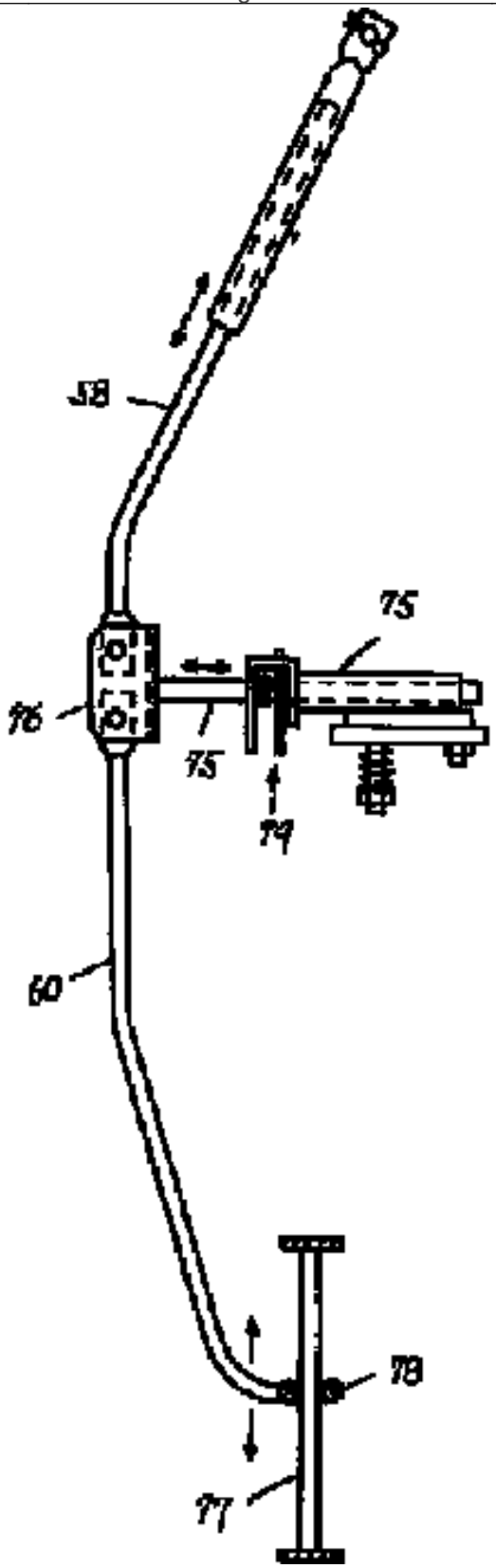
ISEKI AGRICULTURAL MACHINERY

Family 356/667 - FAMPAT - ©Questel

Title

(JP09215429)
Dividing device of combine harvester

Images



Publication data including kind & date

JPH09215429	A	1997-08-19	JP09215429
JP2942511	B2	1999-08-30	JP2942511

Abstract

(JP2942511)

PROBLEM TO BE SOLVED: To prevent a side divider of the combine harvester from deforming and breaking by interfering with a levee.SOLUTION: The combine which has side dividers 58 and 60 extended from the front left side of a mower part to the rear left part of a threshing machine body is provided with an arm 75 which supports the intermediate part between the side dividers 58 and 60 on the threshing machine body; and the quantity of outward projection of the side dividers 58 and 60 from the machine and their up/down position are varied by expanding and contracting, and swinging the arm 75 up

and down, and at the intermediate part of the arm 75, a lock member 79 is provided which sets the length of the arm 75 variably.

Inventors

OKAZAKI MASAHARU

YABUKI MAKOTO

Latest standardized assignees - inventors removed

SEIREI KOGYO

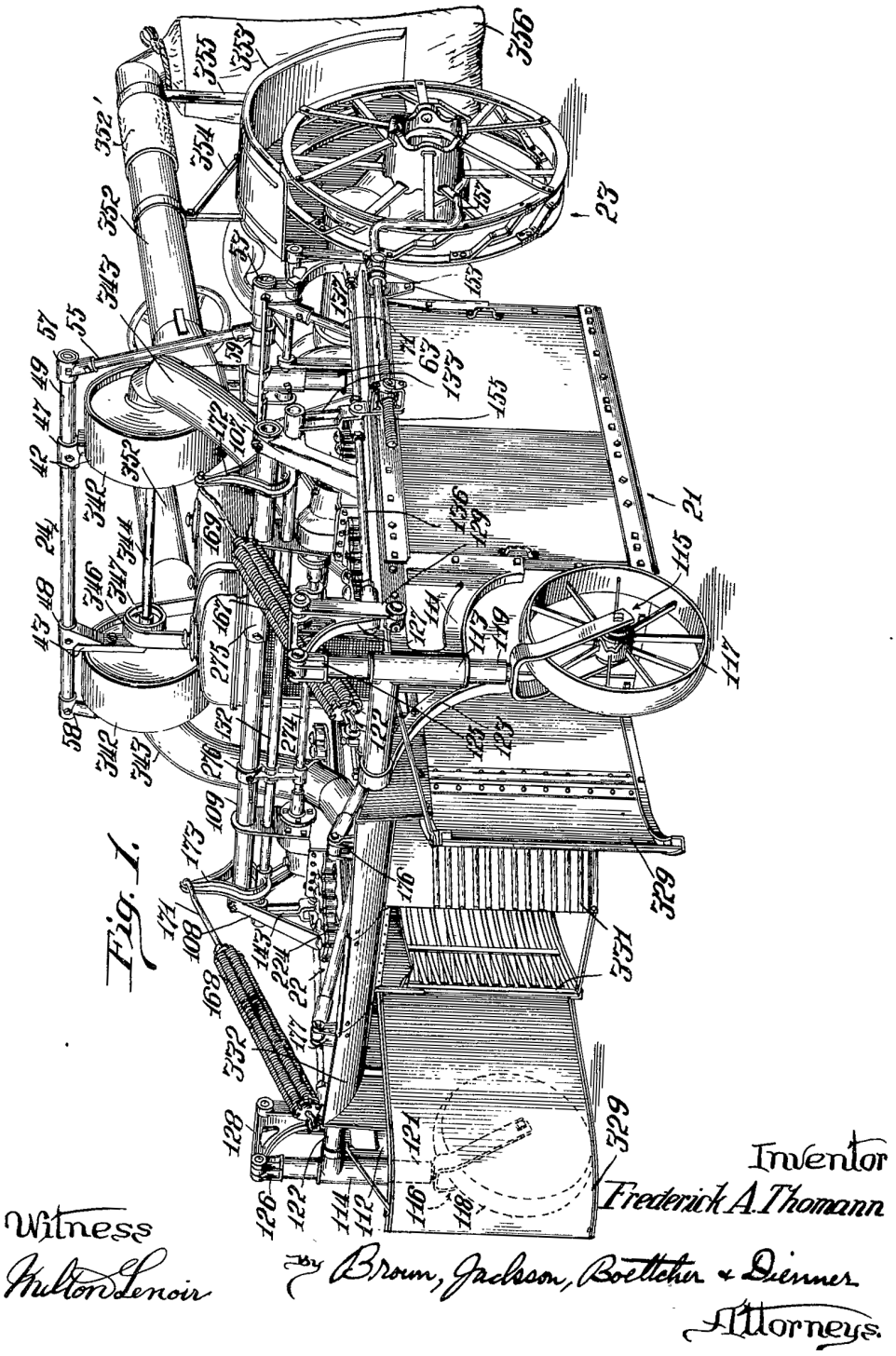
Family 357/667 - FAMPAT - ©Questel

Title

(US2004713)

Harvester

Images



Publication data including kind & date

US2004713 A 1935-06-11 US2004713

Inventors

THOMANN FREDERICK A

Latest standardized assignees - inventors removed

DEERE

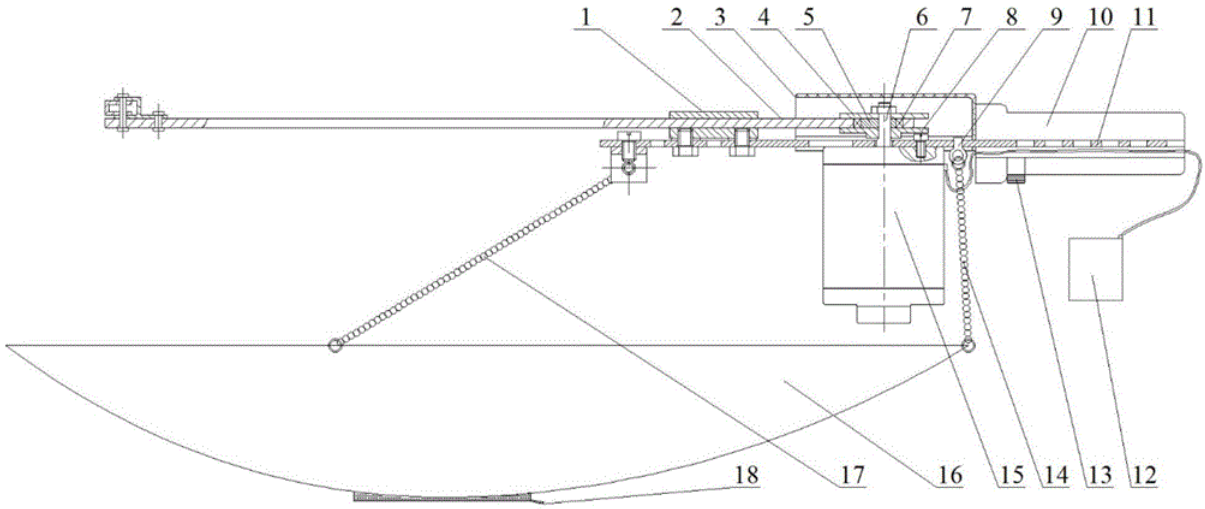
Family 358/667 - FAMPAT - ©Questel

Title

(CN206181836U)

Little berry harvester with fruit branch clamping device and fruit receiving arrangement

Images



Publication data including kind & date

CN206181836 U 2017-05-24 CN206181836U

Abstract

(CN206181836U)

Little berry harvester with fruit branch clamping device and fruit receiving arrangement includes: a machine support, dc motor, fruit receiving arrangement, fruit branch clamping device, preceding handle, back handle, eccentric wheeled vibration transformation mechanism, DC power supply and speed control system assembly, the dc motor assembly is at the downside of frame, the last eccentric wheel that assembles of the motor output shaft, the dress is joined in marriage with the inner ring of bearing to the eccentric wheel, the dress is joined in marriage to the eccentric wheeled vibration transformation mechanism's of side -mounting long circular ring -shaped slide in bearing outer ring and the frame, lower side -mounting fruit receiving arrangement, handle before the assembly of frame front end left side, rear portion assembly back handle, reciprocal vibrating arm front end is equipped with normal close formula fruit branch and presss from both sides, swing vibrating arm front end is the Y -type opening, the during operation maybe will be swung the vibrating arm with normal close formula fruit branch clamp centre gripping and insert the fruit branch on the fruit branch, it falls into fruit receiving arrangement to be shaken the fruit by eccentric wheeled vibration transformation mechanism production frequency of dc motor drive and the vibration of amplitude adjustable.The local structure is light, and is efficient, is suitable for the popularization.

Inventors

KONG DEGANG
NIU LIZHOU
HUO JUNWEI
PAN XIAOLI
ZUO SHENGJIA
NIU SIWEI
GAO YU

Latest standardized assignees - inventors removed

NORTHEAST AGRICULTURAL UNIVERSITY

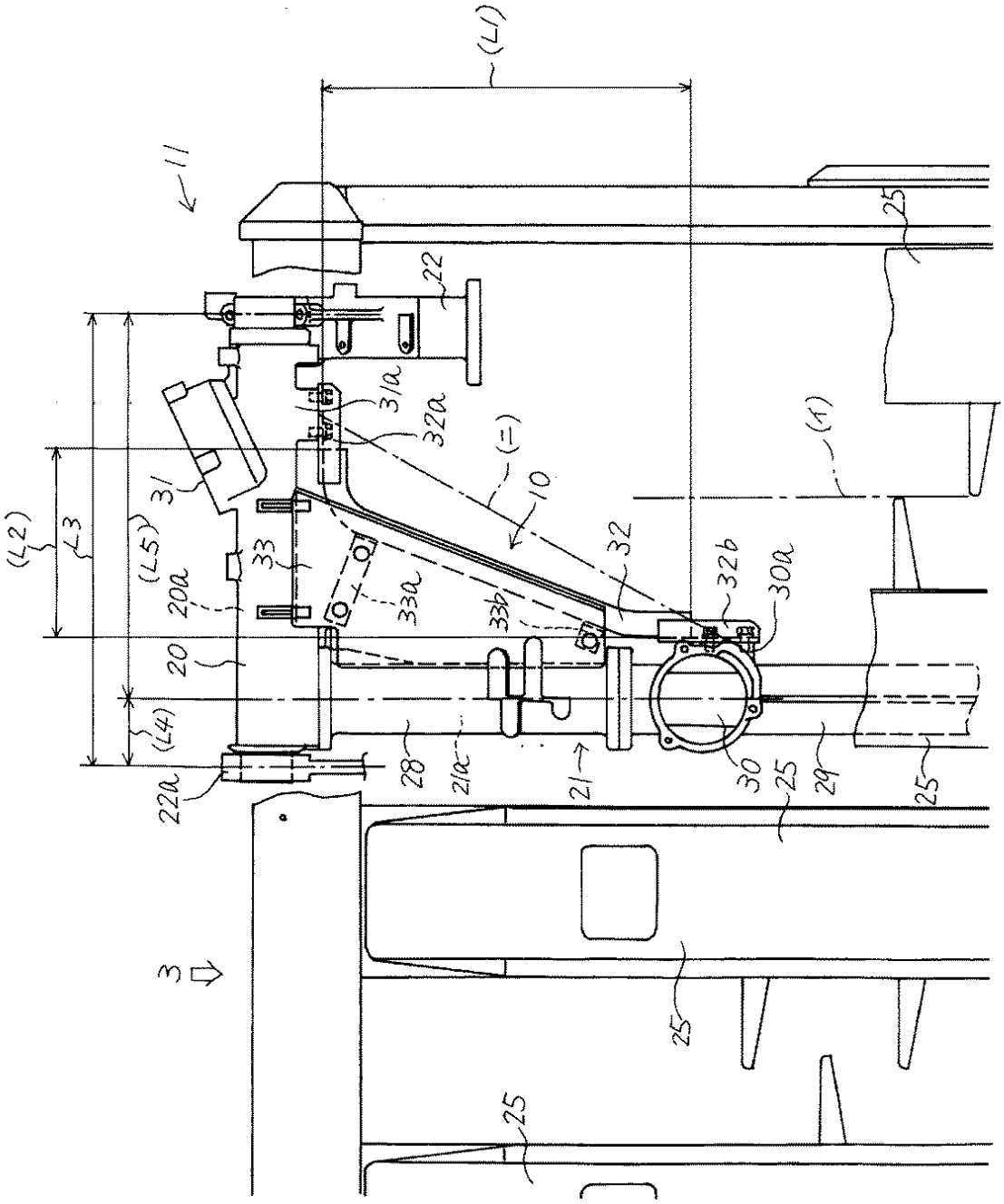
Family 359/667 - FAMPAT - ©Questel

Title

(JP2001292621)

Reaper-supporting device of combine harvester

Images



Publication data including kind & date

JP2001292621	A	2001-10-23	JP2001292621
JP4110705	B2	2008-07-02	JP4110705

Abstract

(JP4110705)

PROBLEM TO BE SOLVED: To prevent vertical and horizontal swinging of a reaper by reinforcing a supporting lever for supporting the reaper and a supporting pipe lever.SOLUTION: A supporting lever 21 for supporting the reaper composed of

an upper supporting lever 28 and a lower supporting lever 29 in longitudinal direction is provided and a supporting pipe lever 20 in the lateral direction is provided in the upper end part of the supporting lever 21.A supporting device 22 for turning and supporting the supporting pipe lever 20 is provided to constitute the reaper 3 so as to be vertically rotatable and further, a reinforcing connecting lever 10 for connecting the above lower supporting lever 29 of the supporting lever 21 and the supporting pipe lever 20 is provided.

Inventors

SATOJI HISAYUKI
OCHI SHOJI
NAGAKI KAZUO
OKADA TOSHIHIKO
OKUMOTO KOJI
IHARA YASUSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

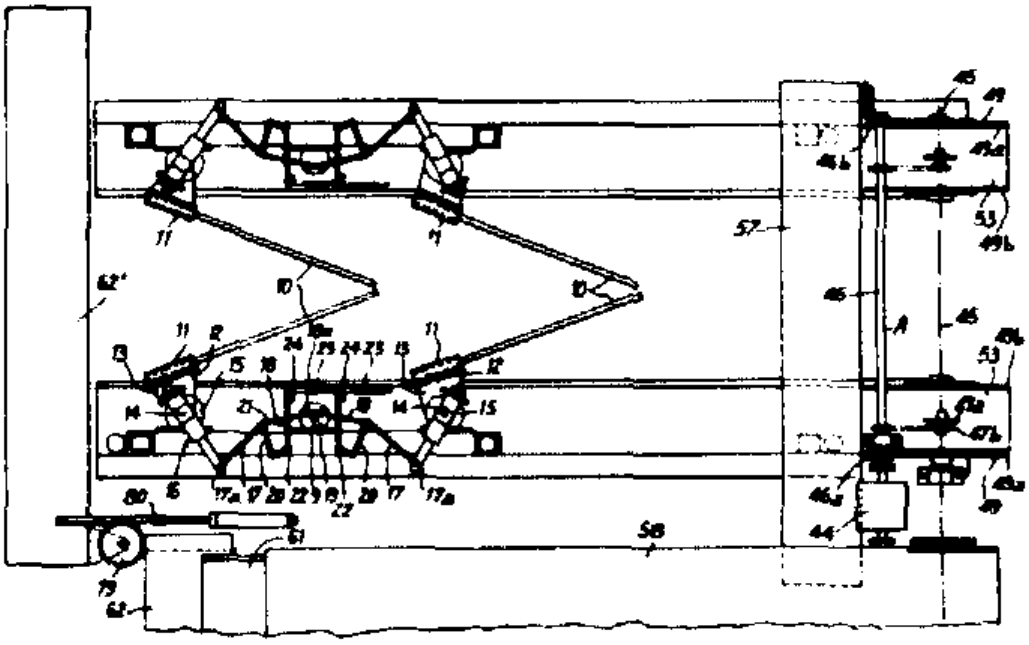
Family 360/667 - FAMPAT - ©Questel

Title

(FR2358091)

Grape harvester which straddles vine row - has beaters mounted on vertical shaft driven by variable length link connected eccentrically to rotating disc

Images



Publication data including kind & date

FR2358091 A1 1978-02-10 FR2358091

Abstract

(FR2358091)

The grape harvester has an inverted U-shaped frame which straddles a row of vines and carries pairs of beater assemblies.Each of the latter has rods mounted on a vertical shaft with a crank driven by a variable length connecting rod eccentrically coupled to a rotating disc.The connecting rod has two rods pivoted together at an angle which may be varied by a further rod pivoted to a lever held against an adjustable stop by a spring.The moving beaters cooperate with fixed counter beaters, the crop being delivered to an endless bucket conveyor for discharge onto a transverse belt conveyor.

Latest standardized assignees - inventors removed

CALVET PIERRE

Family 361/667 - FAMPAT - ©Questel

Title

(US1946542)

Cotton harvester

Images

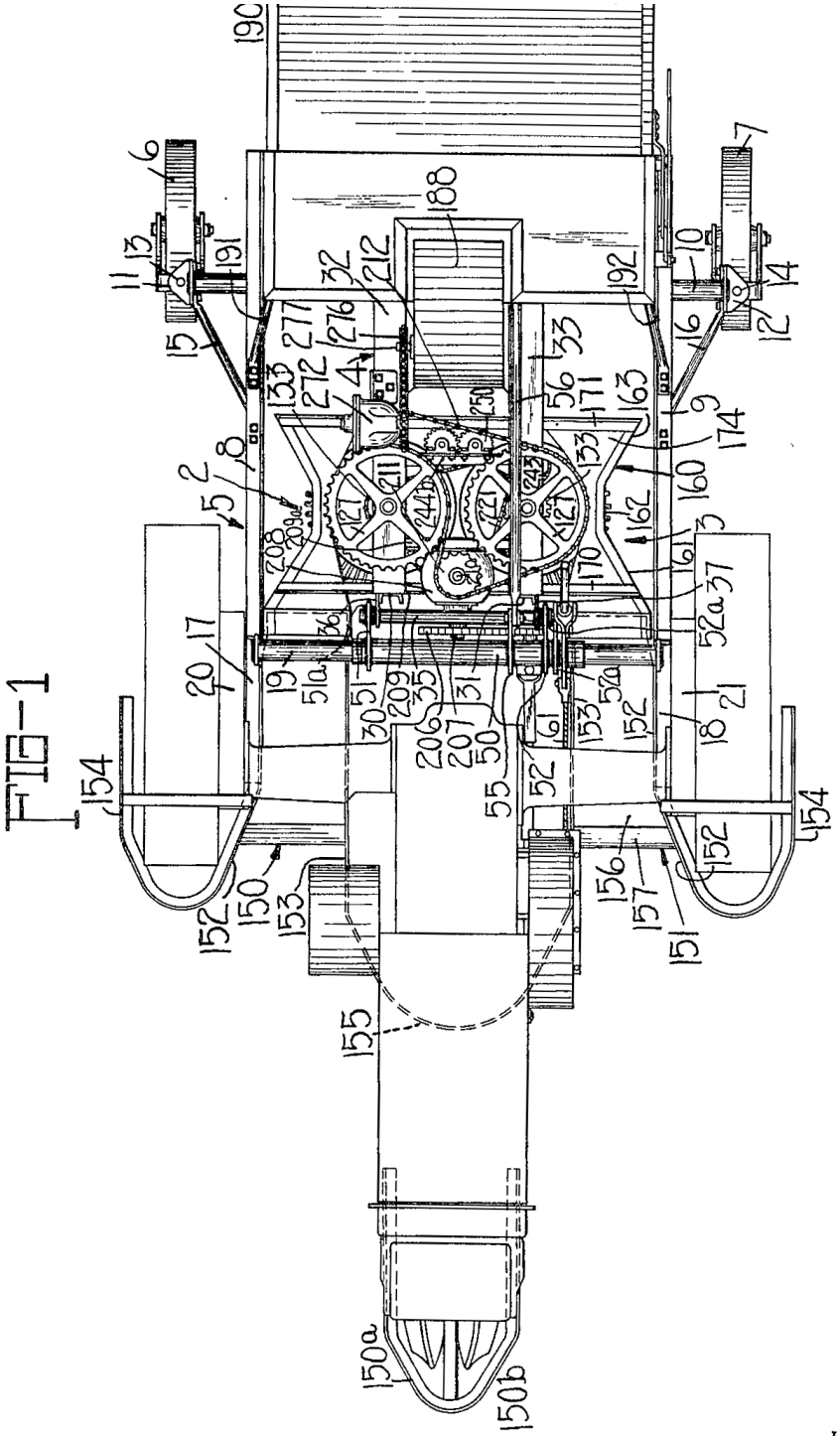


FIG-1

INVENTORS.
Leonard B. Neighbour
Frederick A. Thomann
BY Brown, Jackson, Boettcher & Dienner
ATTORNEYS.

Publication data including kind & date

US1946542	A	1934-02-13	US1946542

Inventors

NEIGHBOUR LEONARD B

THOMANN FREDERICK A

Latest standardized assignees - inventors removed

DEERE

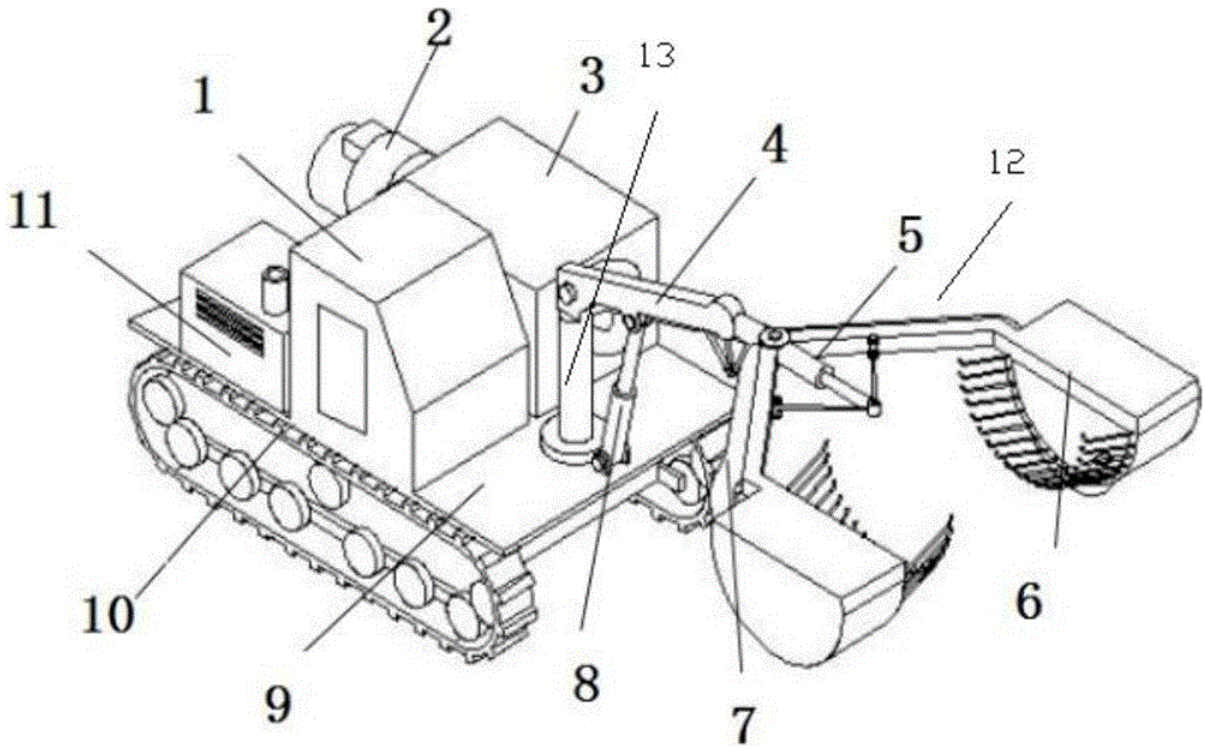
Family 362/667 - FAMPAT - ©Questel

Title

(CN205510917U)

Crawler -type oil tea fruit harvester

Images



Publication data including kind & date

CN205510917 U 2016-08-31 CN205510917U

Abstract

(CN205510917U)

The utility model discloses a crawler -type oil tea fruit harvester, which comprises a frame, the frame up end sets up driver's cabin, engine and large -scale receipts workbin, the rear end of large -scale receipts workbin sets up the fan, the bottom of frame sets up crawler -type traveling system, the front end of frame sets up the harvesting device.The utility model discloses advantages such as the?whole?structure compactness, reasonable in design, flexible operation, field work?quality are good, results are efficient, it is reliable to use, strong adaptability and durable.

Inventors

WU WENTIAN

CAO CHENGMAO

LI ZANSONG

WU CHONGYOU

LOU SHUAISHUAI

SUN YAN

Latest standardized assignees - inventors removed

ANHUI AGRICULTURAL UNIVERSITY

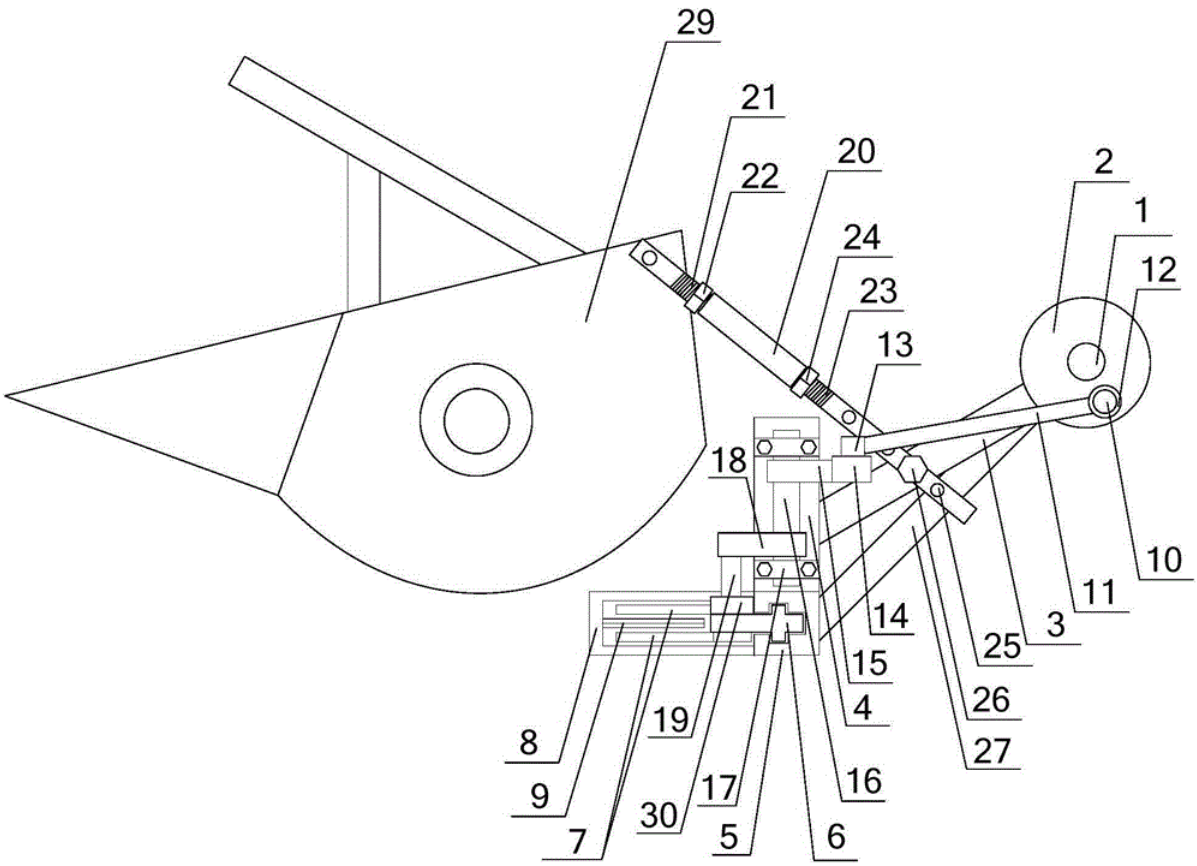
Family 363/667 - FAMPAT - ©Questel

Title

(CN104396434)

Lower cutter structure for combine harvesters

Images



Publication data including kind & date

CN104396434	A	2015-03-11	CN104396434
CN104396434	B	2016-10-05	CN104396434B

Abstract

(CN104396434B)

The invention provides a lower cutter structure for combine harvesters, which comprises a drive support shaft, a turnplate, a positioning rod, a lifting rod, a retractable pull rod mechanism, a cutter bar driving mechanism and a cutter bar mechanism, the drive support shaft is rotatably mounted at the front end of a harvester chassis support, and the turnplate is mounted on the head of the drive support shaft; the retractable pull rod mechanism comprises an upper screw rod, an upper locknut, a pull rod, a lower locknut, a lower screw rod and a lock bolt; the cutter bar driving mechanism comprises a connecting rod, a rectangular fixed base, two curved lock fasteners, a rotary shaft, an upper swing arm, a lower swing arm, a driving rod and a driving bearing; the cutter bar mechanism comprises a bar-shaped cutter bar holder and a bar-shaped cutter bar.The lower cutter structure can further cut straws cut by a header, so the load of a conveying chute and a thresher is reduced, straws are favorably returned into fields, and the lower cutter structure has a broad application prospect.

Inventors

ZHAO WEIQING

ZHU FENGNIAN

Latest standardized assignees - inventors removed

XINGHUA LIYUAN AGRICULTURAL EQUIPMENT MANUFACTURING

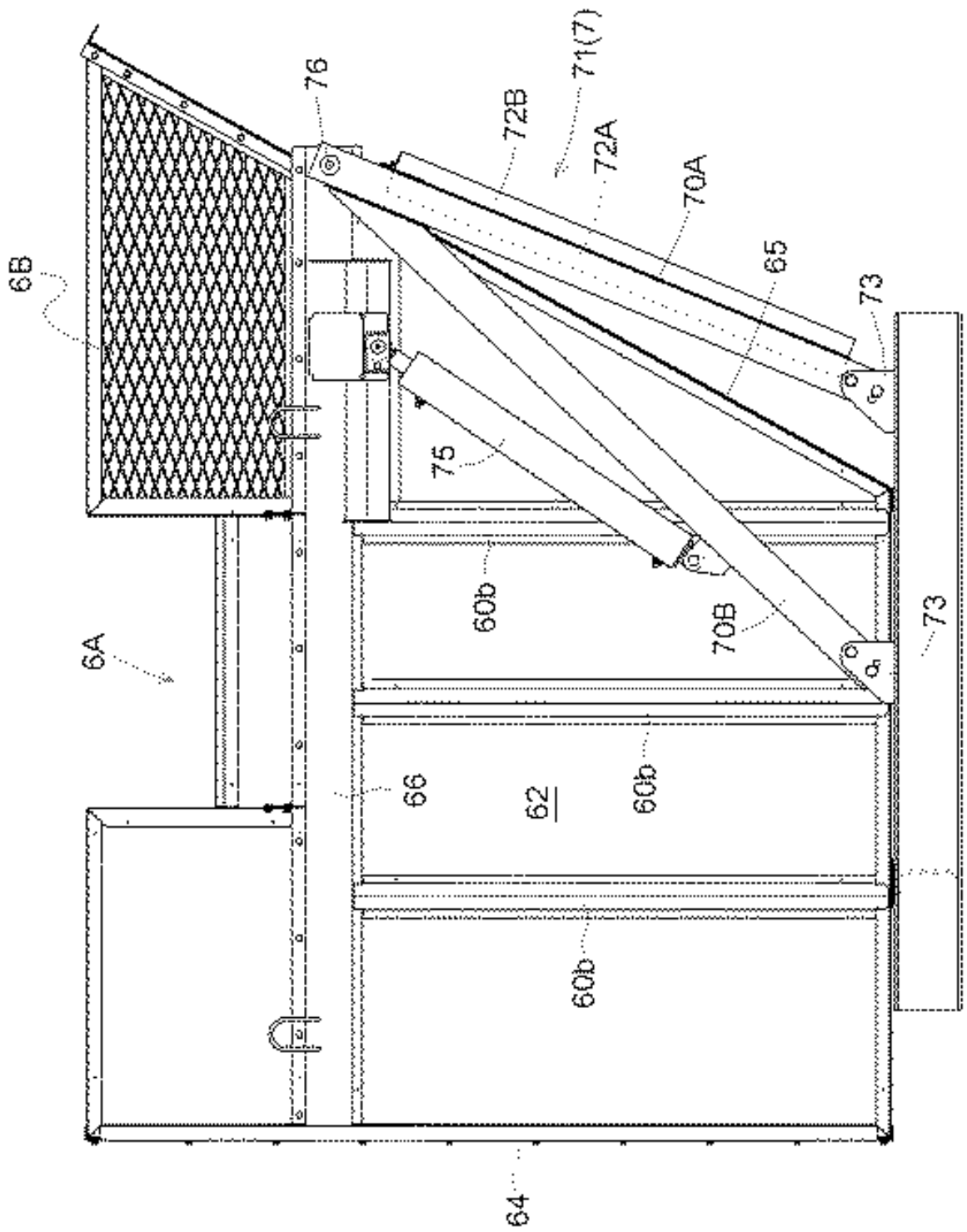
Family 364/667 - FAMPAT - ©Questel

Title

(JP2014198010)

Corn harvester

Images



Publication data including kind & date

JP2014198010 A 2014-10-23 JP2014198010

Abstract

(JP2014198010)
PROBLEM TO BE SOLVED: To allow a storage state of harvested corn crops in a storage tank to be checked in a simple structure.SOLUTION: A corn harvester comprises: a storage tank that can store crops discharged from a conveyance end of a feeder; and a driving part including a driving seat located on the front side of the storage tank.A see-through window part 6B through which the inside can be seen from the front side is formed in a front wall part 62 constituting a front face of the storage tank.

Inventors

MINAMI TERUO
Yusuke Tateno
Yoshida Yasaku
MATSUSHITA HIROAKI
TABE AYA
Takeshi Kumatori

Latest standardized assignees - inventors removed

KUBOTA

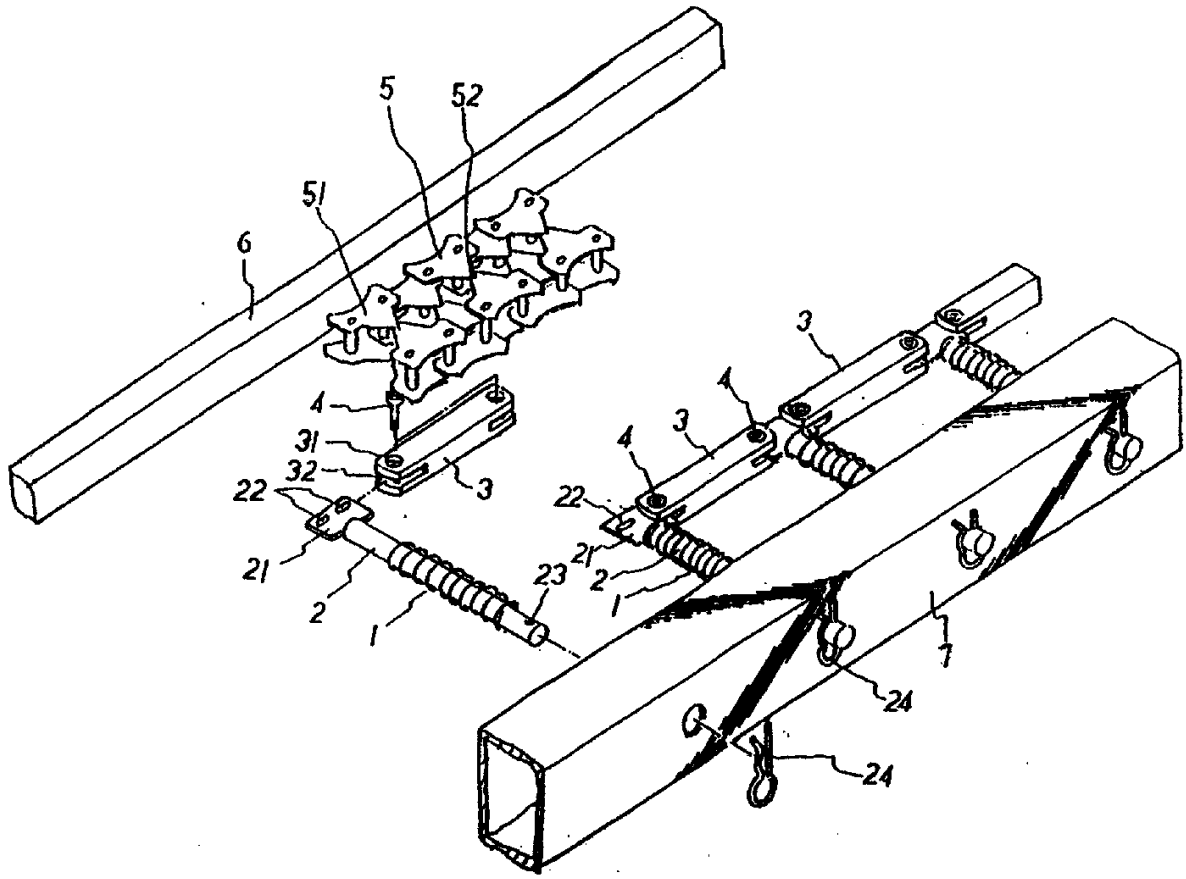
Family 365/667 - FAMPAT - ©Questel

Title

(CN2749241U)

Peanut seedling transferring and clamping device of peanut harvester

Images



Publication data including kind & date

CN2749241	Y	2006-01-04	CN2749241U

Abstract

(CN2749241U)

The utility model relates to a peanut seedling transferring and clamping device of a peanut harvester, which is provided with a transferring chain, a fixed guide rail, a movable guide rail, a plurality of supporting bars, a main frame, a plurality of compression springs, a plurality of pin shafts and a one-way spacing body, wherein two ends of each guide rail unit of the movable guide rail are both provided with grooves and shaft mounting holes, and the single row of the groove is provided with an opening; a plate on the front end of each supporting bar is respectively arranged in the grooves of two adjacent ends of the guide rail units, and the plate on the front end of each supporting bar is provided with a pair of long through holes; two adjacent ends of two adjacent guide rail units respectively pass through a shaft mounting hole and a long through hole through a pin shaft to be hinged with the plate on the front end of the corresponding supporting bar, and each pin shaft is positioned by each positioning body.Even if each guide rail unit tilts greatly, the plate can not be disengaged

from the supporting bar connected with the plate.Thus, the transferring chain always has sufficient clamping space and clamping force, which ensures the smooth transference of peanut seedlings, and the operational reliability of the utility model is increased.

Inventors

LÜ SHUIREN

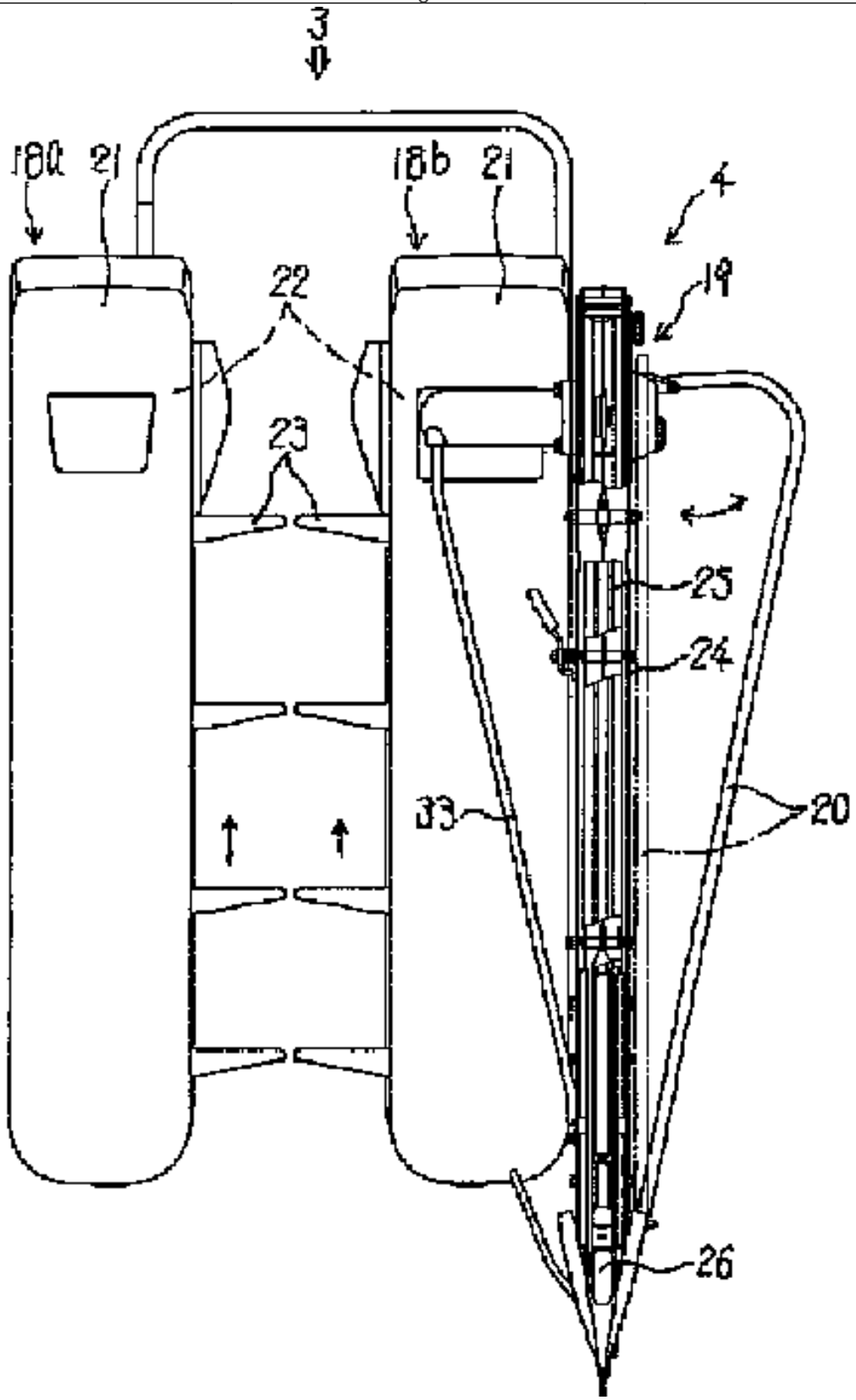
Family 366/667 - FAMPAT - ©Questel

Title

(JP11178426)

Grain culm raising apparatus for combine harvester or the like

Images



Publication data including kind & date

JPH11178426 A 1999-07-06 JP11178426

Abstract

(JP11178426)

PROBLEM TO BE SOLVED: To provide the subject apparatus capable of surely separating standing grain culms to be reaped from standing grain culms not to be cut at an unreaped side, by installing a separating lever at the outside of an auxiliary raising apparatus rotatably to the unreaped culm side.SOLUTION: In a reaping machine 3 such as a combine harvester comprising raising apparatuses 18a and 18b at both right and left sides obtained by equipping a raising chain 22 to be rotated and driven with plural raising lugs 23, an auxiliary raising chain 19 obtained by equipping an auxiliary raising chain 25 to be rotated and driven with plural auxiliary raising lugs 26 at the outside of the raising apparatus 18b at the

unreaped culm side, a separating lever 20 is installed rotatably to the unreaped culm side at the outside of the auxiliary raising apparatus 19.By the constitution, standing grain culms not to be reaped at the unreaped side are separated by both the separating lever 20 and the auxiliary raising apparatus 19 so that even in the case of bad standing grain culms in a lodged state can be surely separated and the standing grain culms not to be reaped can be surely separated from the standing grain culms to be reaped.

Inventors

ANAMI MASAYUKI

MORIMOTO HIROYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

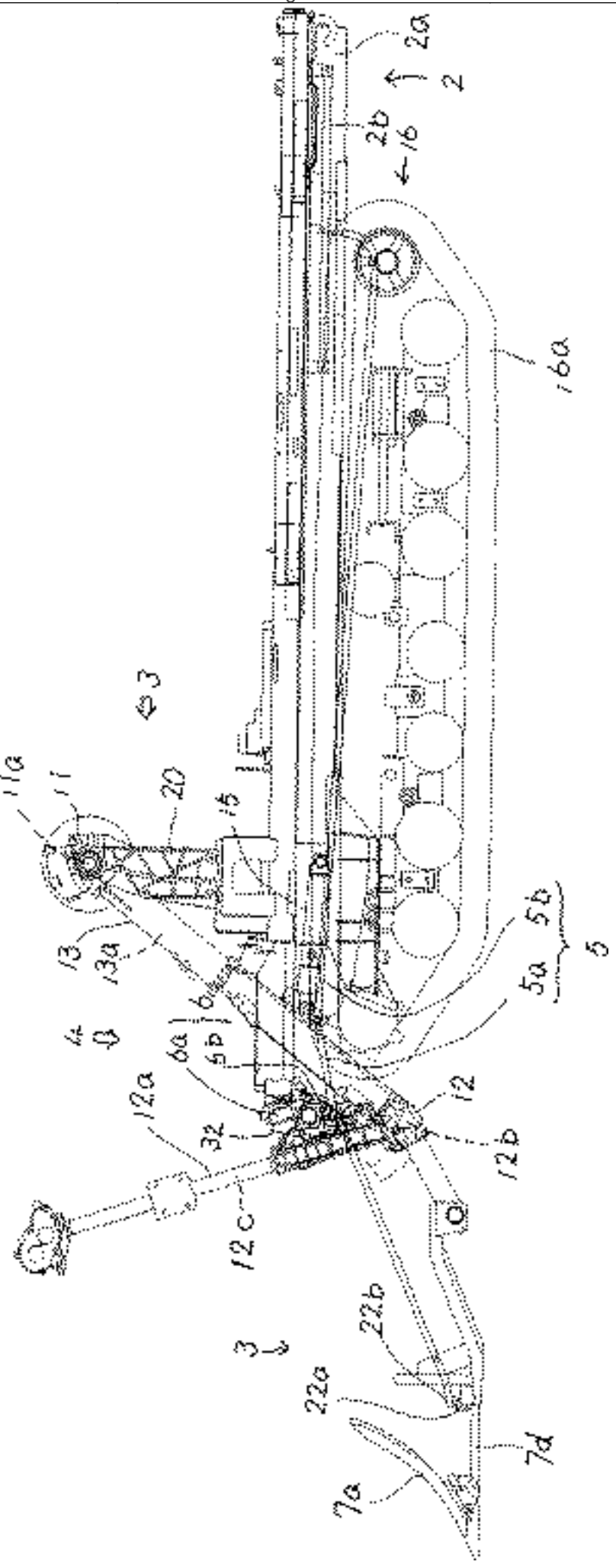
Family 367/667 - FAMPAT - ©Questel

Title

(JP2004024137)

Narrow guide mechanism for combine harvester

Images


2a
2
2b
16
16a
3
11a
11
20
15
13
13a
4
9
6
6a
6b
5a
5b
5
12a
32
12
12b
12c
3
22b
22a
7d
7a

Publication data including kind & date

JP2004024137 A 2004-01-29 JP2004024137

Abstract

(JP2004024137)
PROBLEM TO BE SOLVED: To provide a narrow guide functioning to separate grain culms at a reaper, overhung left and right and set freely containably through making use of a space and designed not to interfere with grain culms under conveyance.
SOLUTION: A narrow guiding mechanism is such one that a means 6 for making an outside opening/closing drive of the narrow guide 5 functioning to separate grain culms to be reaped is mounted in front of a left side traveling crawler 16a and on the mount frame of a transverse transmission case 12a set up projectedly upward on the left side of a lower transmission case 12 functioning to gear the reaper 3, wherein the lower transmission case 12 and the transverse transmission case 12a are set up at a grain culm-conveying section.
COPYRIGHT: (C)2004,JPO

Inventors

IIIZUMI KIYOSHI
KUSUME KOJI

Latest standardized assignees - inventors removed

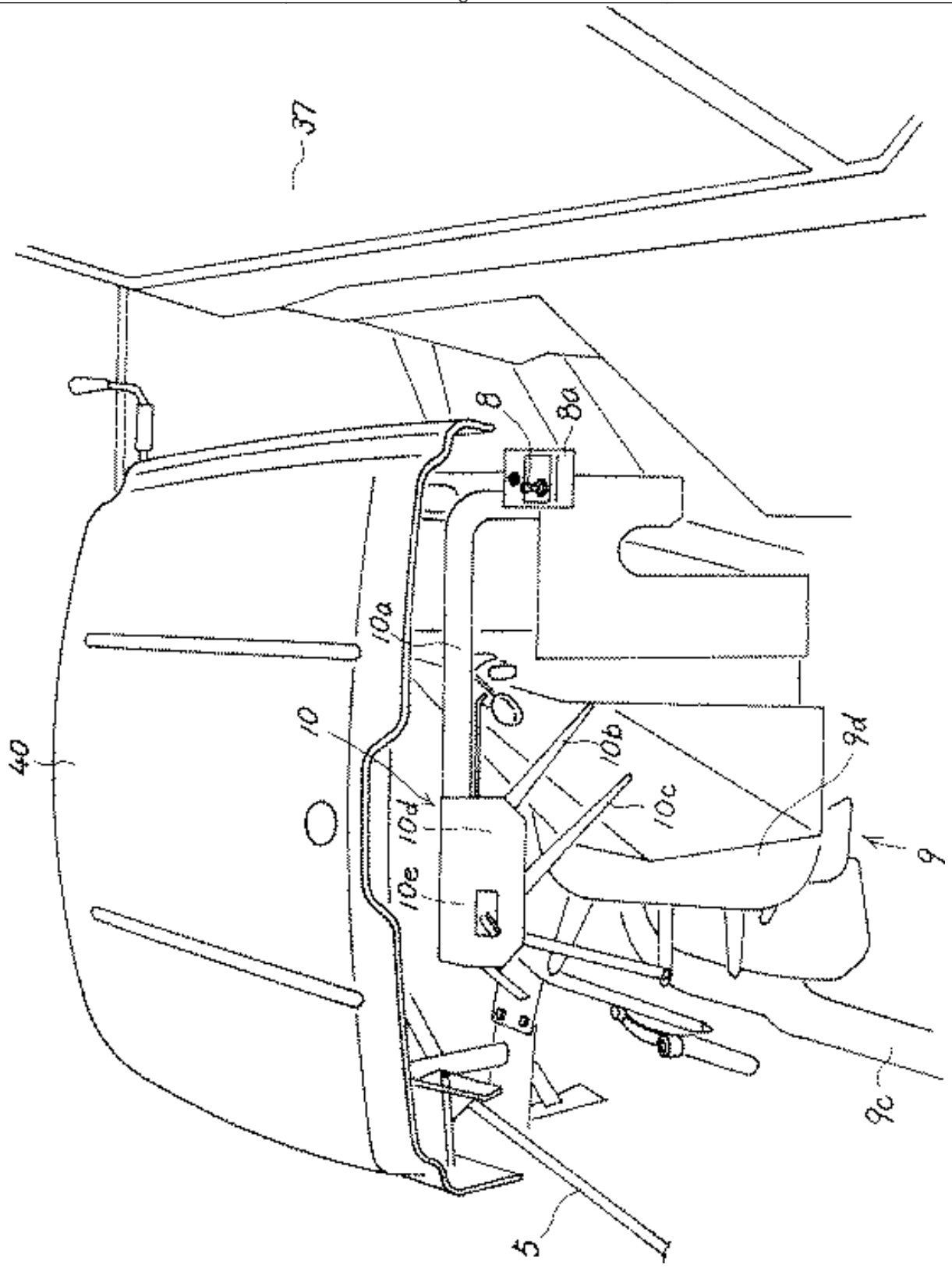
ISEKI AGRICULTURAL MACHINERY

Family 368/667 - FAMPAT - ©Questel

Title

(JP2004065168)
Narrow guiding device of combine harvester

Images



Publication data including kind & date

JP2004065168 A 2004-03-04 JP2004065168

Abstract

(JP2004065168)
PROBLEM TO BE SOLVED: To provide a narrow guiding device capable of operating a remote control means for carrying out starting and stopping operation of a drive means for driving a narrow guide for separating grain culms so as to open and close to the left and right as well as the narrow guide while a driver visually checks in seating state on a drive seat. SOLUTION: The remote control means 8 for carrying out starting and stopping operation of drive means for driving the narrow guide for separating grain culms so as to open and close to left and right is arranged in the upper part on left side of a grain culms-transferring device 9 for transferring reaped grain culms to the backward upper part in the vicinity of the drive

seat 37.Further, the remote control means 8 is installed in a mounting frame 10a on which a threshing depth detector 10 for detecting threshing depth of grain culms so as to visually check the remote control means 8 and opening and closing of the narrow guide in a state in which the driver is seated on the drive seat is mounted.

COPYRIGHT: (C)2004,JPO

Inventors

IIIZUMI KIYOSHI

KUSUME KOJI

UCHIDA HIROYA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

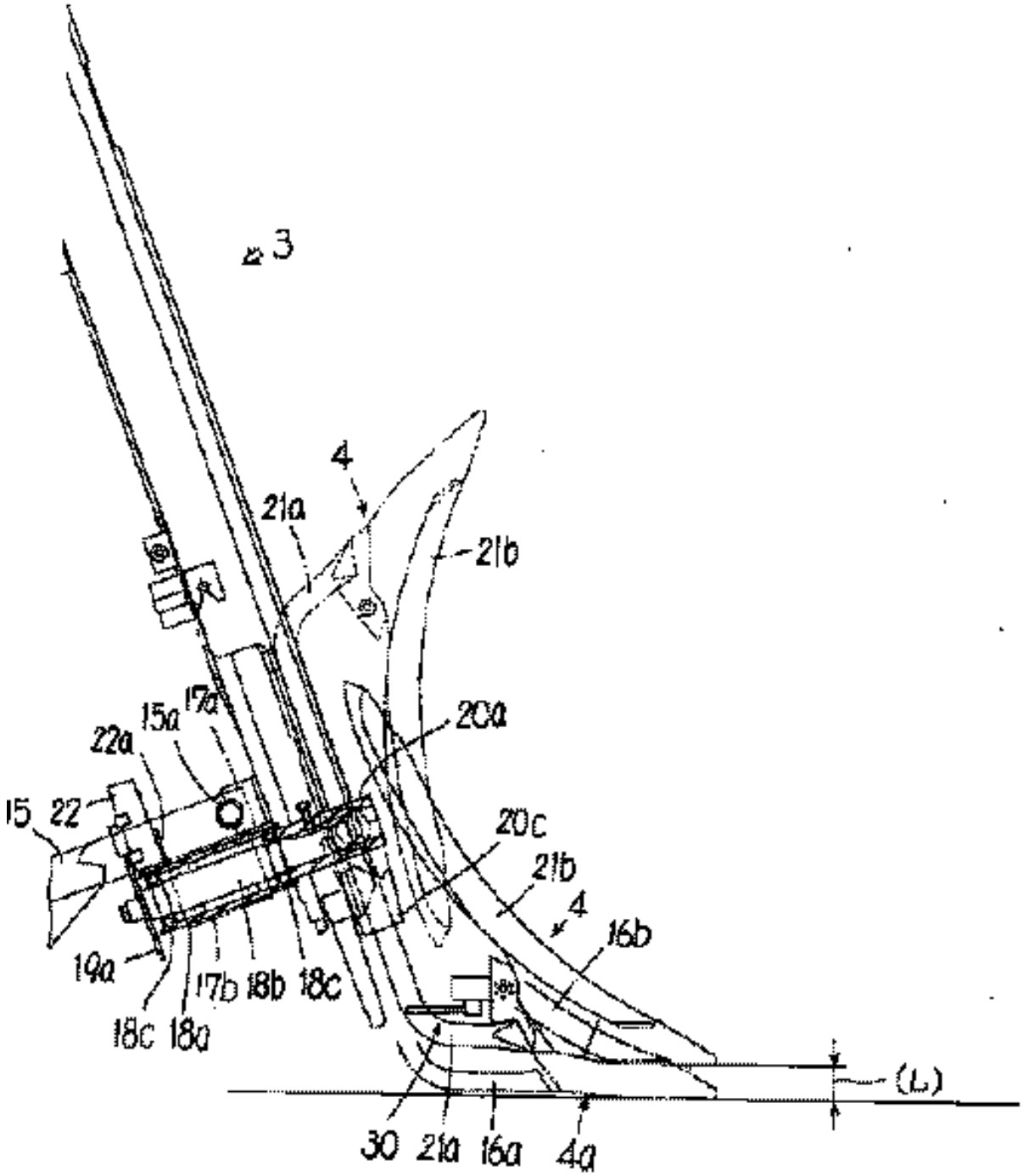
Family 369/667 - FAMPAT - ©Questel

Title

(JP2002101734)

Apparatus for separating grain culm of combine harvester

Images



Publication data including kind & date

JP2002101734 A 2002-04-09 JP2002101734

Abstract

(JP2002101734)

PROBLEM TO BE SOLVED: To prevent deformation and fracture of a right grass divider when turning to the right during operations to harvest stand grain culms by reaping in clockwise rotation.SOLUTION: This apparatus for separating grain culms of a combine harvester is obtained by locating and installing the right grass divider 4 at the right end provided at the front end of a reaper 3 and capable of separating the stand grain culms in an upper part of plural grass dividers 4 on the left side and providing the right grass divider 4 so as to freely vertically rotate or freely vertically move.

Inventors

SATOJI HISAYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

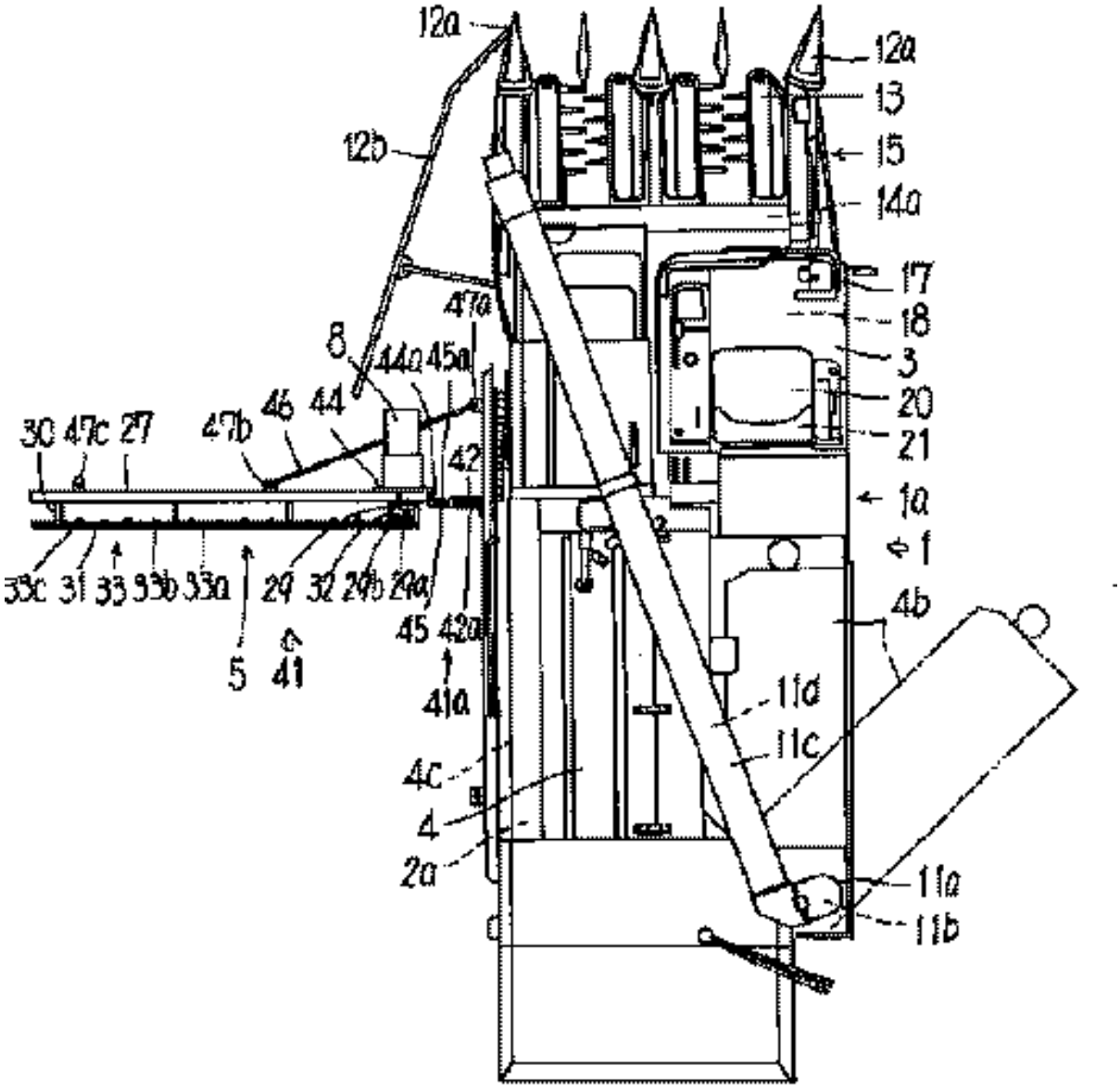
Family 370/667 - FAMPAT - ©Questel

Title

(JP2001211722)

Dew remover for combined harvester

Images



Publication data including kind & date

JP2001211722 A 2001-08-07 JP2001211722

Abstract

(JP2001211722)

PROBLEM TO BE SOLVED: To solve problems that when a harvesting operation is carried out in a retreated position of the dew remover, waste straw and dust falling from reaped grain culm during threshing by a thresher are accumulated on the dew remover and the dew remover is brought into contact with an obstacle and damaged during traveling on the road by the projection of the retreated dew remover to the outside from the thresher.SOLUTION: In a combine harvester equipped with the thresher 4 which is placed on a traveling undercarriage and threshes reaped grain culms and the dew remover 5 for removing dew attached to unreaped standing grain culms, when the dew remover in not operated, the dew remover 5 can be freely retreated below an input funnel 6 for guiding reaped grain culms to the thresher 4 and the dew remover is retreated by sliding and moving the dew remover.

Inventors

TAKEUCHI KENICHIRO
IMAMURA HIDEKAZU
ICHIMARU TOMOYUKI
MIZUSHIMA ATSUSHI
TOYODA KAZUO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

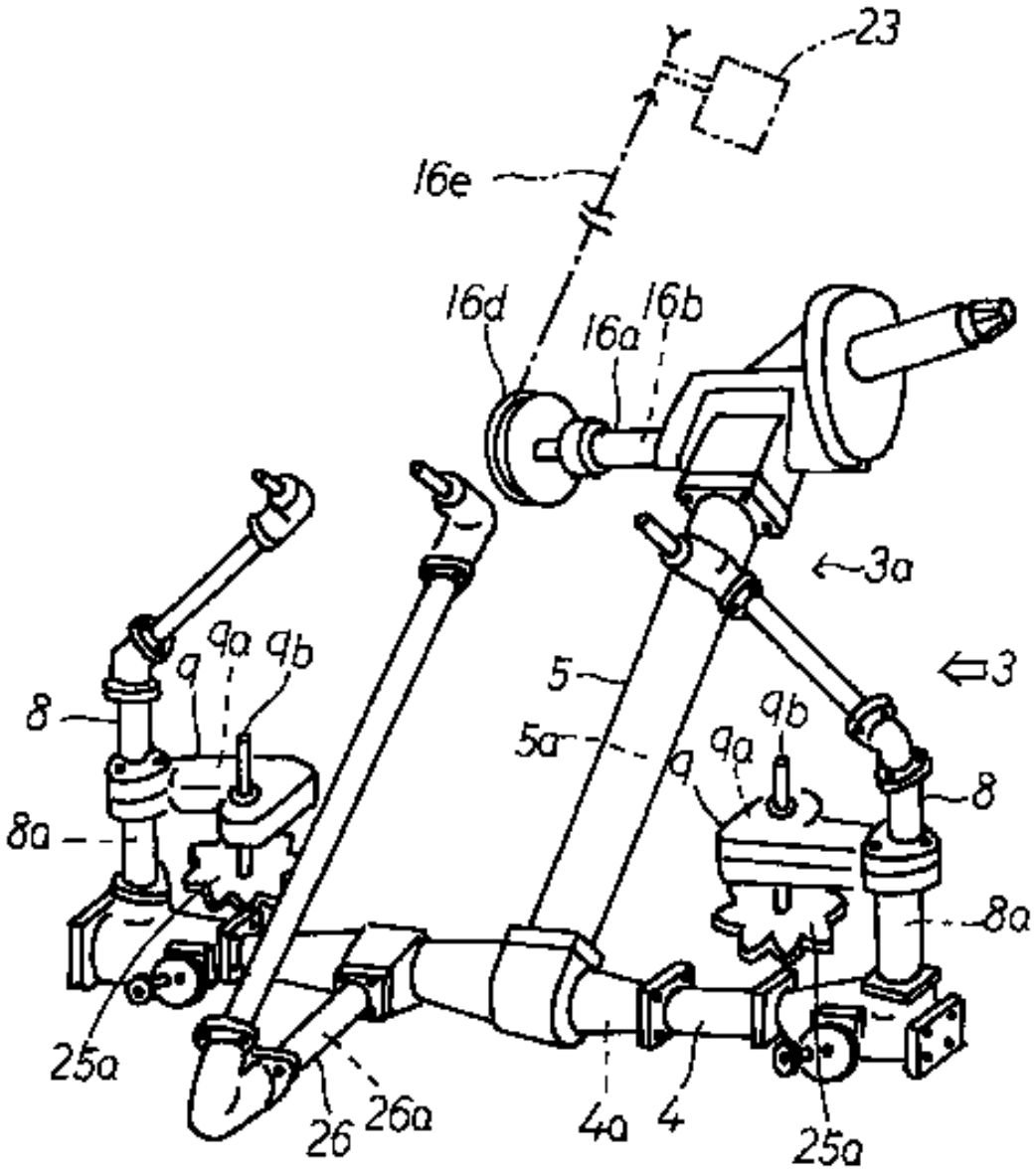
Family 371/667 - FAMPAT - ©Questel

Title

(JP2004000072)

Reaping transmission gear of combine harvester

Images



Publication data including kind & date

JP2004000072 A 2004-01-08 JP2004000072

Abstract

(JP2004000072)

PROBLEM TO BE SOLVED: To overcome the following problem: straw waste, mud, and the like, are accumulated on the upside part of a main frame, provided in the lower part of a reaper, and resist the transfer of grain culms, because the bad discharge of the straw waste, the mud, and the like, is caused, by providing the main frame with a pull-and-raise-up drive case which is raised upward so as to rotate and drive a pull-and-raise-up device for pulling and raising up the grain culms, a root drive case for rotating and driving a root rake-in transfer device for raking in the grain culms, and the like.

SOLUTION: A lower part of the reaper 3 ahead of a traveling chassis 2 is provided with the horizontal main frame 4 which is internally mounted with a transmission mechanism 4a, and the respective pull-and-raise-up drive cases 8 which are provided in the front parts of both the right and left ends of the main frame 4 and raised upward so as to rotate and drive the pull-and-raise-up devices 7 for pulling and raising up the grain culms.A vertical intermediate part of each of the cases 8 is provided with each of the root driving cases 9 which are internally mounted with transmission mechanisms 9a for rotating and driving the root rake-in transfer devices 10 on both the right and left sides.

COPYRIGHT: (C)2004,JPO

Inventors

OKUMOTO KOJI
ANAMI MASAYUKI
SAKAMOTO NORIYUKI
TAKEKATA TAKESHI
KIYASU KAZUHARU
SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

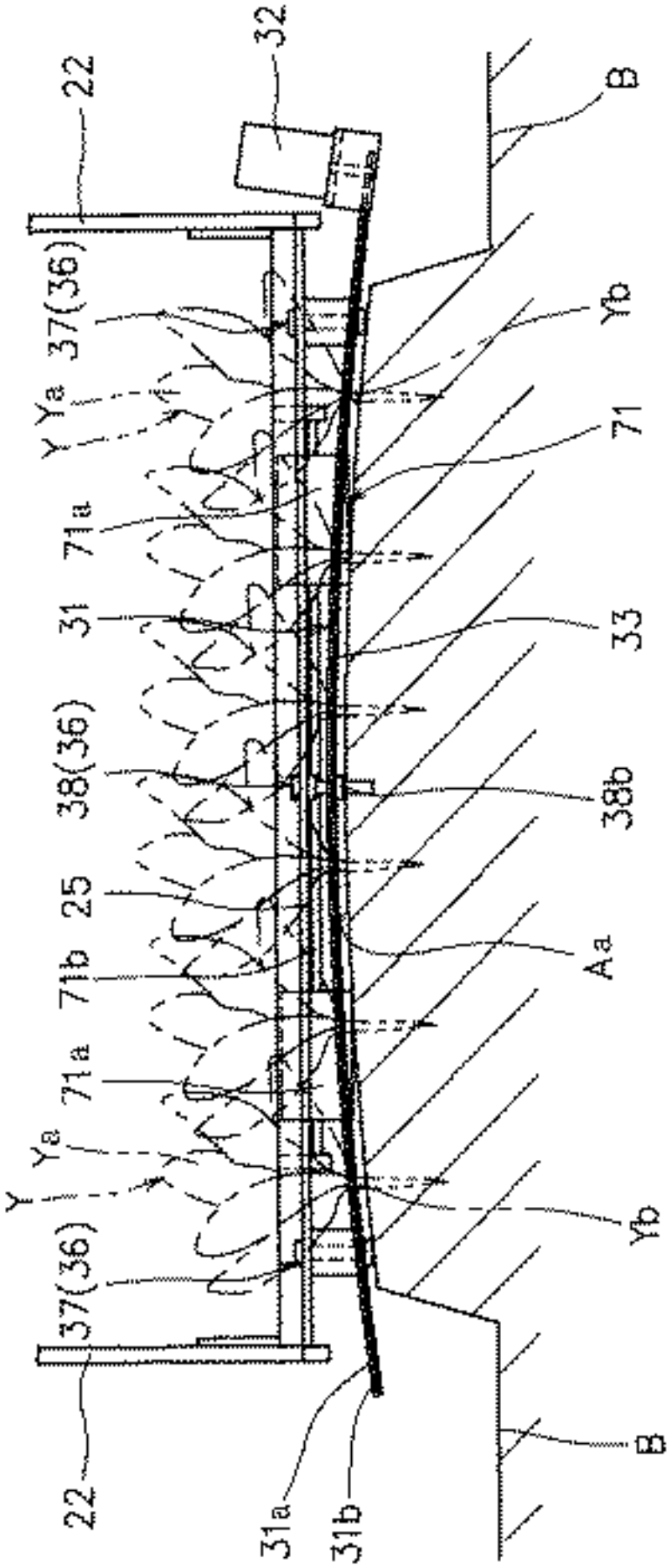
Family 372/667 - FAMPAT - ©Questel

Title

(JP2010259398)

Leaf vegetable harvester

Images


22
32
B
37(36)
Ya
Y
Yb
71a
71
31
33
38(36)
38b
25
Aa
71b
71a
Ya
Y
Yb
37(36)
22
31a
31b
B

Publication data including kind & date

JP2010259398 A 2010-11-18 JP2010259398

Abstract

(JP2010259398)

PROBLEM TO BE SOLVED: To solve the problems that when harvesting only the leaf parts by cutting the stem parts of the leaf vegetables cultivated on a ridge, each leaf part is not harvested well because each of the leaf parts is unstabilized when the stem parts are cut, and the cutting heights of the leaf vegetables in the ridge width direction are different when the upper surface of the ridge is bent.

SOLUTION: The leaf vegetable harvester is obtained by installing the cutting blade 31 capable of cutting each stem part of each leaf vegetable in the right and left cultivated on the ridge A at the front end position, a conveyor belt 41 for conveying each of the leaf parts cut by the cutting blade 31 by allowing the leaf parts to be put thereon, and a bringing up device 5 for bringing up each of the leaf parts cut by the cutting blade 31 at the front end part of the conveyor belt, in a machine frame 2 installed in a traveling apparatus 1.A cutting blade in a thin plate shape, capable of being bent into a bent shape in the cutting blade length direction is used as the cutting blade 31 to enable the stem part of each of the leaf vegetables positioned at the right and left of the ridge to be cut at the uniform height even if the upper surface of the ridge is bent by bending the cutting blade 31 in a shape according to the bent shape of the upper surface Aa of the ridge by cutting blade-bending means 36.

COPYRIGHT: (C)2011,JPO&INPIT

Inventors

NISHIZAWA JUNICHI

NISHIZAWA HIDENOBU

Latest standardized assignees - inventors removed

NISHIZAWA

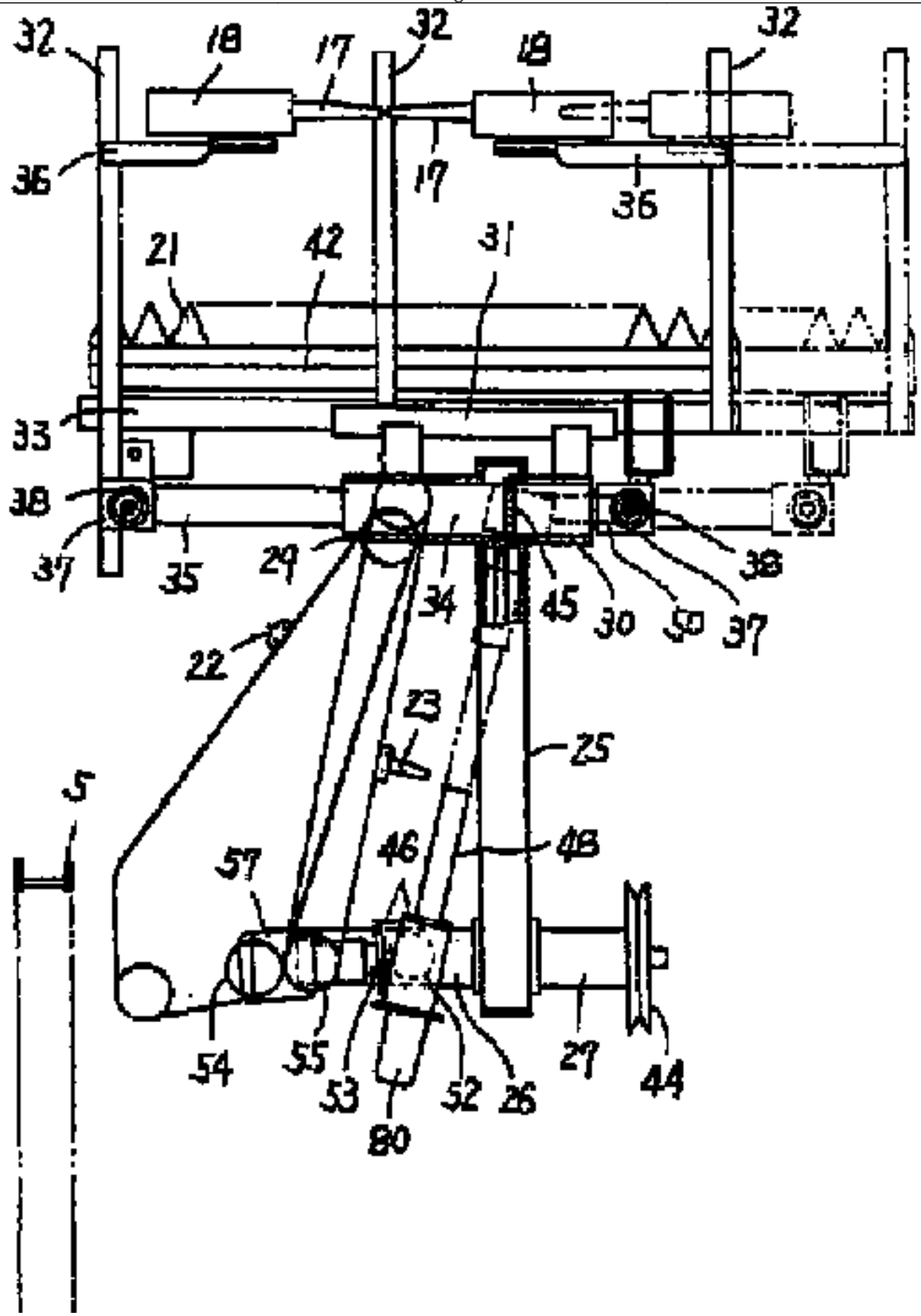
Family 373/667 - FAMPAT - ©Questel

Title

(JP10098928)

Combine harvester

Images



Publication data including kind & date

JPH1098928	A	1998-04-21	JP10098928
JP2791881	B2	1998-08-27	JP2791881

Abstract

(JP2791881)

PROBLEM TO BE SOLVED: To safely and surely protect a reaping transmission shaft for transmitting driving power to a reaping part.SOLUTION: A grain culm pull-up member 18 and a reaping blade 21 connected to the front part of a traveling machine body freely vertically movably and swingably around a horizontal direction horizontal shaft 26 through a reaping main frame 25 are constituted freely relatively slidably and movably in a horizontal direction to the reaping main frame 25 and a reaping input shaft is disposed on the same axial center as the horizontal direction horizontal shaft 26.The reaping

transmission shaft for transmitting the driving power from the reaping input shaft to the pull-up member 18 and the reaping blade 21 is freely extendibly and contractibly and freely bendably attached and the cutting transmission shaft is disposed on the upper part of the reaping main frame 25.

Inventors

OKAZAKI MASAHARU
MUKUSHIRO HIROSHI
YABUKI MAKOTO

Latest standardized assignees - inventors removed

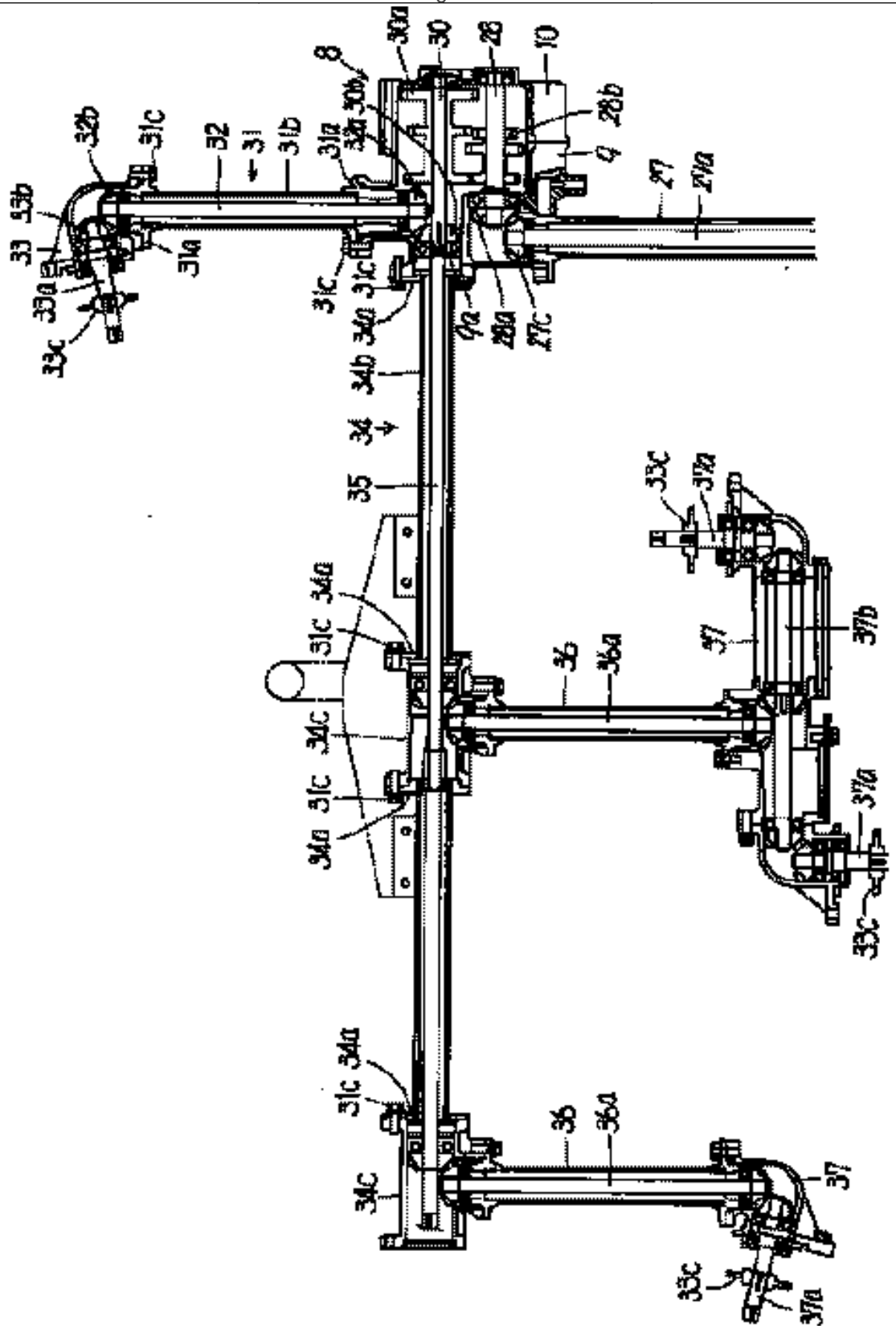
SEIREI KOGYO

Family 374/667 - FAMPAT - ©Questel

Title

(JP2002017139)
Raising device of combine harvester

Images



Publication data including kind & date

JP2002017139 A 2002-01-22 JP2002017139

Abstract

(JP2002017139)

PROBLEM TO BE SOLVED: To provide a raising device of a combine harvester, which facilitates the assembly and disassembly of a speed change clutch gear pivotally supporting a lower speed change shaft and a speed change gear pivotally supporting an upper speed change shaft, wherein the gears are disposed in a speed change gear case for changing the speed of the raising device.SOLUTION: One side end of a lower speed change shaft 28 pivotally supporting a speed change clutch gear 28b disposed in a speed change gear case 9 for changing the rotation speeds of left, right and central raising devices and one side end of an upper speed change shaft 30 supporting a speed change gear 30a disposed

in the case 9 are pivotally supported on a speed change gear case cover 10 detachably disposed on the outside surface of the speed change gear case 9.The upper speed change shaft 30 is rotatably connected to a lateral transmission shaft 35 disposed in the lateral transmission frame 34 for rotating the right and central raising devices.

Inventors

IIIZUMI KIYOSHI

MIYAKE TATSUYA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

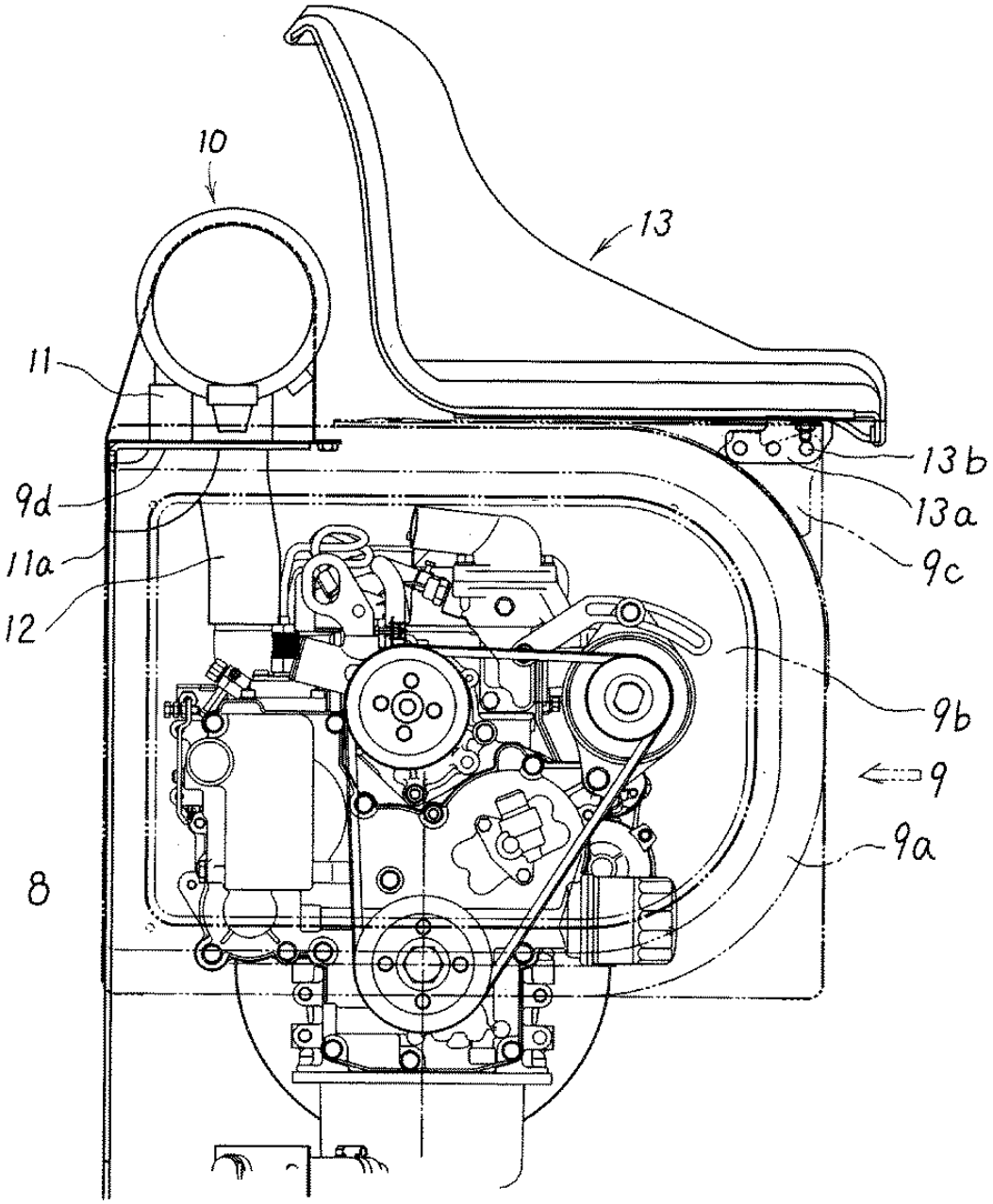
Family 375/667 - FAMPAT - ©Questel

Title

(JP2006061121)

Air cleaner of combine harvester

Images



Publication data including kind & date

JP2006061121	A	2006-03-09	JP2006061121
JP4622391			

B2 2011-02-02 JP4622391

Abstract

(JP4622391)

PROBLEM TO BE SOLVED: To facilitate the maintenance of an air cleaner of an engine, and to prevent the sucking of waste straws, dust and the like.

SOLUTION: An engine cover 9 is installed in the upper side of the engine 8, and a driver's seat 13 is installed in the upper part of the engine cover 9.The air cleaner 10 is installed in the upper side of the engine cover 9 at the rear part of the driver's seat 13, and input and output-side hoses 11, 12 for sucking open air are parallelly inserted downward to an engine room 9a.The input hose 11 is bent in the engine room 9a, and an air-sucking port 11a part is installed so as to be extended to suck the open air at the rear side of the engine room 9a.An air-sucking chamber is formed at the air-sucking port 11a part.The air cleaner 10 is supported by a cleaner cover 10a.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

SATOJI HISAYUKI
GOSHIMA KAZUMI
UEMOTO ICHIAKI
IZUMI KOJI
IWAMOTO HIROSHI
TSUJI KENTARO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

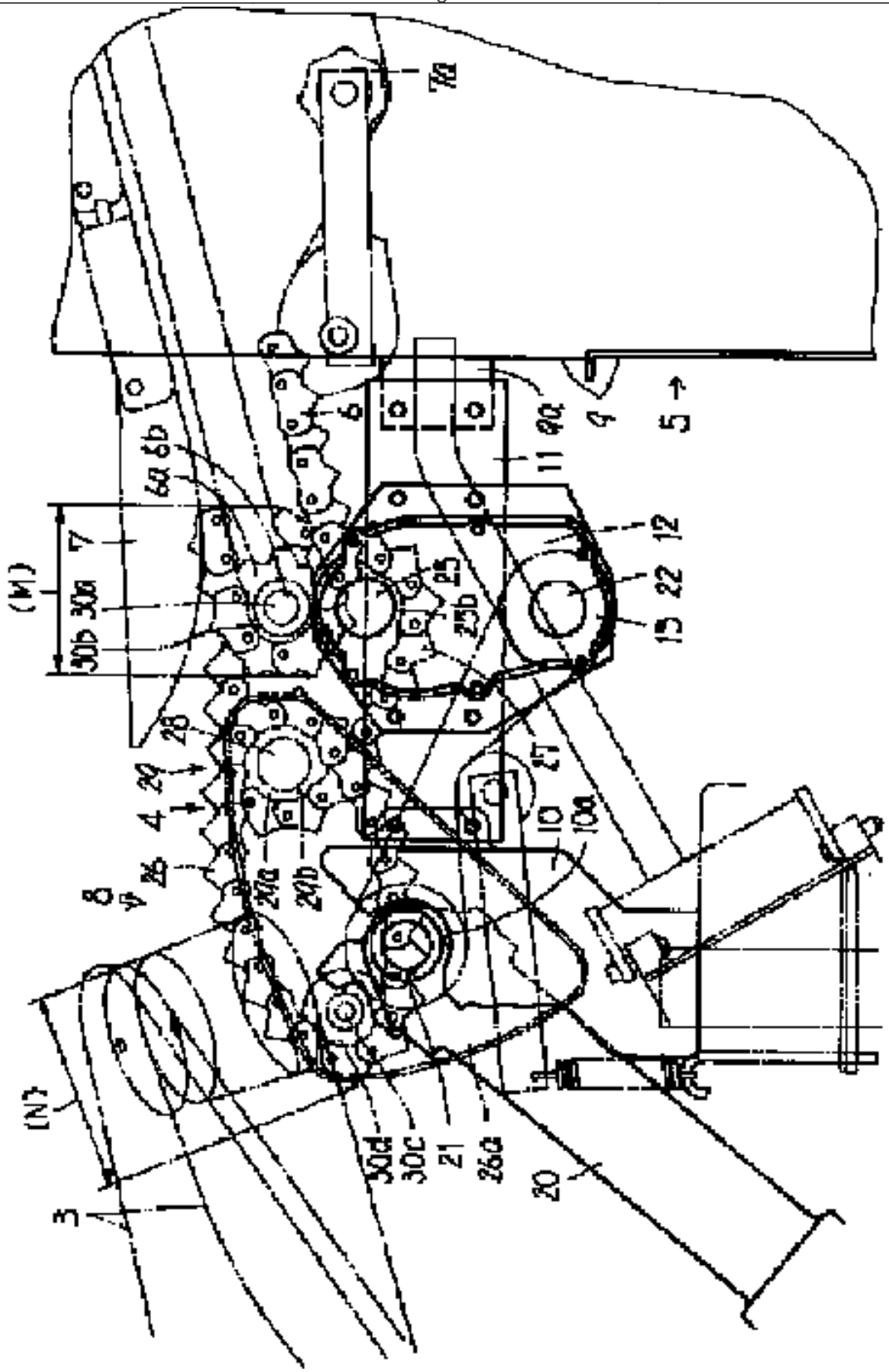
Family 376/667 - FAMPAT - ©Questel

Title

(JP2001037315)

Grain culm transportation apparatus for combine harvester

Images



Publication data including kind & date

JP2001037315 A 2001-02-13 JP2001037315

Abstract

(JP2001037315)

PROBLEM TO BE SOLVED: To provide a grain culm transportation apparatus for a combined harvester capable of increasing the strength of a supporting part for holding a reaping machine and preventing the reaping machine from shaking.SOLUTION: This grain culm transportation apparatus is equipped with a supporting metal 10 for holding the rotation support of vertical rotation of a reaping machine installed at the front of a thresher 5 for receiving the feed of reaped grain culms from an auxiliary transportation apparatus 4 for transporting reaped grain culms, transferring the grain culms from a feed chain 6 to a nipping lever 7 and threshing the grain culms during the nipping and transportation and a

connection plate 11 for connecting the supporting metal 10 to a front machine wall 9 of the thresher 5.The connection plate 11 is equipped with a transmission case 13 having a built-in transmission mechanism 12 for rotating and driving the auxiliary transportation apparatus 4.

Inventors

SATOJI HISAYUKI
NAGAKI KAZUO
IHARA YASUSHI
OCHI SHOJI
OKADA TOSHIHIKO
OKUMOTO KOJI

Latest standardized assignees - inventors removed

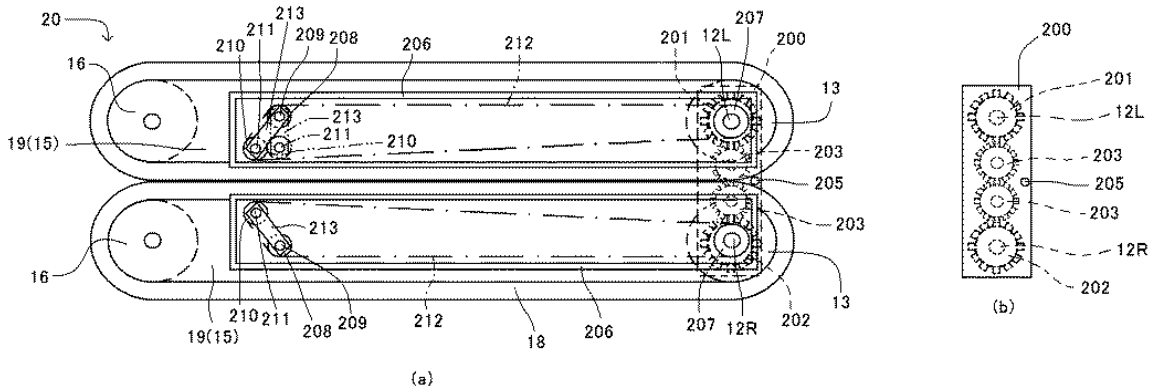
ISEKI AGRICULTURAL MACHINERY

Family 377/667 - FAMPAT - ©Questel

Title

(JP2014195434)
Crop harvester

Images



Publication data including kind & date

JP2014195434 A 2014-10-16 JP2014195434

Abstract

(JP2014195434)

PROBLEM TO BE SOLVED: To provide a crop harvester in which a transmission passage to a pulling conveyor, pull-out devices and a shoulder aligner is simply constituted, and which is favorable in maintenance and light in weight.SOLUTION: In a working machine which comprises pull-out devices 41, 63 for pulling out the foliage of crops to a front side of a machine body, a pulling conveyor 20 for gripping and pulling the foliage of the crops, and a shoulder aligner 51 for aligning cutting heights of the foliage of the crops, an input shaft 12L and an output shaft 12R for supplying a drive force to the pulling conveyor 20 are arranged, a first transmission case 200 for transmitting the drive force to the output shaft 12R from the input shaft 12L is arranged, and second transmission cases 206, 206 for transmitting the drive forces to the pull-out devices 41, 63 and the shoulder aligner 51 are arranged at the input shaft 12L and the output shaft 12R, respectively.

Inventors

Masami Muramachi
TAKAGI SHINGO
Hideaki Kurose
YUMITATSU TAKESHI

Latest standardized assignees - inventors removed

ISEKI

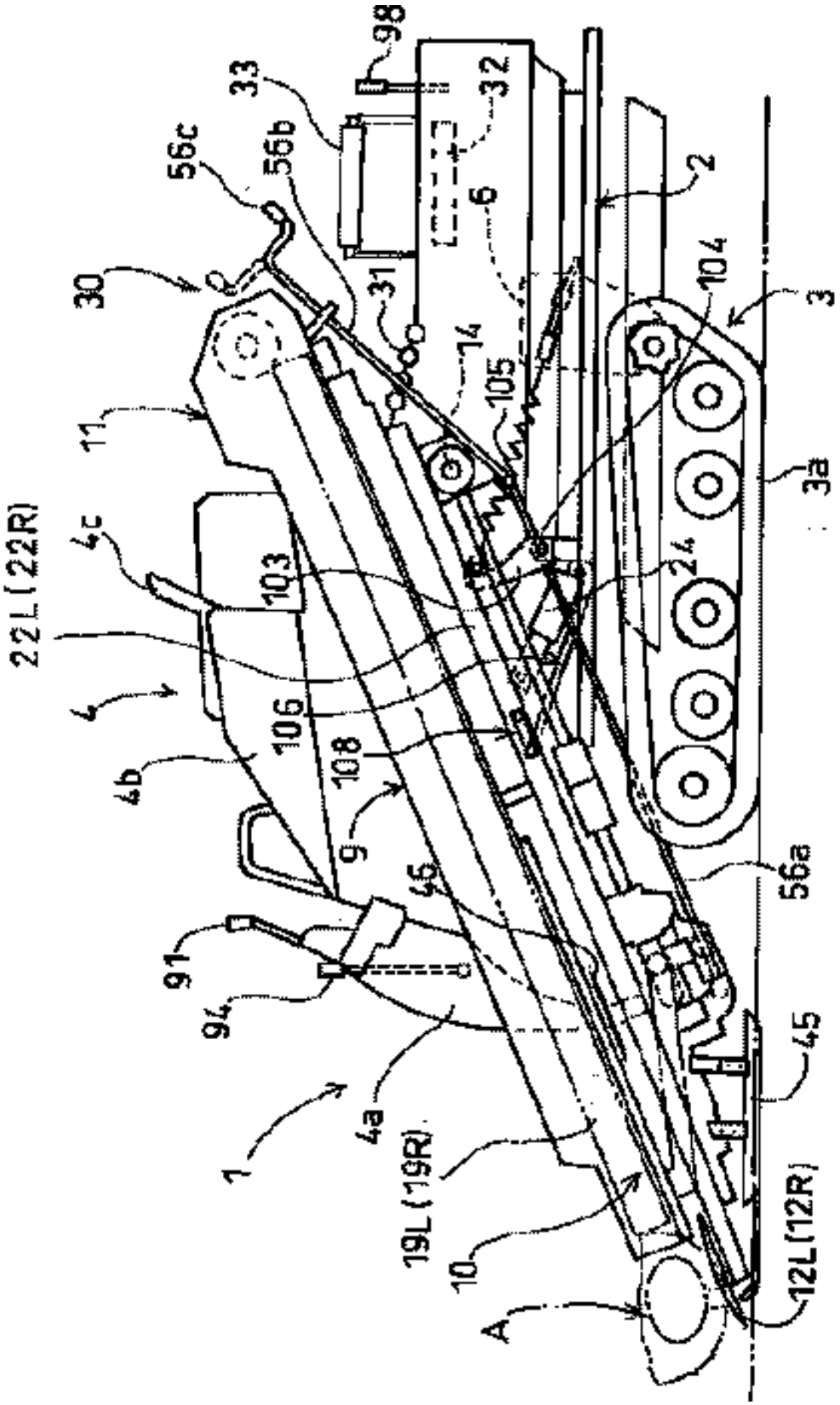
Family 378/667 - FAMPAT - ©Questel

Title

(JP2002065026)

Harvester for vegetable with formed head

Images



Publication data including kind & date

JP2002065026 A 2002-03-05 JP2002065026

Abstract

(JP2002065026)

PROBLEM TO BE SOLVED: To slow lifting and lowering operation of a harvesting operation part for vegetables with the formed head within the height of an operation region for uprooting and transporting the vegetables with the formed head and quickly carry out the operation outside an inoperative region.SOLUTION: This harvester for the vegetables with the formed head is obtained by axially supporting a site a little to the rear of a harvesting operation part 9 for transporting the vegetables with the formed head in a rising state to the rear of a machine body 2 with transporting belts 19L and 19R succeeding a pair of left and right raking in wheels 12L and 12R in a site of a transversely directed shaft case 14 so as to be vertically rotatable, installing a hydraulic cylinder 24 between a rotating arm 103 pivoted on a pivot shaft 107 in front of the shaft case 14 in the machine body 2, on the other hand, pulling the other end of the rotating arm 103 with a helical extension spring 105, reducing the downward load at the front of the harvesting operation part 9 and installing a gas spring 106 through an operation changeover means 108 between the harvesting operation part 9 and the machine body 2 so that cushioning functions of the gas spring 106 act only when the front of the harvesting operation part 9 is located at a lowering position (operation region) near a field.

Inventors

TERAMOTO SEIJI

ONBE HIROSHI

SHIN HIROKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

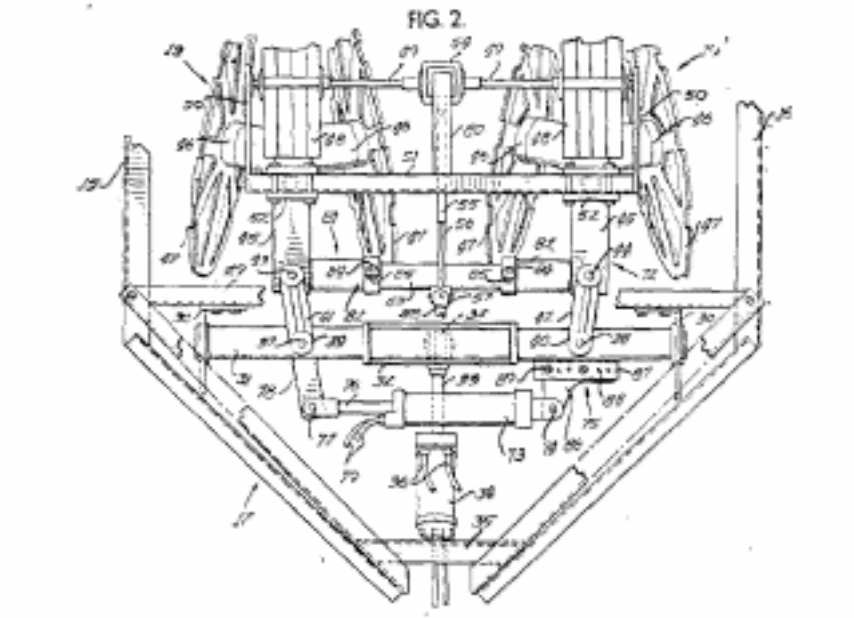
Family 379/667 - FAMPAT - ©Questel

Title

(GB1089472)

Beet harvesters

Images



Publication data including kind & date

GB1089472 A 1967-11-01 GB1089472

Abstract

(GB1089472)

1,089,472. Root crop harvesters.INTERNATIONAL HARVESTER CO; May 11, 1965, No. 19795/65.Heading A1F.A two-row beet harvester adapted to be towed by a tractor comprises two pairs of lifting wheels 19, 19<SP>1</SP> mounted on a transversely and vertically adjustable subframe 72 which is pivotally connected by links 41, 42 to a shaft 31 rotatable abouts its own axis.Transverse adjustment of the subframe is effected by a hydraulic cylinder 73 attached at one end to a lever 78 affixed to link 41, the other end of the cylinder being adjustably mounted on a bracket 75 of the shaft 31.Vertical adjustment is effected by a hydraulic cylinder 34 connected to a yoke 32 attached to the shaft 31.The pairs of wheels are

relatively adjustble by adjusting their supporting clamps 52 along cross-bar 51, and contracting or extending a telescopic bar 81.Flail assemblies 48 between the pairs of wheels are driven from the tractor p.t.o. shaft.The cross shafts of a cleaning bed (20) (Fig. 4, not shown), and conveyers 21 and (26) (Fig. 1, not shown) are also driven from the p.t.o shaft.The harvested crop is fed to a storage tank.

Inventors

EVERETT CHARLES VERN

CLARK EVERETT MILBURN

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

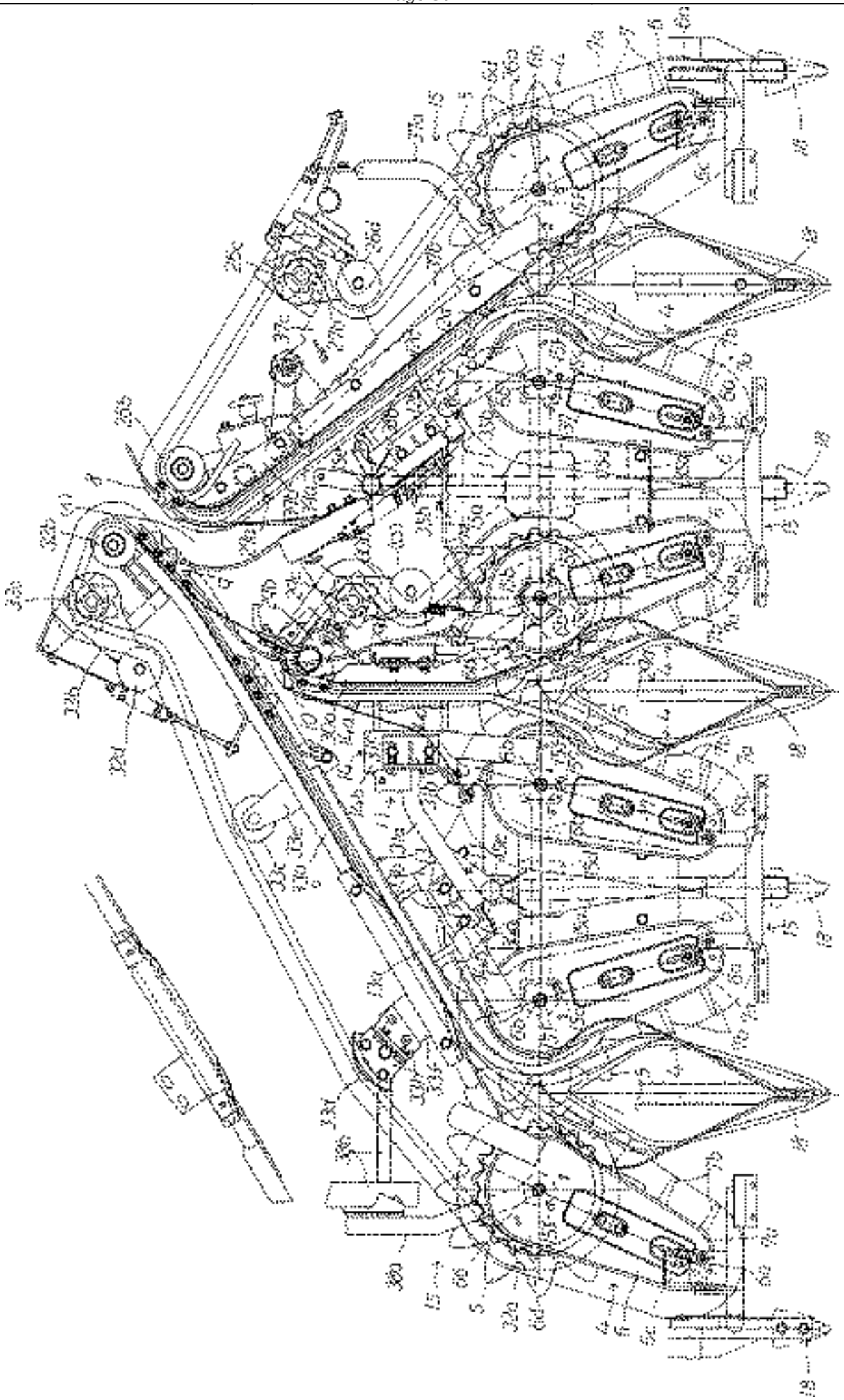
Family 380/667 - FAMPAT - ©Questel

Title

(JP2004033011)

Apparatus for raking in and transferring grain culm of combine harvester

Images



Publication data including kind & date

JP2004033011 A 2004-02-05 JP2004033011

Abstract

(JP2004033011)

PROBLEM TO BE SOLVED: To eliminate problems that waste straws, weeds and dust, and the like, are entwined with each root raking-in apparatus and deposited when the waste straws, weeds and dust, and the like, are dropped from grain culms during raking-in and transferring of the grain culms in the second and the third rows from the left side of a reaper for raking-in the grain culms with each root raking-in apparatus.

SOLUTION: The apparatus for raking-in and transferring the grain culms is equipped with each stretched raking-in lugged belt 7a for raking-in and transferring the grain culms on the left side in front of the reaper 3 and each raking in star wheel 5, and the like.Furthermore, the apparatus is provided with a straw collection preventing cover 17 for receiving the waste straws and dust, and the like, dropped during the transfer, making the waste straws and dust, and the like, flow down, guiding and discharging the waste straws and dust, and the like, onto a farm land on the lower side between each raking-in case 6 of each root raking-in apparatus 4 on the nontransferring side.Furthermore, a nipping holder apparatus 11 for supporting a left nipping rod apparatus 12 of a left transferring chain 8 of the root raking-in apparatus 4 is provided in proximity to the left transferring chain 8.

COPYRIGHT: (C)2004,JPO

Inventors

TAKAHASHI HAKURO

IIIZUMI KIYOSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

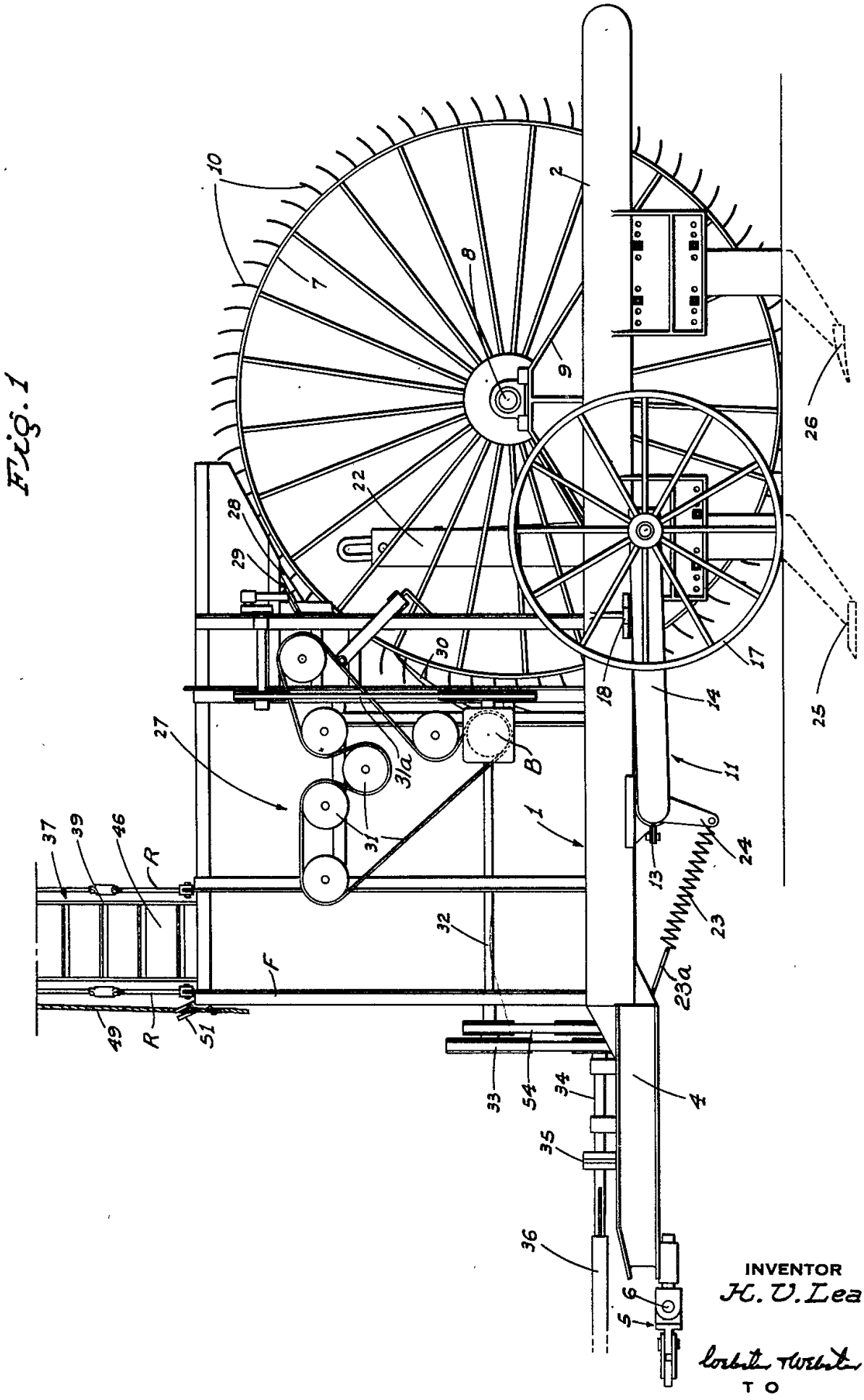
Family 381/667 - FAMPAT - ©Questel

Title

(US2516470)

Beet harvester

Images



Publication data including kind & date

US2516470 A 1950-07-25 US2516470

Inventors

LEA HENRY V

Latest standardized assignees - inventors removed

CLAUDE A LOUCKS

LLOYD K SCHMIDT

ALBERT M JONGENEEL

GEORGE P DU BOSE

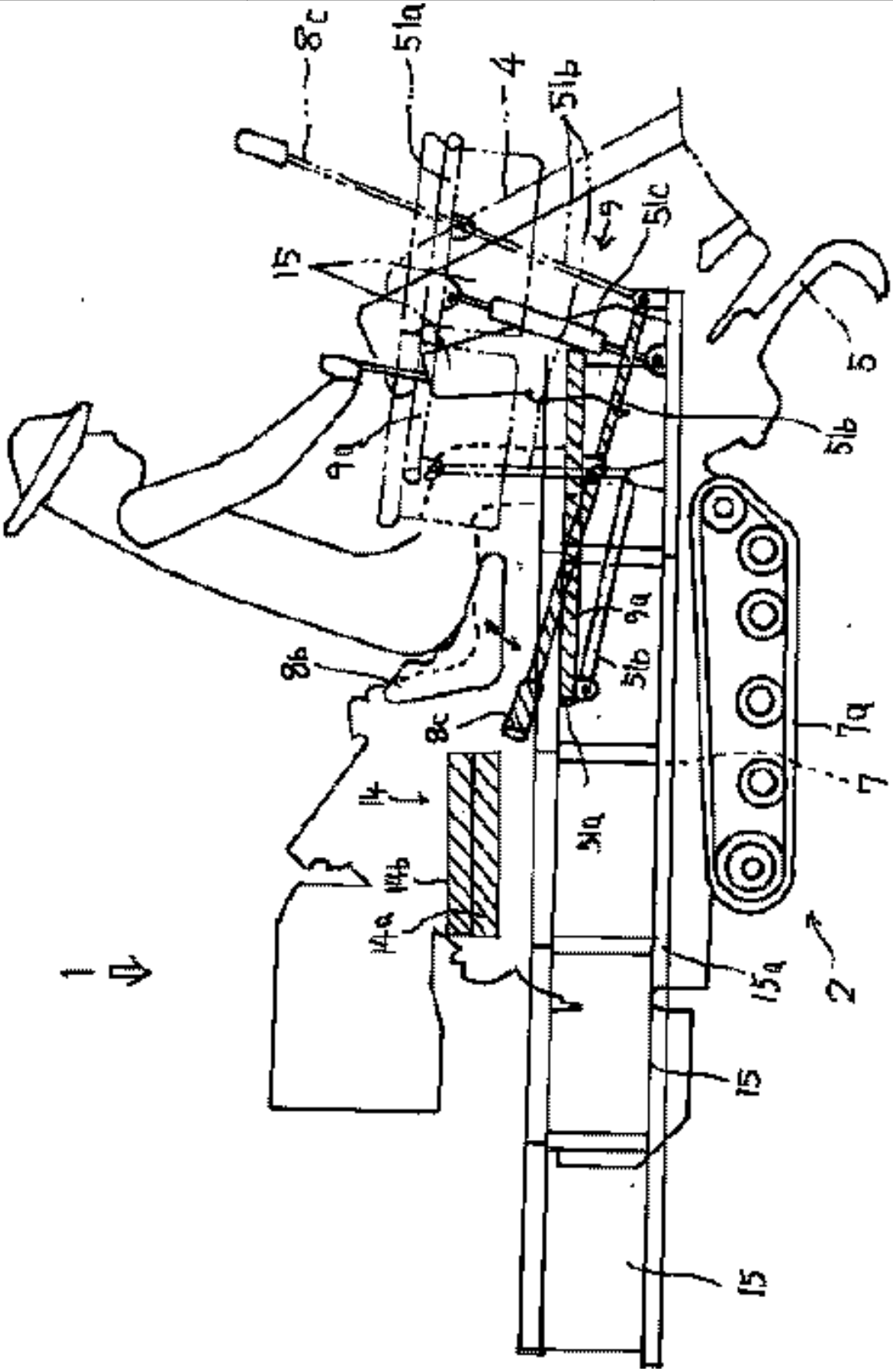
Family 382/667 - FAMPAT - ©Questel

Title

(JP2003052215)

Container box stacking device for crop harvester

Images



Publication data including kind & date

JP2003052215 A 2003-02-25 JP2003052215

Abstract

(JP2003052215)

PROBLEM TO BE SOLVED: To provide a container box stacking device for a crop harvester, for easily carrying out such a stacking operation in a short time without requiring much labor that, when crop (carrot) container boxes with carrots become full on a stand, such container boxes are stacked on the 1st tier of the boxes followed by stacking on the 2nd tier, the 3rd tier, and the like, successively.SOLUTION: This container box stacking device includes in a vertically movable way a box lifter 9 which is placed on a stand 15a on the lateral side of a traveling vehicle 2 and works to raise container boxes 15 with a crop (carrots) (1) contained therein to stack them in tiers on the preceding similar container boxes 15, wherein the

box lifter 9 is set on the front end of the stand 15a, being provided with a box sensor 9a for detecting the fact of containing the container box 15 and also with automatically manipulative means 8a functioning to start up/halt the box lifter 9 at the front and rear two positions, and further, there is provided a manual lever 8c for manually manipulating the box lifter 9 for its vertical movement.

Inventors

ISHIDA ISAO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

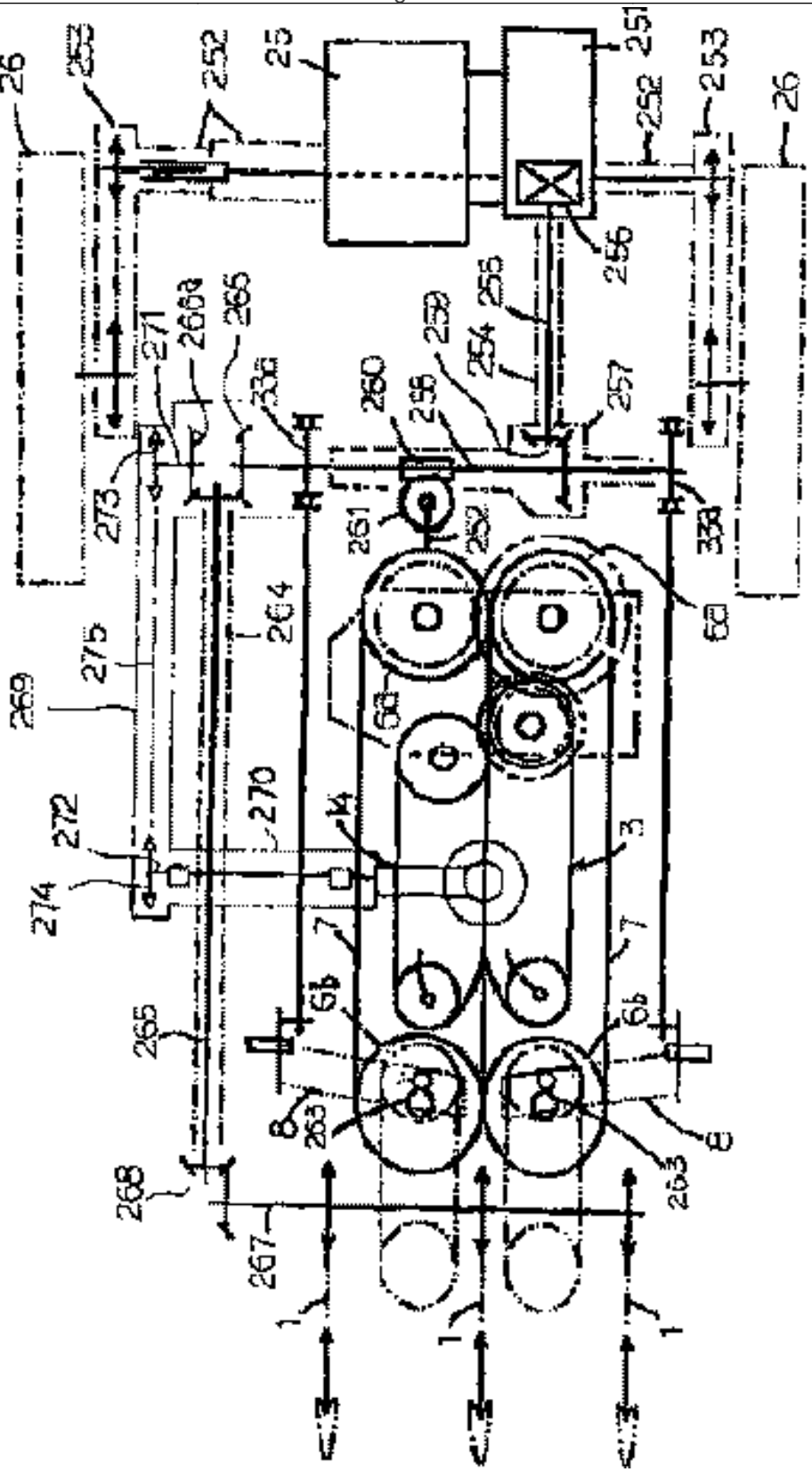
Family 383/667 - FAMPAT - ©Questel

Title

(JP2001169632)

Rhizome harvester

Images



Publication data including kind & date

JP2001169632 A 2001-06-26 JP2001169632

Abstract

(JP2001169632)

PROBLEM TO BE SOLVED: To continuously arrange harvested crops, which are pulled out during the advance of a machine body, on the surface of ridge having the traveling track of the machine body in a fixed position of laid sideways in a rhizome harvester.SOLUTION: Symmetric digging up blades 8/8 are arranged at the lower position of a pulling out and transporting apparatus (6) and the pulling out blades are supported vibrationally in the front and rear directions.The rotation of an engine 25 is transmitted to the inside of a transmission case 251, transmitted from an operation output shaft 255 laid in the front and rear directions at the front part of the transmission case through a bevel gear 259 to a transverse driving

shaft 258, transmitted through cranks 33a/33a formed both right and left ends of the transverse driving shaft to right and left connecting rods 33/33, transmitted through the right and left connecting rods to right and left pulling out blades so that the right and left pulling out blades are moved back and forth and vibrated.

Inventors

TERAMOTO SEIJI
MATSUI MIKIO
FUKUI YUKIHIRO
WATANABE KAZUYUKI

Latest standardized assignees - inventors removed

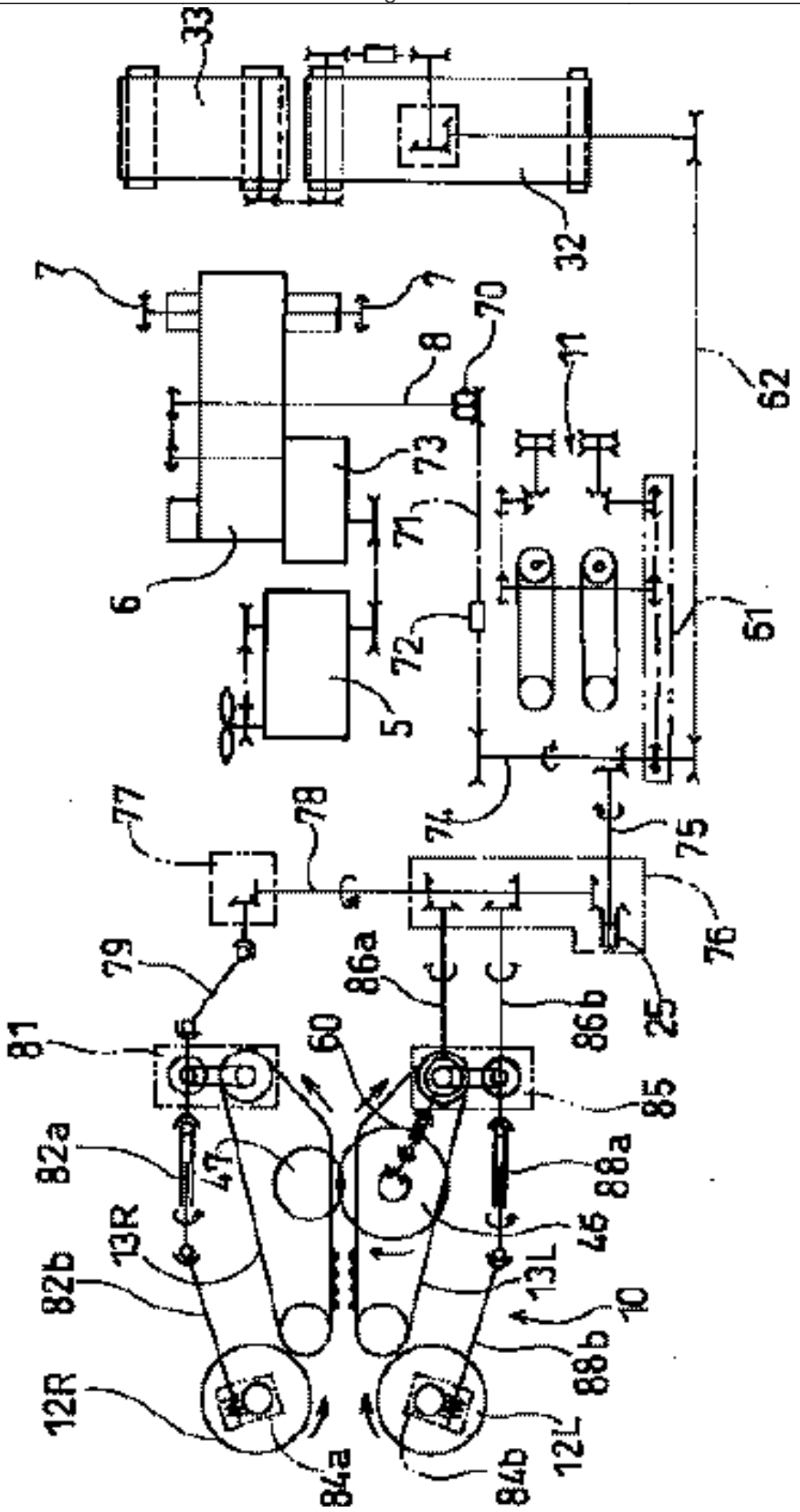
SEIREI INDUSTRY

Family 384/667 - FAMPAT - ©Questel

Title

(JP2002065025)
Harvester for vegetable with formed head

Images



Publication data including kind & date

JP2002065025 A 2002-03-05 JP2002065025

Abstract

(JP2002065025)

PROBLEM TO BE SOLVED: To compactly compose an uprooting pretreating device for vegetables with the formed head.SOLUTION: This harvester for the vegetables with the formed head is obtained by arranging a pair of left and right rhizome transporting units 13L and 13R for transporting the vegetables with the formed head succeeding a pair of left and right raking in wheels 12L and 12R, arranging a cutting device 20 therebetween, transmitting a power from a distributing shaft 78 for distributing the power through transmission shafts 79 and 86b of a left and a right gear cases 76 and 77 to bevel gear boxes 81 and 85 for distributing the power to the left and the right raking in wheels 12L and 12R and the

rhizome transporting units 13L and 13R, on the other hand, transmitting the power from the distributing shaft 78 through the separate transmission shaft 86a to the one 85 of the bevel gear boxes 81 and 85, rotating a driving cutter 46 with a transmission shaft 60, transmitting the power through transmission shafts 82a, 82b, 88a and 88b to the left and right raking in wheels 12L and 12R and installing a torque limiter 25 on the upstream side of the transmission of the distributing shaft 78.

Inventors

OKAZAKI MASAHARU

ONBE HIROSHI

SHIN HIROKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

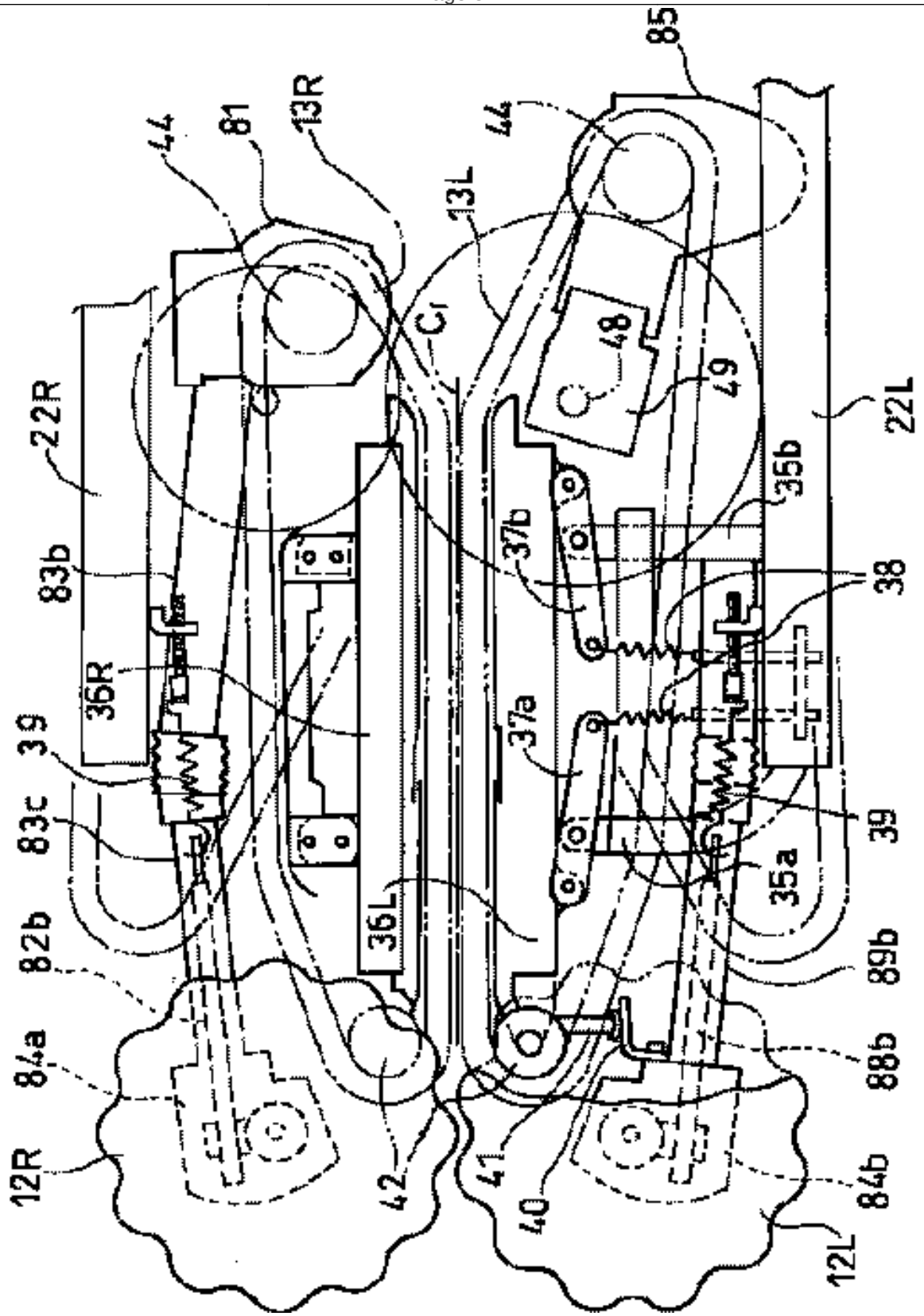
Family 385/667 - FAMPAT - ©Questel

Title

(JP2002058318)

Head-formed harvester

Images



Publication data including kind & date

JP2002058318 A 2002-02-26 JP2002058318

Abstract

(JP2002058318)

PROBLEM TO BE SOLVED: To provide a head-formed vegetable harvester which can easily match a position for pulling up head-formed vegetables, can constantly hold the carrying postures of the head-formed vegetables, and can prevent the interference of raking wheels with rhizome carriers.SOLUTION: A pair of right and left rhizome carriers 13L, 13R for carrying the head-formed vegetables are disposed behind a pair of right and left raking wheels 12L, 12R.The distance between the right and left raking wheels 12L, 12R can be reduced or increased, and the right and left raking wheels 12L, 12R are energized with a spring 39 in the approaching direction.The right rhizome carriers 13R is disposed at a fixed

position, and the left rhizome carriers 13L is disposed in a state capable of approaching or separating from the right rhizome carriers 13R and elastically energized with springs 38 so as to approach in the right direction.The pipe case 89b of at least the raking wheel 12L is disposed on the backside of the rhizome carrier 13L.A contact piece 40 and a stopper 41 for preventing the mutual interference are disposed between the pipe case 89b and the raking frame 36L of the rhizome carrier 13L.

Inventors

ONBE HIROSHI

SHIN HIROKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

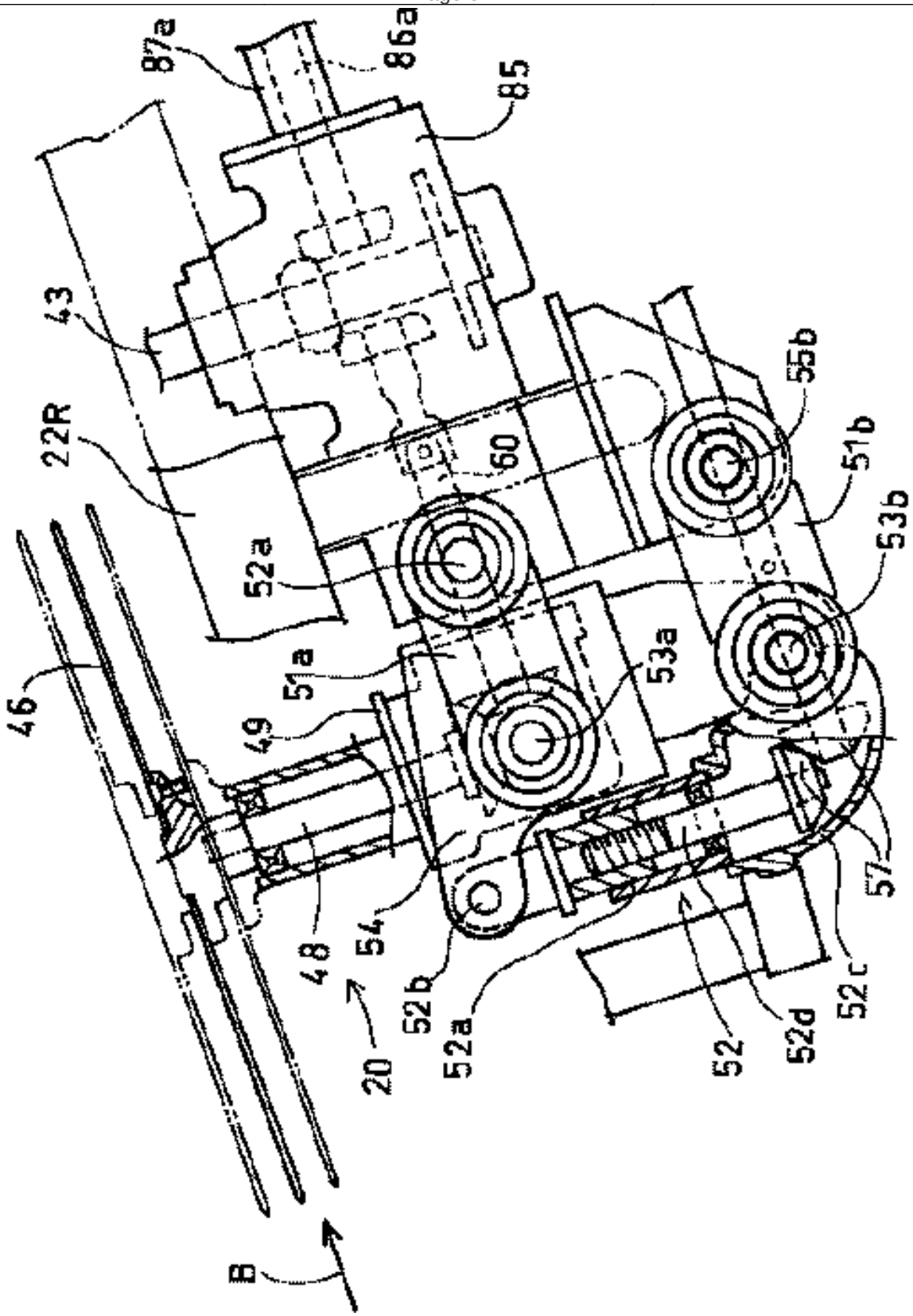
Family 386/667 - FAMPAT - ©Questel

Title

(JP2002058317)

Head-formed vegetable harvester

Images



Publication data including kind & date

JP2002058317 A 2002-02-26 JP2002058317

Abstract

(JP2002058317)

PROBLEM TO BE SOLVED: To provide a head-formed vegetable harvester which can cut the rhizome portions of pulled and carried head-formed vegetables in the direction crossing the axes of the rhizome portions without relating to the growth degrees and carried heights of the head-formed vegetables.SOLUTION: A gear box 49 for supporting a driving cutter 46 in a cutting device 20 can be lifted or lowered parallel to the rhizome portion-carrying axis B of a pair of right and left rhizome carriers 13L, 13R through a side plate 54, an adjustment mechanism 52 and upper and lower links 51a, 51b as a parallel link mechanism, and can remotely be operated with an operation shaft 56a, a handle shaft 56b, and a handle 56c from the

rear portion of the travel machine frame.A followed cutter partially overlapped on the upper side of the driving cutter 46 can also be lifted or lowered through upper and lower links as a parallel mechanism and is downward energized with an energized spring.

Inventors

ONBE HIROSHI

SHIN HIROKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

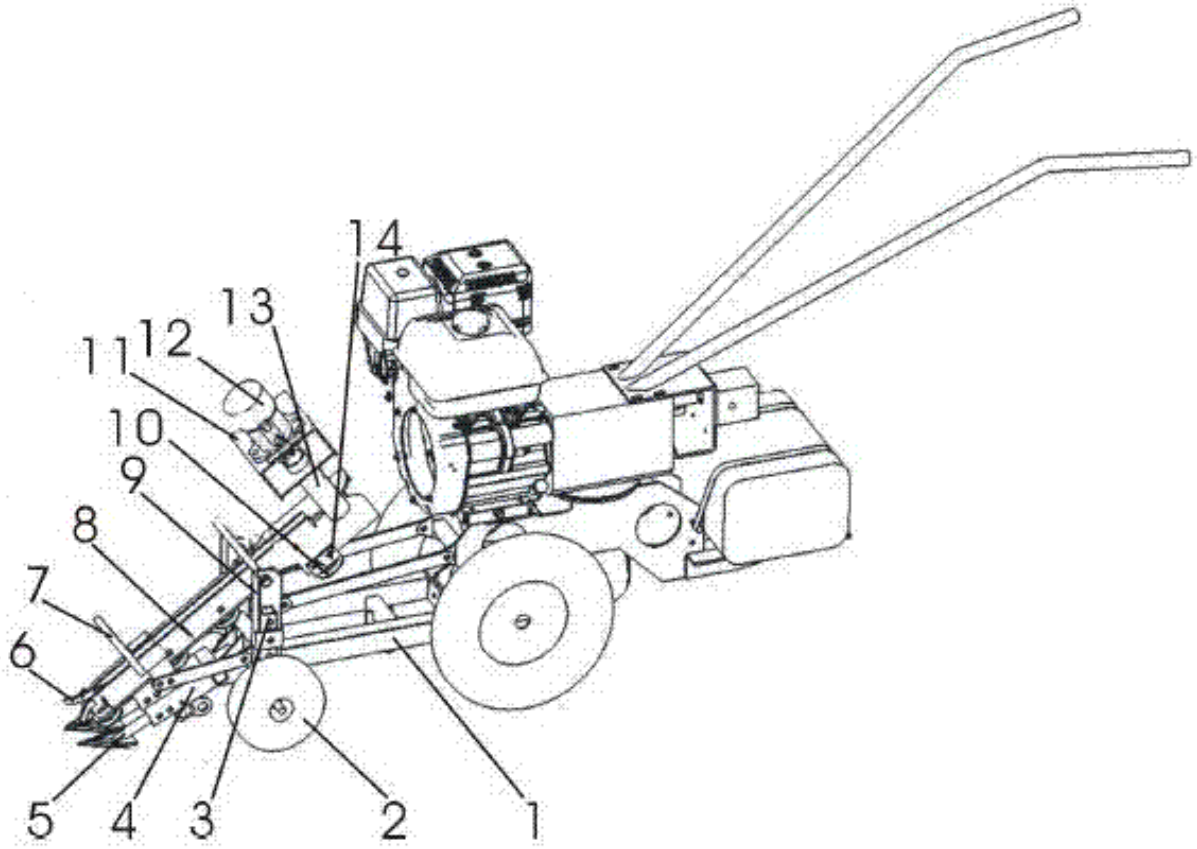
Family 387/667 - FAMPAT - ©Questel

Title

(CN108934397)

Miniature garlic a harvester

Images



Publication data including kind & date

CN108934397 A 2018-12-07 CN108934397

Abstract

(CN108934397)

A miniature garlic harvesting machines, agricultural machines comprising an undercarriage, excavation mechanism and the clamping and transporting mechanism, the front end of the frame of the traveling mechanism for agricultural machines are provided above the clamping and transporting mechanism, the gripping conveyance mechanism is provided with a digging mechanism below the front end, said excavation there is a separator provided on both sides of the clamping and transporting mechanism includes a rack, and is formed at a central gap and symmetrical with the harvest shovel, harvest shovel of a shovel arm connected at both ends of the two symmetrical with the limiting function of the shovel arm extends into the inner sleeve, the tip of the shovel arm sleeve provided at the front end frame of the agricultural machine traveling mechanism rotates, the traveling mechanism for agricultural machines in the shovel arm sleeve with the chassis articulated shovel arm of the angle between the telescopic device is provided with an adjusting sleeve.The present invention miniature garlic harvesting machines, may be used on a field in which planting in a variety of ways, cramped nature of the harvesting

solution, in combination with the actual situation, for buried depth of the excavation mechanism, the tilt angle is adjusted timely and mining.

Inventors

ZHOU YALUN

Latest standardized assignees - inventors removed

NINGBO XIEYA AGRICULTURAL EQUIPMENT MANUFACTURING

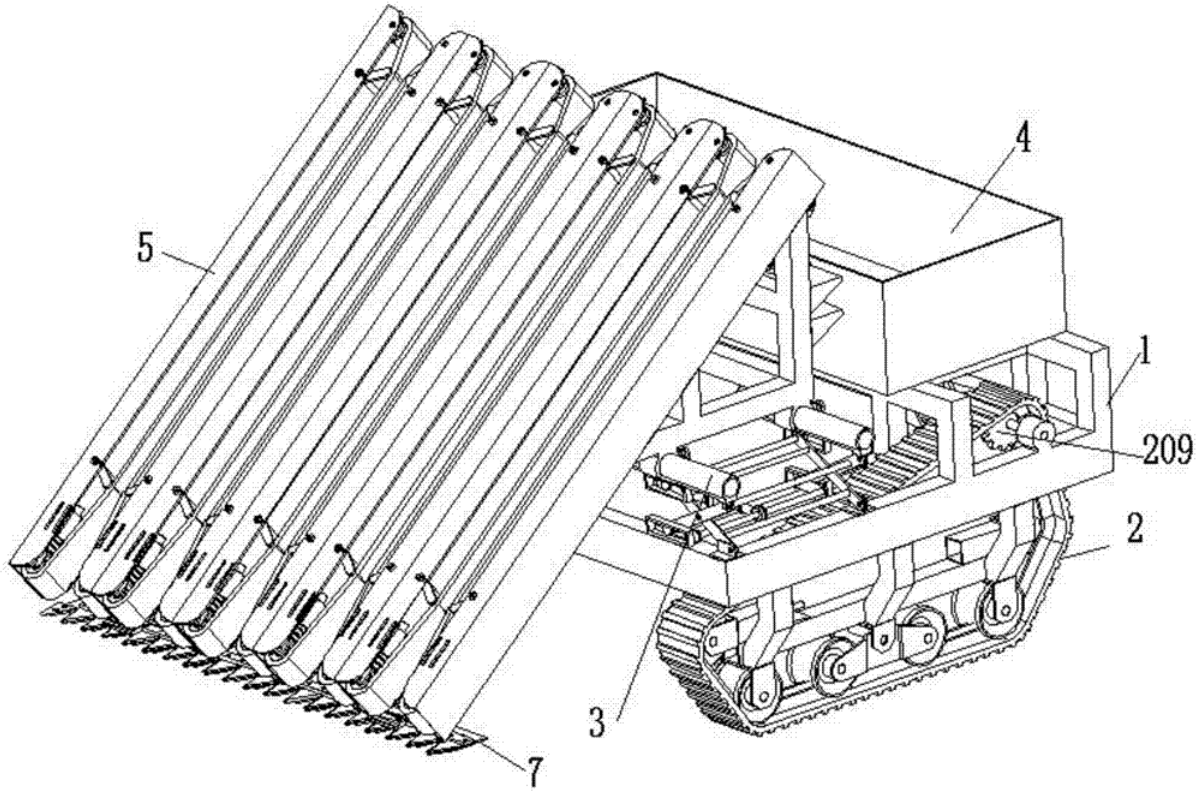
Family 388/667 - FAMPAT - ©Questel

Title

(CN208143837U)

Leafy vegetables harvester automatically

Images



Publication data including kind & date

CN208143837 U 2018-11-27 CN208143837U

Abstract

(CN208143837U)

The present utility model discloses a method for automatically harvesting the leafy vegetables, comprising telescopic framing (1), both ends of the telescoping frame (1), a mobile device (2) are provided below the track moves along a track above the moving direction of the telescopic frame (1) means (2), a crane and the (3) receipt box (4) in turn is provided with a fork lift assembly (3), along with the transport device (5) is provided with a flexible yoke along with the transport device (5) is provided below. flexible sickle bar (7) The present utility model has to be less laborious, reducing manufacturing costs and greater efficiency of harvesting features.

Inventors

HE XIAOSA

JIANG RUI

Phoebe

WANG NENGYUAN

YOU SHENGZHE

WANG JING

WANG MIN LIANG

Latest standardized assignees - inventors removed

WENZHOU UNIVERSITY

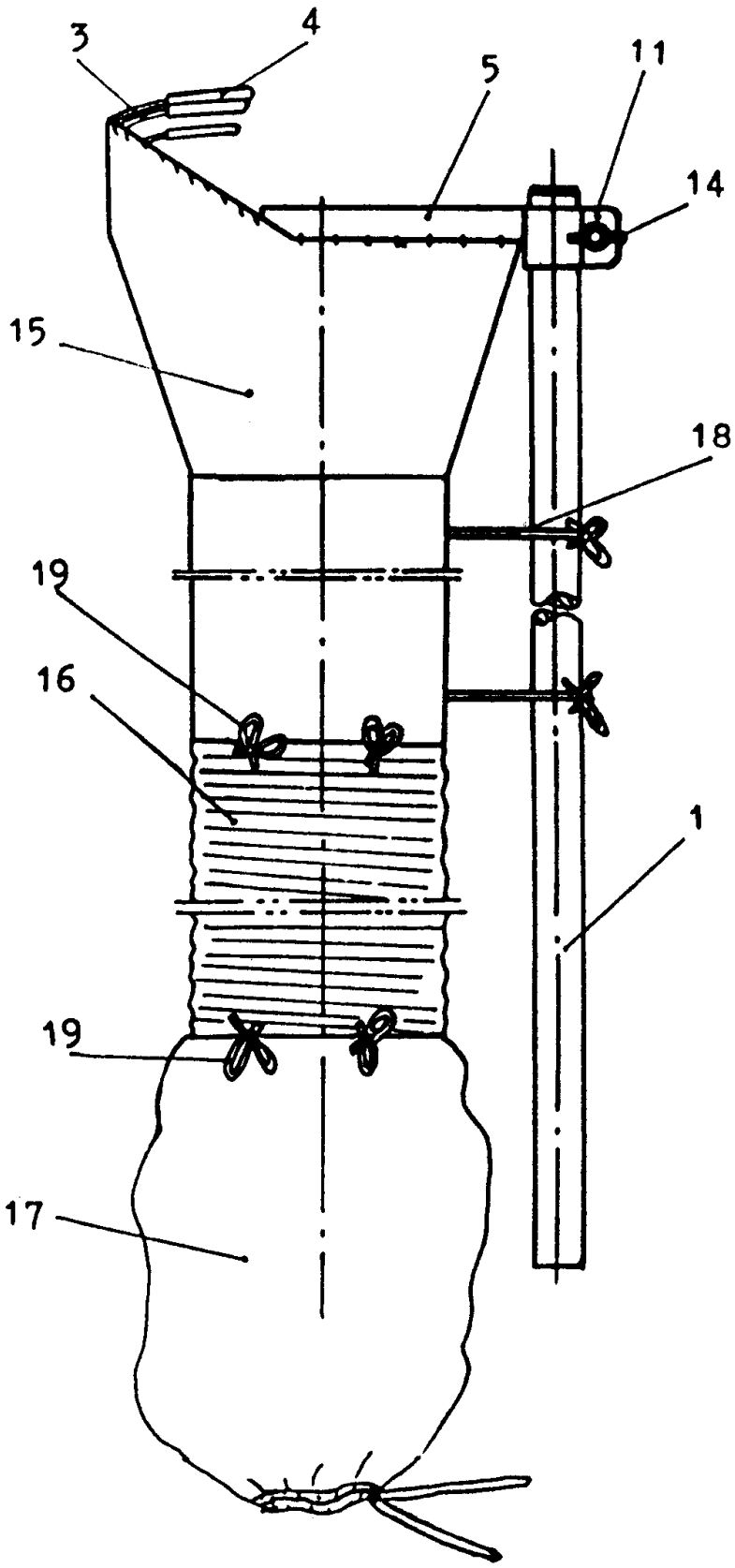
Family 389/667 - FAMPAT - ©Questel

Title

(CN2078964U)

Fruit collector

Images



Publication data including kind & date

CN2078964	U	1991-06-19	CN2078964U
CN90214832	Y	1992-02-12	CN90214832U

Abstract

(CN90214832U)

The utility model relates to a fruit collector, comprising a picking rod, a fruit picking device, and a fruit conveying bag.The fruit picking device is composed of a picking claw ring, the inner side of which is provided with a picking claw; the both ends of the picking claw ring are connected with a connecting frame; the upper end of the connecting frame is fixedly connected with one end of the picking rod, and the fruit picking device is provided with the fruit conveying bag.The fruit conveying bag is composed of a funnel tube, a telescopic conveying conduit, and a collecting bag.The utility model is suitable for picking up pears, apples, walnuts, and other fruits.

Inventors

WANG JIN

Latest standardized assignees - inventors removed

WONG KAM

Family 390/667 - FAMPAT - ©Questel

Title

(US3389542)

Strawberry harvester

Images

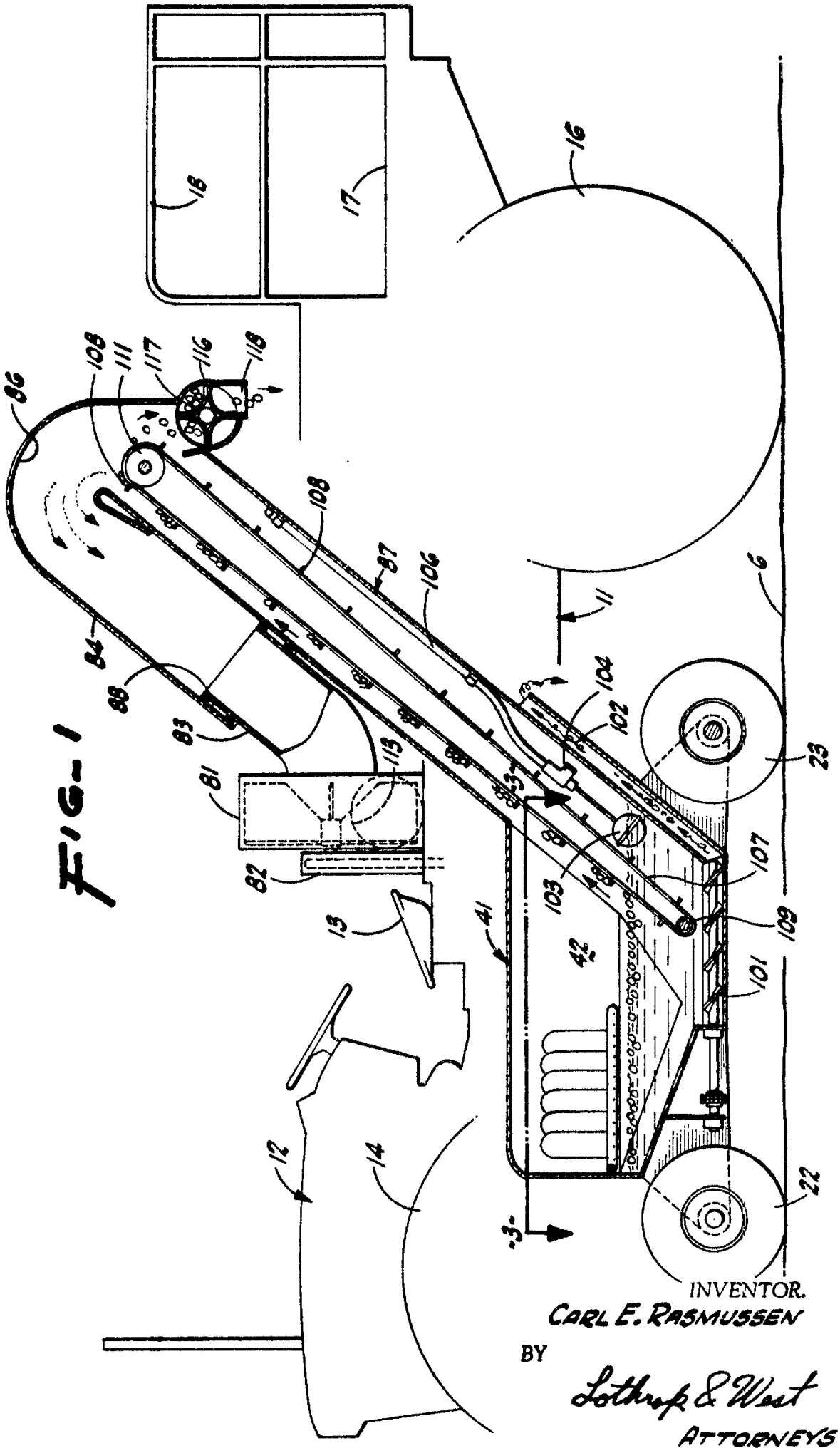


FIG. 1
INVENTOR.
CARL E. RASMUSSEN
BY
Lothrop & West
ATTORNEYS

Publication data including kind & date

US3389542 A 1968-06-25 US3389542

Inventors

RASMUSSEN CARL E

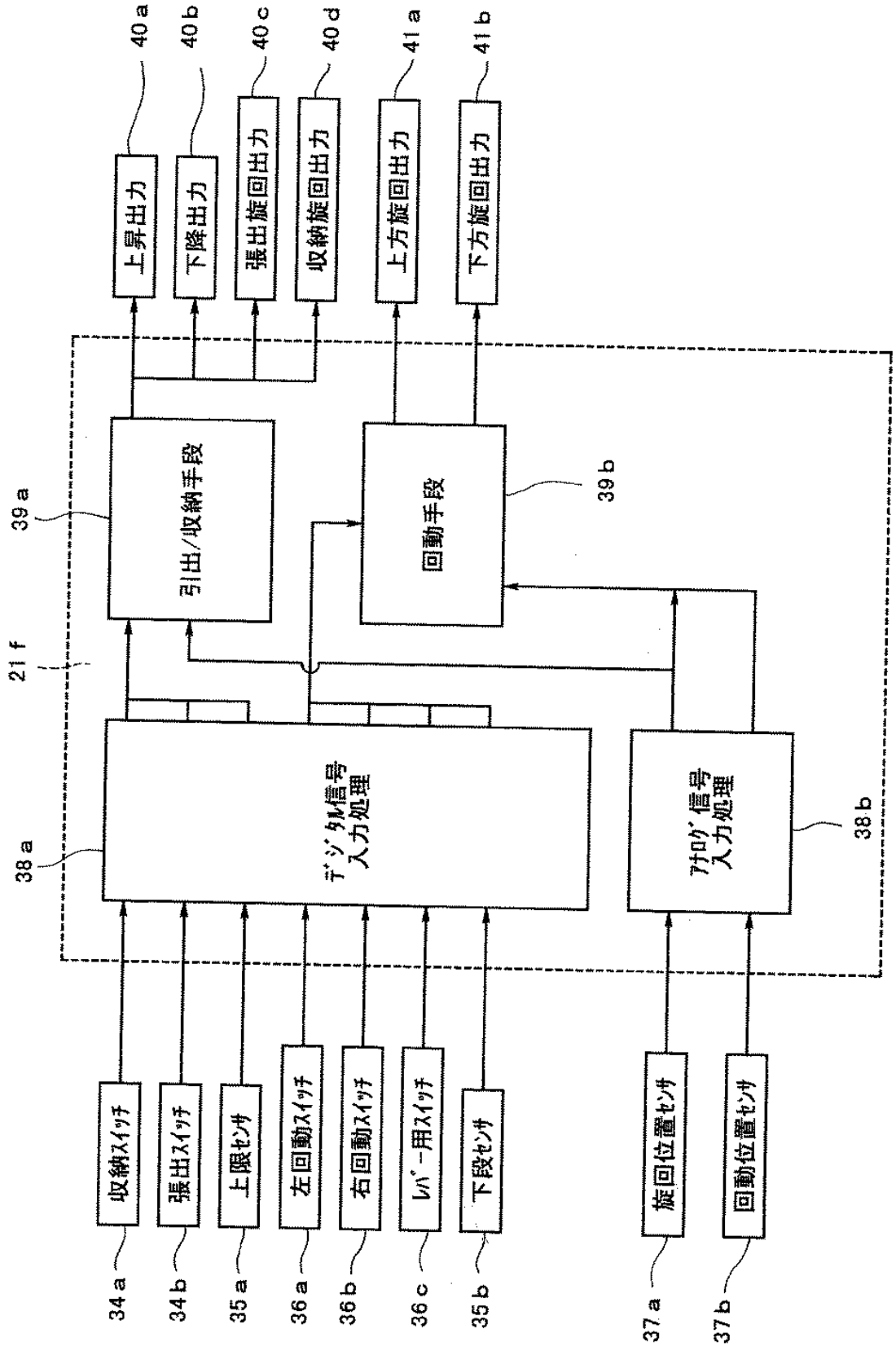
Family 391/667 - FAMPAT - ©Questel

Title

(JP2005160307)

Grain unloading controller of combine harvester or the like

Images



Publication data including kind & date

JP2005160307 A 2005-06-23 JP2005160307

Abstract

(JP2005160307)

PROBLEM TO BE SOLVED: To prevent residual grains remaining in an unloading cylinder provided in a grain transfer unloading cylinder apparatus for transferring the grains and unloading the grains to the outside of a machine body. SOLUTION: The grains are unloaded from a grain unloading port 14a of the unloading cylinder 14 of the grain transfer

unloading cylinder apparatus 6 for transferring the grains to the outside of the machine body.When the grain unloading port 14a of the unloading cylinder 14 is rotated and moved to a position other than that just under the unloading cylinder after completing the unloading of the grains, the grain unloading port 14a is composed so as to be rotated and controlled once to the position just under the unloading cylinder with a controller 21f when completing the unloading of the grains.The speed of an engine 21c is not changed and controlled to the rated speed until the unloading cylinder 14 reaches an unloadable region when the grain transfer unloading cylinder apparatus 6 is kept in a state of unloading the grains and the unloading cylinder 14 is not in the unloadable region.Furthermore, the grain unloading port 14a is composed so as to be rotated and moved to the upper side before the grain transfer unloading cylinder apparatus 6 is controlled to a housed position.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

KONO KENJI
DOI YOSHINORI
KOREHISA MASAKI
MATSUZAWA HIROKI
OKAZAKI HIDENORI
IZUMI KOJI
SATOJI HISAYUKI
DOIHARA JUNJI
KUGIMIYA HIROSHI
FUJITA YASUSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

Family 392/667 - FAMPAT - ©Questel

Title

(US1901686)
Cotton harvesting machine

Images

FIG.3.

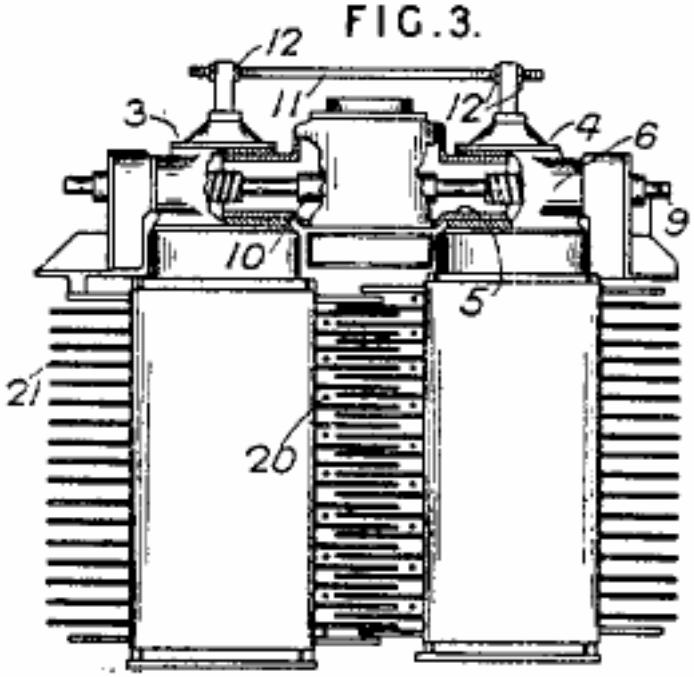
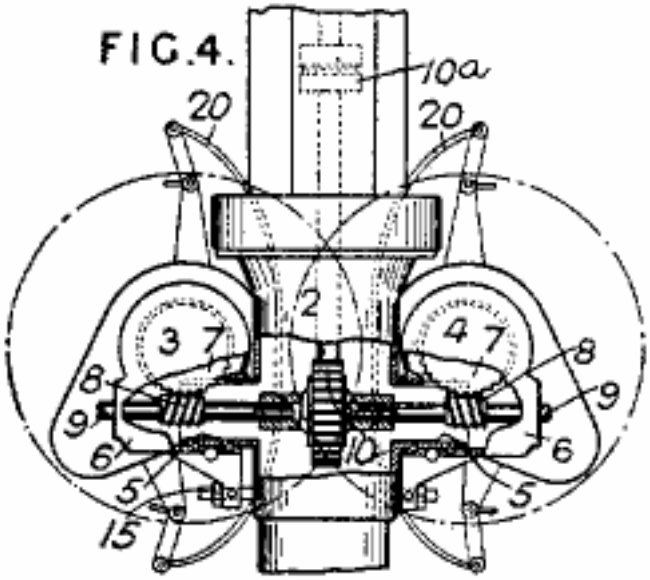


FIG.4.



Publication data including kind & date

GB363800	A	1931-12-31	GB-363800
GB368732	A	1932-03-02	GB-368732
DE570506	C	1933-02-21	DE-570506
US1901686	A	1933-03-14	US1901686
DE595752	C	1934-04-19	DE-595752

Abstract

(US1901686)

368,732. Harvesting cotton.COTTON HARVESTER CORPORATION OF AMERICA, 541, Wood Street, Pittsburg, U.S.A.-(Assignees of Wirth, L.E. ; 421, Stratton Lane, East End, Pittsburg, U.S.A.) Dec. 2, 1930, No. 36316.Convention date, May 21. [Class 6 (iii).] A cotton harvester of the type in which the cotton is picked by rotary needles projecting from rotating cylinders has the needles arranged in vertical rows each row being positively and independently driven.The machine comprises a frame 101 mounted on wheels 102 and supporting two needle carrier assemblies 103 from which needles 104 project.Each assembly comprises a screen 105, a cotton chamber 106 and a grid 107 co-operating with the needles.The picked cotton is drawn from the chamber 106 through a conduit 108 to an outlet 111 by a fan 109.Each needle carrier comprises a cylinder 114 rotatably mounted on a vertical shaft 115 that is keyed to a bottom plate 118 which carries a cam track 120 for the rollers 121 of stripper bars 122.The upper cam track is carried by a housing 113.Each cylinder 114 is driven from a motor actuated worm shaft 124 through a worm gear 125 and a clutch member 126 splined on a sleeve 127

which is provided with an outwardly flared base 127a secured by bolts to the cylinder.Springs 132 normally hold the clutch member 126 in gripping connection with the gear 125 but permit slip should the cylinder 114 be held against rotation.The needles 104 are arranged in vertical rows and the needles of each row are rotated during part of each revolution of the cylinder.Each needle is mounted in a journal 135 in a bearing 134 in the cylinder and a bevel gear 136 meshing with a bevel gear 140 on a vertical shaft 137 is fixed to each journal.The shafts 137 are intermittently driven through splined clutch members 143 adapted to engage surfaces on gears 141 free on the shafts 137 but meshing with a gear wheel 142 that is driven from the worm gear 125 through a sleeve 155, pinions 154, 153 and an internal ring gear 151 fixed to the gear 125.The members 143 are depressed to clutch the shafts to the driving gears 141 by cam riders 149 engaging an annular track 147 on the base of the gear housing 113.The needles are thus caused to rotate at a high speed during the time they are presented to the cotton plants.In a modification the gear 142 may be stationary, the needles then rotating at a lower rate.The fan for drawing the cotton along the conduit 108 is driven through a clutch adapted to slip should the rotation of the fan be impeded.

(From GB368732 A)

Inventors

WIRTH LOUIS E

Latest standardized assignees - inventors removed

COTTON HARVESTER OF AMERI

Family 393/667 - FAMPAT - ©Questel

Title

(US3563016)

Sensing unit for a grape harvester for enabling the cutting apparatus to follow the surface to be worked

Images

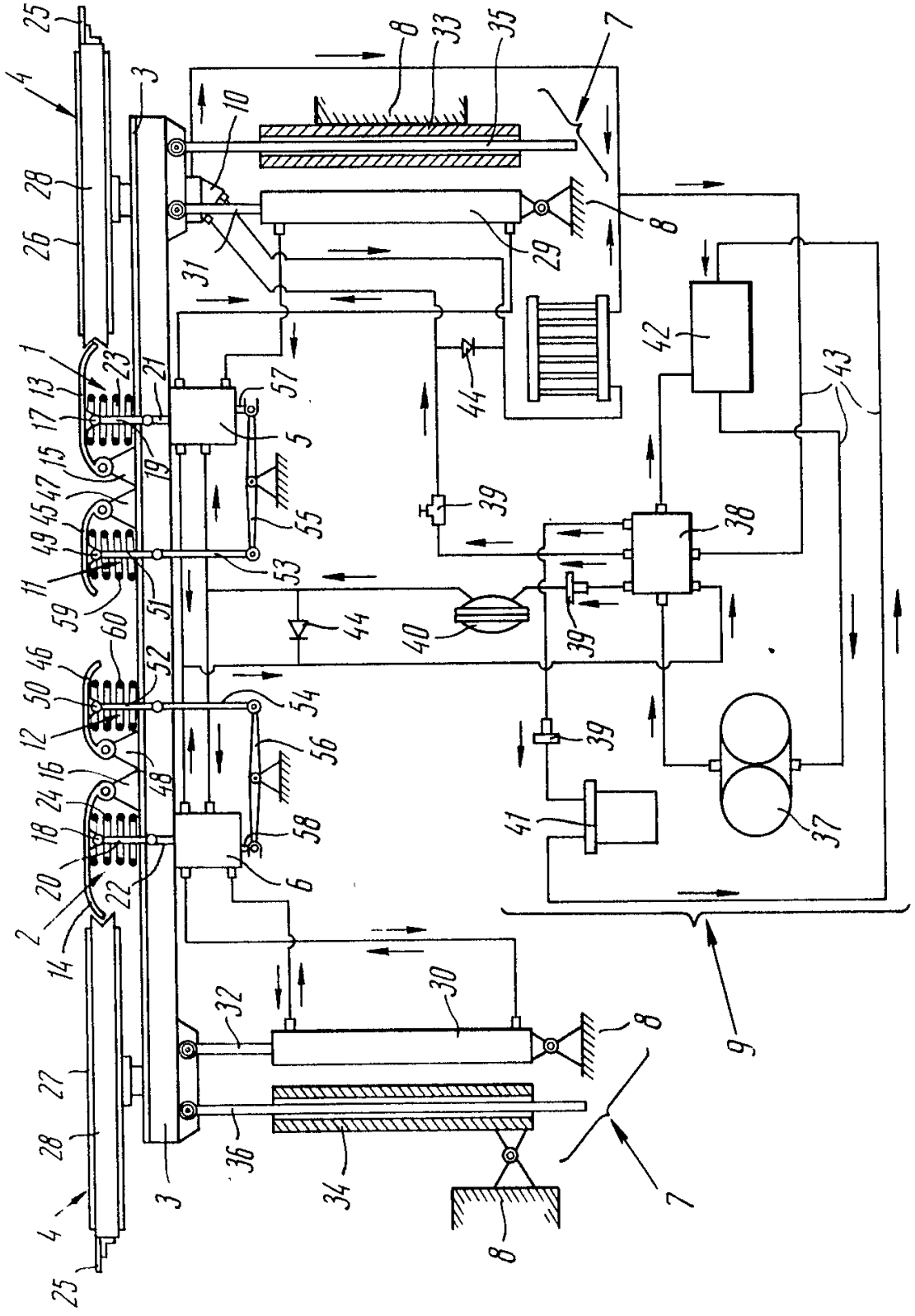


FIG. 1

Publication data including kind & date

US3563016 A 1971-02-16 US3563016

Inventors

TOLOCHKO CHESLAV STANISLAVOVIC
POPOV VLADIMIR IVANOVICH
TSITSIV MIRON VASILIEVICH
VARFOLOMEEV ALEXANDR NIKOLAEVI
GERVOLSKY MARLEN MIKHAILOVICH

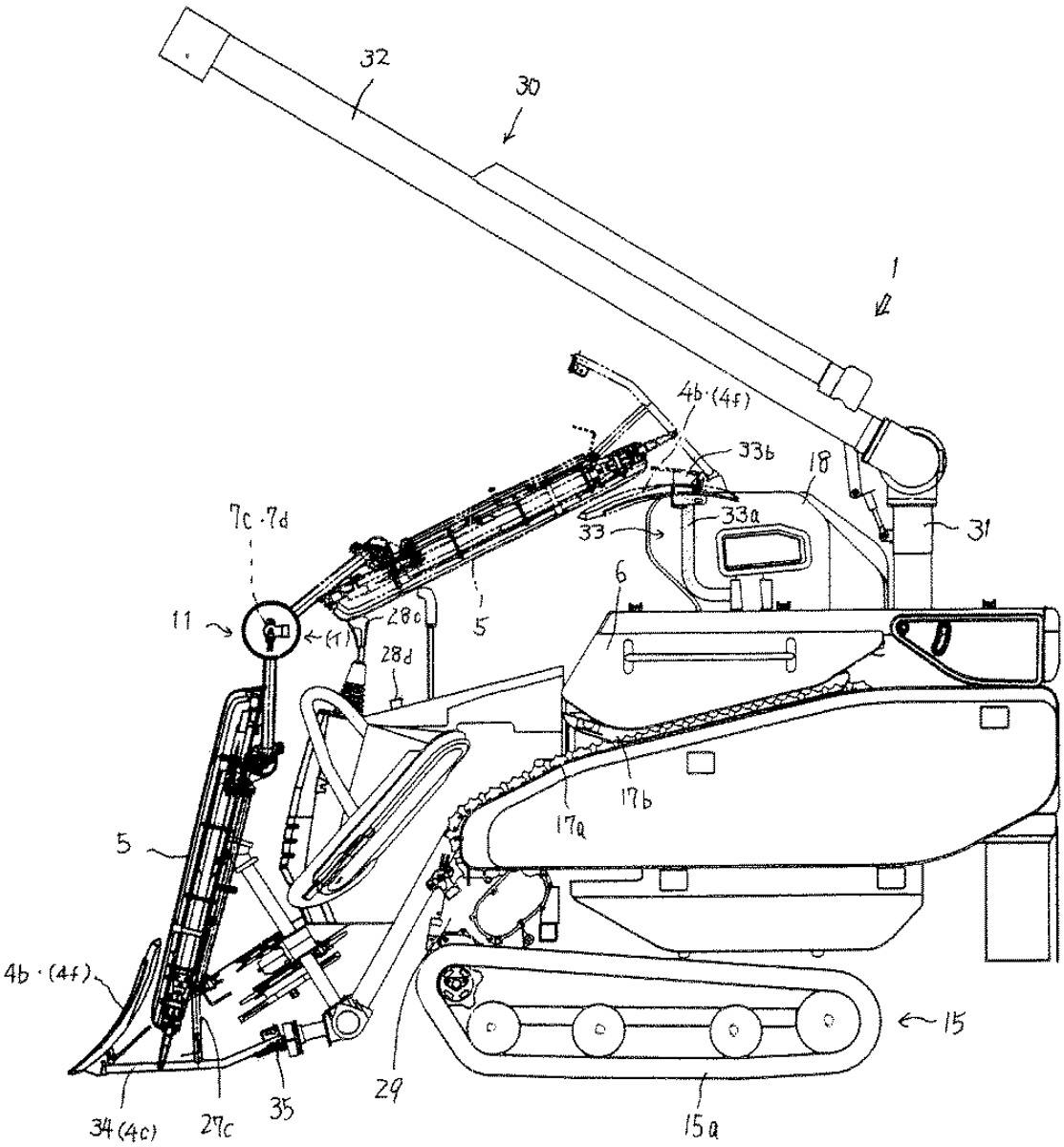
Family 394/667 - FAMPAT - ©Questel

Title

(JP2005333926)

Apparatus for raising and turning combine harvester

Images



Publication data including kind & date

JP2005333926	A	2005-12-08	JP2005333926

Abstract

(JP2005333926)

PROBLEM TO BE SOLVED: To facilitate reaping operation of raised grain culms on levee edge side and enable reaping up to the levee edge.

SOLUTION: Each raising apparatus 5 for raising grain culms is installed so as to carry out turn driving by an upper transmission apparatus 7 installed in an upper part and the raising apparatus 5 is installed vertically turnably by using the upper transmission apparatus 7 as a turning supporting point (A) and when the raising apparatus 5 is turned to the upper part, a grains-transferring and discharging cylindrical apparatus 30 for discharging grains to the outside of the machine is turned to the upper part, and then, the raising apparatus 5, or the like, turned to the upper part is supported by an auger-receiving apparatus 33 for supporting the grains-transferring and discharging cylindrical apparatus 30.The grains-transferring and discharging cylindrical apparatus 30 is arranged at a position even when the raising apparatus 5 is turned to the upper part, the apparatus 5 is not brought into contact with the apparatus 30.A grass-dividing body 4b for separating grain culms and the grains-transferring and discharging cylindrical apparatus 30 are installed in vertically superposed state.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

NAGAI TOSHIRO

IZUMI KOJI

SATOJI HISAYUKI

IWAMOTO HIROSHI

FUTAGAMI SHIN

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

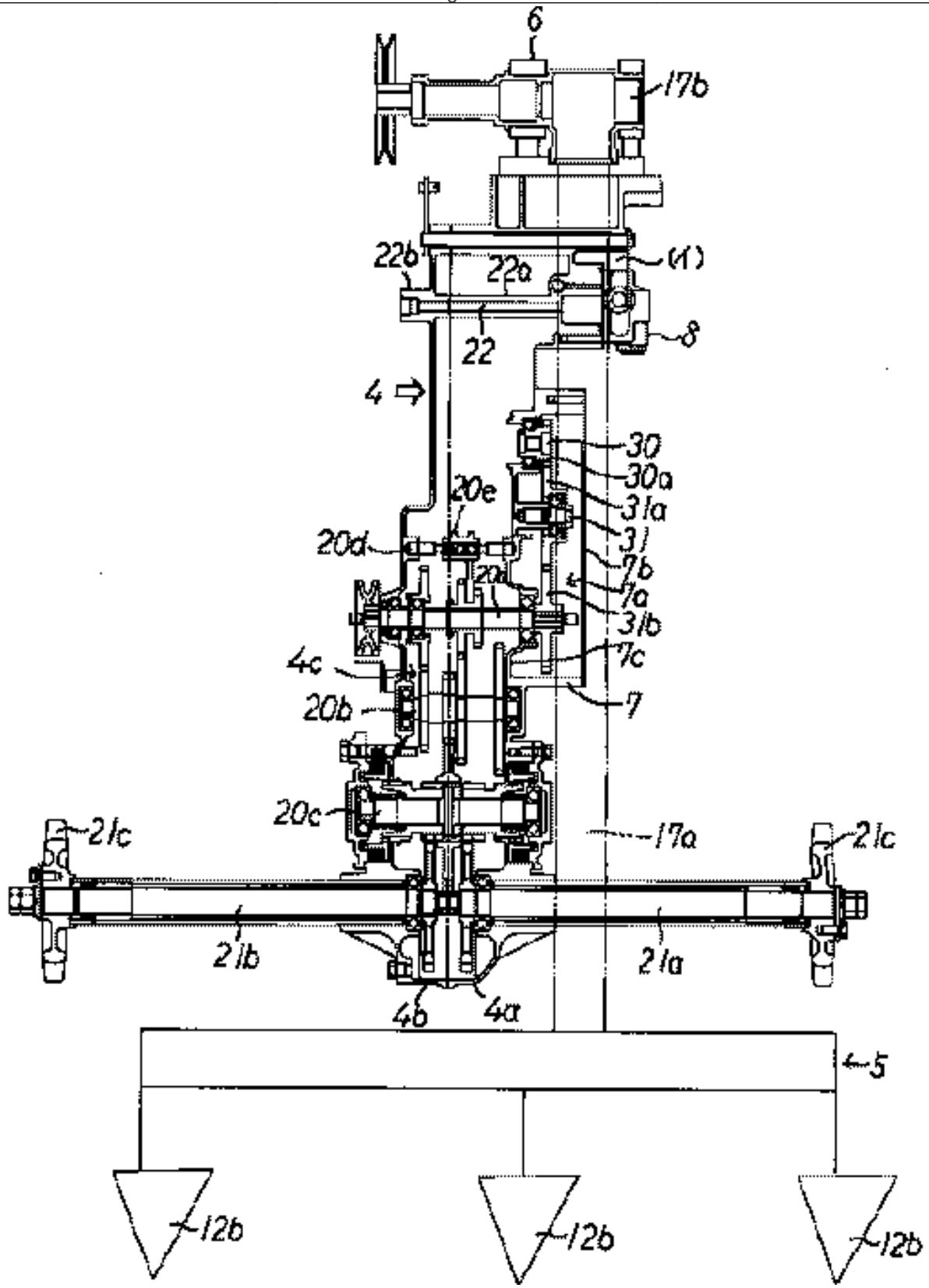
Family 395/667 - FAMPAT - ©Questel

Title

(JP2003116329)

Hydraulic system of combine harvester

Images



Publication data including kind & date

JP2003116329 A 2003-04-22 JP2003116329

Abstract

(JP2003116329)

PROBLEM TO BE SOLVED: To prevent accumulation of litter to a reaping support base for supporting a reaper provided in a traveling gear case, a by-pass transmission case and a reaping hydraulic valve, etc., and reduce cost of a distribution part of oil to the reaping hydraulic valve, etc., and reduce cost of an attaching part of a blower.SOLUTION: A reaping hydraulic valve 8 is provided at a position apart from a gear train part of a transmission mechanism 4c of the traveling gear case 4 in a protruded space part (a) formed in the traveling gear case 4 by the reaping support base 6 for supporting the reaper provided in the upper part of the traveling gear case 4 and the by-pass transmission case 7 provided on the outside

of either one side of the rear, and an oil flow passage is provided in the traveling gear case 4.The oil is shared with the traveling gear case 4, the oil of the hydraulic stepless variable gear and the oil of the reaping hydraulic valve 8.Each piping for connecting the stepless variable gear and the reaping hydraulic valve 8 is made of metal.

Inventors

SATOJI HISAYUKI

NAGAI TOSHIRO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

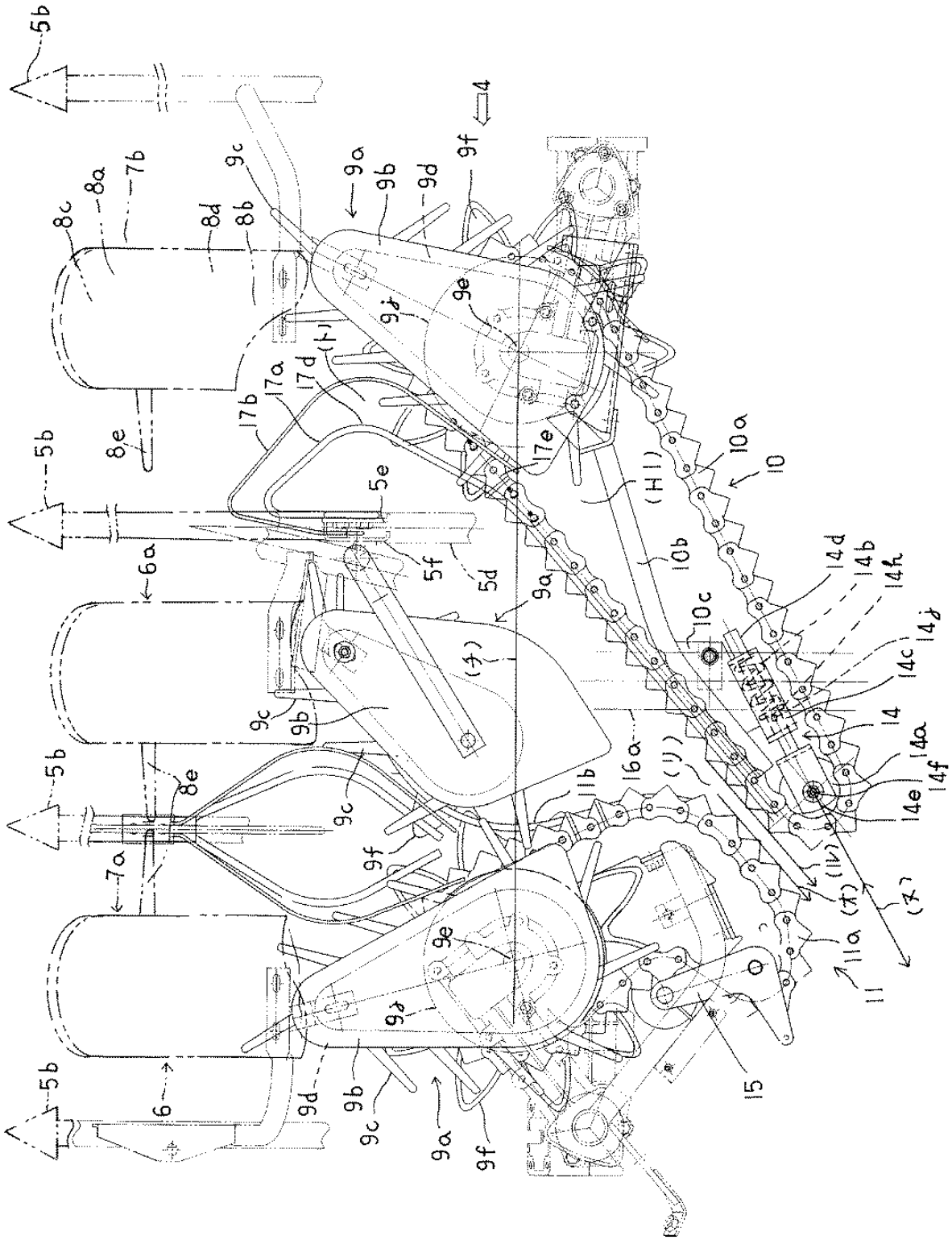
Family 396/667 - FAMPAT - ©Questel

Title

(JP2007117007)

Apparatus for conveying grain culm in combine harvester

Images



Publication data including kind & date

JP2007117007 A 2007-05-17 JP2007117007

Abstract

(JP2007117007)

PROBLEM TO BE SOLVED: To simplify and facilitate the tensioning of a right root-conveying chain of a right/left root-conveying device for conveying reaped grain culms at right and left both sides to the rear upper part, and to reduce the hooking of the grain culm.

SOLUTION: The chain is tensioned by pushing out from the inside to the outside a tension pulley 14a of a tensioning device 14, installed in the end terminal part of conveyance of the right root-conveying chain 10a of the right root-conveying device 10 for succeeding and conveying the grain culms at the right row side in the right and left row sides to the rear upper

part by a compression spring 14b.The apparatus is constituted so that the right root-conveying chain 10a may escape at the conveyance-starting terminal side to form a nipping state, and the root-nipping lever may escape to hold the nipping state at the end terminal side of the conveyance when nipping and conveying the grain culms.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

ANAMI MASAYUKI

SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

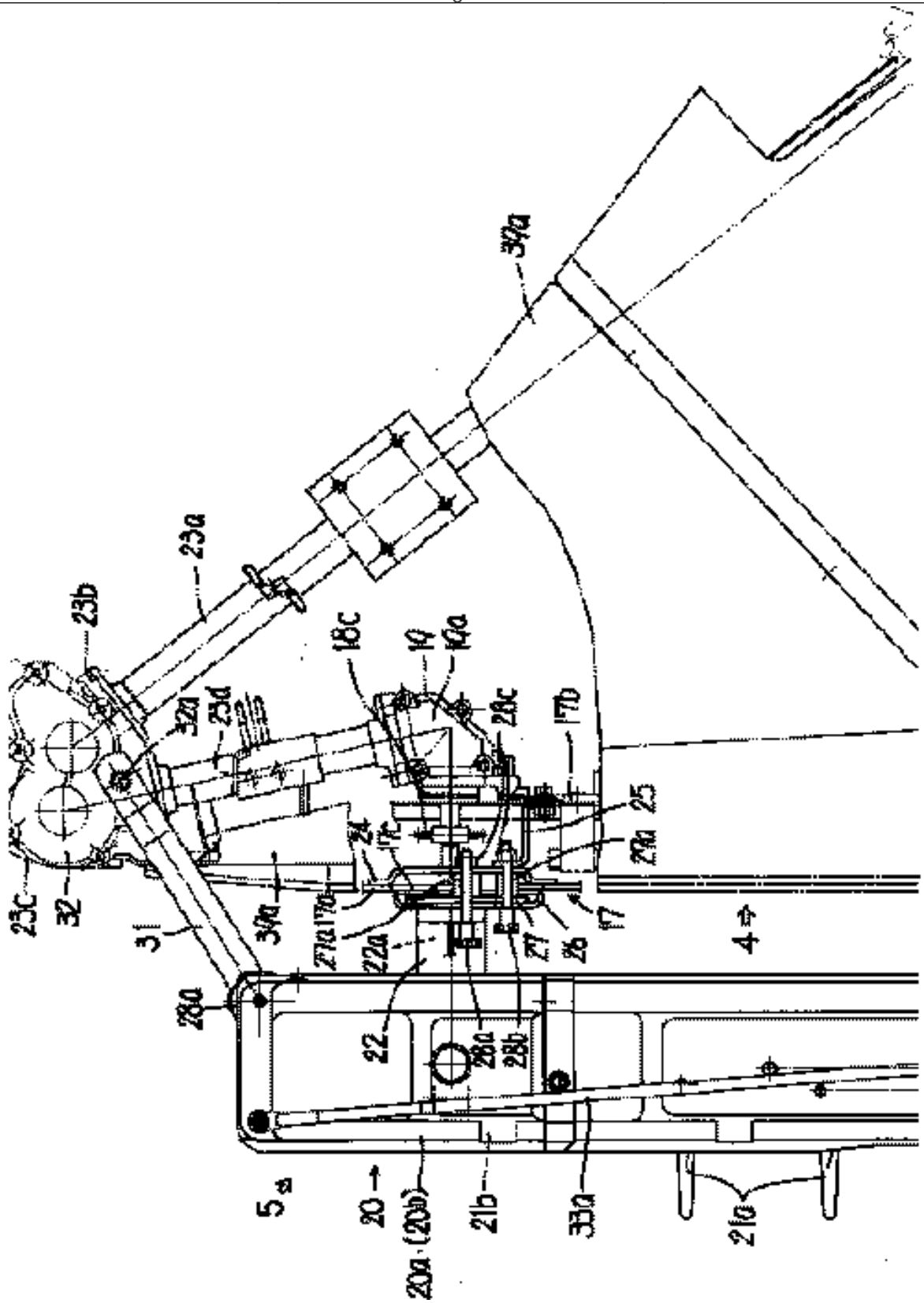
Family 397/667 - FAMPAT - ©Questel

Title

(JP2001333620)

Grain culm raising apparatus for combine harvester

Images



Publication data including kind & date

JP2001333620 A 2001-12-04 JP2001333620

Abstract

(JP2001333620)

PROBLEM TO BE SOLVED: To facilitate disassemblies and assemblies of a front raising case of a raising case for raising grain culms and an auxiliary raising gear case of an auxiliary raising case.SOLUTION: A fitting plate 26 attached to the auxiliary raising gear case 22 of the auxiliary raising case 20 which is equipped with an auxiliary raising lug 21a for raising standing grain culms ahead the raising case 17 and has a built-in rotated and driven auxiliary raising chain 21b is fixed to a reinforcing plate 24 attached to the raising case 17.Each bolt with a dial is attached through the reinforcing plate 24 to a receiving and supporting plate 25 mounted on a rear raising case 17b.

Inventors

TAKAHASHI HAKURO
IIIZUMI KIYOSHI
MIYAKE TATSUYA
KITAGAWA TOMOSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

Family 398/667 - FAMPAT - ©Questel

Title

(SU-673233)
Divider to flax harvester

Publication data including kind & date

SU673233	A1	1979-07-15	SU-673233

Inventors

BYKOV NIKOLAJ N
KOVALEV MIKHAIL M
DVORNICHENKO IVAN F
SMIRNOV ANATOLIJ S

Latest standardized assignees - inventors removed

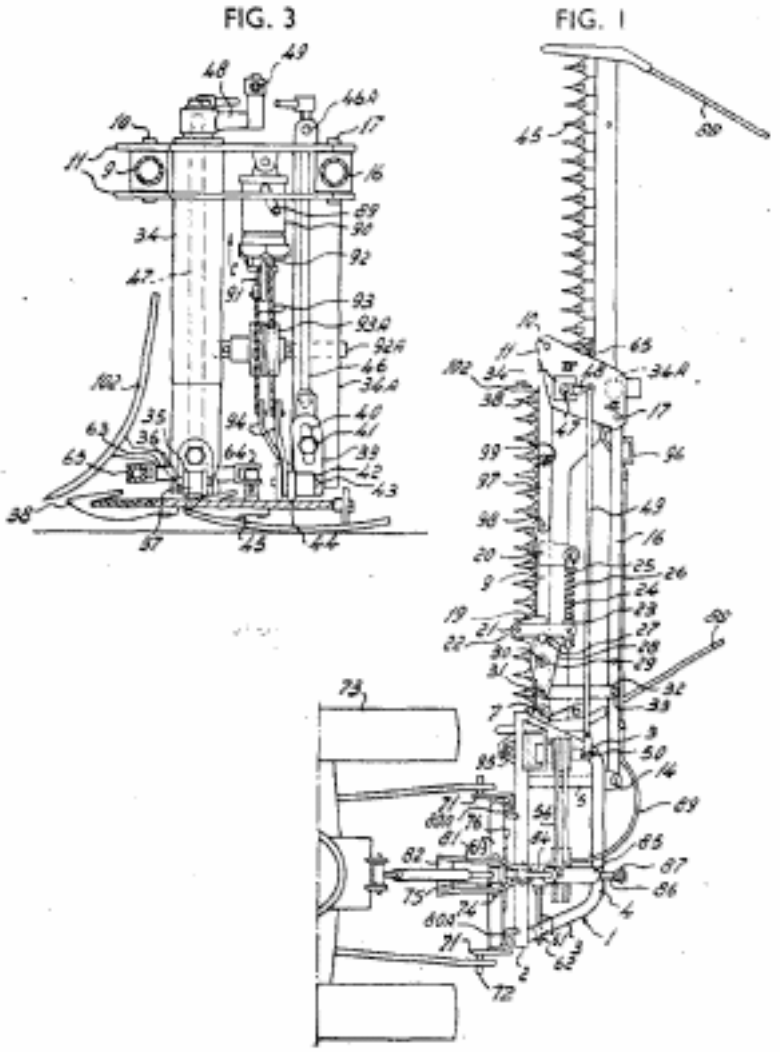
VNII LNA

Family 399/667 - FAMPAT - ©Questel

Title

(US3528228)
Mowing machines

Images



Publication data including kind & date

NL6608501	A	1967-12-18	NL6608501
FR1527598	A	1968-05-31	FR1527598
DE1582293	A1	1970-04-30	DE1582293
GB1199054	A	1970-07-15	GB1199054
GB1199053	A	1970-07-15	GB1199053
US3528228	A	1970-09-15	US3528228
DE1582293	B2	1978-11-23	DE1582293
DE1582293	C3	1979-07-26	DE1582293

Abstract

(US3528228)

1,199,054. Mowing machines.C.VAN DER LELY N.V. 30 May, 1967 [17 June, 1966], No. 43702/69.Divided out of 1,199,053.Heading A1F.The subject matter of this specification is wholly included in that of Specification No. 1199053, but the claims relate to a mowing machine arranged for rearward pivoting of the mowing beams relative to the towing vehicle for transport.

(From GB1199054 A)

Inventors

LELY CORNELIS VAN DER

LELY ARY VAN DER

Latest standardized assignees - inventors removed

C VAN DER LELY MAASLAND

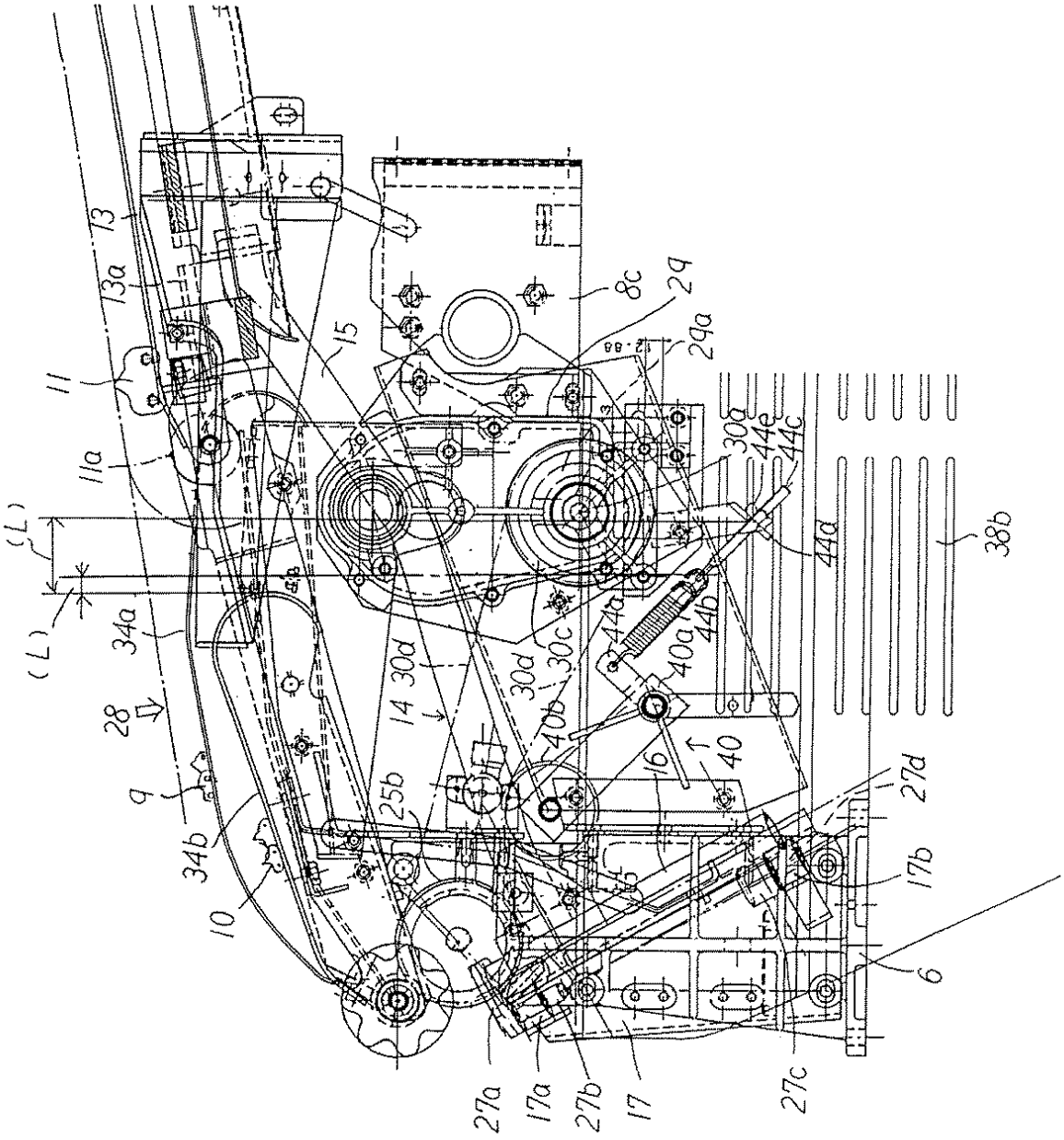
Family 400/667 - FAMPAT - ©Questel

Title

(JP2002233230)

Grain stalk conveyor for combined harvester

Images



Publication data including kind & date

JP2002233230	A	2002-08-20	JP2002233230
JP4670155	B2	2011-04-13	JP4670155

Abstract

(JP4670155)

PROBLEM TO BE SOLVED: To solve a problem that a supporting lever frame for supporting a supporting lever for operating the opening and closing of a feed chain of a thresher and a reaping and supporting apparatus for supporting a support pipe case of a vertical rotation fulcrum of a reaping machine are separately arranged on a traveling chassis so that strength is insufficient.SOLUTION: This grain stalk conveyor has a constitution that the supporting lever frame 17 for supporting a revolving shaft 16 which is arranged at the front part of the supporting lever 15 for supporting and opening and closing the feed chain 11 of the thresher 8 and is the center (a) of rotation is attached to the reaping and supporting apparatus 6 installed at the upper side of the traveling chassis 2 for supporting a support pipe case 5 to be the vertical

rotation fulcrum of the reaping machine 3, integrally formed and the front edge of the supporting lever 15 is arranged approximately at the central part in the vertical direction of the revolving shaft 16.

Inventors

MATSUI MASAMI
IMAMURA HIDEKAZU
TAKEUCHI KENICHIRO
ICHIMARU TOMOYUKI
TOYODA KAZUO
TAGAMI KAZUNARI

Latest standardized assignees - inventors removed

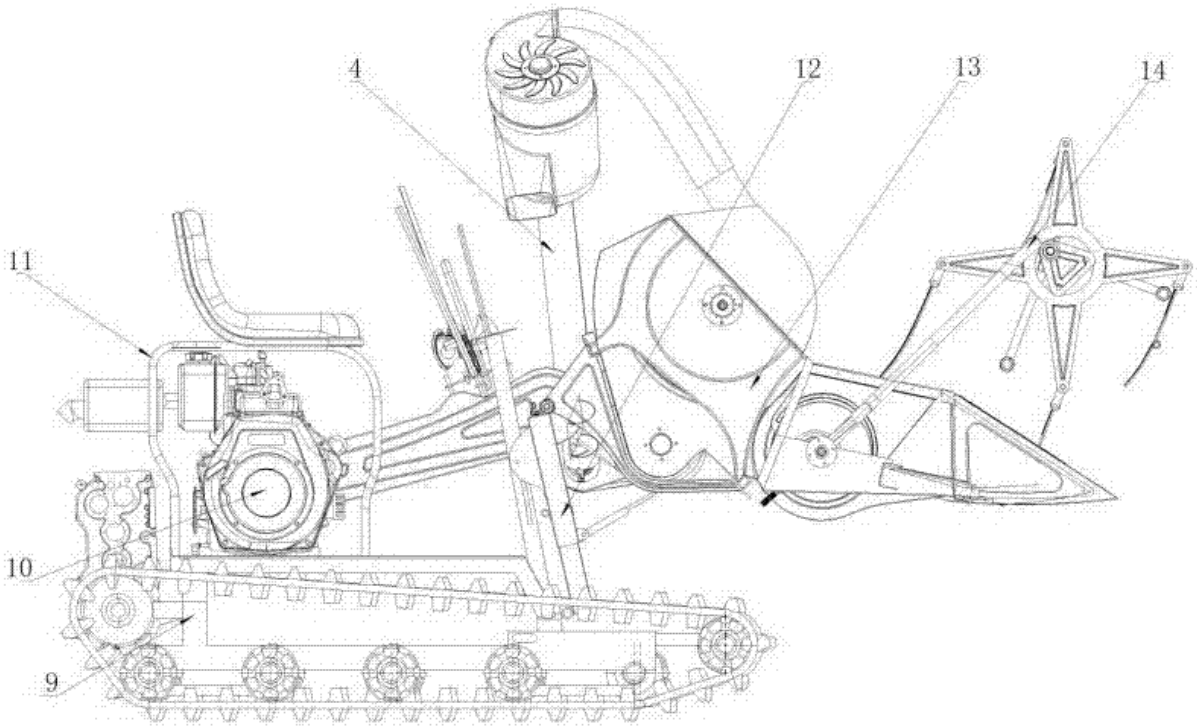
ISEKI AGRICULTURAL MACHINERY

Family 401/667 - FAMPAT - ©Questel

Title

(CN206879457U)
Micro combine

Images



Publication data including kind & date

CN206879457	U	2018-01-16	CN206879457U

Abstract

(CN206879457U)

The utility model discloses a micro combine, its characterized in that: respectively add outside scraping (7) two lower pipes of grain board a spring (15), the mouth of putting out cereal that the seed grain rose a fortune section of thick bamboo is a plurality of waists shape hole (16), reel bracing piece (14) divide into the split type bracing piece of three -section, add connection flap (22) one end and micro combine's chassis be connected, connect the flap other end and thresh an assembly with to go up and down box (12) articulated with the header respectively, the hinge mount and the chassis hinged joint of lower box weldment, go up on the box weldment last hinge sleeve with be connected the flap and articulate, the hydro -cylinder fixed hinge frame of going up the hinge is articulated with the hydro -cylinder, the hydro -cylinder other end and header are threshed, and a section of thick bamboo is articulated have been constituted a crank and has shaken a mechanism.The utility model discloses rice head, weeds in the reducible seed grain of threshing, reduction in production cost 10%, the header can wholly go up and down, guarantees that header and ground planar angle do not change.

Inventors

GAO YOUREN

CENG XIANGUO

LI WENCHENG

LAN BING

Latest standardized assignees - inventors removed

NANCHONG FUPAI AGRICULTURAL MACHINERY

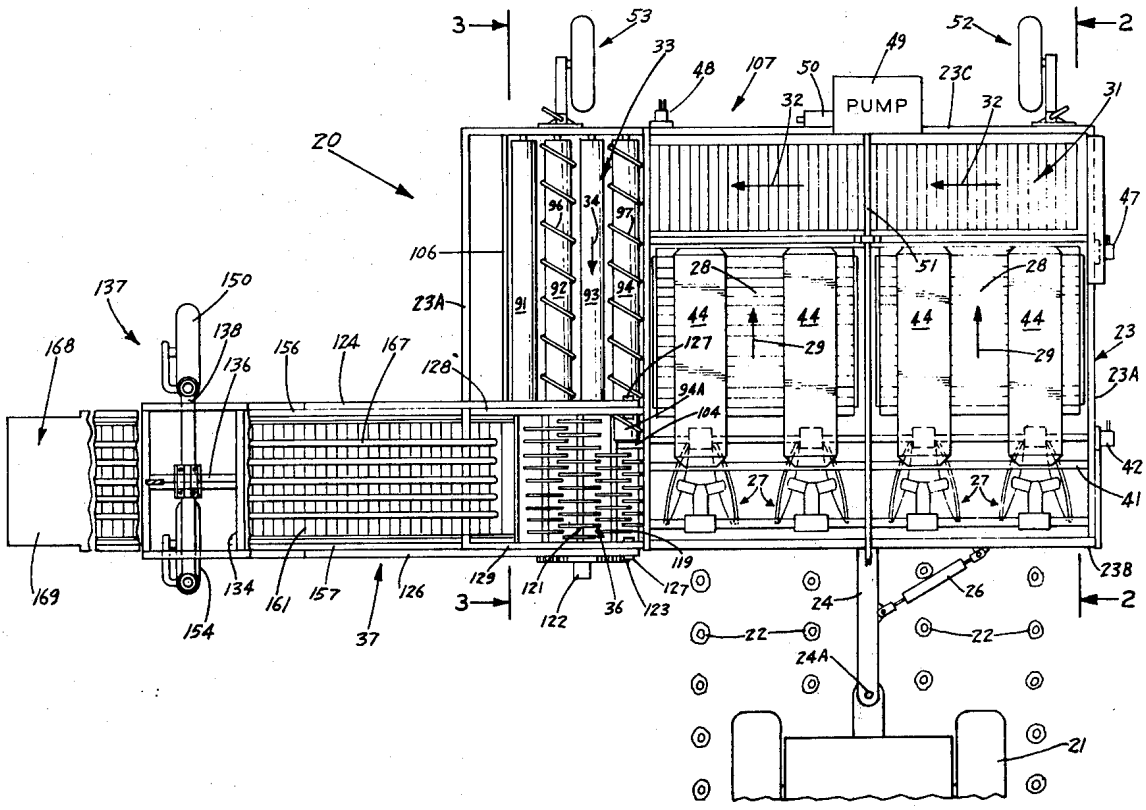
Family 402/667 - FAMPAT - ©Questel

Title

(US4049058)

Sugar beet harvester

Images



Publication data including kind & date

US4049058 A 1977-09-20 US4049058

Abstract

(US4049058)

A machine for lifting sugar beets from the soil, separating the soil and foreign matter from the sugar beets and elevating the sugar beets for loading on a transport vehicle.The machine has beet lifting wheels which lift the beets from the soil and direct the beets to link conveyors.The conveyors carry the beets to one end of a grab and cleaning roller assembly.The grab and cleaning roller assembly has a plurality of smooth and spiral ribbed rollers that are rotated to clean and move the beets the length of the roller assembly to a disc assembly.The disc assembly comprises a plurality of discs that are rotated in a direction to move the beets to the inlet area of a loading elevator.The loading elevator is independently supported on the ground with a wheel assembly.Adjusting structure is used to adjust the heighth of the elevator.Separate controlled hydraulic motors are operable to drive the conveyors, the disc assembly and the loading elevator.A pump mounted on the machine is operable to deliver hydraulic fluid under pressure to the separate hydraulic motors.

Inventors

EISENHARDT FRED W

TONSFELDT WAYNE S

Latest standardized assignees - inventors removed

ALLOWAY MANUFACTURING

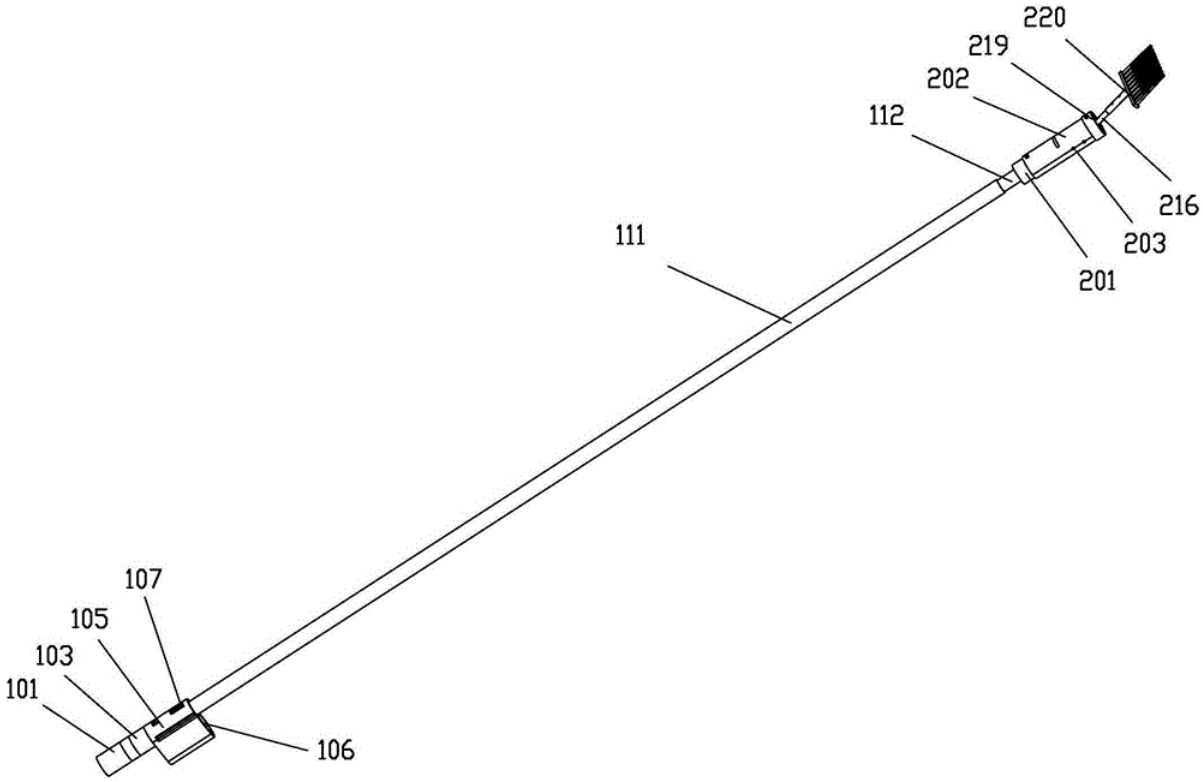
Family 403/667 - FAMPAT - ©Questel

Title

(CN104429364)

Handheld type fruit beating rod

Images



Publication data including kind & date

CN104429364	A	2015-03-25	CN104429364
CN104429364	B	2016-08-24	CN104429364B

Abstract

(CN104429364B)

The invention relates to a handheld type fruit beating rod.A picking machine adopting the handheld type fruit beating rod has the advantages of being high in picking efficiency and low in labor intensity.The picking handheld type fruit beating rod is simple in structure, low in cost, easy to control, reliable in performance and convenient to carry.According to the technical scheme, the handheld type fruit beating rod is characterized by comprising a battery assembly, a rod body, a handheld telescopic mechanism and a front-end executing mechanism, wherein the rod body is composed of a handheld handle and a telescopic rod inserted into the handheld handle in a sliding mode, the handheld telescopic mechanism is arranged at the rear end of the rod body, the front-end executing mechanism is arranged at the front end of the rod body, the handheld telescopic mechanism comprises a lead screw mechanism and a first motor, the lead screw mechanism drives the telescopic rod and the handheld handle to slide relative to each other, the first motor provides power for the lead screw mechanism, the front-end executing mechanism comprises a swinging rod, a crank mechanism and a gear mechanism, the swinging rod is hinged to the front end of a closed pipe in a swinging mode and provided with a bat, the crank mechanism drives the swinging rod to swing in a reciprocating mode, and the gear mechanism transmits the power of a second motor to the crank mechanism.

Inventors

DU XIAOQIANG

GAO QI

WANG DAN
YUAN BO
JIAO YINGYING
LIN LEPENG
WU CHUANYU

Latest standardized assignees - inventors removed

ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY

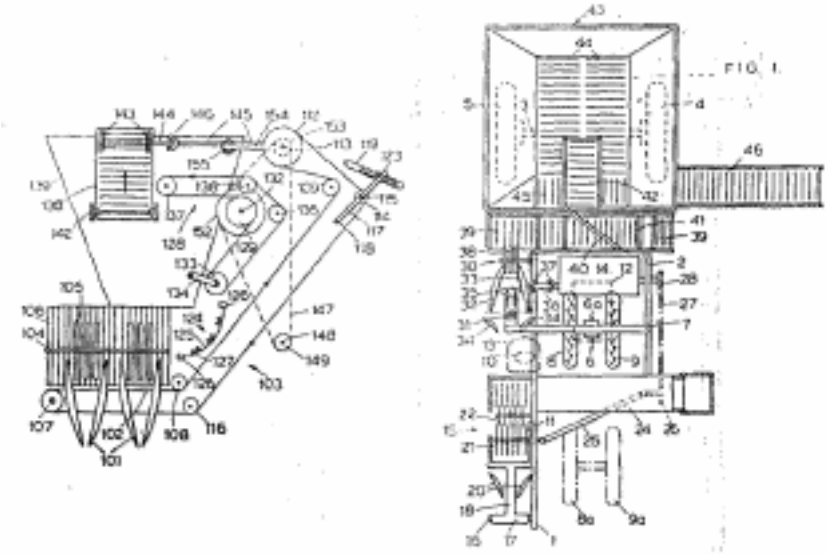
Family 404/667 - FAMPAT - ©Questel

Title

(GB1058191)

Improvements in beet or like root crop harvesters

Images



Publication data including kind & date

GB1058191	A	1967-02-08	GB1058191

Abstract

(GB1058191)

1,058,191. Root-crop harvesters.J.D.DYSON and C.R.DYSON.Jan. 13, 1964 [Oct. 12, 1962], No. 38800/62.Heading A1F.A self-propelled beet-harvester is mounted on rear driving wheels 4, 5 and front steerable wheels 8, 9, and has topping and digging units 15, 30 laterally offset from the front wheels so that the latter do not pass over the undug crop.As shown in Fig. 1, the machine-frame comprises parallel longitudinal beams 1, 2 supporting a cross-member 7 on which the front wheel assembly is mounted so as to be pivotable about a longitudinal axis 6a.There is also an alternative position 8a, 9a for the frontwheel assembly.A stub shaft 16 pivotally supports an arm 18 carrying the driven feeler discs 21 which are followed by a stripper drum 22 and topping knife, the tops being carried away transversely by a conveyer 24.A leaf-clearing spinner (not shown) may be mounted between the topping unit and the digging unit 30 which comprises disc-coulters 34 followed by power-driven rotary digging discs 32, 33.A flail 38 throws the beet on to a transverse elevator 39 which is turned back on itself to discharge the crop, with the aid of a deflector 40, on to a longitudinal elevator discharging into a tank 43.The tank has an apron floor 44 feeding to a transverse elevator 45, 46, for discharging purposes.In the modification shown in the drawing accompanying the complete Specification two or more power-driven digging discs 101 feed crop to the horizontal run 102 of an elevator 103, with the aid of flails 105 which throw the crop against a vertical grid 106.A weighted chain 124 hangs against the upper run of the elevator 103, and, together with a chain conveyer 128, defines an area within which the beet is tumbled before passing over the upper run of the conveyer 128 to the elevator 138 which discharges into a tank 139.

Latest standardized assignees - inventors removed

JOHN DOUGLAS DYSON

CHARLES RODNEY DYSON

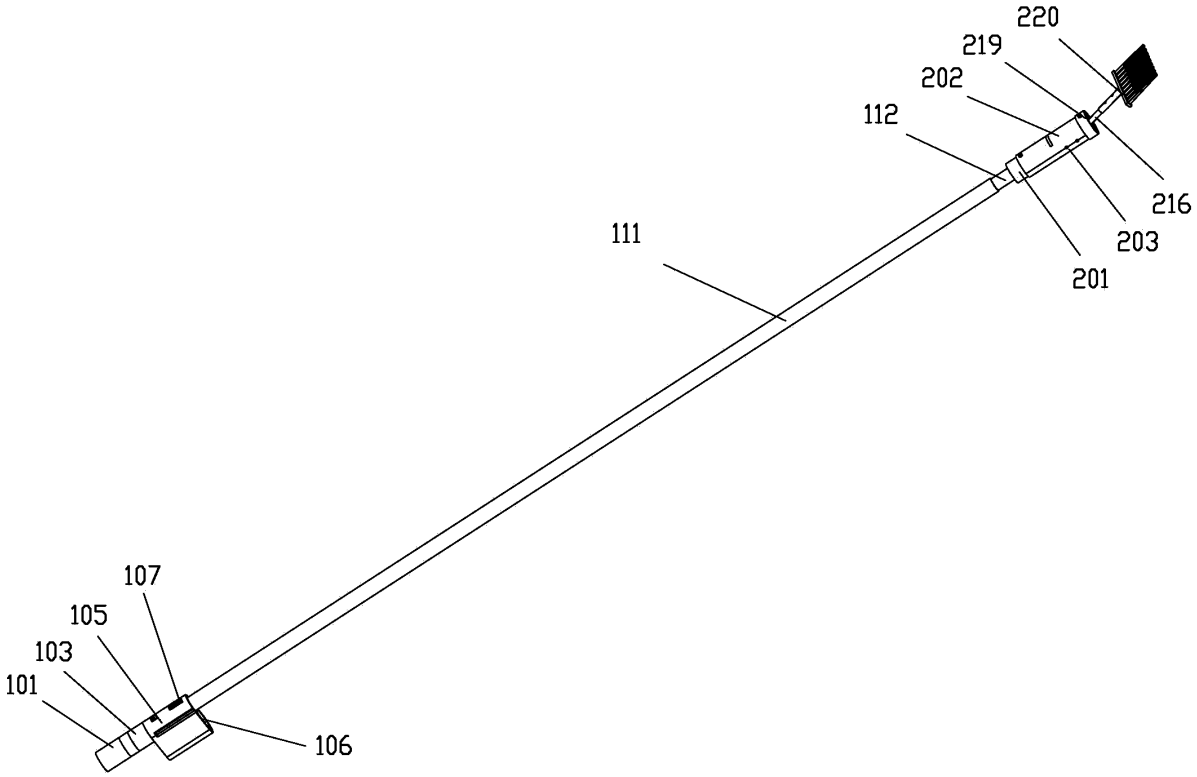
Family 405/667 - FAMPAT - ©Questel

Title

(CN204305646U)

Handheld fruit knocking rod

Images



Publication data including kind & date

CN204305646	U	2015-05-06	CN204305646U

Abstract

(CN204305646U)

The utility model relates to a handheld fruit knocking rod.The handheld fruit knocking rod aims to allow a picking machine to have the advantages of being high in picking efficiency and low in labor intensity, besides, the handheld fruit knocking rod is simple in structure, low in cost, easy to control, reliable in performance and convenient to carry.According to the technical scheme, the handheld fruit knocking rod is characterized by comprising a battery assembly, a rod body, a handheld telescopic mechanism and a front-end actuator, wherein the rod body is composed of a handheld handle and a telescopic rod which is sleeved with the handheld handle in a sliding mode, the handheld telescopic mechanism is arranged at the rear end of the rod body, and the front-end actuator is arranged at the front end of the rod body.The handheld telescopic mechanism comprises a lead screw mechanism and a first motor, wherein the lead screw mechanism drives the telescopic rod and the handheld handle to slide relatively, and the first motor provides power for the lead screw mechanism.The front-end actuator comprises a swing rod, a crank mechanism and a gear mechanism, wherein the swing rod is hinged to the front end of a closed tube in a swinging mode and provided with a knocker, the crank mechanism drives the swing rod to swing in a reciprocating mode, and the gear mechanism transfers power of a second motor to the crank mechanism.

Inventors

DU XIAOQIANG

GAO QI

WANG DAN

YUAN BO

JIAO YINGYING

LIN LEPENG

WU CHUANYU

Latest standardized assignees - inventors removed

ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Family 406/667 - FAMPAT - ©Questel

Title

(US2977743)

Rotary wheel raking device

Images

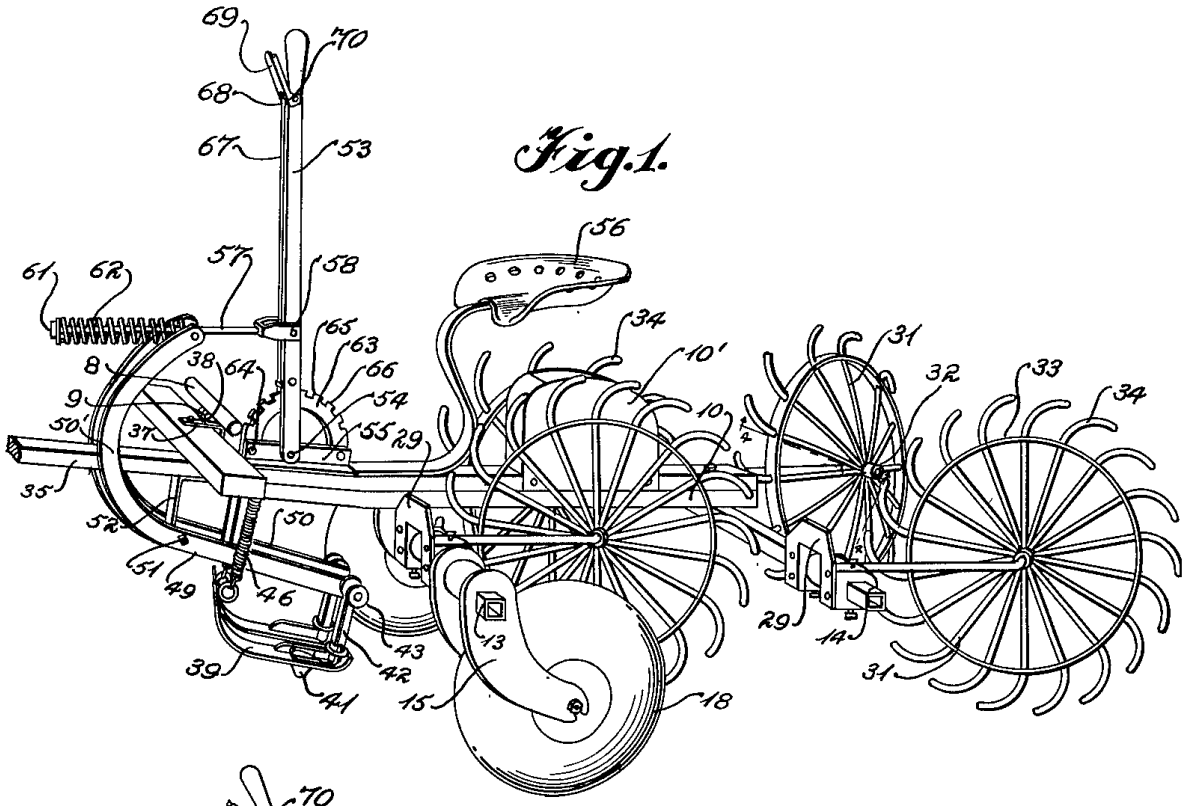


Fig.1.

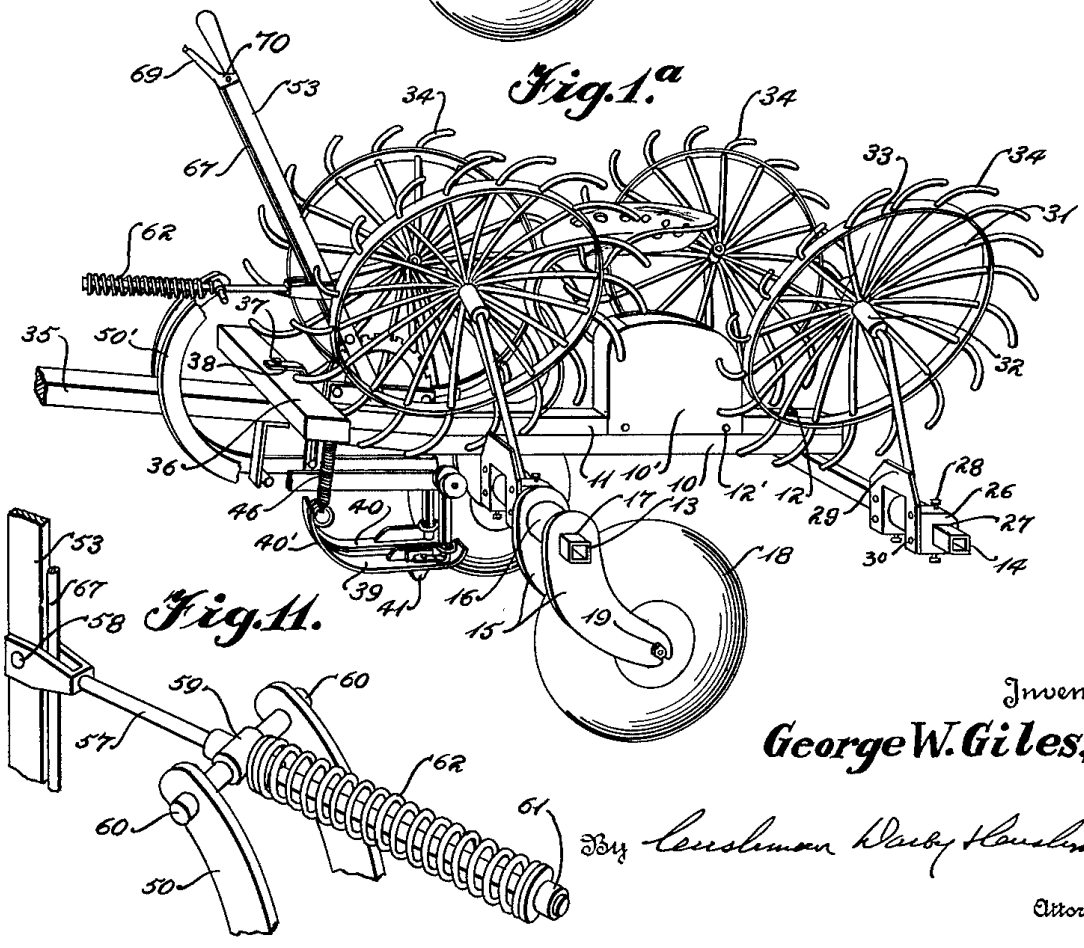


Fig.1a.

Fig.11.

Inventor
George W. Giles,
By Cushman Darby & Cushman
Attorneys

Publication data including kind & date

US2977743 A 1961-04-04 US2977743

Inventors

GILES GEORGE W

Latest standardized assignees - inventors removed

DAFFIN

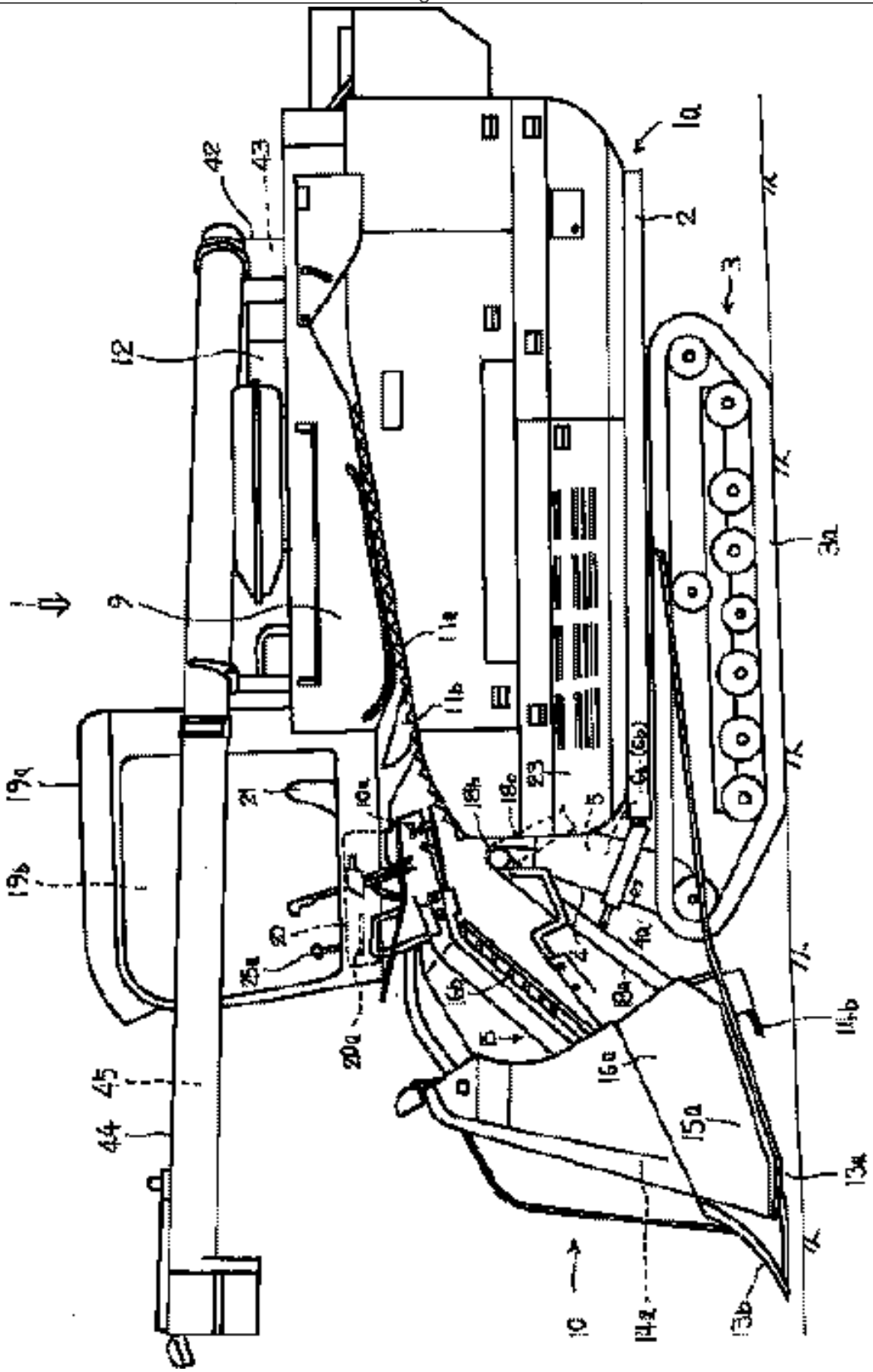
Family 407/667 - FAMPAT - ©Questel

Title

(JP2003225013)

Travel operation apparatus of combine harvester

Images



Publication data including kind & date

JP2003225013 A 2003-08-12 JP2003225013

Abstract

(JP2003225013)

PROBLEM TO BE SOLVED: To solve a problem that the deterioration of cutting trails, the cutting of grain straws in an un-cutting area with a cutting member or the cutting of soil in a field with the cutting member is caused, when a rake-in pedal is depressed to stop a travel device during a grain straw-reaping work on a ridge side or the like.

SOLUTION: A rake-in pedal 7 for engaging or disengaging the right and left side clutches 6a, 6b of a travel mission case 4 for rotating the travel device 3 is depressed to stop the travel device, and an elevating cylinder 17 for elevating a machine frame 1a is operated with a controller 20a.Right and left rolling cylinders 8a, 8b for controlling the rolling of the travel device

on the stop of travel are operated to elevate the machine frame 1a.Right and left equalizing cylinders 48a, 48b for moving rotation wheels for the travel crawlers 3a of the travel device 3 are operated to elevate the machine frame 1a.

COPYRIGHT: (C)2003,JPO

Inventors

KUROKAWA MASAHIRO

NISHIZAKI HIROSHI

TSUJI KENTARO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

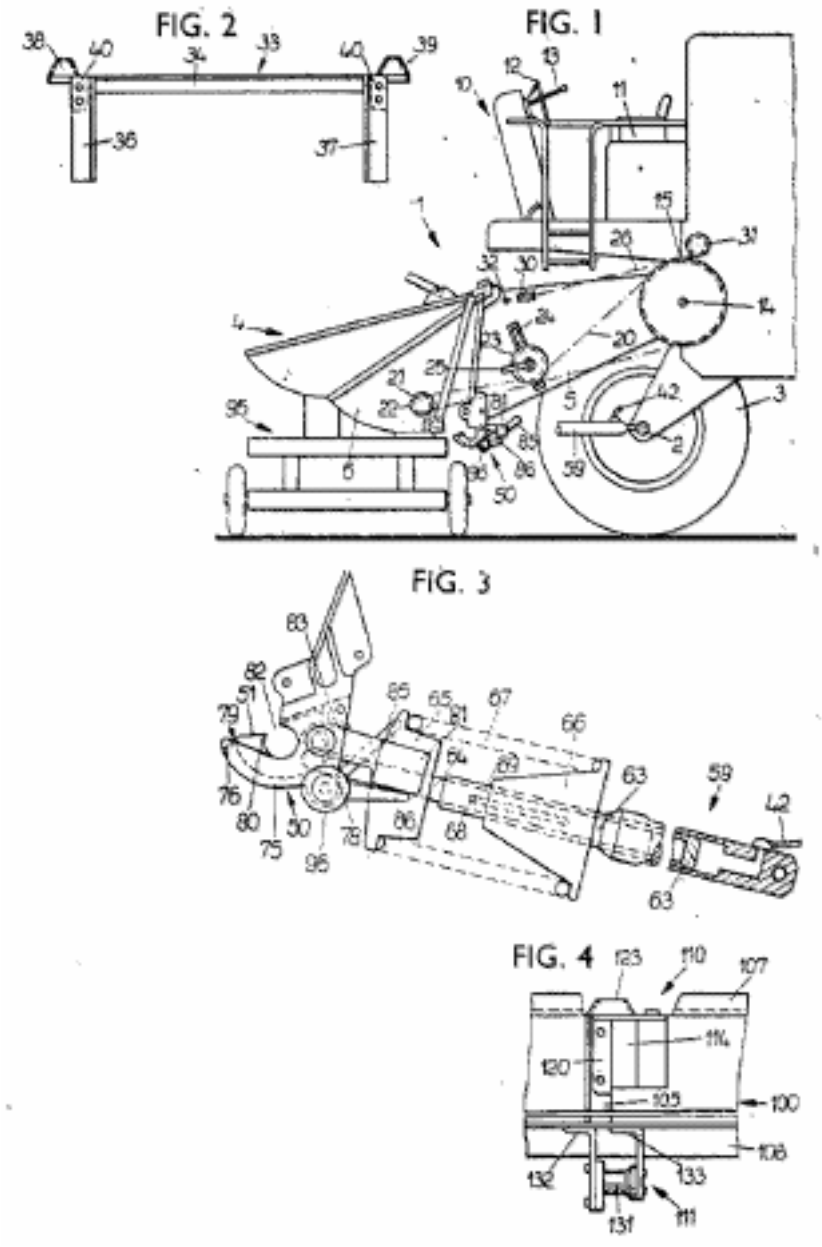
Family 408/667 - FAMPAT - ©Questel

Title

(US3488930)

Combine detachable header

Images



Publication data including kind & date

FR1544640	A	1968-10-31	FR1544640
ES347298	A1	1969-01-16	ES-347298

DE1507212	A1	1969-11-06	DE1507212
US3488930	A	1970-01-13	US3488930
GB1206648	A	1970-09-23	GB1206648

Abstract

(US3488930)

1,206,648. Combine harvester.DEERE & CO. 17 Nov., 1967 [19 Nov., 1966], No. 52356/67.Heading A1P.In a combine harvester, a detachable mowing unit 4 is coupled to a vertically movable inclined conveyer 5 by a coupling apparatus comprising two horizontally spaced load bearing points on the conveyer 5 co-operating with complementary bearing points on the unit, and a pair of automatic latch devices (49), 50.The bearing points are disposed on upper portions of the unit 4 and the conveyer 5 and have pyramidal or conical shaped elements 38, 39, Fig. 2, and 122, Fig. 4, and the latch devices (49), 50 have locking catches 79, Fig. 3, on the conveyer and pins 131, Fig. 4, on the unit.The elements 38, 39 on the conveyer fit into hollow elements on the unit.For coupling, the harvester is brought behind the mowing unit 1 supported on a transport vehicle 95, elements 38, 39 are admitted in elements 122 from below and the conveyer 5 elevated so that the mowing unit, now lifted up swings due to its own weight and the pins 131 press against surfaces 51 of pivoted, counterweighted gripping- hooks 80 and slip into circular openings 82 in the hooks 80.Counterweight 81 of each hook 80 biases the hook clockwise.In other embodiments ,the lower hooks on the conveyer may be open from below and have a pull-cable (146) attached thereto for uncoupling (Fig. 9, not shown).The upper elements 38, 39, 123 may be replaced by hooks and pins (Fig. 10, not shown) which hooks may be disposed on mechanically, hydraulically or pneumatically operated piston rods (Fig. 12, not shown) so that the hooks can be extended out as required, to trap the pins on the mowing unit.These piston rods may be single acting in which case a retraction cable (163) is provided, or they may be double acting (Fig. 13, not shown).The hooks and pins may be displaceable horizontally (Fig. 14, not shown).The piston rods may be held in their middle position by spring elements.

(From GB1206648 A)

Inventors

GORSLER KARL-GUNTER
MIERSWA JOACHIM
HEINE CLAUS-DIETER
SARTORIUS PETER
FELDMANN BERNHARD

Latest standardized assignees - inventors removed

DEERE

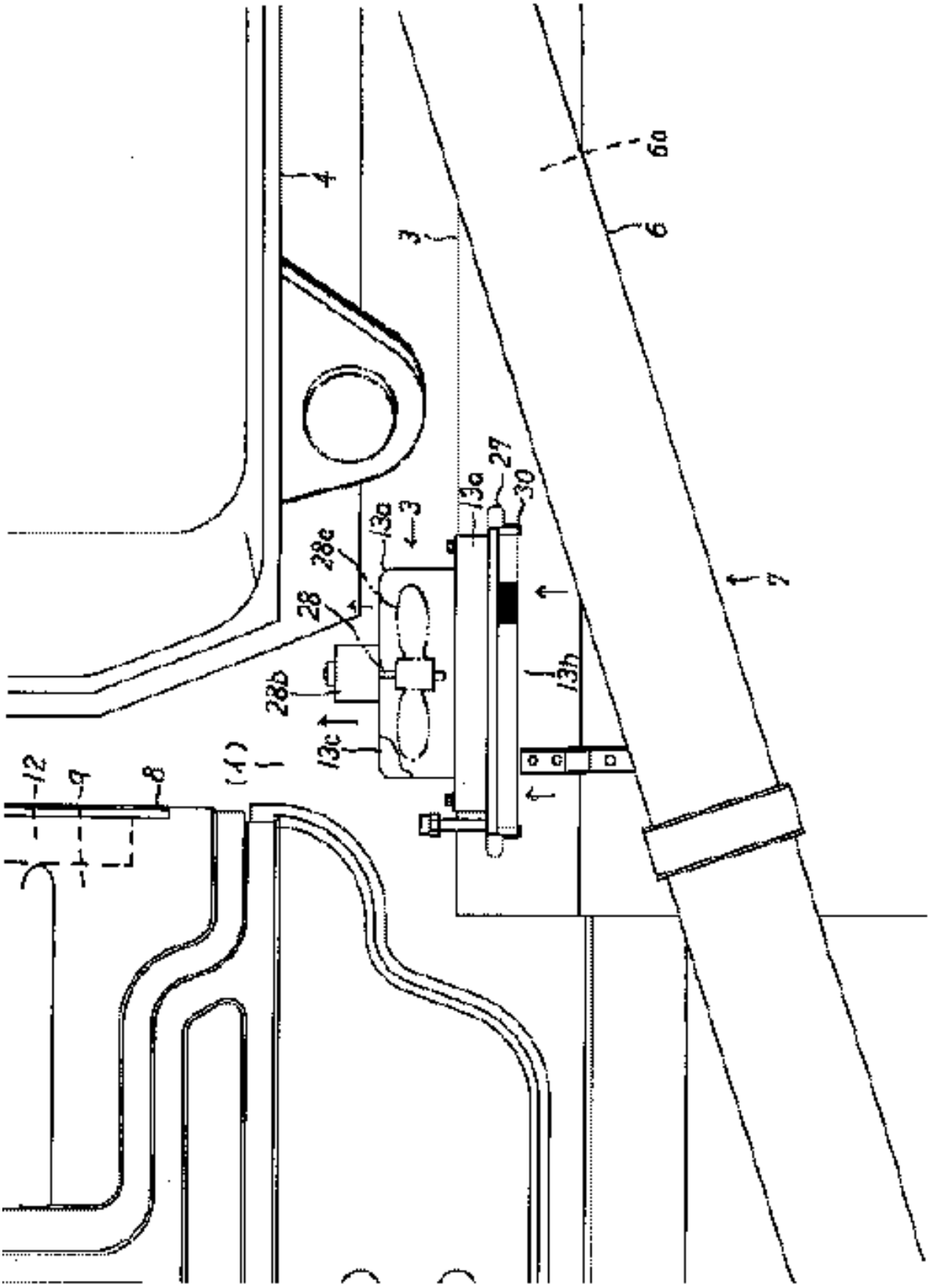
Family 409/667 - FAMPAT - ©Questel

Title

(JP2003116328)

Capacitor-attaching device of combine harvester

Images



Publication data including kind & date

JP2003116328 A 2003-04-22 JP2003116328

Abstract

(JP2003116328)

PROBLEM TO BE SOLVED: To facilitate opening and closing of a threshing cylinder cover in order to solve a problem in which the weight of the threshing cylinder cover was heavy and opening and closing thereof was difficult, because a conventional capacitor for air conditioners is installed on the openable threshing cylindrical cover.SOLUTION: A grain storage tank 4 in which grain discharge device 7 is installed is provided on the lateral side of a thresher 3 on the upper side of a traveling vehicle base and an operating chamber 9 formed of an operating chamber frame 8 is provided in the front and a capacitor 13 for air conditioners 12 installed in the operating chamber 9 is provided in a space part (a) between the

grain storage tank 4 and the operating chamber frame 8 in front of a vertical discharge supporting cylinder of the grain discharge device 7 and a cooling fan shaft 28 for the capacitor 13 is nearly horizontally provided and an outer case 13a for forming the capacitor 13 is nearly vertically provided and a washer tank is provided on the attaching frame 27 for attaching the capacitor 13 to enable confirmation of residual amount of water in a washer tank and supply of water from the interior of the operating chamber 9.

Inventors

HAGIYAMA TAKESHI

YAMAMOTO JIRO

AKAMATSU KATSUTOSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

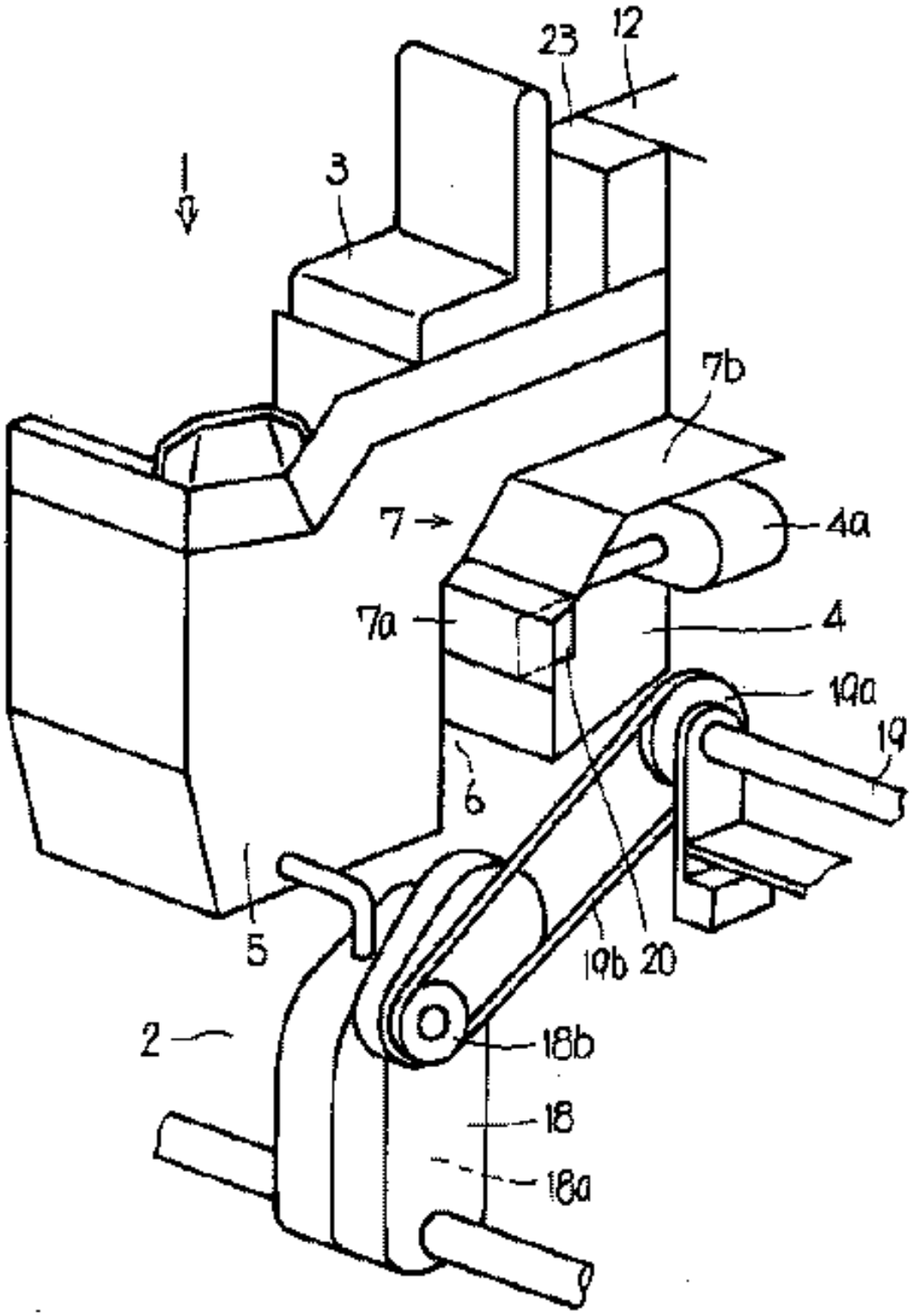
Family 410/667 - FAMPAT - ©Questel

Title

(JP2002209422)

Device for guiding hot air of engine in combine harvester

Images



Publication data including kind & date

JP2002209422 A 2002-07-30 JP2002209422

Abstract

(JP2002209422)

PROBLEM TO BE SOLVED: To release an operator from uncomfortable harvesting operation caused by the hot air from an engine passing the side of an operator getting on a driver's seat and carrying out the driving operation at a season when the operation is carried out by preventing the operator from feeling hot, or further to prevent the hot air from directly being sent to a reaping input pulley.SOLUTION: This device for guiding the hot air of the engine is constituted so that the hot air generated by the engine 4 at the lower side of the driver's seat 3 at the upper side of a traveling undercarriage 2 may be exhausted from a exhausting opening 6 of a side divider 5 at the side of the driver's seat 3, and the device may have a hot

air-guiding plate 7 for guiding the hot air rearward, and installed in the upper side of the exhausting opening 6, a guiding plate 20 for preventing the contact of the hot air with the reaping input pulley 19a for rotatably driving a reaping machine, and installed in the hot air-guiding plate 7, and upper front noiseproof cover for noise proofing and thermal protection, and installed in the upper side of the engine 4.

Inventors

WATANABE HITOSHI
KUROKAWA MASAHIRO
SHIRAKATA MIKIYA
NISHIZAKI HIROSHI
TSUJI KENTARO

Latest standardized assignees - inventors removed

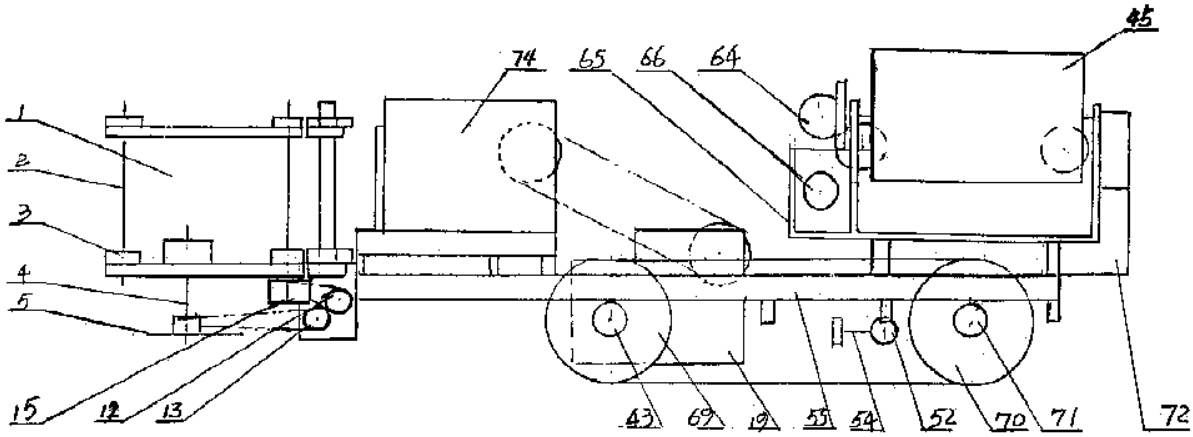
ISEKI AGRICULTURAL MACHINERY

Family 411/667 - FAMPAT - ©Questel

Title

(CN2306640U)
Combine

Images



Publication data including kind & date

CN2306640	Y	1999-02-10	CN2306640U

Abstract

(CN2306640U)

The utility model discloses a combine harvester.The transfer mechanism of the utility model is composed of a vertical transfer device, a horizontal transfer device and a turnover device, wherein, the vertical transfer device and the horizontal transfer device are all tooth-shaped chain-sprocket transfer; the turnover device is flat belt transfer.A threshing mechanism comprises a pressing device, wherein, the pressing device is composed of a pressing down device and a tooth-shaped chain transfer device arranged on the lower part of the pressing down device; a cutter in a straw cutting device is a tooth-shaped round disk cutter; a walking device is a crawler-typed structure.The combine harvester with the structure has the harvesting speed of 2 mous per hour.Rice and wheat straws can be recovered and used by the utility model.The utility model has the advantages of small size and convenient operation.In addition, the utility model can be matched with other farm machines.The utility model is suitable for small flat dams and mountain areas.

Inventors

TIAN JIANLIANG
CAO MINGHONG

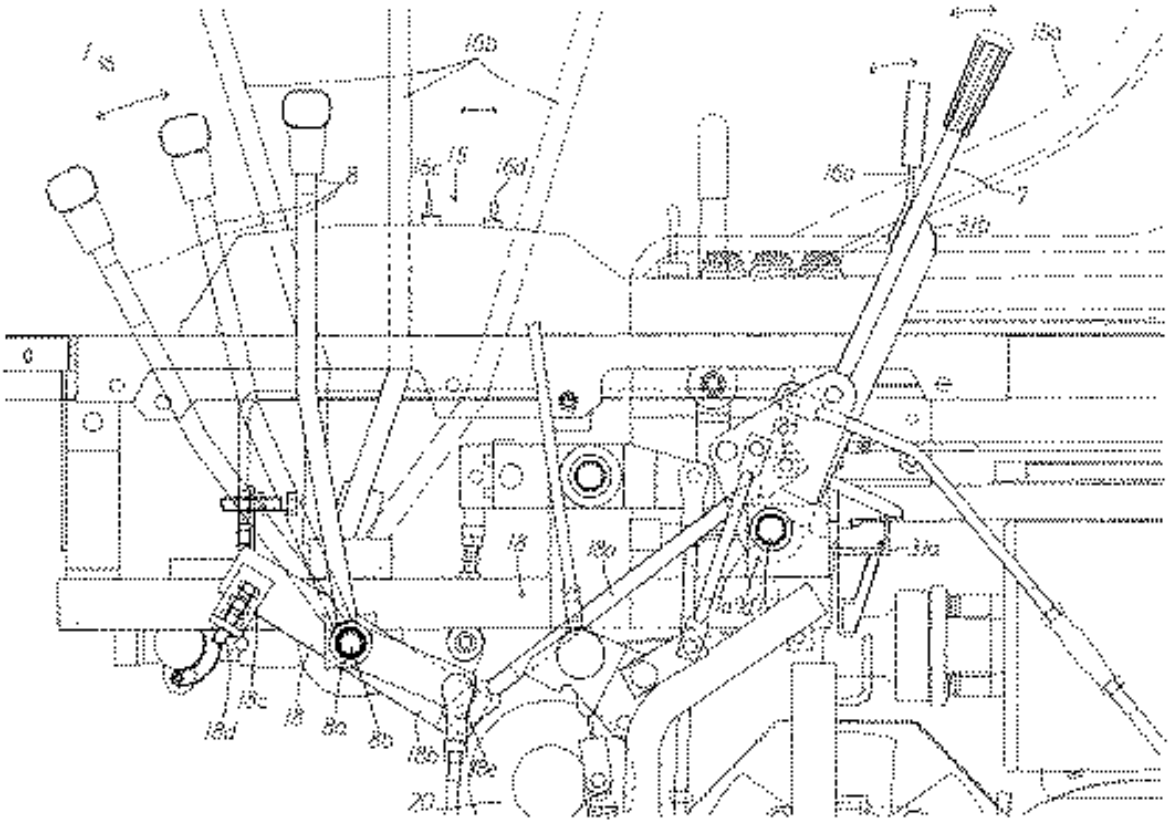
Family 412/667 - FAMPAT - ©Questel

Title

(JP2004305178)

Reaping lever-switching device in combine harvester

Images



Publication data including kind & date

JP2004305178 A 2004-11-04 JP2004305178

Abstract

(JP2004305178)

PROBLEM TO BE SOLVED: To automatically stop the rotational driving of a reaping machine and a threshing machine at high-speed traveling at road rolling.

SOLUTION: A reaping lever 7 for carrying out the on-off operation of the reaping machine is operated to off when a sub-speed-change device 21 is operated by a sub-speed-change lever 8 to the rotary driving at high revolution in an on-off structure by a mechanical structure and an electric structure in a feed chain for receiving grain culms from the reaping machine for reaping and conveying the grain culms, and nipping and conveying the grain culms in the threshing machine.The reaping lever 7 and the sub-speed-change lever 8 are constituted so as to be linked by a link structure 18.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

SATOJI HISAYUKI

NAGAI TOSHIRO

IWAMOTO HIROSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

Family 413/667 - FAMPAT - ©Questel

Title

(SU1209069)

Digging working member for root harvester

Publication data including kind & date

SU1209069 A1 1986-02-07 SU1209069

Inventors

MAKSIMOV LEONID M
KOREPANOV YURIJ G
MAKSIMOV PAVEL L

Latest standardized assignees - inventors removed

IZHEV SELSKOKHOZ I

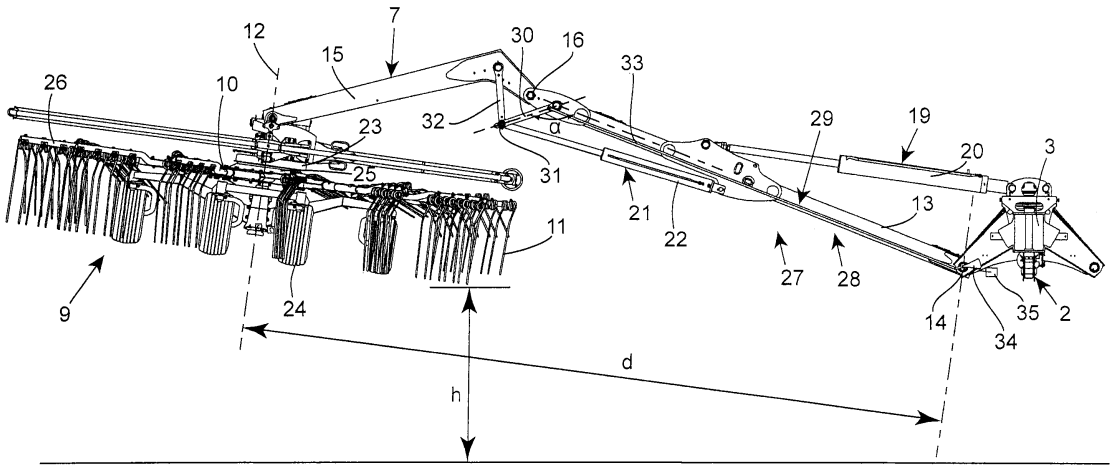
Family 414/667 - FAMPAT - ©Questel

Title

(EP2818036)

Harvesting machine

Images



Publication data including kind & date

BR102014015608	A1	2014-08-12	BR102014015608
US20140373496	A1	2014-12-25	US20140373496
FR3007240	A1	2014-12-26	FR3007240
CN104247606	A	2014-12-31	CN104247606
EP2818036	A1	2014-12-31	EP2818036
AU2014203269	A1	2015-01-22	AU2014203269
FR3007240	B1	2015-06-12	FR3007240
BR102014015608	A2	2015-11-17	BR102014015608
RU2014125541	A	2015-12-27	RU2014125541
AR096700	A1	2016-01-27	AR--96700
EP2818036	B1	2016-05-25	EP2818036
DK2818036	T3	2016-09-12	DK2818036T
SI2818036	T1	2016-09-30	SI2818036T
AU2014203269	B2	2017-06-15	AU2014203269
RU2653764	C2	2018-05-14	RU2653764
CN104247606	B	2018-10-12	CN104247606B

Abstract

(EP2818036)

The present invention relates to a harvesting machine with an arm comprising a first part articulated to a chassis and a second part connected to the first part and carrying a work tool, with first and second devices used for adjusting a distance between the work tool and the chassis, between minimum and maximum values, and for displacing the work tool vertically between a work position and a raised position above the ground, and with servo-control means for positioning at least one of these first and second devices in accordance with a control setpoint which determines a target height of the work tool

relative to the ground.According to the invention, the servo-control means makes it possible to raise the work tool to a height substantially equal to this target height, from two transverse positions located at a distance from the chassis between the minimum and maximum values.

(From US2014373496 A1)

Inventors

SCHOTT MATHIEU

MARX DAMIEN

Latest standardized assignees - inventors removed

KUHN

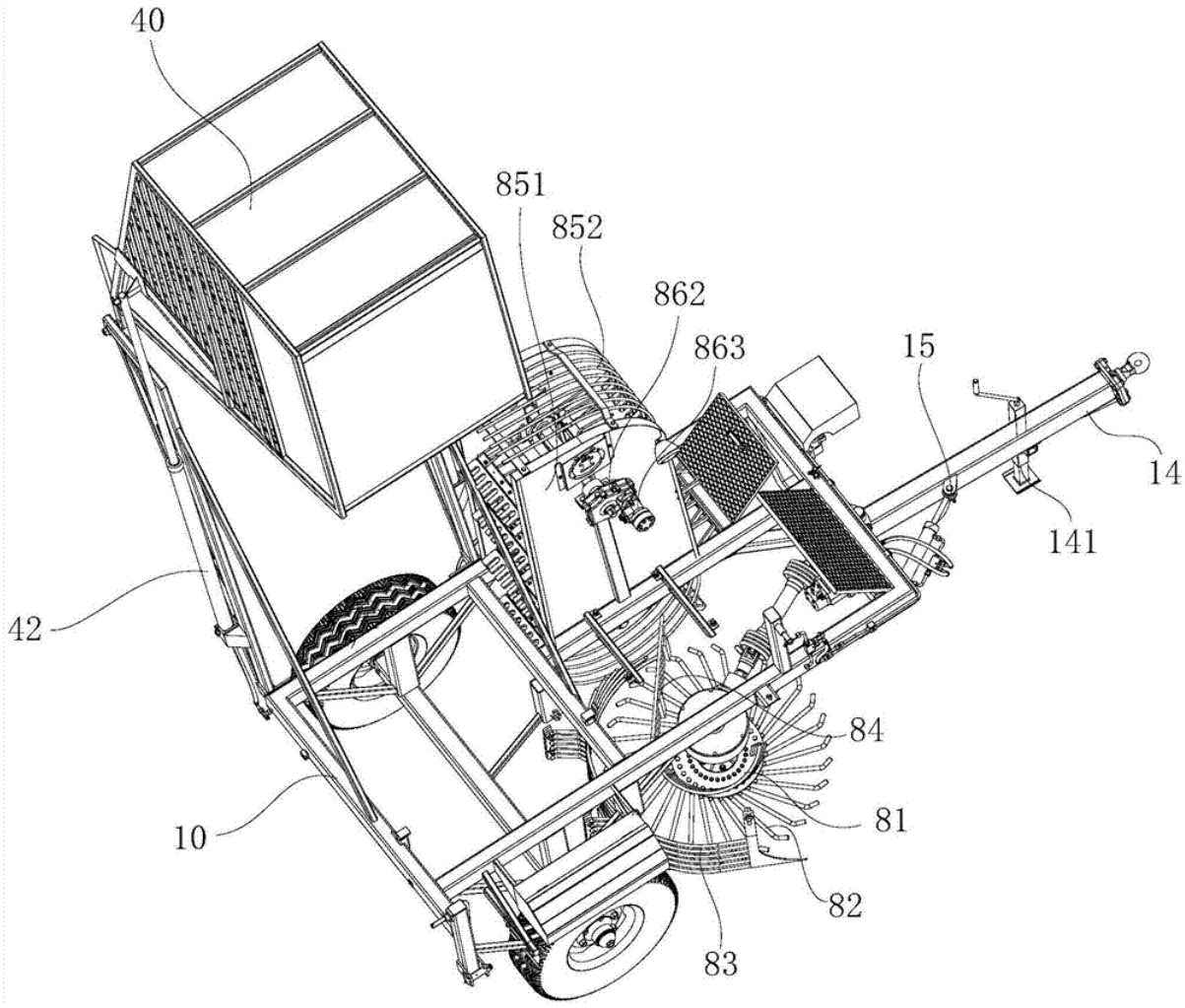
Family 415/667 - FAMPAT - ©Questel

Title

(CN108353607)

Harvesting mechanism

Images



Publication data including kind & date

CN108353607 A 2018-08-03 CN108353607

Abstract

(CN108353607)

The invention relates to a harvesting mechanism for a radish harvester.The harvesting mechanism comprises a rotating disc, the disc rim of the rotating disc is provided with a plurality of connectingrods, the connecting rods are arranged spirally along a disc core of the rotating disc, a first material baffling frame is arranged above the rod ends of the connecting rods, a second material baffling frame is arranged above the disc core of the rotating disc, and a passage allowing radish tubers to pass through is defined by the first material baffling frame, the second material baffling frameand the rotating disc.A

material inlet of a material receiving mechanism is formed in one end of the passage, and the other end of the passage is communicated with a material inlet of a lifting mechanism.Radishes are planed out and introduced into the rotating disc of a feeding mechanism, and under the action of rotation of the rotating disc, the radishes pass through the passage.The disc brimof the rotating disc is provided with a plurality of connecting rods, in the rotation process of the rotating disc, soil on the radish tubers can be removed conveniently and introduced into the material inlet of the lifting mechanism, the radishes are introduced into a material bin by means of the lifting mechanism, and therefore collection of the radish tubers is carried out.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE CITED

Latest standardized assignees - inventors removed

LI CUIPING

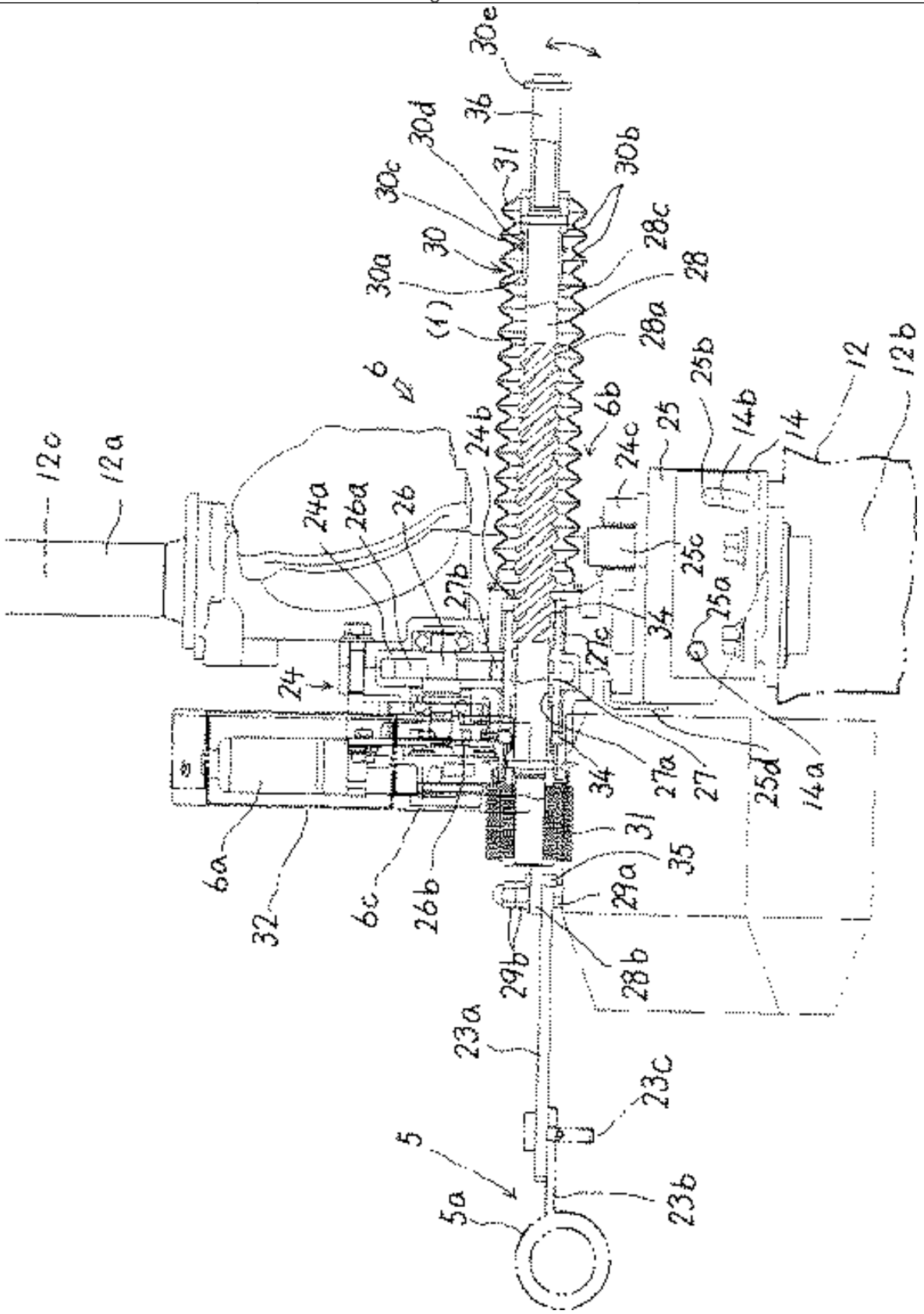
Family 416/667 - FAMPAT - ©Questel

Title

(JP2004049018)

Narrow guide apparatus of combine harvester

Images



Publication data including kind & date

JP2004049018 A 2004-02-19 JP2004049018

Abstract

(JP2004049018)

PROBLEM TO BE SOLVED: To prevent an overload on an opening and closing motor for opening, closing and driving a narrow guide separating grain culms of a reaper.

SOLUTION: A driving means 6 for opening, closing and driving the narrow guide 5 separating the grain culms is composed so as to stop the opening, closing and driving of the narrow guide 5 located at a housed position and the maximum overhung position even when the driving means 6 is driven.A moving shaft 28 moving to the left and the right sides of the

driving means 6 is equipped with an idling part (a) which is provided with a returning means 30.

COPYRIGHT: (C)2004,JPO

Inventors

IIIZUMI KIYOSHI

KUSUME KOJI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

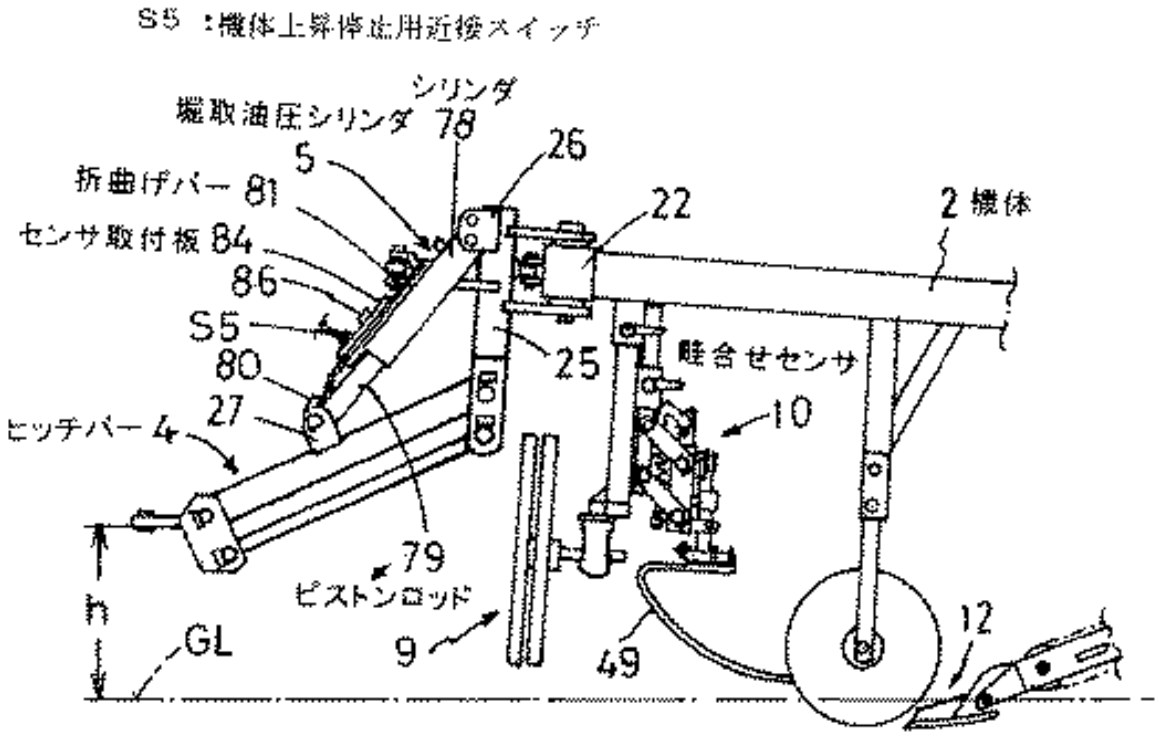
Family 417/667 - FAMPAT - ©Questel

Title

(JP2005000046)

Machine body elevation-stopping device in root vegetable harvester

Images



Publication data including kind & date

JP2005000046	A	2005-01-06	JP2005000046
JP4051005	B2	2008-02-20	JP4051005

Abstract

(JP4051005)

PROBLEM TO BE SOLVED: To provide a machine body elevation-stopping device which can avoid that the front portion of the machine body is elevated more than necessary by wrong recognition of a ridge-matching device disposed under the machine frame.

SOLUTION: The base end portion of a bending bar 81 is fixed to the upper side of the front end portion of the piston rod 79 of a digging hydraulic cylinder 5 for elevating or lowering a hitch bar 4 disposed in front of the machine frame 2, and is longitudinally disposed through a space between the lower side of the bending bar 81 and the upper side of the cylinder 78.A proximity switch S5 for stopping the elevation of the machine frame is disposed on a sensor-attaching plate 84

longitudinally movably attached to the base end side of the bending bar 81 at a place facing the cylinder 78, and is connected to a relay which is switched on with the signal of S5 or switched off by stopping the signal.The proximity switch S5 and the relay are connected to an electric circuit connected to a ridge-matching sensor 10, and the extension of the digging hydraulic cylinder 5 is temporarily stopped by canceling the approach of the proximity switch S5 to the cylinder 78, thus preventing the elevation of the front portion of the machine frame 2 more than necessary.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

MORI TAKESHI

Latest standardized assignees - inventors removed

SANEI KOGYO

Family 418/667 - FAMPAT - ©Questel

Title

(SU1558333)

Transporter of root crop harvester

Publication data including kind & date

SU1558333	A1	1990-04-23	SU1558333

Abstract

(SU1558333)

Invention relates to agricultural machine building.Object Of The Invention - increase in the operational capabilities.Guide of 11 is executed On frame 4.The Control Mechanism of mezhprutkovykh clearances is executed in the form slider 10, connected with asterisks of one of the tractive outlines, installed on the guide and which has drive 18.During the rotation of handle 13 slider is moved along outline 1 and moves leading 2 and slave 3 asterisks to that or other side and displaces some of the tractive outlines 1 relative to another. 2 illus.

Inventors

SHMIDT PETR E

NAZAROV VLADIMIR S

Latest standardized assignees - inventors removed

PROIZV OB YUZHN URAL N

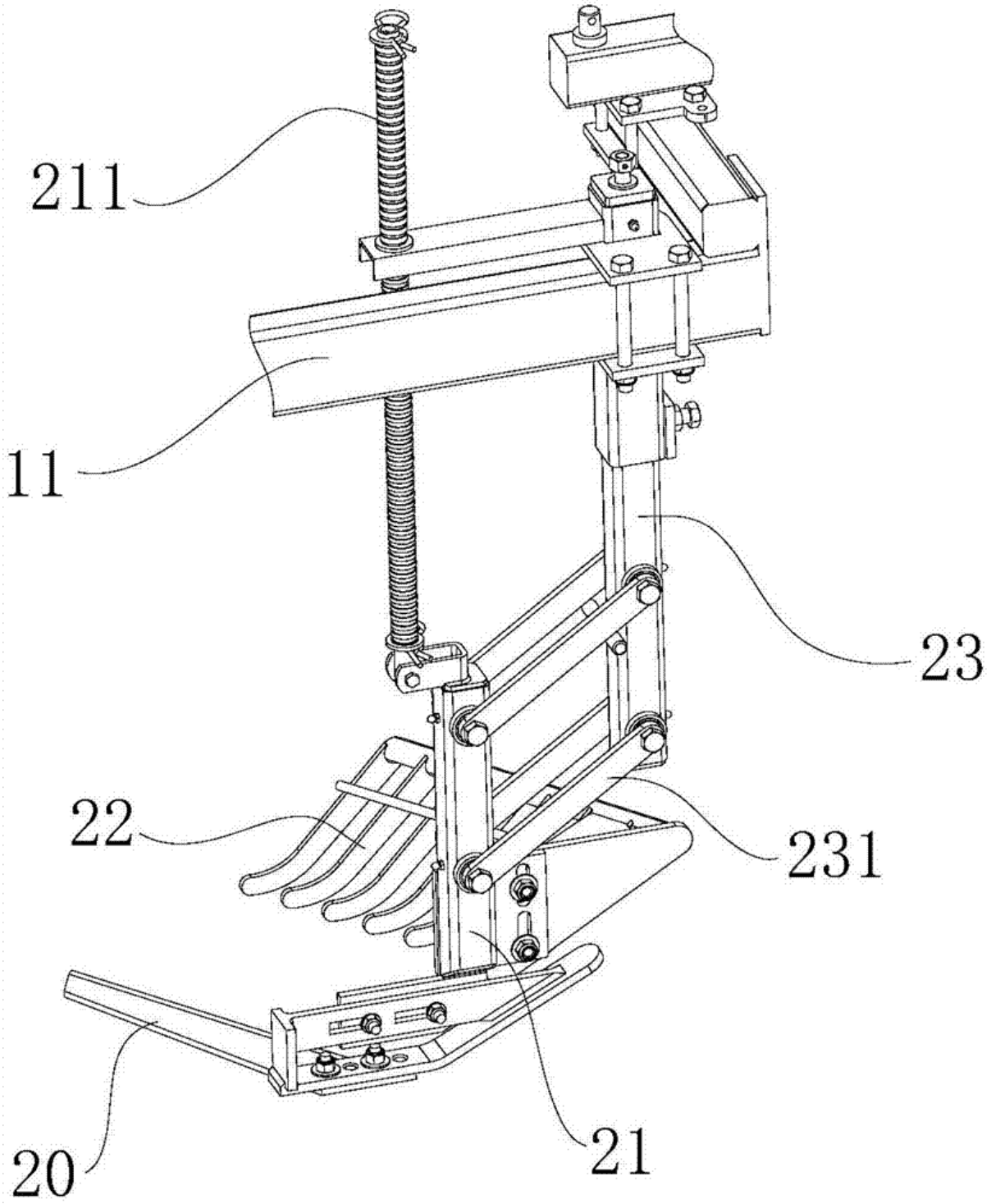
Family 419/667 - FAMPAT - ©Questel

Title

(CN108353610)

Leaf cutting mechanism

Images



Publication data including kind & date

CN108353610 A 2018-08-03 CN108353610

Abstract

(CN108353610)

The invention relates to a leaf cutting mechanism of a radish harvester.A movable cart frame is connected with a traction mechanism, a leaf cutting mechanism body, a root digging mechanism and a collecting mechanism are arranged at the front end and the rear end of the movable vehicle frame in the length direction respectively, the leaf cutting mechanism body comprises a cutter with a horizontalplate sheet, a blade of the cutter and the length direction of the movable cart frame form an included angle, a grating is arranged in front of the blade of the cutter and is constituted by multiple parallel slide plates, gaps among the slide plates from a channel for radish leaves to pass through, the cutter of the leaf cutting mechanism body is utilized to cut the radish leaves, and thus the radish leaves are conveniently cut.The grating is constituted by multiple parallel slide plates, the gaps among the slide plates from the channel for the radish leaves to pass through, thus radish plants can be sorted, and operating personnel conveniently observe the junctions of the radish leaves and tubers; meanwhile, the height of the cutter is conveniently adjusted, the accuracy of cutting the radish leaves is

ensured, and the operating convenience of the operating personnel is improved.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE CITED

Latest standardized assignees - inventors removed

LI CUIPING

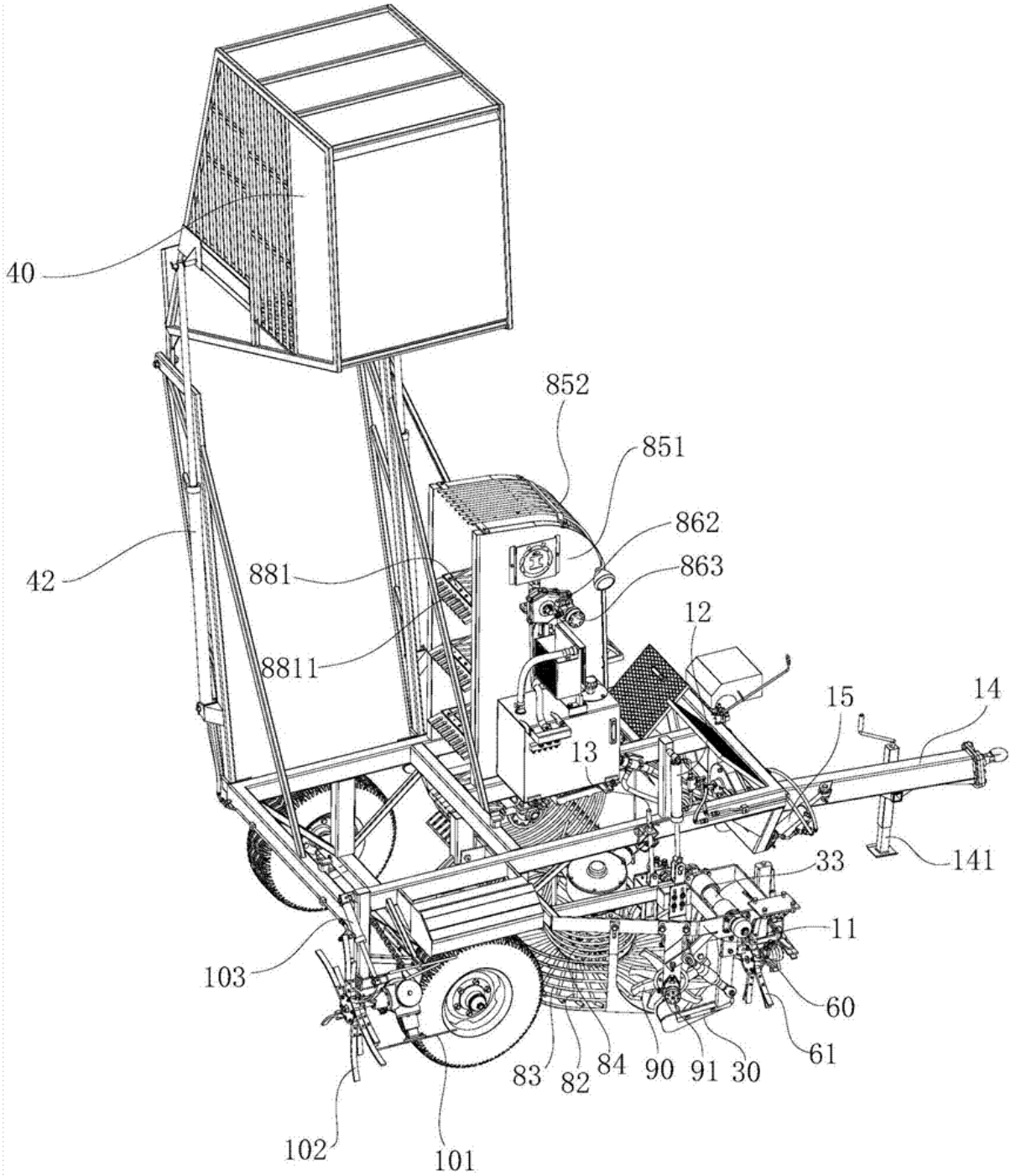
Family 420/667 - FAMPAT - ©Questel

Title

(CN108353608)

Material dispersing and pulverizing mechanism

Images



Publication data including kind & date

CN108353608 A 2018-08-03 CN108353608

Abstract

(CN108353608)

The invention relates to a material dispersing and pulverizing mechanism for a radish harvester.The material dispersing and pulverizing mechanism comprises a mobile car frame, a leaf cutting mechanism and a root digging mechanism are arranged at the front and rear ends in the length direction of the mobile car frame respectively, a material dispersing mechanism for separating radish leaves is arranged between the leaf cutting mechanism and the root digging mechanism and includes material dispersing sticks, roller bodies of the material dispersing sticks are provided with material raking rods,and the rear end of the mobile car frame is also provided with a pulverizing knife.The pulverizing knife is connected to one output shaft of a commutator, an output shaft of the other end of the commutator is connected to dispersing rollers, the commutator is hinged to a piston rod of an air cylinder, a cylinder body of the air cylinder is hinged to the mobile car frame, and hinge shafts of theair cylinder are parallel to the length direction of the mobile car frame.The material dispersing mechanism disperses the cut radish leaves, the pulverizing knife is used for pulverizing the radish leaves, and the pulverized radish leaves are dispersed by using the dispersing effect of the material dispersing sticks.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE CITED

Latest standardized assignees - inventors removed

LI CUIPING

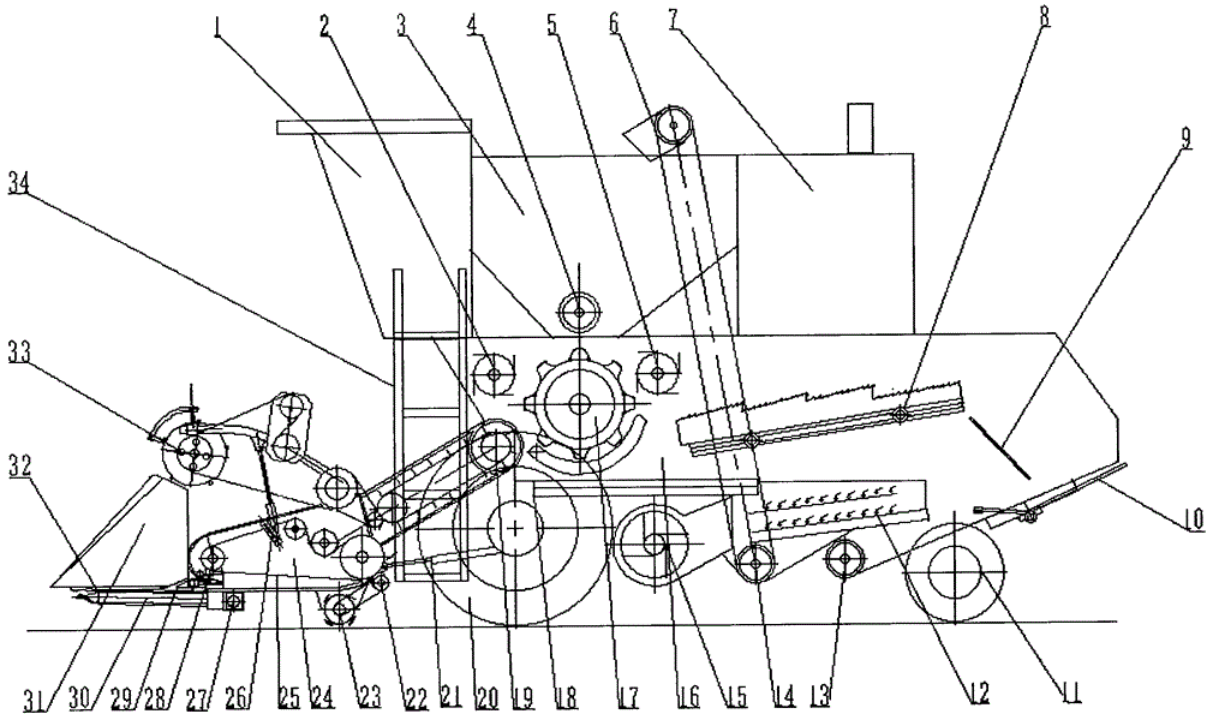
Family 421/667 - FAMPAT - ©Questel

Title

(CN206165193U)

Self -propelled sunflower combine

Images



Publication data including kind & date

CN206165193 U 2017-05-17 CN206165193U

Abstract

(CN206165193U)

The utility model discloses a self -propelled sunflower combine, combine header splice in main frame the place ahead, are located the lower part of driver's cabin, and thresher installs the exit end at slope conveyor, and the straw walker is installed at thresher's rear portion, and the straw cuts up still the field device and installs in the header below, and the straw walker rear end still is equipped with the slide, install automatic collection in the slide back lower place and unload sunflower dish device.This combine adopts and spirally to draw stem roller device, draws the stalk to press the stalk device, reduced the stem stalk volume that gets into thresher, has alleviateed the load of threshing with separating mechanism, carries high yield, can once accomplish reap, thresh, the seed grain is cleaned, the debris separation, empty sunflower dish is collected

and the straw cuts up still field combined operation to reduce seed grain percentage of damage and do not harmd seed grain epidermis, satisfied the product quality requirement.

Inventors

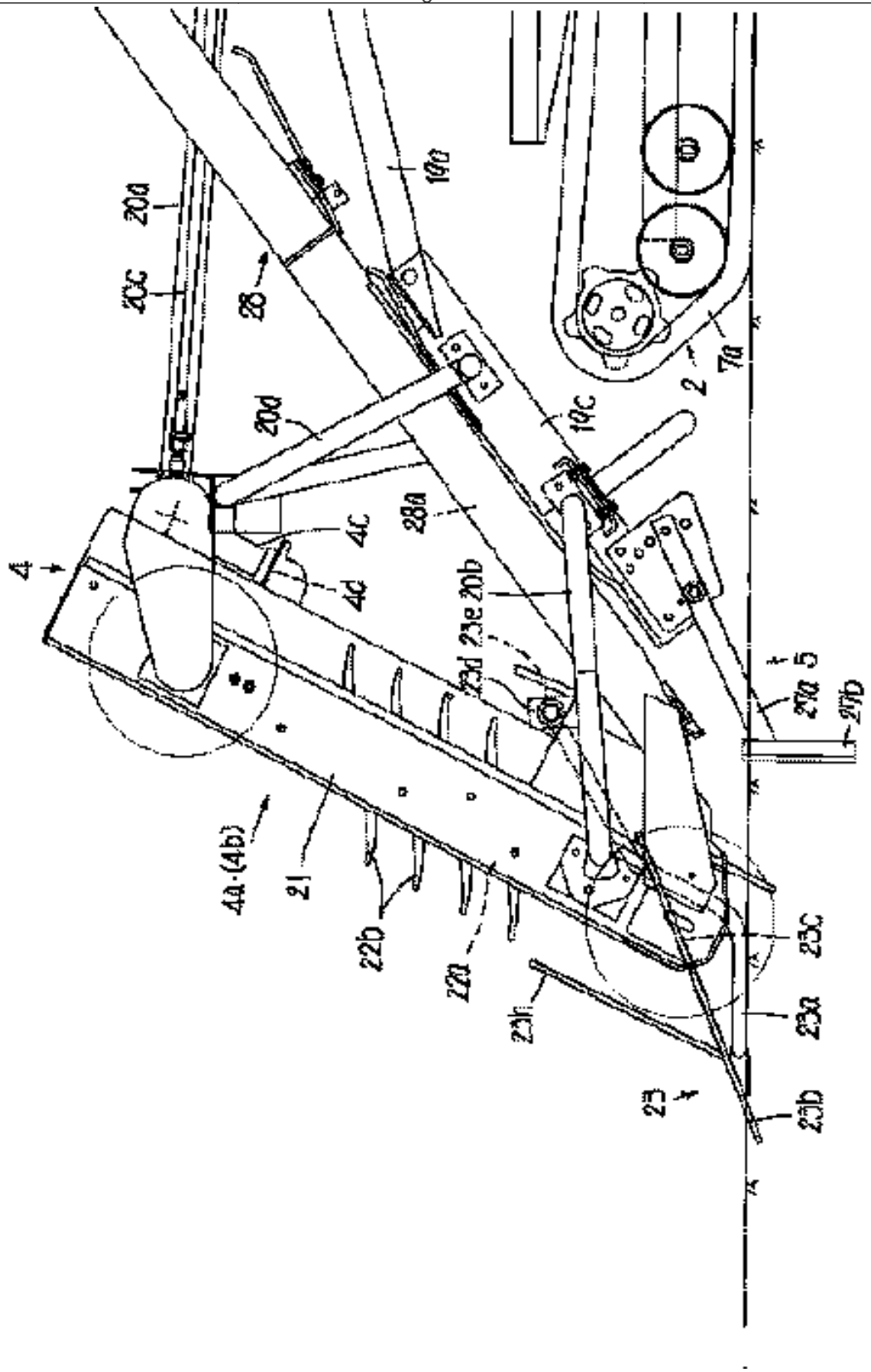
YANG ZHIHUA
Pinch
ZHANG WENZHONG
SHAO QUNSHENG
ZHAO PEIYI
HE XUEQIN
YANG ZHI
Lu Jingyu
ZHANG XIAOMENG
Jianzhi Liang
HAN GUOYAN
CHEN XIA

Family 422/667 - FAMPAT - ©Questel

Title

(JP2002084848)
Harvester

Images



Publication data including kind & date

JP2002084848 A 2002-03-26 JP2002084848

Abstract

(JP2002084848)

PROBLEM TO BE SOLVED: To prevent a leaf part from being hooked between a raising device having a grass-diving device and an attaching part of the grass-dividing body when the leaf part of a carrot is divided by the grass-dividing device.SOLUTION: The base part of the grass-dividing body 23 for dividing the leaf part of a crop body (a) (the carrot) is installed in the rear part of a raising device 4 for raising the crop body (a) and in a lower supporting rod 20b for supporting the raising device 4, or in a supporting rod 20d of a transmission case, for supporting the transmission case 4c capable of inputting the power to the raising device 4.

Inventors

KAWAGUCHI HIROMICHI
YANO NORIHIRO
TAKAGI SHINGO
KITTE HAJIME
IWABE TAKAAKI

Latest standardized assignees - inventors removed

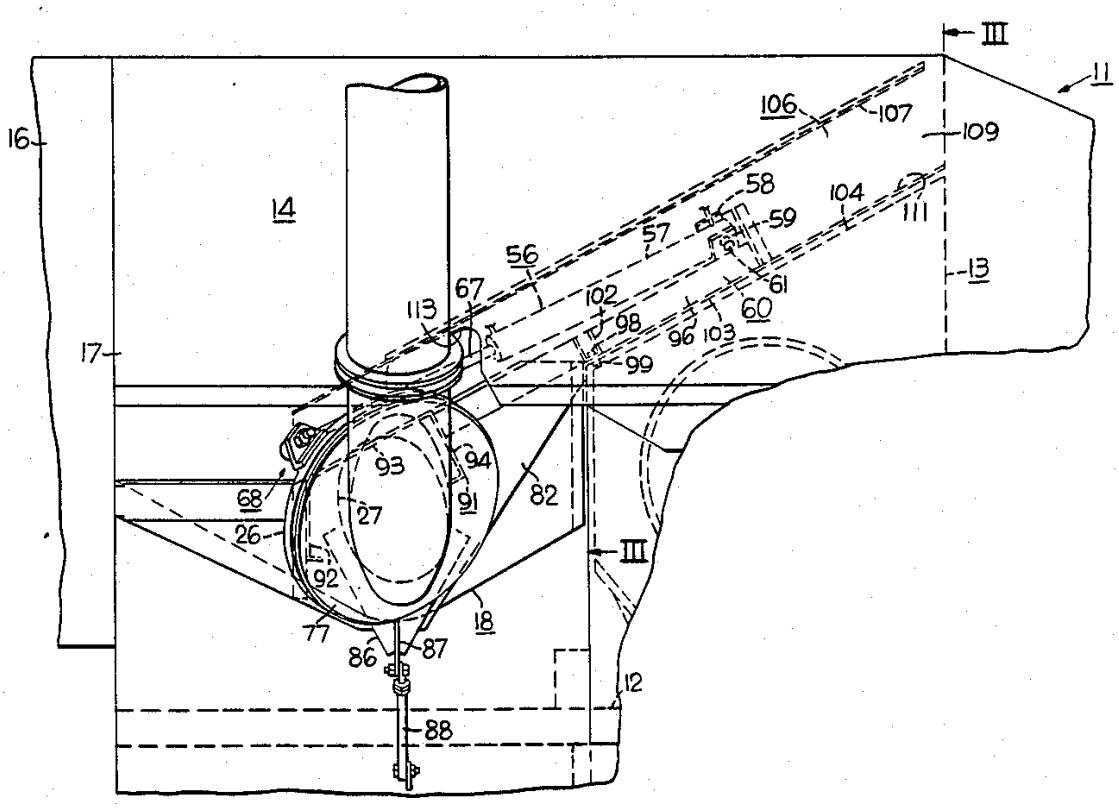
ISEKI AGRICULTURAL MACHINERY

Family 423/667 - FAMPAT - ©Questel

Title

(US4662812)
Bin unloader with oblique pivot axis

Images



Publication data including kind & date

US4662812	A	1987-05-05	US4662812
CA1269542	A	1990-05-29	CA1269542
CA1269542	C	1990-05-29	CA1269542

Abstract

(US4662812)

An agricultural harvester has a grain bin with an oblique side wall section at one lateral side of the grain bin presenting a discharge opening, an unloading tube with an end portion pivotally mounted on the oblique side wall section for swinging movement about the axis of the discharge opening, and a linear hydraulic actuator and support structure therefor disposed in a pocket in the one lateral side of the grain bin.The cylinder and piston components of the actuator are pivotally connected, respectively, to the support structure and the unloading tube.A grain bin auger is disposed in the bottom of the grain bin, an unloading auger is disposed in the unloading tube and an inclined intermediate auger has its opposite ends connected to ends of the grain bin auger and the unloading tube auger by universal joints.An alignment adjustment joint is provided in the unloading tube to permit offsetting the effect of tolerance buildup occurring in manufacture of the unloading tube and its support structure.

Inventors

BUSBOOM GARRY W

BREYER RANDALL E

Latest standardized assignees - inventors removed

DEUTZ ALLIS

HESSTON

MASSEY FERGUSON ACQUISITION

MASSEY FERGUSON

AGCO

GLEANER ALLIS

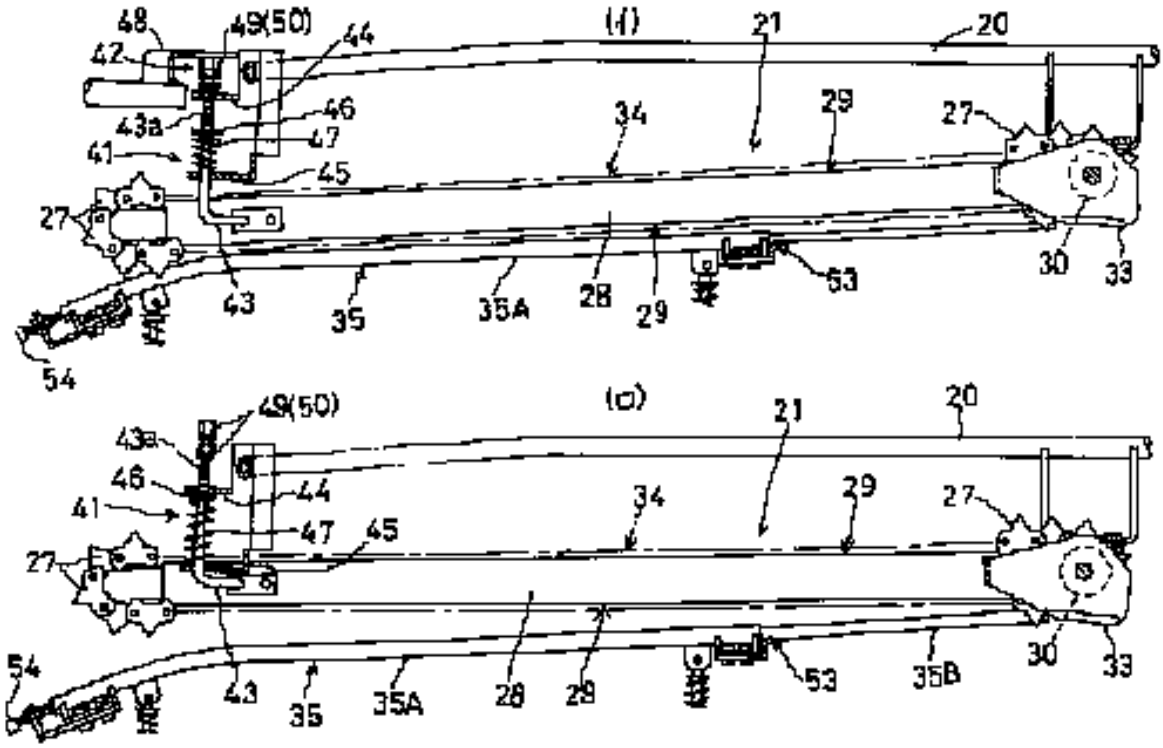
Family 424/667 - FAMPAT - ©Questel

Title

(JP10052158)

Waste straw-nipping and conveying machine

Images



Publication data including kind & date

CN1173271	A	1998-02-18	CN1173271
JPH1052160	A	1998-02-24	JP10052160
JPH1052158	A	1998-02-24	JP10052158
JPH1052157	A	1998-02-24	JP10052157
KR19980018095	A	1998-06-05	KR19980018095
KR100227968	B1	1999-11-01	KR100227968
CN1070688	C	2001-09-12	CN1070688C
JP3340916	B2	2002-11-05	JP3340916
JP3340915	B2	2002-11-05	JP3340915

Abstract

(JP3340916)

PROBLEM TO BE SOLVED: To improve the workability for maintenance by enabling easy removal of waste straws even in the case that the space between a waste straw chain and a nipping rail is clogged with waste straws.SOLUTION: This combine harvester receives waste straws from a threshing machine and conveys them with a waste straw conveyer 21 nipping the waste straws with a waste straw chain 34 and a nipping rail 35 opposing to the waste straw chain 34 on the lower side and has a vertically openable upper cover for covering the waste straw conveyer 21.In this case, a sprocket 30 for driving the waste straw chain 34 is arranged to the end side of conveying and the sprocket 30 is made vertically swingable around a shaft axis of the sprocket 30 for driving the waste straw chain 34 so that the waste straw chain 34 is made freely switchable between an actuation posture close to the nipping rail 35 and a maintenance posture apart up from the nipping rail 35.

Inventors

MAKIZONO HARUMICHI

ARIMOTO TAKASHI

Latest standardized assignees - inventors removed

KUBOTA

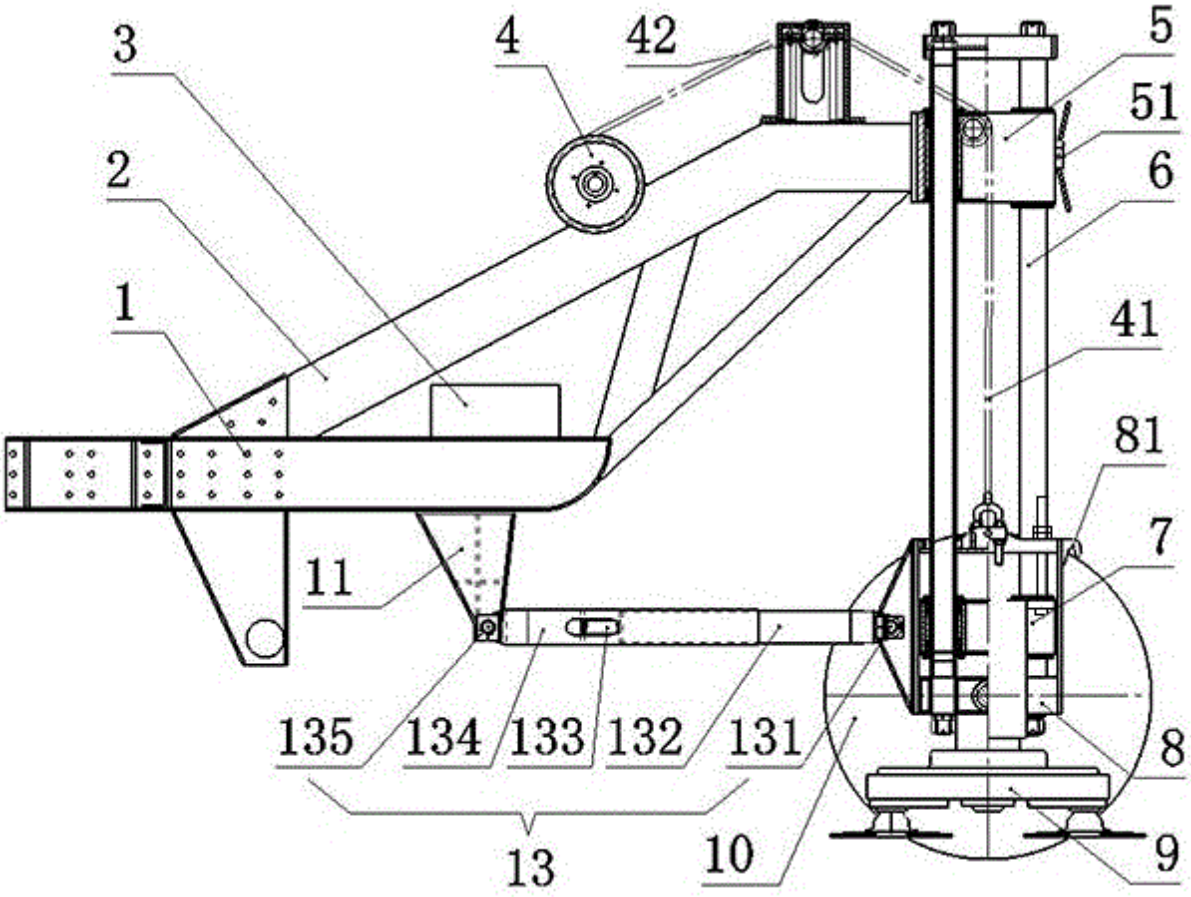
Family 425/667 - FAMPAT - ©Questel

Title

(CN106688438)

Wheel-type landform imitation header

Images



Publication data including kind & date

CN106688438 A 2017-05-24 CN106688438

Abstract

(CN106688438)

The invention discloses a wheel-type landform imitation header, and relates to the technical field of sugarcane

harvesters.The wheel-type landform imitation header comprises a frame, a support is arranged in the front of the frame and fixedly provided with a slidable vertical column through an upper supporting seat, a lower supporting seat is mounted on the lower portion of the slidable vertical column in a penetrated manner, a traction device drives the lower supporting seat to rise and fall, the lower supporting seat is provided with traveling wheels through a wheel axle, a slidable supporting seat sleeves the vertical column between the upper supporting seat and the lower supporting seat and provided with a motor, a gearbox and a sugarcane cutting cutter head through a cutter head fixing frame, bolt positions of the cutter head fixing frame are adjusted, different fixing heights of the cutter head can be achieved, adjusting screws beside a lifting power cylinder are adjusted, and the height of the cutter head can be slightly adjusted.When a harvester works, the traveling wheels drive in rugged furrows, so that the cutter head is in landform imitation working state, the height of cutter head for cutting sugarcanes does not change, unified heights of sugarcane stumps are ensured after the sugarcanes are harvested, growth of the coming year is facilitated, and the yield rate of stump turnover sugarcanes is increased.Compared with the prior art, the wheel-type landform imitation header can have a landform imitation function of a sugarcane cutting cutter head of a sugarcane harvester.

Inventors

ZHU JIHUA

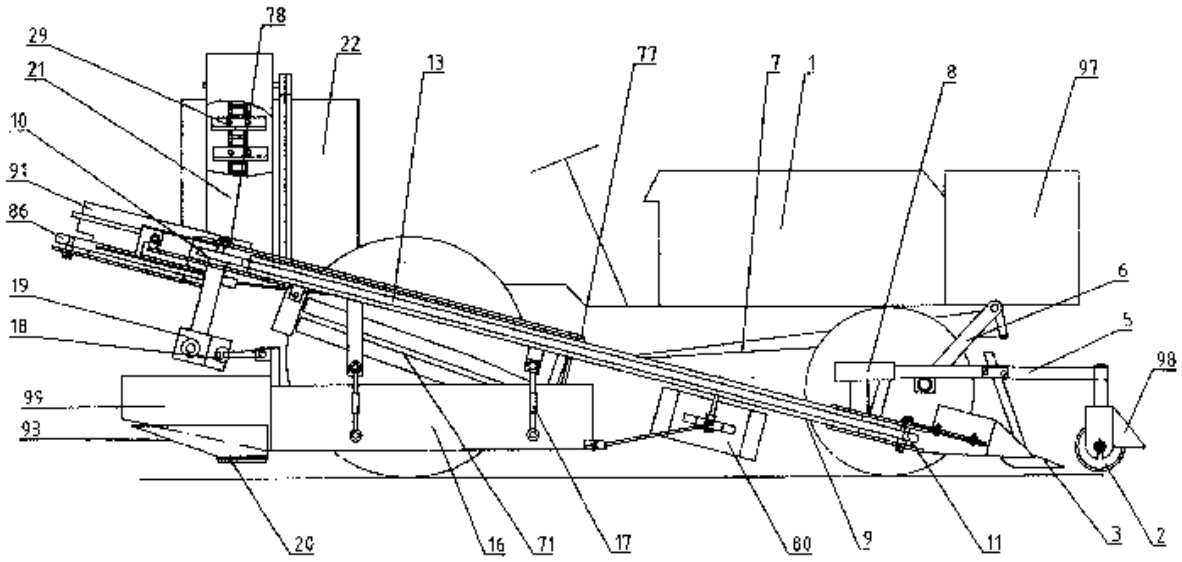
Family 426/667 - FAMPAT - ©Questel

Title

(CN2722592U)

Pea nut combine

Images



Publication data including kind & date

CN2722592 Y 2005-09-07 CN2722592U

Abstract

(CN2722592U)

The utility model discloses a peanut combined harvester.The utility model is improved on the technical basis of the peanut combined harvester of the utility model patent application patent application whose application number is 200420041347.2.The utility model comprises a tractor 1, a frame 9, a conveyer 20, a raiser 21, a fruit box 22, a main gear box 19 and a fruit strainer 16.The utility model also comprises a fruit harvesting machine 71 which is provided under the frame 9, and two earth beating plates 80.The back of the frame 9 is mainly a rice transplanting mechanism which is composed of a rice transplanting support 85, a rice transplanting driven chain gear 86, a rice transplanting driving sprocket 87 and a rice transplanting clamp 88.A trash transplanting strainer 99 is provided under the fruit strainer 16.As the peanut combined harvester of the utility model increases the custom designed mechanism of earth removing, fruit picking, rice transplanting and trash transplanting, the effect of the fruit picking is more ideal, and the trash extraction is more thorough.

Inventors

WANG HONGJUN
MIN LINGQIANG
HUANG BAOSHEN
ZHANG YONGZHONG
ZHANG SHUFENG
LI QINGFU
LI QINGJIN
ZHAO GUANGYING
LI JING
SUN LIANJUN

Latest standardized assignees - inventors removed

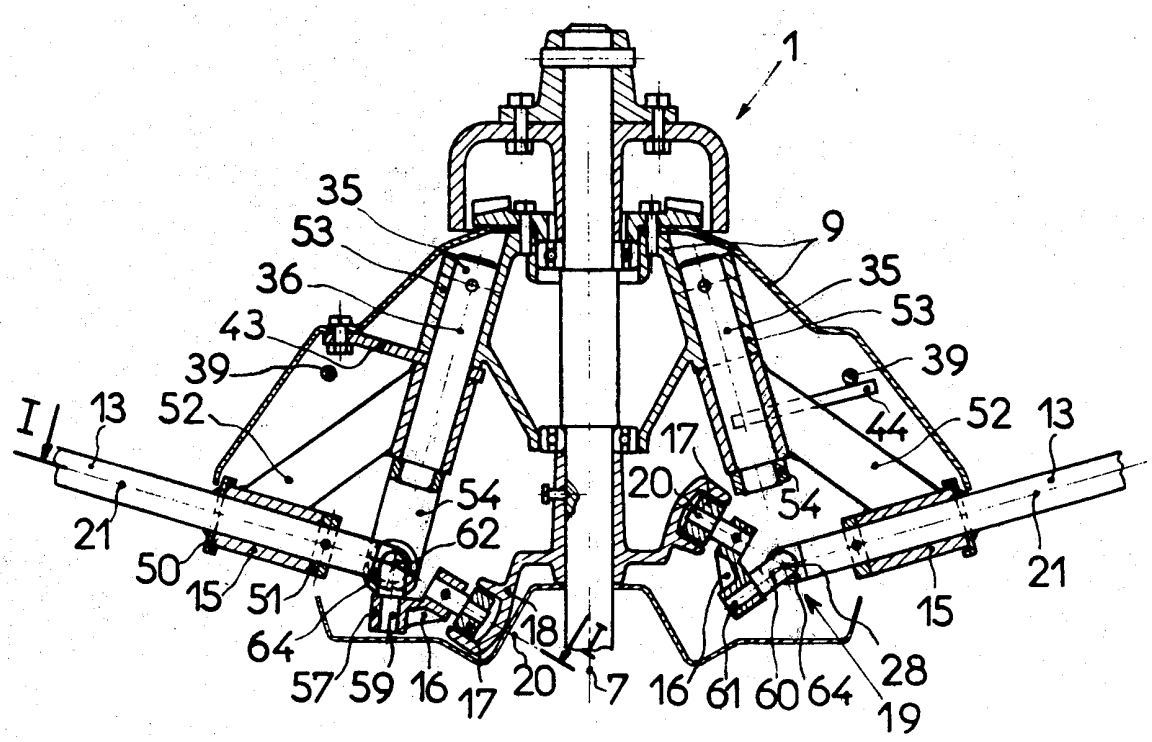
SHANDONG SHUANGLI

Family 427/667 - FAMPAT - ©Questel

Title

(US4059944)
Haymaking machine for the tedding and windrowing of fodder

Images



Publication data including kind & date

DK198476	A	1976-11-06	DK7601984
NL7604792	A	1976-11-09	NL7604792
BR7602777	A	1976-11-09	BR7602777
DE2619867	A1	1976-11-18	DE2619867
FR2310080	A1	1976-12-03	FR2310080
JPS51141232	A	1976-12-04	JP51141232
ZA7602652	B	1977-04-27	ZA7602652
FR2329185	A2	1977-05-27	FR2329185
ES447473	A1	1977-07-01	ES-447473
AU1361376	A	1977-11-10	AU7613613
US4059944	A	1977-11-29	US4059944

GB1507794	A	1978-04-19	GB1507794
CA1034386	A	1978-07-11	CA1034386
NZ180769	A	1978-11-13	NZ-180769
AU503509	B2	1979-09-06	AU-503509
FR2310080	B1	1980-06-27	FR2310080
FR2329185	B2	1980-09-12	FR2329185
ATA326276	A	1980-12-15	AT7603262
AT363271	B	1981-07-27	AT-363271
YU89676	A	1982-02-25	YU7600896
DK145402	B	1982-11-15	DK-145402
DK145402	C	1983-05-09	DK-145402C
YU36428	B	1984-02-29	YU--36428
JPS5918009	B2	1984-04-25	JP84018009
JP1241000	C	1984-11-26	JP1241000
IT1080749	B	1985-05-16	IT1080749
DE2619867	C2	1986-04-30	DE2619867
DE2661026	C2	1987-12-17	DE2661026
NL8900015	A	1989-05-01	NL8900015
NL185441	B	1989-11-16	NL-185441
NL185441	C	1990-04-17	NL-185441

Abstract

(US4059944)

A haymaking machine for the tedding and windrowing of fodder comprises a pair of rake wheels driven in rotation, with working tool-carrier arms mounted pivotally in support bearings thereon and having at their ends facing the rotation axis of the corresponding rake wheel, a control crank that has a roller that moves in a guide cam so as to cause the working tools to pivot over a portion of their path of revolution, upward and in the direction opposite to the direction of rotation of the corresponding rake wheel during windrowing.The control cranks are connected with the working tool-carrier arms by means of an articulation, the angle formed between the geometric axes of the control cranks and the geometric axes of the working tool-carrier arms, as seen from above, varying when the carrier arms are transposed from the windrowing position into the tedding position and vice versa.The rollers fast with the control cranks remain in engagement with the guide cam of the corresponding rake wheel both during windrowing and during tedding.

Inventors

REBER WALTER

Latest standardized assignees - inventors removed

KUHN

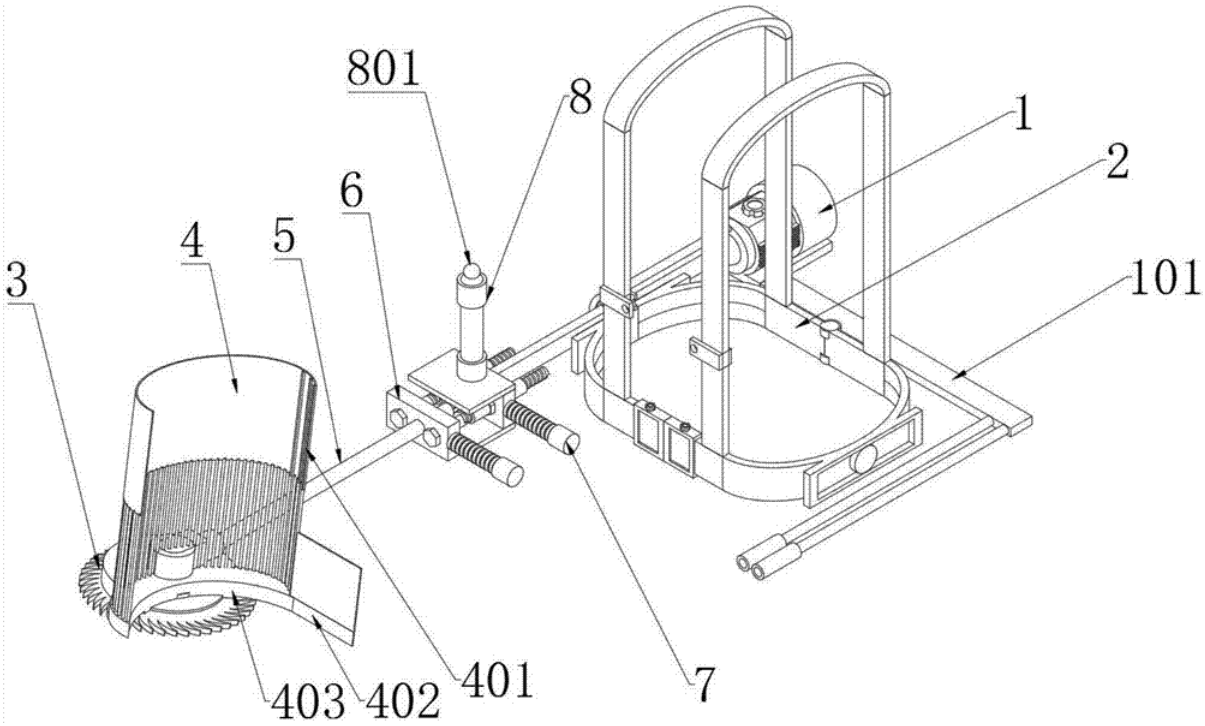
Family 428/667 - FAMPAT - ©Questel

Title

(CN208029471U)

Hand-held harvesting machine

Images



Publication data including kind & date

CN208029471 U 2018-11-02 CN208029471U

Abstract

(CN208029471U)

The present utility model provides a hand-held harvesters, includes a small gasoline engine, a chute and a slider, a small gasoline engine loop bar is fixedly connected with the front end housing, and the sleeve rod to rotate within rotatably connected with the inside lever; sleeve rod end pivotally connected with the harvesting wheel, and the harvesting wheel is fixedly connected with an external casing of the top semicircular sizing cage upward; slider slides in the sleeve rod connected to the piggybacked through the right end of the back moving frame in the apparatus.The present utility model is provided of the balancer, the right side wall along a horizontal line of the miniature gasoline engine through the base of the L-shaped integrally provided with a balancing device, and an equalizing means the sheath rod parallel to the portion provided with a double set of balance bar, and the balance bar forward end beyond the front end of the side-by-carrying device, so that the harvester in carrying on a user at the time, it is possible to adjust the position through the balance device, convenience of use, thereby saving labor.

Inventors

CHEN BO PING

Wang Jie

Li Hua XIANG

Latest standardized assignees - inventors removed

ZHEJIANG YILE POWER TECHNOLOGY

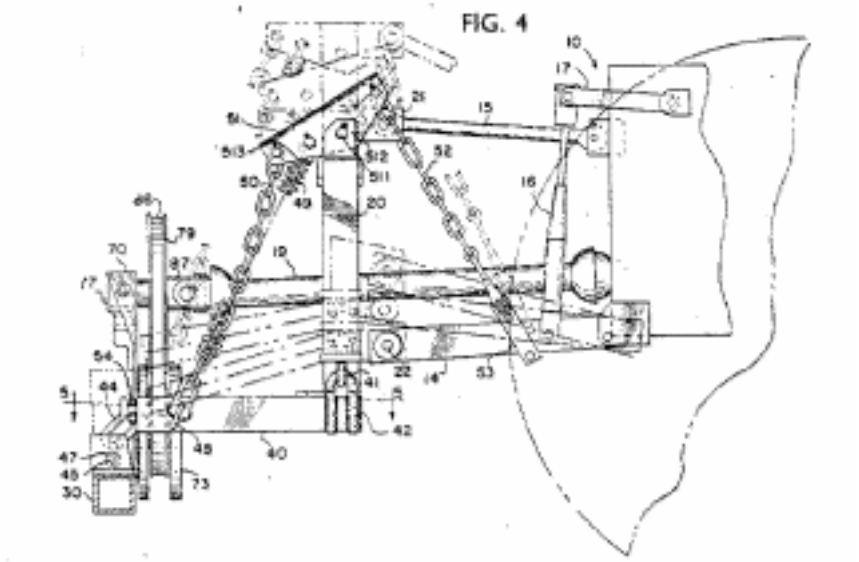
Family 429/667 - FAMPAT - ©Questel

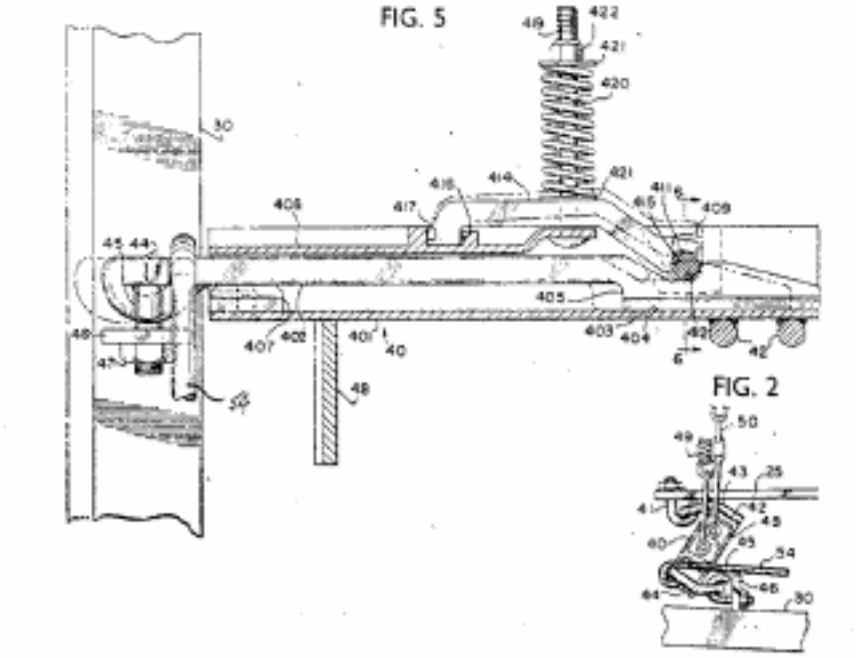
Title

(FR2306618)

IMPROVEMENTS TO ROTARY MOWERS

Images





Publication data including kind & date

DE2614618	A1	1976-10-21	DE2614618
FR2306618	A1	1976-11-05	FR2306618
AU1036476	A	1977-02-03	AU7610364
GB1496753	A	1978-01-05	GB1496753
FR2306618	B3	1979-01-05	FR2306618

Abstract

(FR2306618)

1496753 Mowers INTERNATIONAL HARVESTER CO 9 Jan 1976 [10 April 1975 (2)] 00794/76 Heading A1F A mower has a vibration-inhibiting tractor mounting as described in Patent Specification 1496752 with the hitch frame 20 connected to the drag bar 30 to form a horizontal four-bar parallel linkage where one of the links is a steel leaf spring 32 and the other is a pull-bar assembly 40, which, as well as acting as a draft link, is also part of the lifting linkage (Fig. 4), is a means for attaching a float spring 49 and is further disclosed as acting as a breakaway link (Fig. 5).A breakaway bar 402 is telescopically slidable in a channel 401 upon excess load on the drag bar 30 overcoming a detent pin 411, held in a pocket 411, 412 by a spring-loaded lever 414.A plate 406 and block 407 prevent total detachment of the bar 402.Overloading causes the cutter bar 61 and drag bar 30 to pivot backwardly about the pin 36.

(From GB1496753 A)

Inventors

SORENSEN ROBERT

ZABLOCKI RICHARD

GORDON PAUL

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

Family 430/667 - FAMPAT - ©Questel

Title

(US3121986)

Harvester

Images

Feb. 25, 1964 C. J. SCRANTON 3,121,986

HARVESTER

Filed Aug. 29, 1960 5 Sheets-Sheet 1

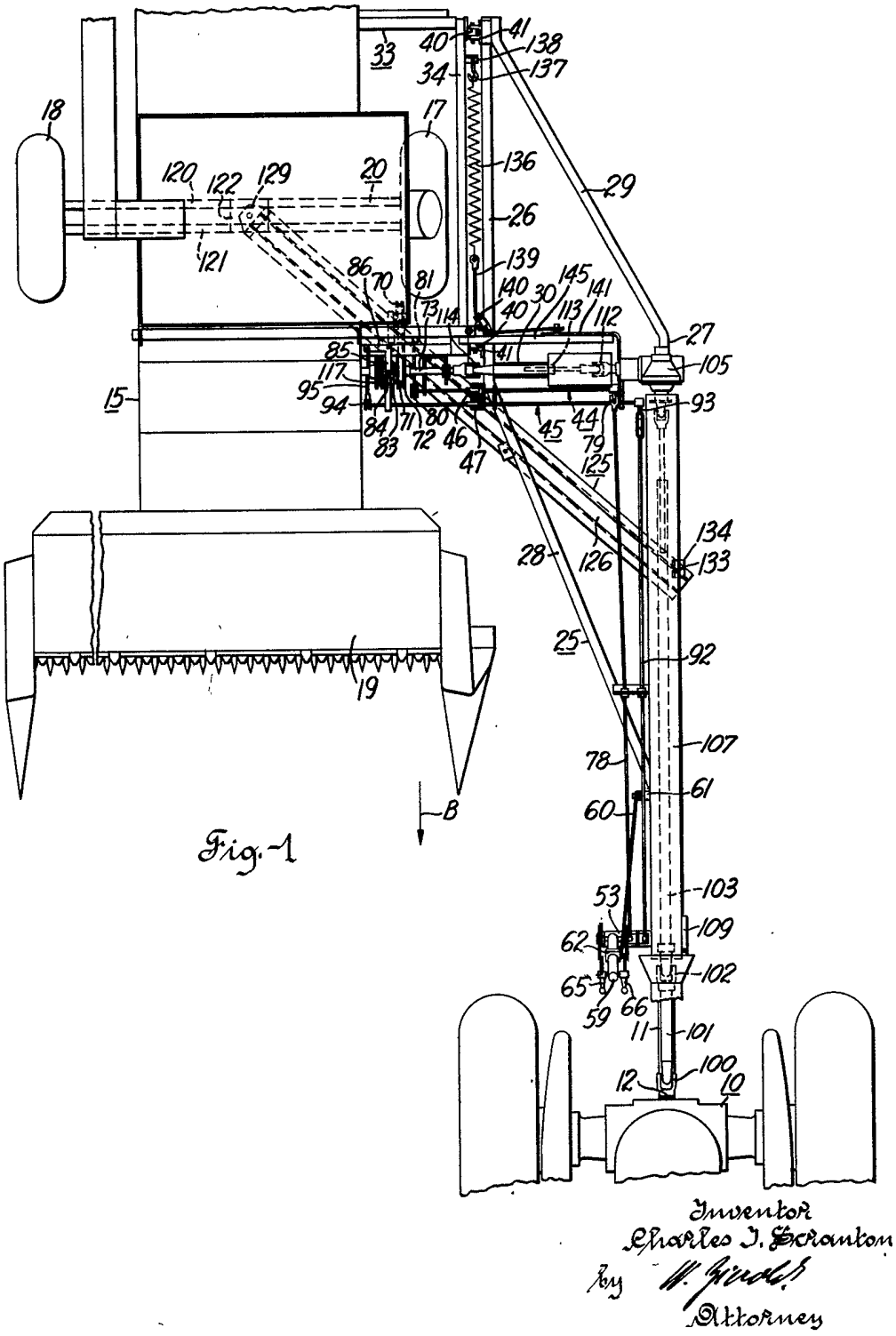


Fig. 1

Inventor
Charles J. Scranton
By W. Friedl
Attorney

Publication data including kind & date

US3121986 A 1964-02-25 US3121986

Inventors

SCRANTON CHARLES J

Latest standardized assignees - inventors removed

ALLIS CHALMERS MANUFACTURING

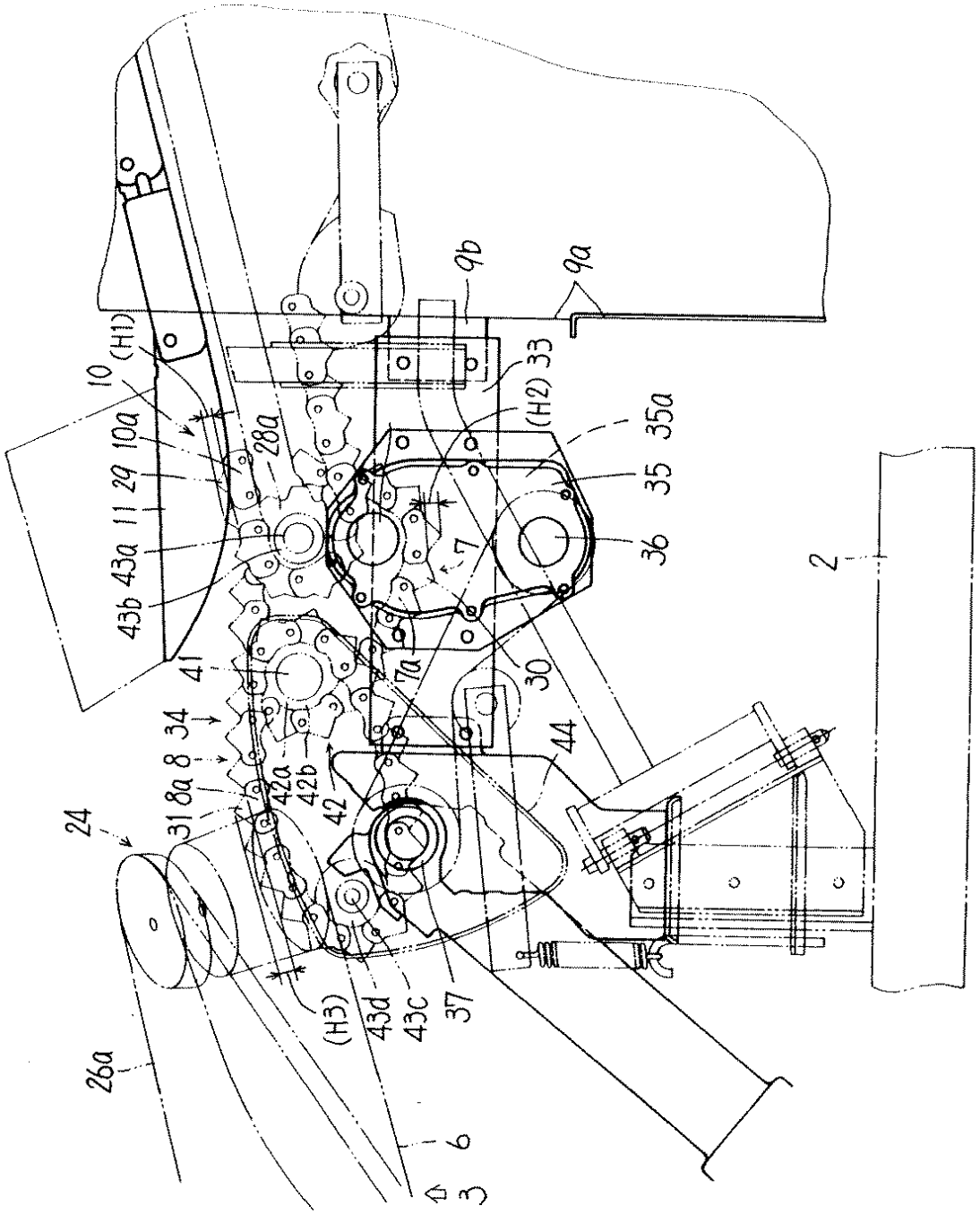
Family 431/667 - FAMPAT - ©Questel

Title

(JP2001197822)

Grain culm conveyor for combine

Images



Publication data including kind & date

JP2001197822	A	2001-07-24	JP2001197822
JP4081951	B2	2008-04-30	JP4081951

Abstract

(JP4081951)

PROBLEM TO BE SOLVED: To surely deliver grain culms, which are transferred by an ear tip conveyor 24 and a feeding

conveying chain, to a feed chain and a nipping lever by surely taking them over with an inner and an outer supplementary conveying chain.SOLUTION: The grain culms transferred by the ear tip conveyor 24 and the feeding conveying chain 6 are taken over and transferred with an inner and an outer supplementary conveying chains 7, 8 placed on the front side of the thresher 9, and they are threshed while they are further taken over and transferred with the feed chain 10 and the nipping lever 11 of the thresher 9.Among the heights (M1), (M2) and (M3) of 29, 30 and 31, which are respectively the grain culm-transferring chevron protrusions of the feed chain 10, the inner supplementary conveying chain 7 and the outer supplementary conveying chain 8, (M2) and (M3) are higher than (M1).Further, the combine is provided with an inner guiding board 12 for guiding grain culms to the inner supplementary conveying chain 7, and an outer guiding board 13 for guiding grain culms to the outer supplementary conveying chain 8 and the feed chain 10, and the inner guiding board 12 is freely rotatable.

Inventors

SATOJI HISAYUKI
OCHI SHOJI
NAGAKI KAZUO
IHARA YASUSHI
OKUMOTO KOJI
OKADA TOSHIHIKO

Latest standardized assignees - inventors removed

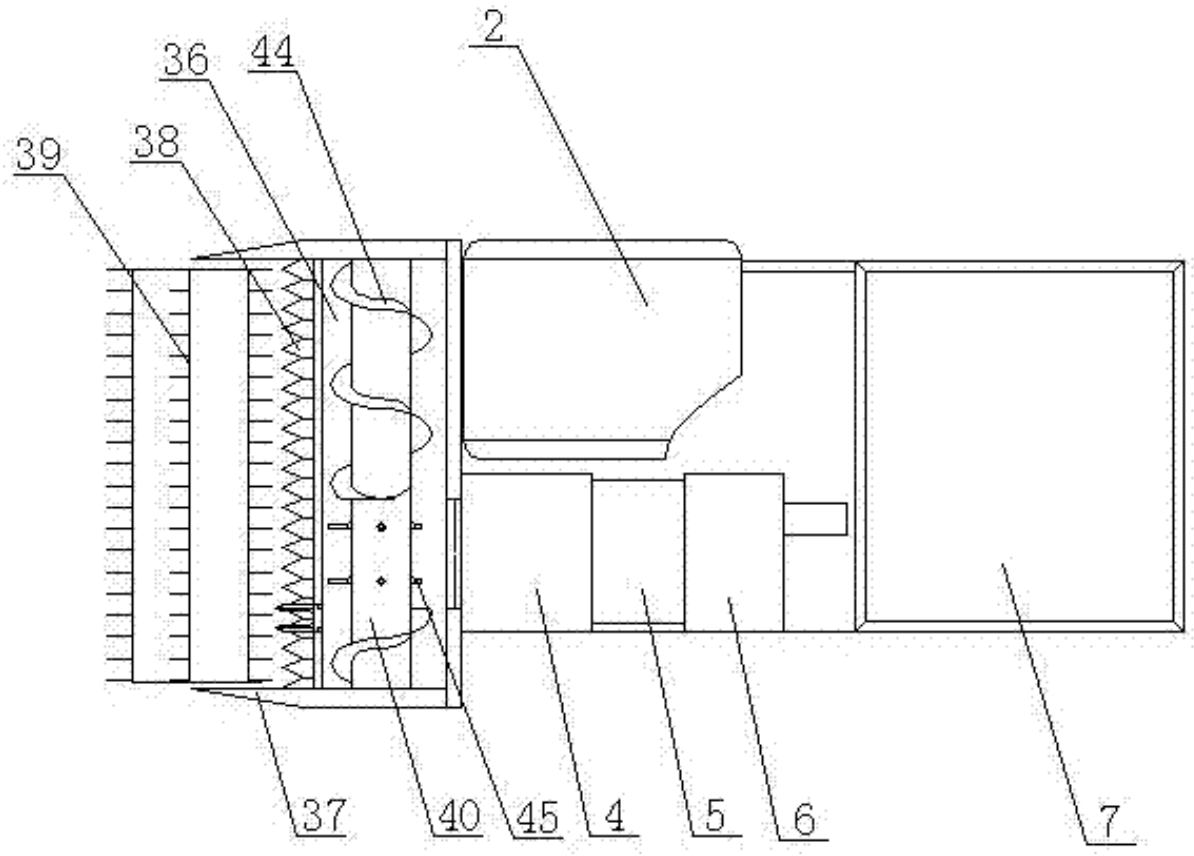
ISEKI AGRICULTURAL MACHINERY

Family 432/667 - FAMPAT - ©Questel

Title

(CN207185231U)
Hay harvest machine

Images



Publication data including kind & date

CN207185231 U 2018-04-06 CN207185231U

Abstract

(CN207185231U)

The utility model discloses a hay harvest machine, it is mainly cut device, silk device by frame, driver's cabin, hydraulic system, engine assembly, caterpillar base plate, cutting device, conveyor, hand hay cutter and unloads certainly and stores careless device and form.The utility model discloses a cutting device will get into the forage grass in results district and cut off and get into in the conveyor, conveyor carries forage grass and cuts up in the device is cut to the hand hay cutter, silk is carried out in forage grass after the cuing up entering silk device, thrown to send to behindthe silk and store in the careless device from unloading, can realize the forage grass cutting, carry, the hand hay cutter is cut, silk throws and send, the full back of vanning is from unloading overall process serialization high -efficiency operation, and the automation is high, time saving and labor saving, a high production efficiency is obtained, the hand hay cutter is eager and silk is effectual, the fodder palatability of production is good, nutrition and quality are high, the rate height is eaten up to forage grass, can not cause the waste to forage grass, can satisfy the demand of feeding of extensive plant.The utility model discloses be suitable for mountain area grass harvesting, effectively alleviateed grass harvesting's intensity of labour.

Inventors

CHEN PENGFEI

CHEN DAWANG

Latest standardized assignees - inventors removed

GANSU HUALING AGRICULTURAL SCIENCE & TECHNOLOGY DEVELOPMENT LIABILITY

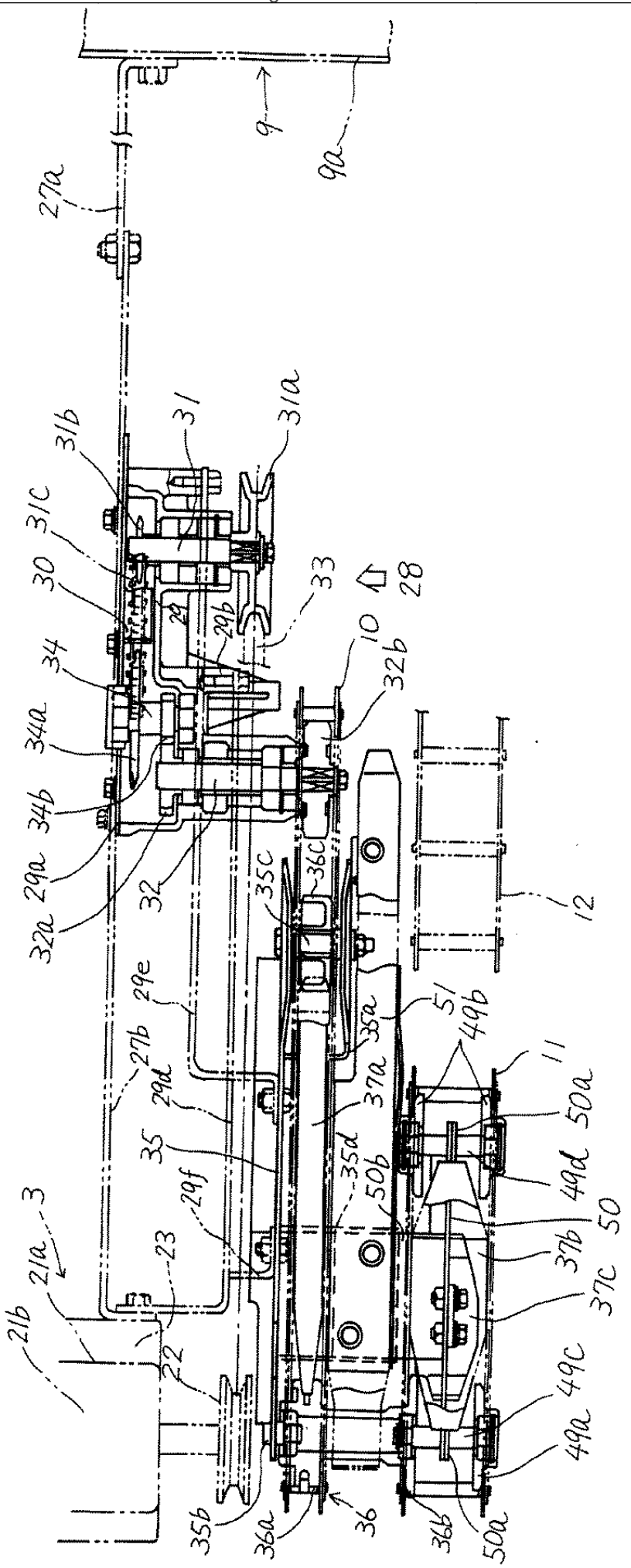
Family 433/667 - FAMPAT - ©Questel

Title

(JP2001299052)

Grain culm conveyor for combine harvester

Images


9
9a
27a
31
31a
31b
31c
30
33
28
10
32b
34
34a
34b
29a
32a
32
35c
36c
12
29e
35a
51
49b
27b
29d
37a
11
50a
35
29f
35d
50b
49d
3
21a
23
37b
50
37c
21b
22
49c
49a
35b
36a
36
36b
50a

Publication data including kind & date

JP2001299052	A	2001-10-30	JP2001299052
JP4277419	B2	2009-06-10	JP4277419

Abstract

(JP4277419)

PROBLEM TO BE SOLVED: To simplify the rotary driving construction of inner and outer complimentary transfer chains and ensure the succession of grain culms.SOLUTION: An inner supplementary transfer chain 10 and an outer supplementary transfer chain 10 succeed and transfer the grain culms transferred by each conveyor of a reaping machine 3, wherein the inner supplementary transfer chain 10 is driven from the transfer terminal side and the outer supplementary transfer chain 11 is driven from the transfer starting side.

Inventors

IIIZUMI KIYOSHI

IMAMURA HIDEKAZU

MIYAKE TATSUYA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

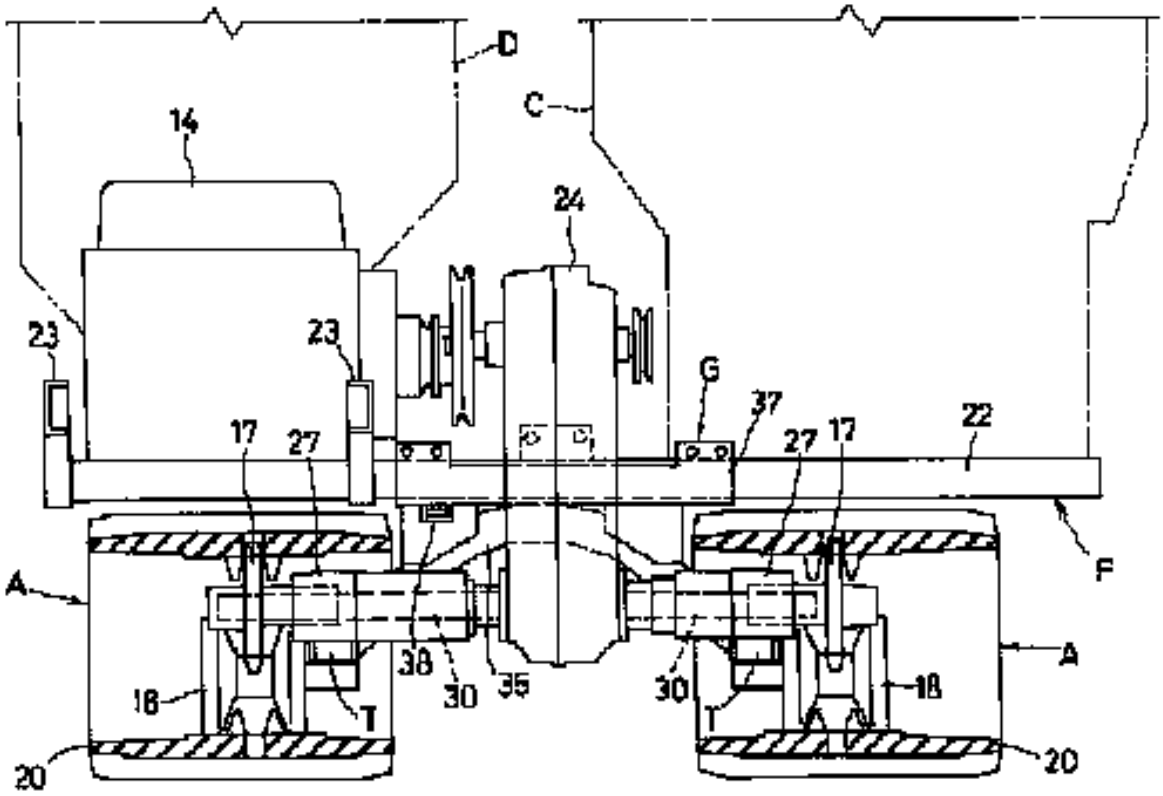
Family 434/667 - FAMPAT - ©Questel

Title

(JP09205855)

Combine harvester

Images



Publication data including kind & date

JPH09205855	A	1997-08-12	JP09205855
JP3326321	B2	2002-09-24	JP3326321

Abstract

(JP3326321)

PROBLEM TO BE SOLVED: To constitute a driving system for a travel device which allows a vehicle body frame system to move by constituting the vehicle body frame system so that the vehicle frame body system can move laterally about the system of the travel device.SOLUTION: A track frame T which supports a crawler travel device A and a vehicle frame F equipped with a reaping preprocess part, a threshing device C and a grain collection part D are so constituted as to move mutually and laterally, and the vehicle frame F is equipped with an engine and a transmission case 24 which changes the

speed of the power from the engine and transmits it to the crawler travel device A.Then, a driving shaft 30 projecting from the transmission case 24 laterally to the right and left is coupled by splining with the driving sprockets 17 of the crawler travel device A so that lateral relative movement is made free and torque transmission is made free.

Inventors

MAKIZONO HARUMICHI

KOMOTO NOBUMI

Latest standardized assignees - inventors removed

KUBOTA

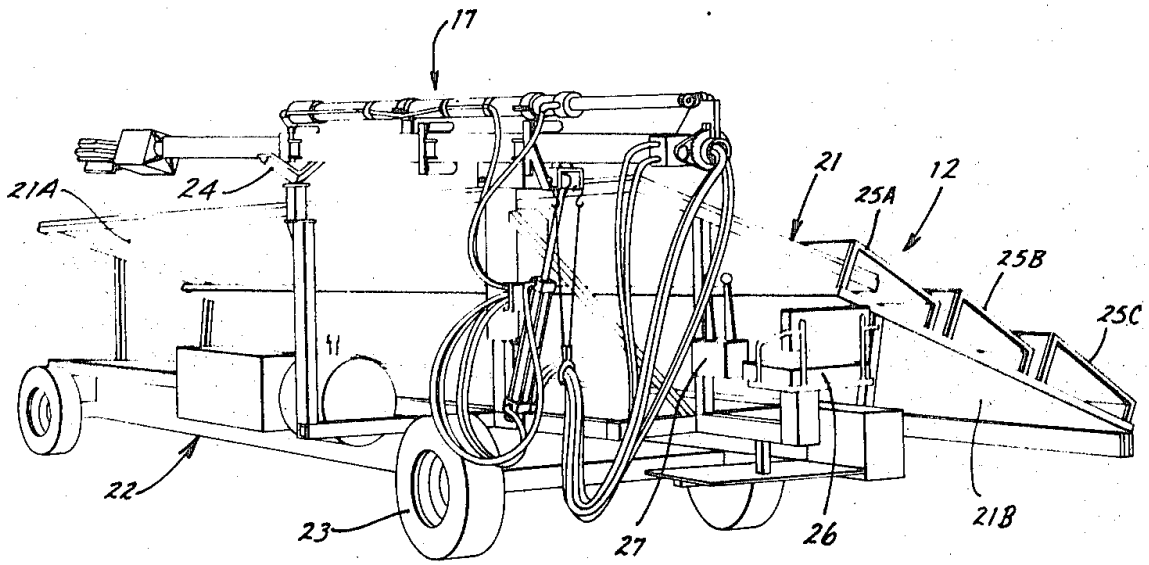
Family 435/667 - FAMPAT - ©Questel

Title

(US3785131)

Fruit harvesting apparatus

Images



Publication data including kind & date

US3785131 A 1974-01-15 US3785131

Abstract

(US3785131)

A fruit harvester having a limb shaking apparatus mounted in association with a catching structure adapted to be disposed below a tree for catching the dislodged fruit.The shaking apparatus includes a telescopic boom assembly which can be linearly extended into the tree, and which can also be horizontally and vertically swingably displaced to enable jaws mounted adjacent the end of the boom to be positioned in gripping engagement with a selected limb.A vibrator mechanism is mounted adjacent the end of the boom and is connected to the jaws for causing vibration thereof in a direction substantially perpendicular to the longitudinally extending direction of the boom.The vibrator mechanism and the jaws are mounted on a head assembly which can be angularly displaced about the longitudinal axis of the boom.

Inventors

FRIDAY D

FRIDAY P

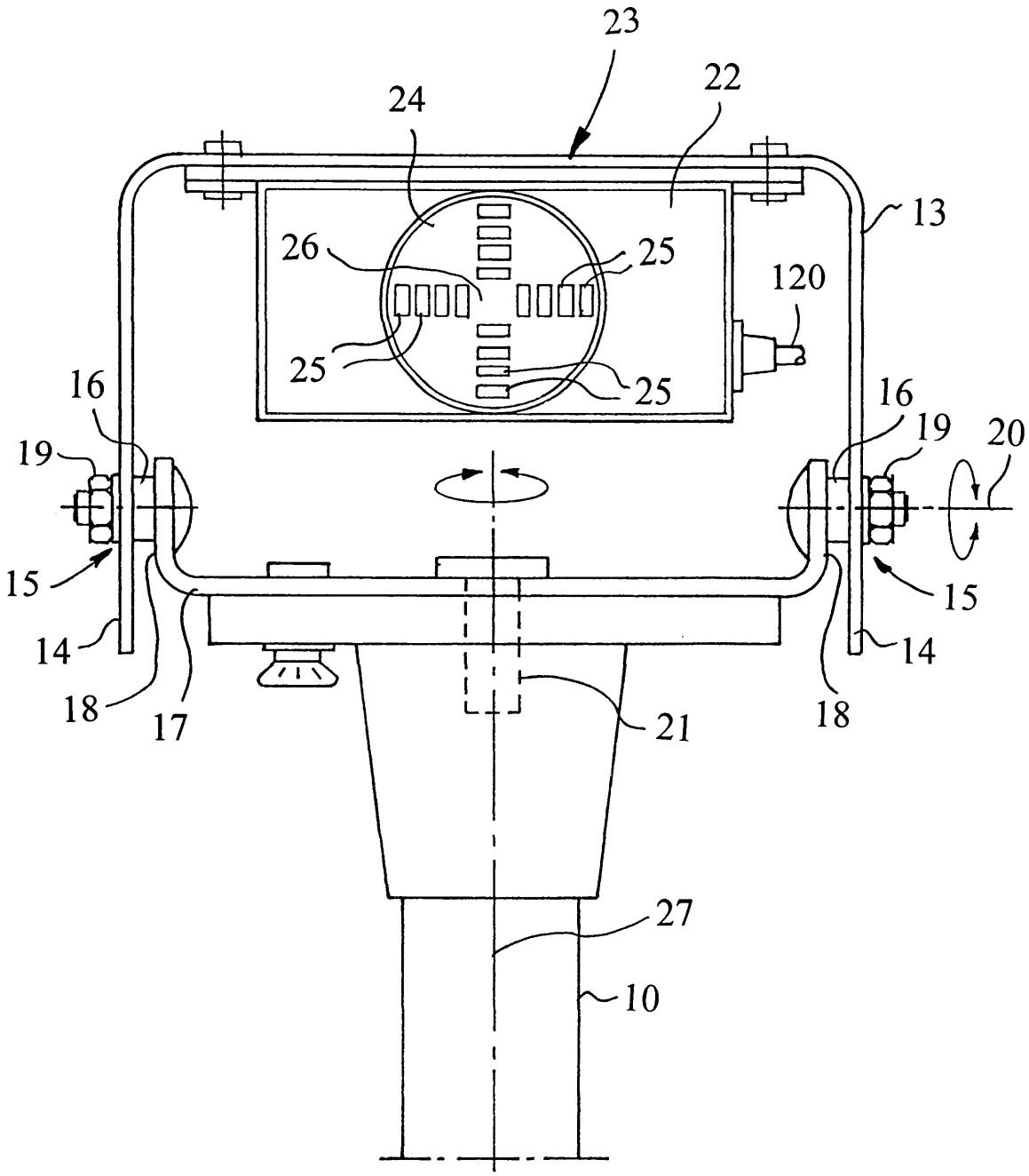
Family 436/667 - FAMPAT - ©Questel

Title

(EP1002455)

Process and device for adjusting a sensor unit relative to a field working machine

Images



Publication data including kind & date

EP1002455	A2	2000-05-24	EP1002455
DE19853085	A1	2000-05-25	DE19853085
BR9905632	A	2000-10-17	BR9905632
BRPI9905632	A1	2000-10-17	BR199905632
UA68349	C2	2001-03-15	UA--68349
DE29824677	U1	2002-05-16	DE29824677
US6397569	B1	2002-06-04	US6397569
EP1002455	A3	2004-02-11	EP1002455
RU2244399	C2	2005-01-20	RU2244399
BRPI9905632	B1	2006-08-15	BRPI9905632
DE19853085	B4	2014-03-20	DE19853085

Abstract

(EP1002455)

The method for adjusting a sensor unit attached to a field machine (2) involves automatically aligning the sensor unit (1) with a reference point or reference line (12).The sensor unit can be moved by remote control in the vertical and/or

horizontal directions until the reference point or line is detected.An Independent claim is also included for an adjuster for a sensor unit.

Inventors

HOMBURG HELMUT

HUSTER JOCHEN

Latest standardized assignees - inventors removed

CLAAS SELBSTFAHRENDE ERNTEMASCHINEN

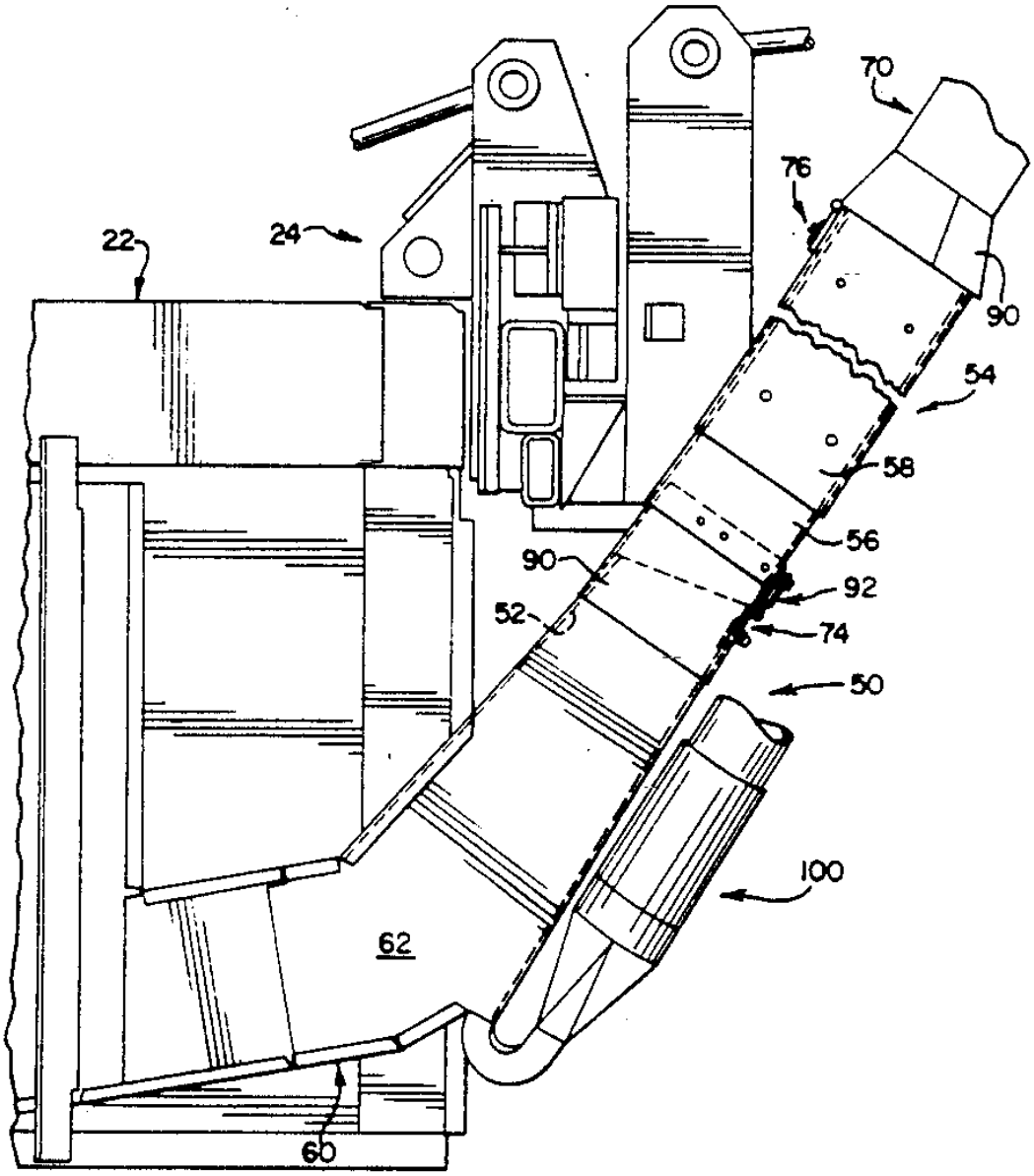
Family 437/667 - FAMPAT - ©Questel

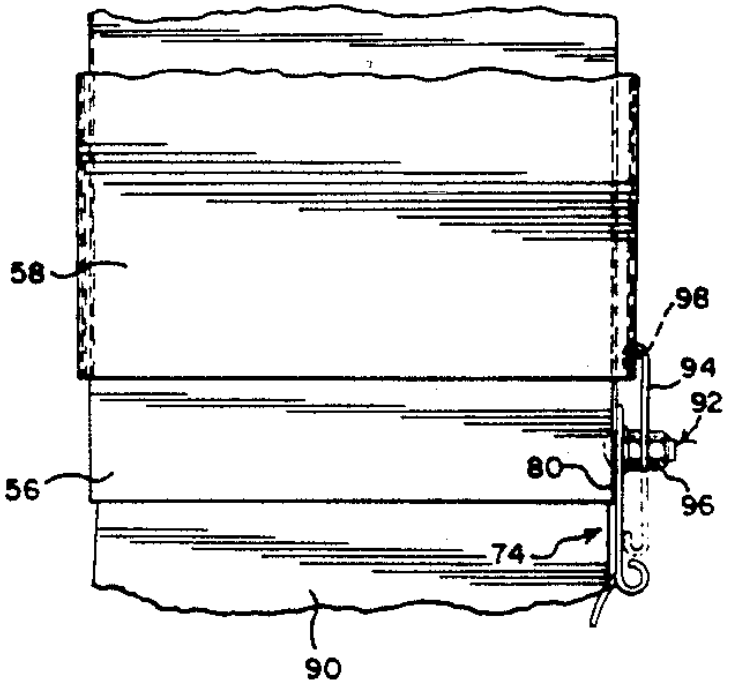
Title

(US5088274)

Cotton conveying structure for a cotton harvester

Images





Publication data including kind & date

US5088274 A 1992-02-18 US5088274

Abstract

(US5088274)

A cotton conveying structure which directs doffed cotton toward a cotton receptacle and readily allows both vertical and lateral movement of a harvesting unit to which it is connected.The conveying structure includes at least one discharge duct assembly defining an elongated cotton flow passage opening at one end to a harvesting mechanism of a harvesting unit and opening at an opposite end to exhaust cotton into a cotton receptacle.The duct assembly is provided with an intermediate section defined by a pair of elongated tubes which telescopically move relative to each other to maintain integrity of the duct assembly upon movement of the harvesting unit.

Inventors

GARTER LEE F

COVINGTON MICHAEL J

Latest standardized assignees - inventors removed

CNH GLOBAL

BLUE LEAF IP

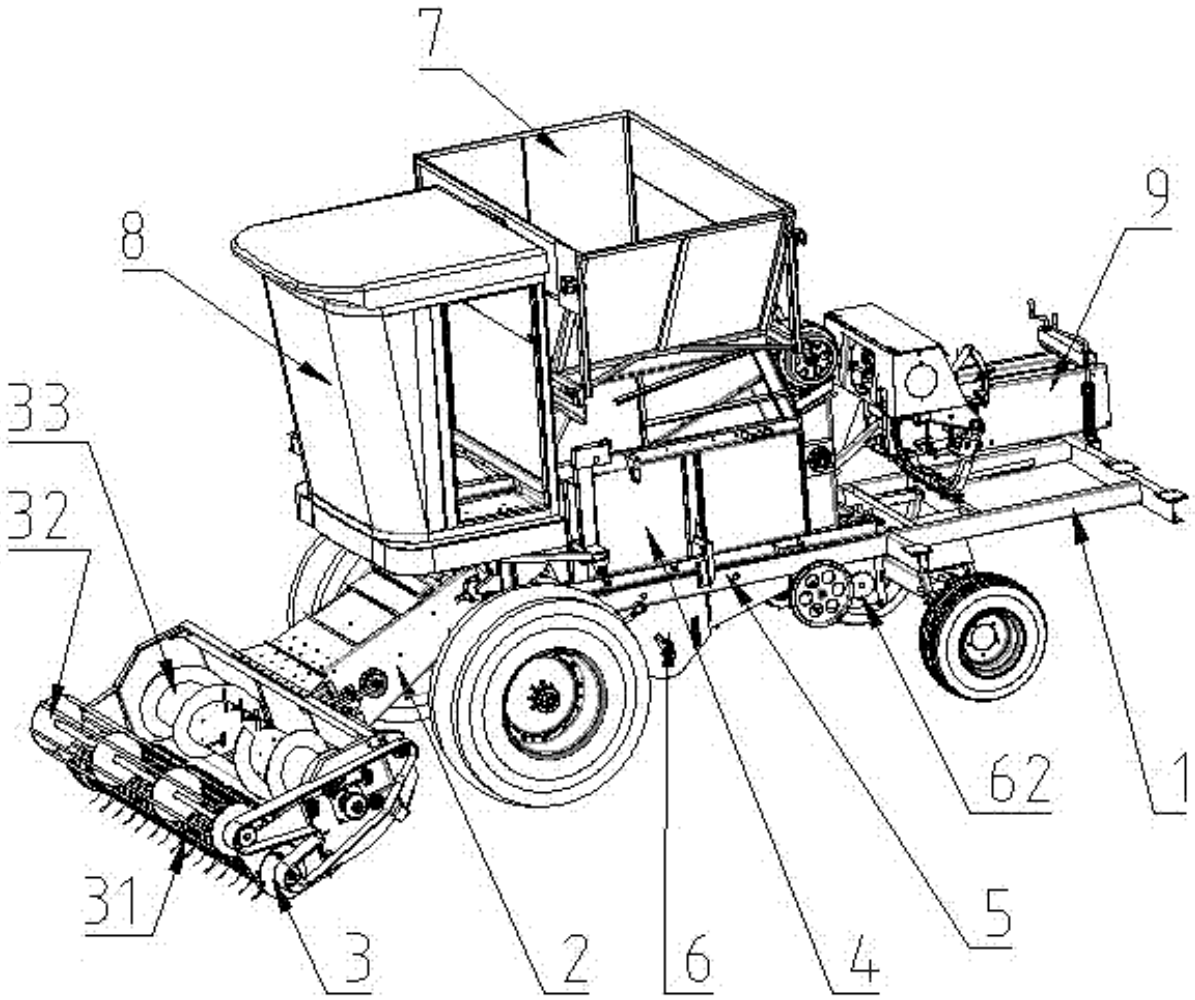
Family 438/667 - FAMPAT - ©Questel

Title

(CN208210716U)

Function of a peanut combine having a baled

Images



Publication data including kind & date

CN208210716 U 2018-12-11 CN208210716U

Abstract

(CN208210716U)

The present utility model discloses a function of the peanut harvesters having baled, comprising a frame, the transport

chamber, the pick-up station, picking chamber, cleaning room, fruit pieces conveyor, fruit warehouse and a cab, a lower frame provided with road wheels, the left side of the rack transport chamber provided with fixed, on the left side of the feed chamber is provided with a pick-up station, the right side of the picking chamber is provided above the transport chamber, for cleaning room provided below the picking chamber, lower portions of the cleaning room provided with the fruit pieces transfer device, cleaning room is provided with an upper portion of the fruit warehouse, fruit warehouse throwing tube connected with the fruit pieces conveyed through the apparatus, the left side of the cab is provided with fruit warehouse, with the right side of the cleaning room is provided with a bundling mechanism outlet; use, together with the peanuts through the pickup station along with a seedling, through the transport chamber to the picking chamber, through the picking chamber after picking fruit, the fruit cleaning room through dressing, after, fruit warehouse to a delivery device through pulp exists, baled straw through the tying mechanism; utility model has a low failure rate is present, the advantage of continuous operation time is long.

Inventors

LIU JUN FENG
ZHANG HUA MIN
CAO QINGCHUN
YUAN PENGFEI
TIAN ZHIYUAN

Latest standardized assignees - inventors removed

HENAN HAOFENG AGRICULTURAL EQUIPMENT

Family 439/667 - FAMPAT - ©Questel

Title

(FR2277526)

Grape harvester with pair of rotary beaters - has tangential arms on inclined beater shafts revolving about vert axes

Publication data including kind & date

FR2277526	A1	1976-02-06	FR2277526
FR2277526	B1	1977-10-14	FR2277526

Abstract

(FR2277526)

The machine is attached behind a tractor and straddles a vine row.It consists of a chassis composed of two parts hinged to each other.One part is at right angles to the tractor, and during transport the second part which is hinged on it folds back.In work the second part is pivoted through 90 deg. and takes up a position parallel to the machine centre line, and is composed of a passage in which are located two frames supporting housings which enclose beaters.The latter are inclined to and revolve about vertical axes, and have tangential arms which remove the grapes which fall onto an inclined floor.Between the latter and a transport auger is a space for the vine stems which is covered by two lips made of a flexible material.

Latest standardized assignees - inventors removed

PONZO BARTHELEMY

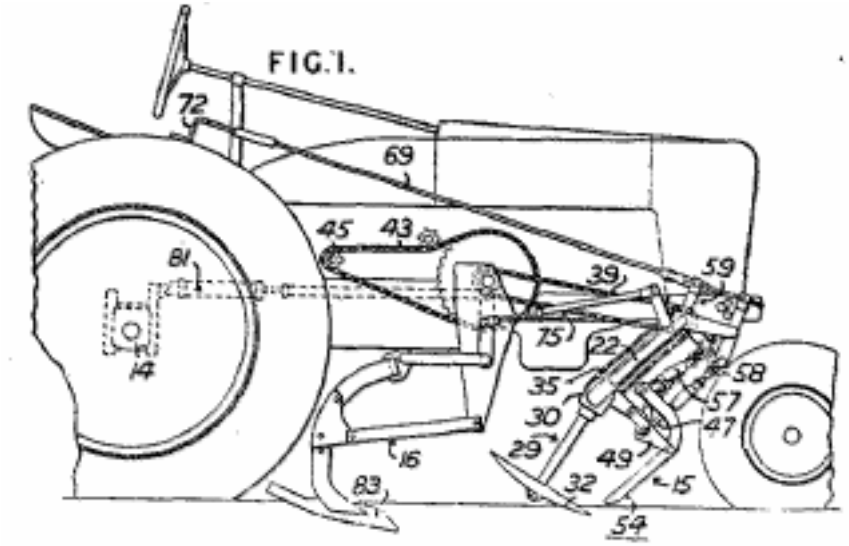
Family 440/667 - FAMPAT - ©Questel

Title

(GB-626413)

Improvements in or relating to harvesting machines

Images



Publication data including kind & date

GB626413 A 1949-07-14 GB-626413

Abstract

(GB-626413)

626,413. Harvesting root-crops.INTERNATIONAL HARVESTER CO.OF GREAT BRITAIN, Ltd. (International Harvester Co.).June 25, 1947, No. 16767. [Class 6(iii)] A beet-topping unit carried beneath a tractor comprises a power-driven discknife 32, mounted floatingly on parallel links, and preceded by an adjustable gauge device 15 attached to the links so as to control the rise and fall of the disc, the unit being liftable by the action of a hydraulic cylinder 81.The disc is carried on a housing 29 projecting from a gear-box 30 and is driven from the power take-off 45 through chains 43, 39, 35.The gear-box is pivoted to a bracket which includes a U- shaped arm 22 pivoted in a sleeve secured to a plate on the tractor.The arm 22 is connected by a telescopic link 75 to a digging unit 16 including a share 83.Both the digging unit and the topping unit are lifted by a hydraulic cylinder 81 secured to the rear axle housing 14 but, because of the telescopic link 75, the topping unit is permitted a limited floating movement.The gauge device 15 comprises a fork-like member 54 connected by a pivoted link 49 to the gear-box 30, and connected by an adjustable link 57 to an arm 58.A link 47, parallel to the arm 22, connects the link 49 with a bracket fixed to the tractor.The arm 58 forms one arm of a bell-crank, of which the other arm 59 is mounted on a rod 69 rotatable by a handle 72 to adjust the member 54 relatively to the disc 32.

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

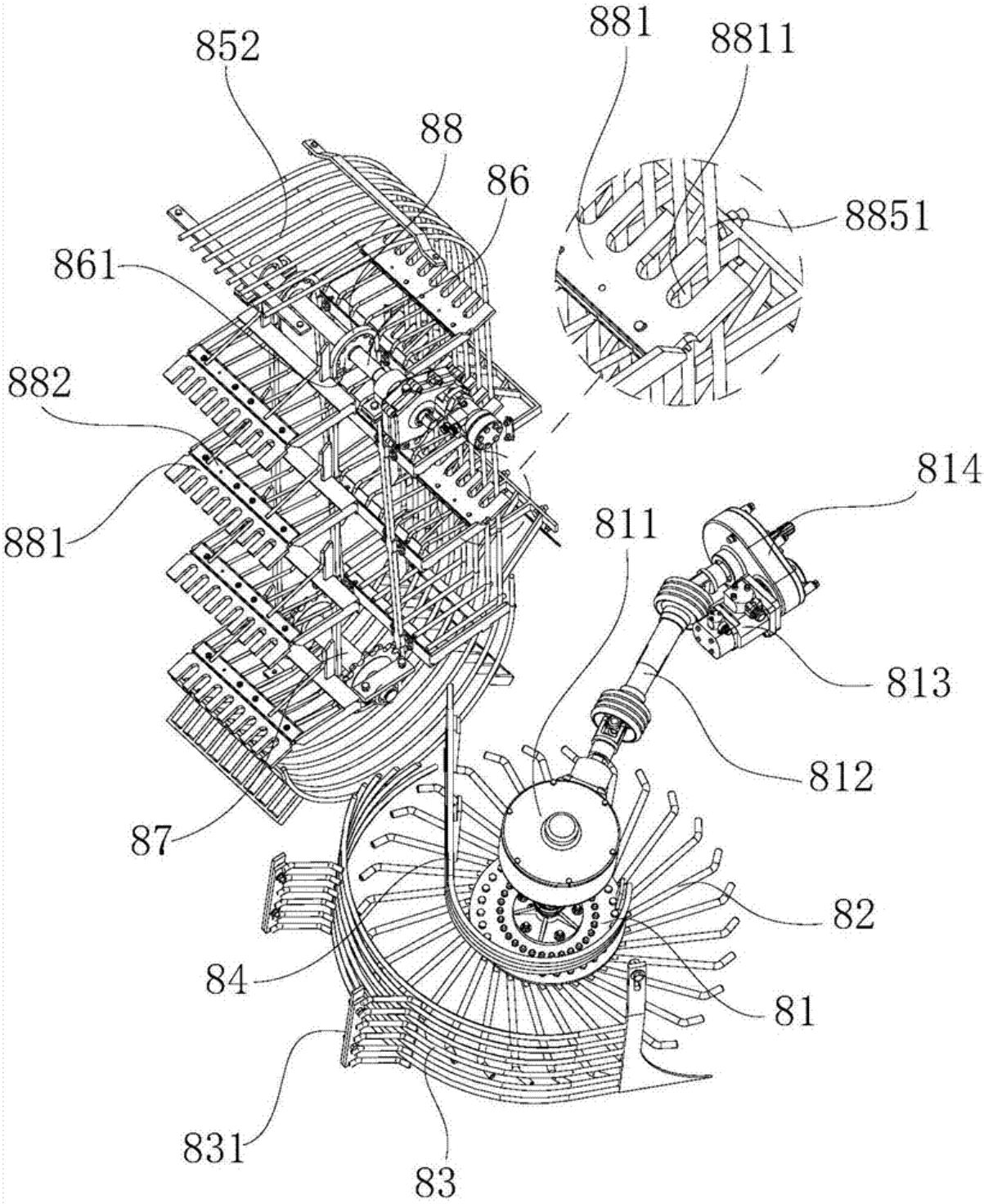
Family 441/667 - FAMPAT - ©Questel

Title

(CN108353613)

Carding mechanism

Images



Publication data including kind & date

CN108353613 A 2018-08-03 CN108353613

Abstract

(CN108353613)

The invention relates to a carding mechanism for a radish harvester.The carding mechanism comprises a movable car frame connected with a traction mechanism, the front and back ends of the length direction of the movable car frame are provided with a leaf cutting mechanism, a root digging mechanism and a material receiving mechanism, the front end of the leaf cutting mechanism is provided with a carding mechanism for carding a radish ditch cage, the carding mechanism comprises two arc carding rods, the two arc carding rods are arranged in a spaced mode and form a channel through which the radish ditch cage can pass, by means of the arc carding rods, radish leaves of radish plats can be carded conveniently, radish leaves can be cut conveniently by means of the leaf cutting mechanism so as to solve the problem that free cutting is caused under free traction of the traction mechanism, an operator drives the traction mechanism to card radish leaves of radish plants by observing the arc carding rods so as to clearly observe radish ditches, and therefore the operator can operate the mechanism conveniently.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE CITED

Latest standardized assignees - inventors removed

LI CUIPING

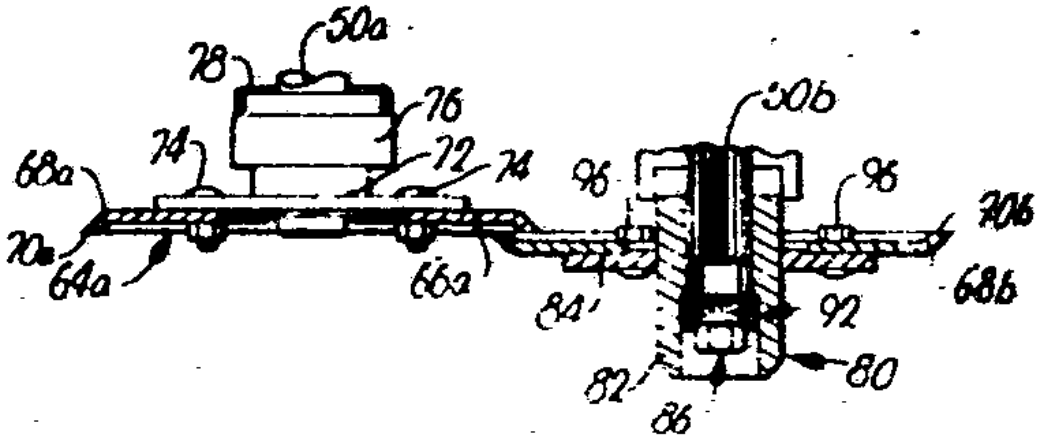
Family 442/667 - FAMPAT - ©Questel

Title

(FR2529743)

Maize harvester gathering head

Images



Publication data including kind & date

IT8348652	D0	1983-07-08	IT8348652
DE3324497	A1	1984-01-12	DE3324497
FR2529743	A1	1984-01-13	FR2529743
IT1171847	B	1987-06-10	IT1171847

Abstract

(FR2529743)

At the front of the machine are stalk separators with sideways projecting teeth which convey the cut stalks into the interior.Under the chains to which the teeth are attached, are horizontal, overlapping dished cutting discs (68a,b) mounted on the two vertical spindles carrying the driving wheels for the two chains.The spindle (50b) on which the upwardly facing cutting disc (68b) is mounted carries a device which holds the disc upwards against the downwardly facing cutting disc (68a).The lower disc (68b) is supported by a horizontal flange (84) attached to the outside of a sliding boss (80) mounted on the driving spindle.Inside the boss is a shoulder (94) under which is forced a stack of dished spring washers (102) resting on the head of a bolt (90) screwed into the bottom of the spindle.

Inventors

MCMILLEN KENNETH R

Latest standardized assignees - inventors removed

HESSTON

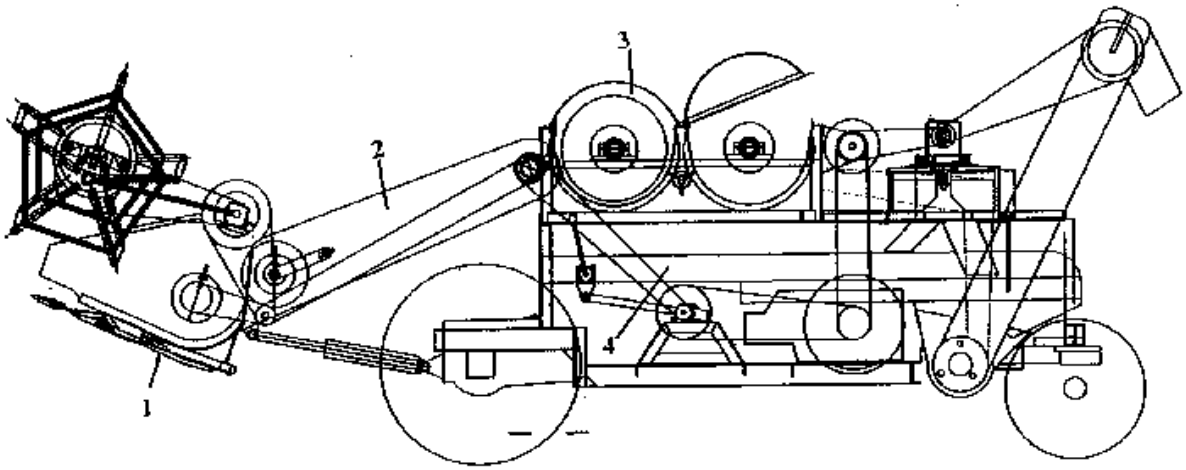
Family 443/667 - FAMPAT - ©Questel

Title

(CN2552317U)

Combine for grain

Images



Publication data including kind & date

CN2552317 Y 2003-05-28 CN2552317U

Abstract

(CN2552317U)

The utility model relates to a grain combine harvester, which consists of a header, a gap bridge and threshing devices.The header is installed on the back of a tractor in a floated and offset way.The cutting device is provided with a cutting driving mechanism, a cutting assembly, a copy mechanism bracket and a pallet.One end of the driving shaft of the cutting driving mechanism is arranged in a swing ring fork fixed and connected with the header body, and the other end of the driving shaft of the cutting driving mechanism is installed on the copy mechanism bracket through ball bearings.The front-end of a lower support arm is connected with the pallet by a bracket pin, the back-end of the lower support arm is connected with the header body by the lower support arm pin.The threshing devices consist of two threshing cylinders, namely, a first threshing cylinder and a second threshing cylinder, which are installed horizontally and are parallel to each other; and a first and a second threshing rooms communicated at one end and provided with the first threshing cylinder and the second threshing cylinder.A conveyor wheel is arranged between the two threshing rooms.The harvester has the advantages of low stubble, less stubble losses, high threshed rate, large feed quantity, compact structure, and low production cost thereby more particularly being suitable for reaping soybeans, and reducing the loss of the grain impurity following the grain and the threshing.

Inventors

CHI SHUTING

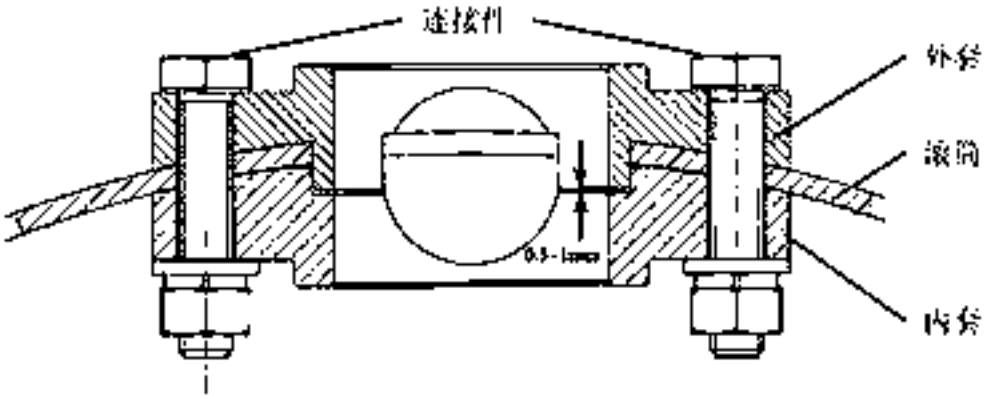
Family 444/667 - FAMPAT - ©Questel

Title

(CN104885708)

Telescopic shifting finger protecting cover structure for spiral pushing and conveying device and mounting mode

Images



Publication data including kind & date

CN104885708 A 2015-09-09 CN104885708

Abstract

(CN104885708)

The invention provides a telescopic shifting finger protecting cover structure for a spiral pushing and conveying device and a mounting mode.The telescopic shifting finger and protecting finger cover structure is that a telescopic shifting finger can be telescoped and fed on a conveying roller of a cutting platform of a harvesting machine through a complete single-degree-of-degree connecting mechanism; a telescopic shifting finger cover is formed by combining an inner cover and an outer cover and is fixedly mounted on the roller; a rotating block is arranged in the telescopic shifting finger cover and oscillated by a reciprocating manner, wherein the rotating block sleeves a shifting finger rod; the shifting finger rod can telescopically slide in the rotating block; the telescopic shifting finger cover, the telescopic shifting finger and the rotating block are mounted in the roller of the cutting platform of the harvesting machine.

Inventors

CHEN HUA
WANG QIANG
WANG SHUANG
LIAO MIN
LIANG JIAN
SUN SHUMIN

Latest standardized assignees - inventors removed

XIHUA UNIVERSITY

Family 445/667 - FAMPAT - ©Questel

Title

(WO201589574)

A cutting apparatus

Images

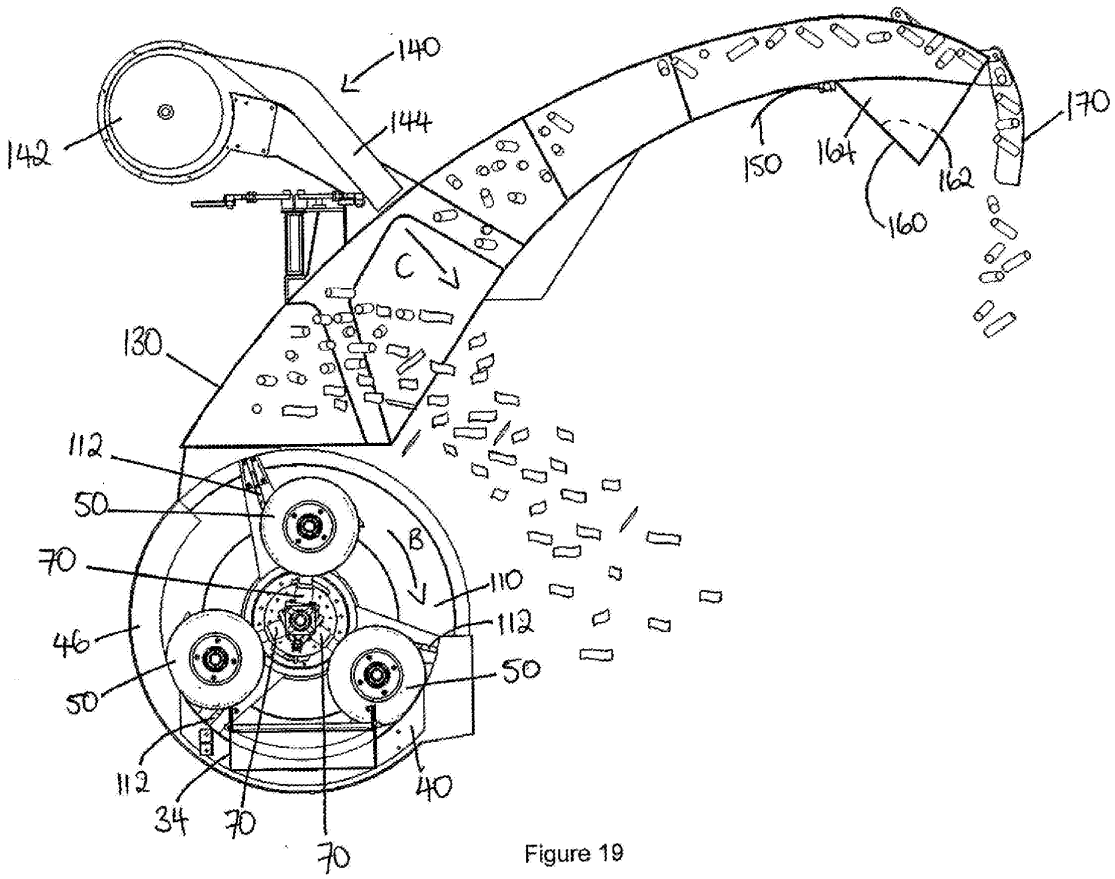


Figure 19

Publication data including kind & date

WO2015089574	A1	2015-06-25	WO201589574
AU2014366826	A1	2016-06-09	AU2014366826
BR112016013501	A1	2016-06-21	BR112016013501
IN201617020670	A	2016-08-31	IN201617020670
BR112016013501	A2	2017-08-08	BR112016013501
AU2014366826	B2	2017-12-07	AU2014366826

Abstract

(WO201589574)

A cutting apparatus is disclosed which is operable to receive a moving feed of material, wherein the material is to be cut into pieces by the cutting apparatus.The cutting apparatus includes a fixed portion over which the material passes, and a rotating portion.The rotating portion includes at least one rolling cutting element that moves in an orbit around the rotating portion's axis of rotation when the rotating portion rotates.The orbit of each cutting element is at an angle to the direction in which the material passes over the fixed portion.For at least part of each revolution, each cutting element contacts the fixed portion and rolls along or relative to the fixed portion thereupon cutting the material passing over the fixed portion.

Inventors

HICKLING RAYMOND CHARLES

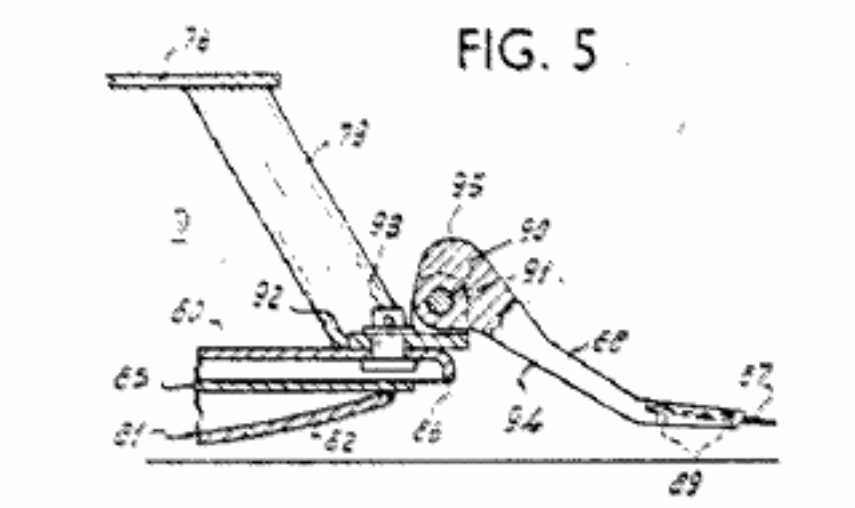
Family 446/667 - FAMPAT - ©Questel

Title

(GB1472121)

Mowing machines

Images



Publication data including kind & date

NL7305169	A	1974-10-15	NL7305169
DE2418154	A1	1974-10-31	DE2418154
FR2235640	A1	1975-01-31	FR2235640
GB1472121	A	1977-05-04	GB1472121
FR2235640	B1	1979-07-13	FR2235640
DE2418154	C2	1985-10-03	DE2418154

Abstract

(FR2235640)

1472121 Rotary mower C VAN DER LELY NV 16 April 1974 [13 April 1973] 16617/74 Heading A1F Blades 87 are carried by supports 88 which are freely pivotable about a vertical pin 93 and a horizontal pin 90 with respect to a felly 80 of a rotor 9 such that the supports are directed outwardly from the rotor axis due to centrifugal forces during operation of the mower but may deflect upwardly and rearwardly on contact with uneven ground.An edge 94 of the support co-operates guidingly

with the felly rim 86 for this deflection until the support contacts a spoke 79 acting as a stop.A bracket 92, carrying the pin 90, limits downward movement of the support 88, or the rim 86 may be extended for this purpose.Specification 1472123 should be referred to for further details of the mower construction.

(From GB1472121 A)

Inventors

LELY, CORNELIS VAN DER, ZUG, CH

Latest standardized assignees - inventors removed

C VAN DER LELY

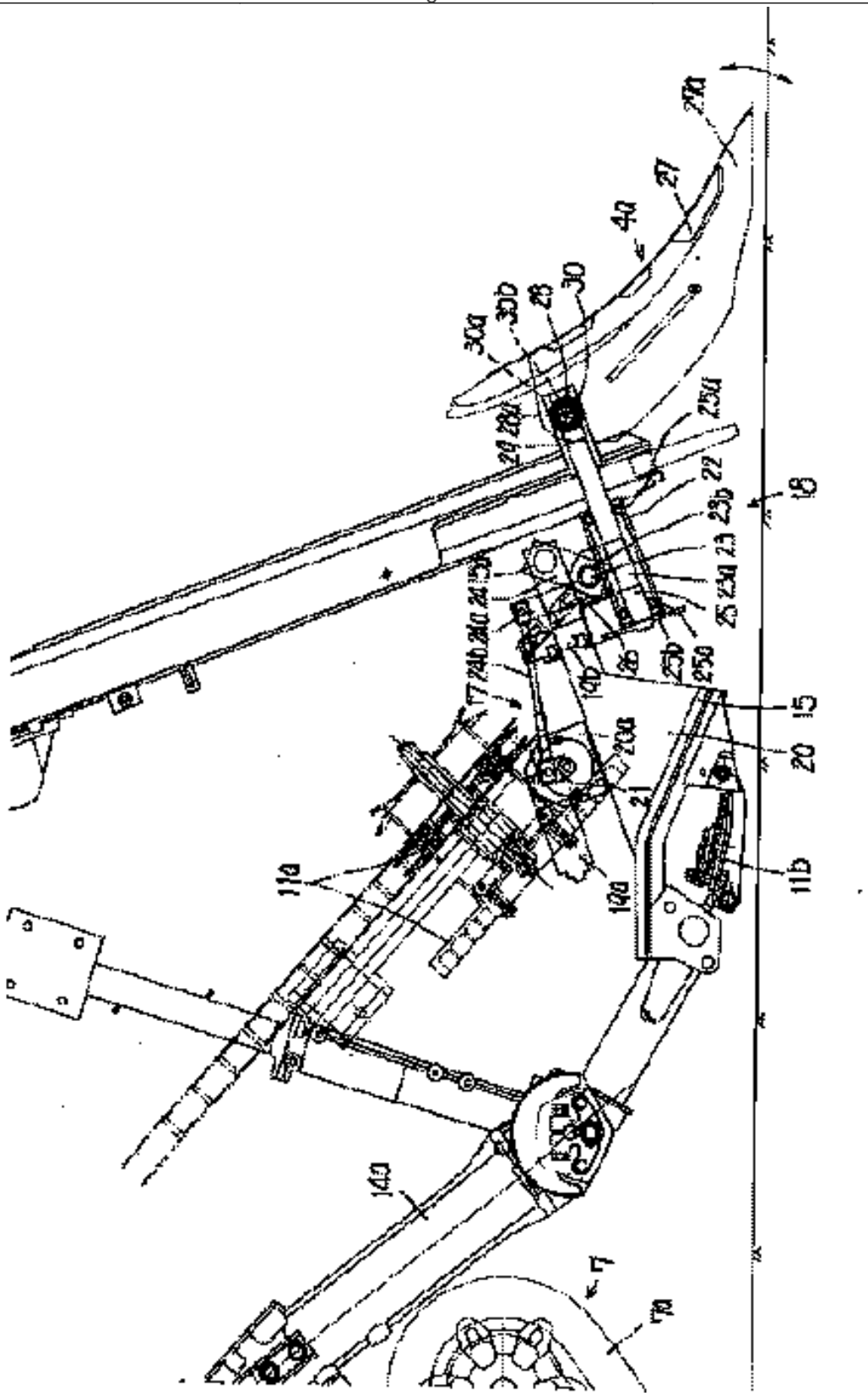
Family 447/667 - FAMPAT - ©Questel

Title

(JP2002112616)

Grain culm separatory device for combine harvester

Images



Publication data including kind & date

JP2002112616 A 2002-04-16 JP2002112616

Abstract

(JP2002112616)

PROBLEM TO BE SOLVED: To provide a grain culm separatory device having such a scheme that one of dividers facing outside and functioning to separate erected grain culms is to be moved vertically or turnably left and right by the aid of a remote controller or the like.SOLUTION: This grain culm separatory device has such a scheme that one of dividers, a divider 4a facing outside and functioning to separate erected grain culms, is to be moved vertically or turnably left and right about the longitudinal shaft 25 and the transverse shaft 23 by dividing motors 19a and 19b by the aid of a remote controller 31.

Inventors

SATOJI HISAYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

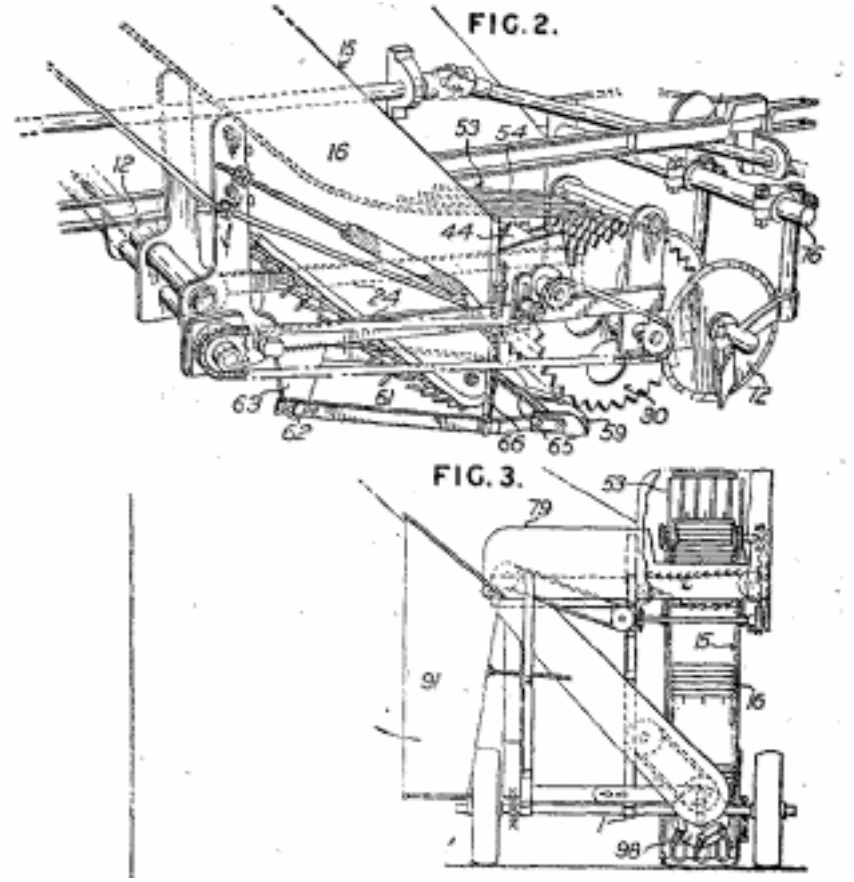
Family 448/667 - FAMPAT - ©Questel

Title

(GB-872740)

Improvements in or relating to machines for use in topping beet and like root crops

Images



Publication data including kind & date

GB872740 A 1961-07-12 GB-872740

Abstract

(GB-872740)

872,740. Root-crop harvesters.STANDEN & SONS Ltd., F.A. and STANDEN, P.Oct. 2 1958 [Oct. 2, 1957 June 27, 1958] Nos. 30915/57 and 20642/58.Class 6(3).A beetroot topping and top-collecting apparatus includes a topping knife 59, the height of which above the ground is controlled by a rotary feeler 30, a top-elevator 15 and means for supporting the severed tops in their passage from the knife to the elevator, the topping assembly being capable of movement independently of, and relatively to the elevator, as the machine advances.The apparatus is attached to the harvesting machine described in Specification 662,804 and the topping mechanism is similar to that described in Specification 842,423 and consists of a pivoted frame 24 carrying the feeler-wheels 30 and a frame 61 pivoted at 62 to brackets 63 depending from the frame 24.The frame 61 is linked to the frame 24 by a member 66 and carries the knife 59 having rearwardly-extending tines 65 which support the cut-tops in their passage to the elevator 15.The elevator is fixed on the main frame 1 of the harvester and has a chain-link floor and rigid side-walls 16, a grid 53 of bars 54 presses tops down on to the upper chain-run.Rotary cleaning discs 44 interleave with the feelerwheels.The elevator 15 discharges at its upper end on to an endless transverse conveyer 79 which delivers to a shoot 91 adjustably mounted on the harvester frame.A thrashing mechanism 98 of the type described in Specification 662,804 follows the topping mechanism which is preceded by vertical disc-coulters 72 to cut off loosely-spreading beet-foliage.The topping mechanism, elevator and disc-coulters are,

laterally adjustable on cross-members 12, 76 of the harvester frame.Specifications 710,657 and 657,174 also are referred to.

Latest standardized assignees - inventors removed

F A STANDEN & SONS

PETER STANDEN

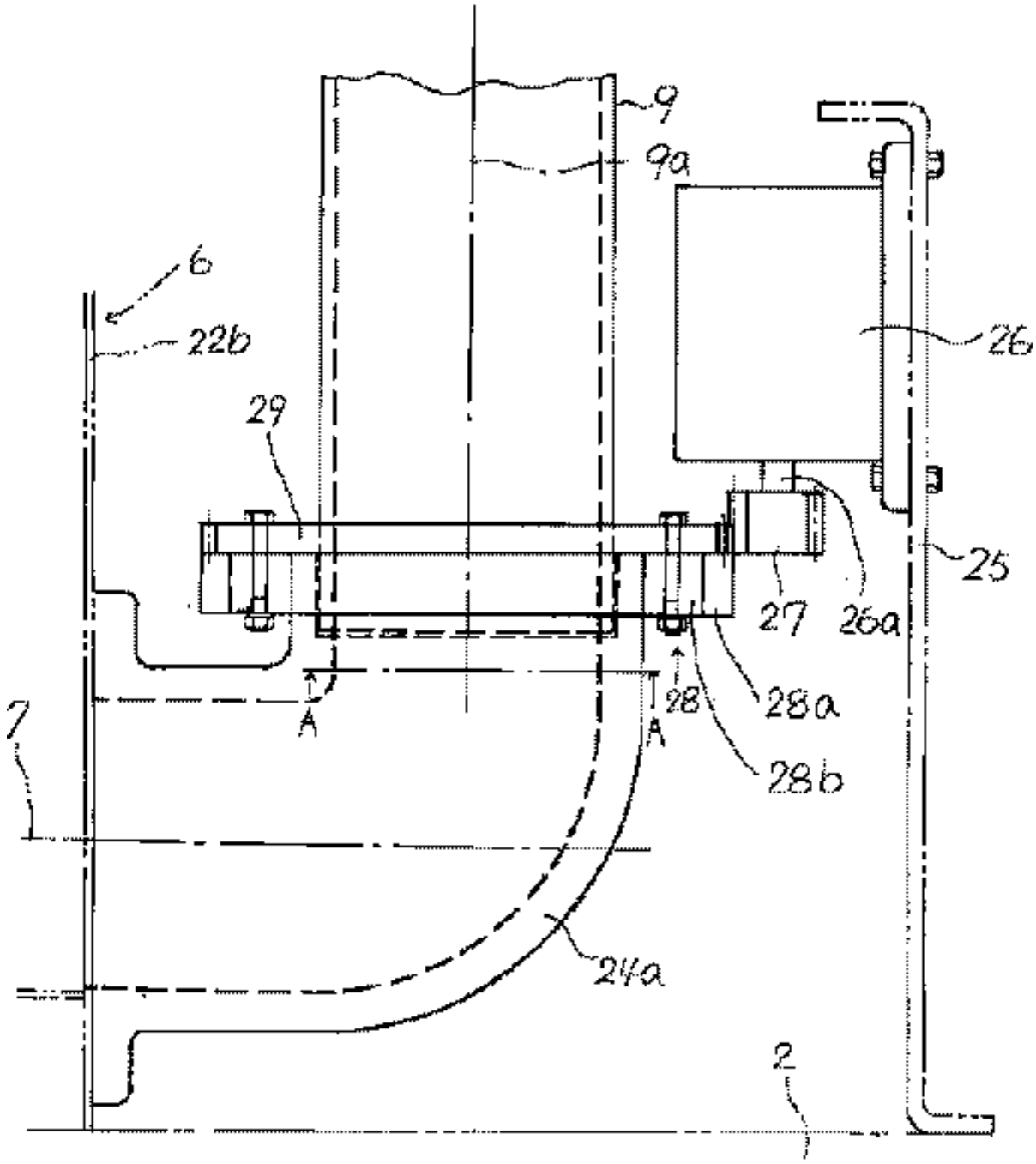
Family 449/667 - FAMPAT - ©Questel

Title

(JP2002191225)

Cereal grain-discharging unit of combine harvester

Images



Publication data including kind & date

JP2002191225 A 2002-07-09 JP2002191225

Abstract

(JP2002191225)

PROBLEM TO BE SOLVED: To install a gear for turning at a freely turning discharge-supporting tube for discharging cereal grains to the outside of a machine and a biting motor gear of a turning motor, and aiming at the prevention of each of the gears and the rotating motor from breakage.SOLUTION: This cereal grain-discharging unit is constituted by installing a freely turning discharge-supporting tube 9 for discharging the cereal grains to the outside of the machine and a discharging auger 10 at the upper end part of the discharge-supporting tube 9 at the outside of a cereal grain-storing tank 6, also the turning gear 29 biting with the motor gear 27 of the turning motor 26 for turning and driving the discharge-supporting tube 9,

at the discharge-supporting tube 9 through a buffering device 28, an acceleration sensor for detecting the acceleration of the machine body 1 in its turning direction and the acceleration of its travel and a controlling device for switching to control the turning motor 26 by switching to a speed reduction resistance circuit based on the detected accelerations.

Inventors

DOI YOSHINORI

WATANABE HITOSHI

NAGAI TOSHIRO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

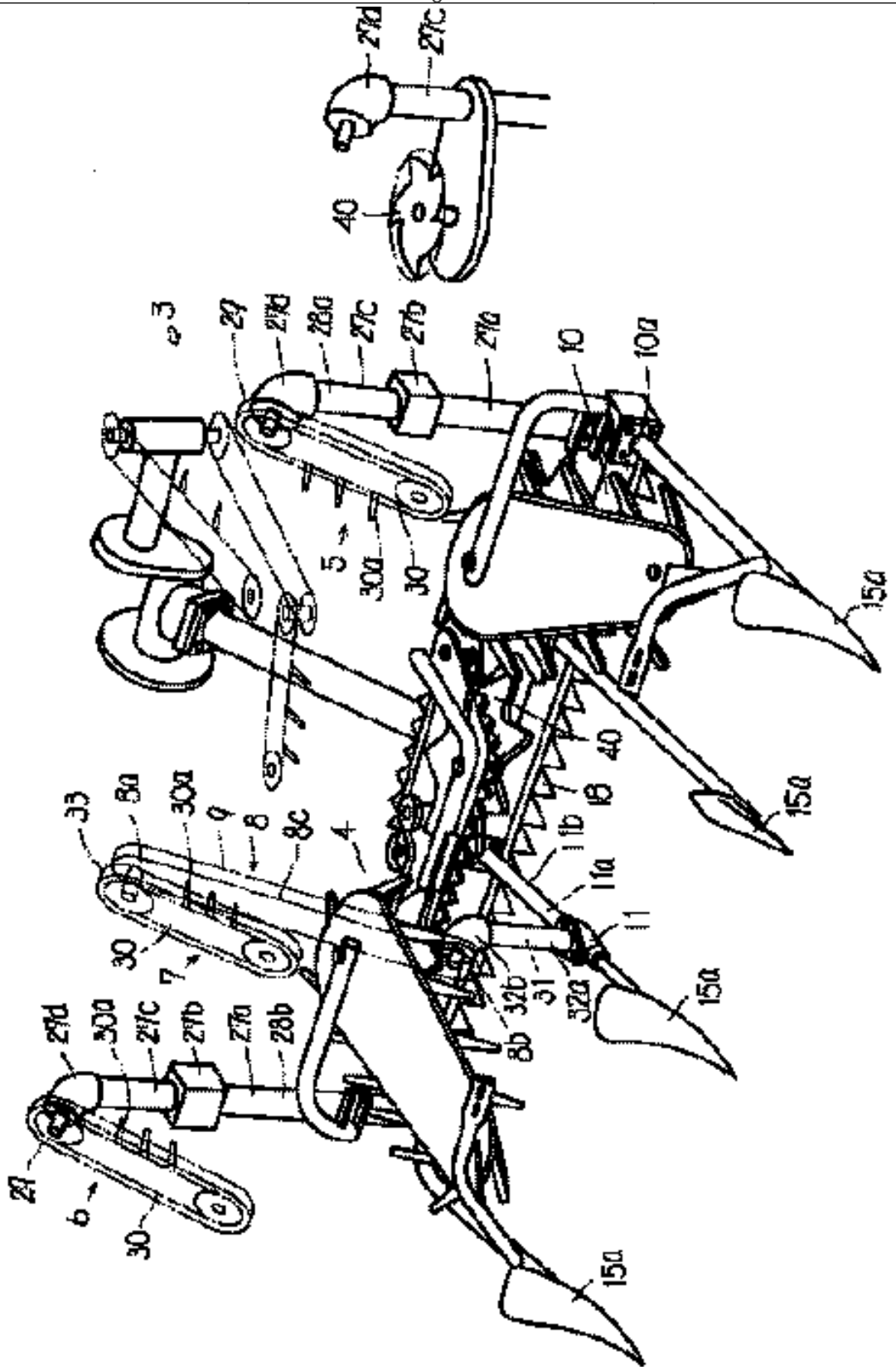
Family 450/667 - FAMPAT - ©Questel

Title

(JP2002051626)

Raising apparatus for combine harvester

Images



Publication data including kind & date

JP2002051626 A 2002-02-19 JP2002051626

Abstract

(JP2002051626)

PROBLEM TO BE SOLVED: To surely carry out a transverse transportation of grain culms transported in the horizontal direction at the rear of a raising apparatus.SOLUTION: A power is inputted from a reaping gear case 10 for rotating and driving the raising apparatus 1 through an output gear case 11, etc., to the lower part of a chain case 9 arranged in the vicinity of the rear of the raising apparatus 7 and the raising apparatus 7 is rotated and driven from the upper part of the chain case 9.

Inventors

FURUKAWA YOSHINOBU
KIYASU KAZUHARU
SAKAMOTO NORIYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

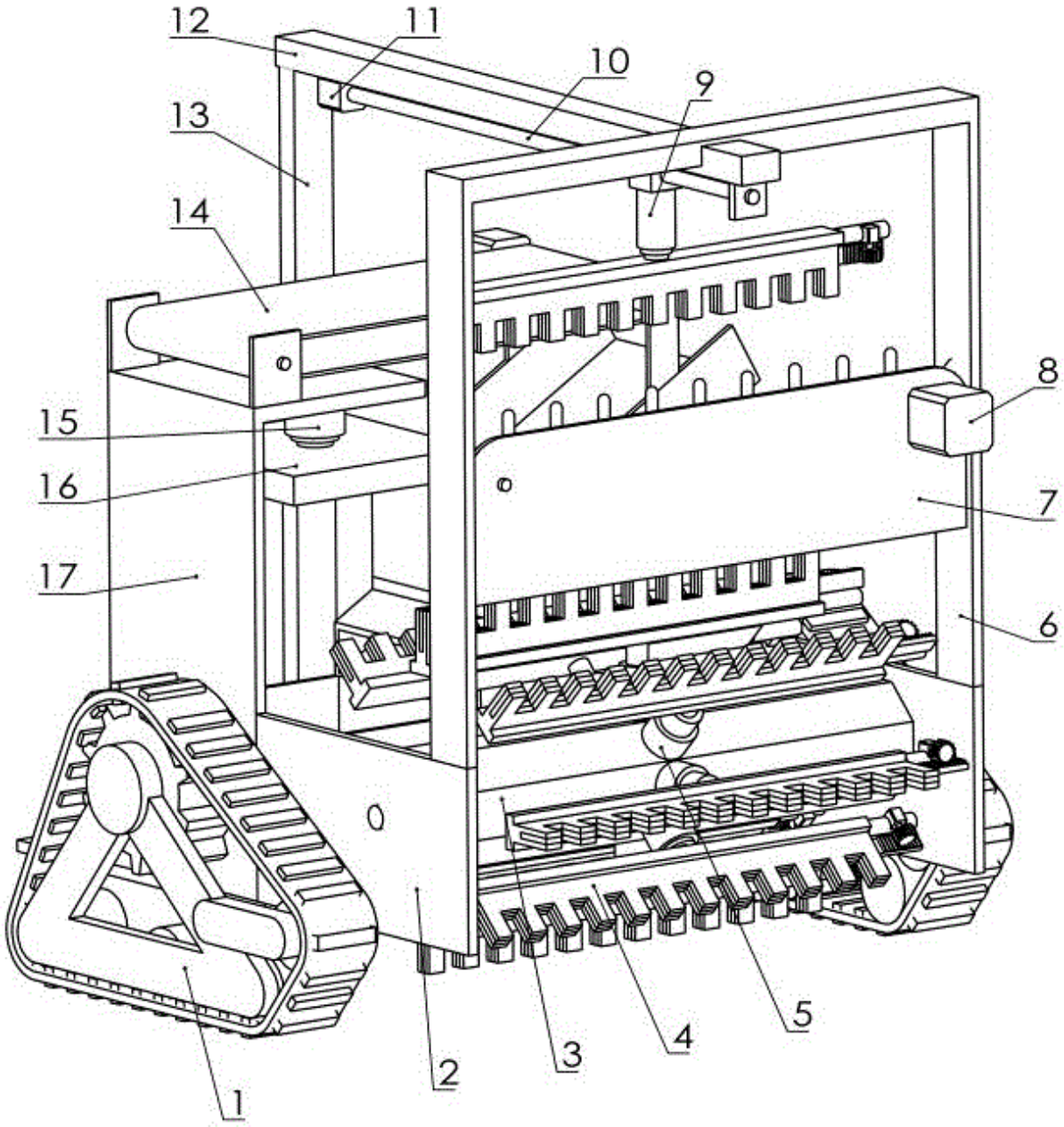
Family 451/667 - FAMPAT - ©Questel

Title

(CN107172966)

Cotton straw crushing and compressing robot

Images



Publication data including kind & date

CN107172966 A 2017-09-19 CN107172966

Abstract

(CN107172966)

The invention discloses a cotton straw crushing and compressing robot which comprises two crawler wheels, two first supporting plates, a rotating shaft, nine cotton straw gripping apparatuses, eight first telescoping cylinders, a first bracket, second supporting plates, a first stepping motor, a second telescoping cylinder, a lead screw, a second stepping motor, a second bracket and the like.With the adoption of the technical scheme, the cotton straw crushing and compressing robot

disclosed by the invention has the following advantages that the robot walks by virtue of the crawler wheels and can adapt to traveling in soft soil of a field; cotton straws are gripped by virtue of unique cotton straw gripping apparatuses, the efficiency is high, the structure is stable, soil at the roots of the cotton straws is cleared through a special belt, and the cotton straws are conveniently and subsequently recycled; and the cotton straw crushing and compressing robot disclosed by the invention is capable of harvesting, crushing and compressing the cotton straws, high in degree of automation and high in efficiency, the manpower and material resources are greatly saved, and the recycling quality of the cotton straws is improved.

Inventors

HAN DENGYIN

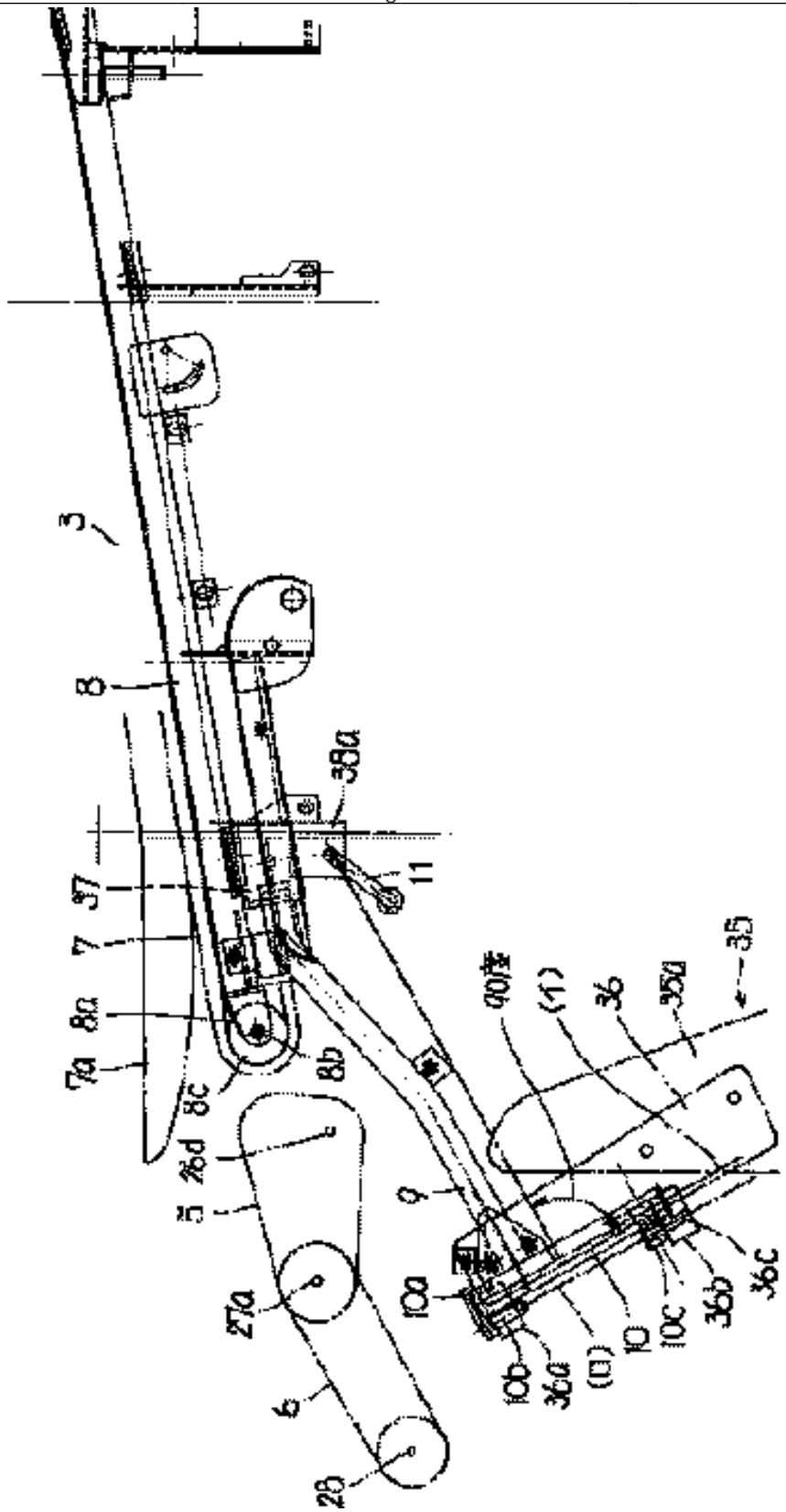
Family 452/667 - FAMPAT - ©Questel

Title

(JP2002125441)

Grain straw transfer device of combine harvester

Images



Publication data including kind & date

JP2002125441 A 2002-05-08 JP2002125441

Abstract

(JP2002125441)

PROBLEM TO BE SOLVED: To solve a problem that, when being outward opened around a rotation shaft disposed on the chain rail, a feed chain and a chain rail are brought into one or more other parts to break the other parts.SOLUTION: A rotation shaft 10 is disposed on a chain rail 8 for holding a feed chain 7, and the feed chain 7 and the chain rail 8 are disposed in a state capable of being freely opened or closed around the rotation shaft 10.A guide rod 11 for guiding the opening or closing of the chain rail 8 is disposed on the chain rail 8 in a posture approximately perpendicular to the rotation shaft 10, and a stopper 12 is disposed at the transfer terminal of the guide rod 11.The lateral position of the rotation shaft

10 is placed between inner and outer auxiliary transfer chains on the front side of a thresher 3.

Inventors

IMAMURA HIDEKAZU
TAKEUCHI KENICHIRO
ICHIMARU TOMOYUKI
MIZUSHIMA ATSUSHI
TOYODA KAZUO
WATANABE HITOSHI

Latest standardized assignees - inventors removed

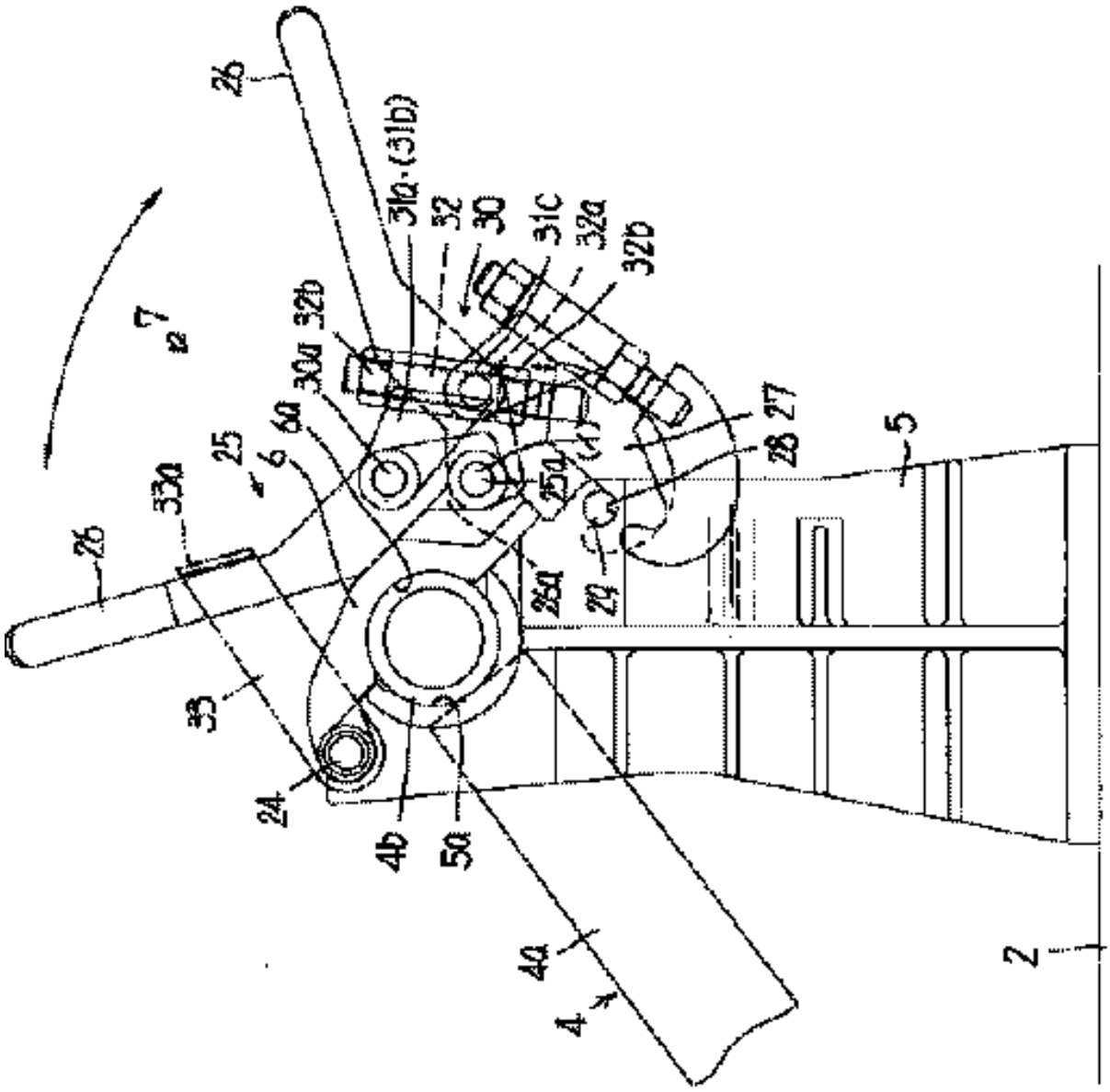
ISEKI AGRICULTURAL MACHINERY

Family 453/667 - FAMPAT - ©Questel

Title

(JP2001292620)
Reaper-supporting device of combine harvester

Images



Publication data including kind & date

JP2001292620 A 2001-10-23 JP2001292620

Abstract

(JP2001292620)

PROBLEM TO BE SOLVED: To facilitate attachment of a reaper and improve attaching accuracy thereof.SOLUTION: A lower supporting metal 5 for receiving a supporting lever frame 4 for supporting the reaper and an openable upper supporting metal 6 are provided.Further, an adjusting device 30 for adjusting the position of a hook 27 installed on an opening and closing lever 26 of a rotatable opening and closing device 25 for opening and closing the upper supporting metal 6 is provided, and a rotation center part (i) of the opening and closing lever 26 and an engaging part 28 of the hook 27 are provided so as to position on nearly linear line.

Inventors

MIZUMOTO HIROKAZU
SAKAMOTO NORIYUKI
KIYASU KAZUHARU
FURUKAWA YOSHINOBU
ANAMI MASAYUKI
AKEHI RIYUUJI
MATSUDA YOSHIMASA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

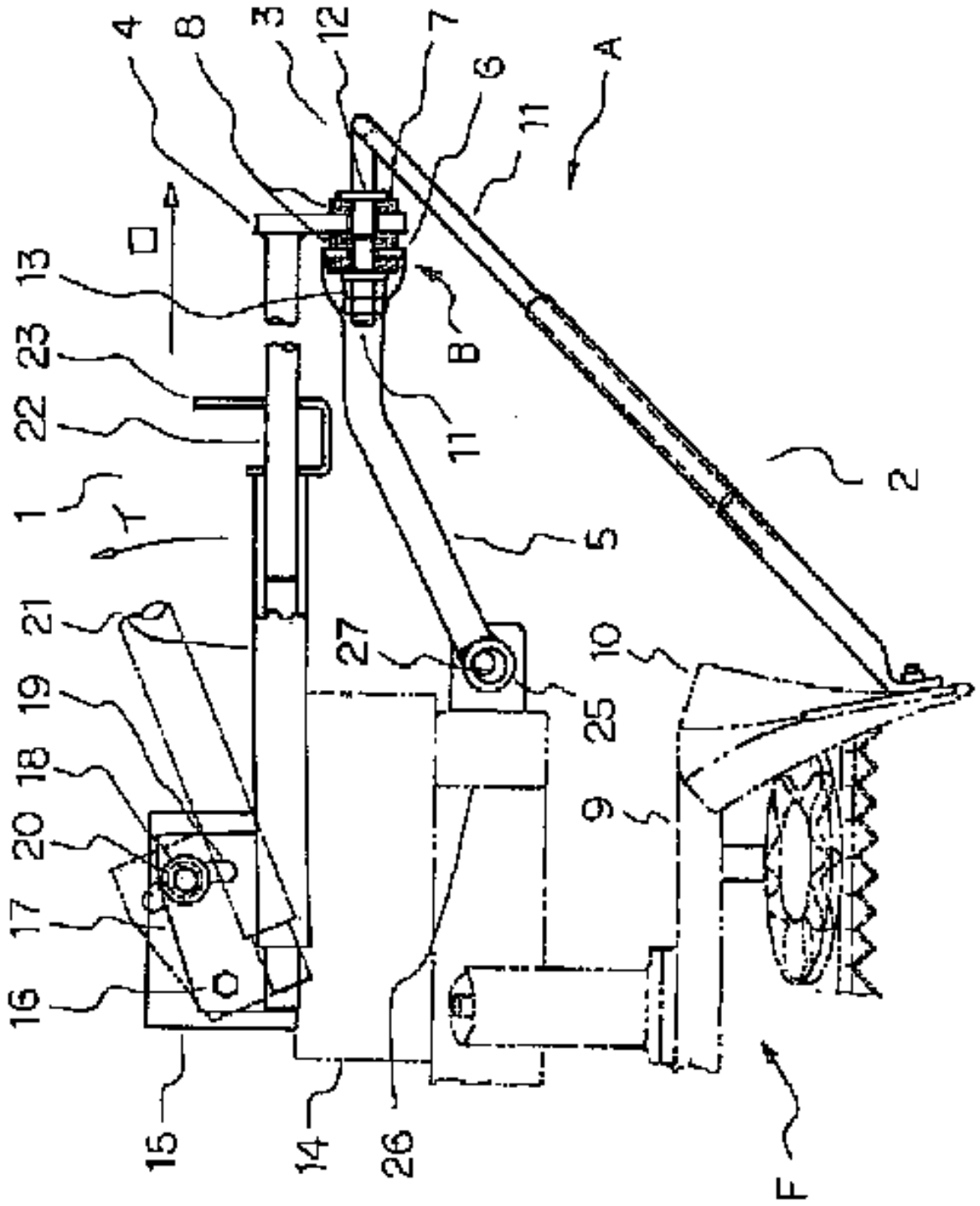
Family 454/667 - FAMPAT - ©Questel

Title

(JP2000236731)

Structure for grass dividing rod for combine harvester

Images



Publication data including kind & date

JP2000236731 A 2000-09-05 JP2000236731

Abstract

(JP2000236731)

PROBLEM TO BE SOLVED: To provide a simplified structure for a grass dividing rod capable of preventing a gap from forming in a joining and connecting part for freely bendably connecting divided grass dividing rods and smoothly taking over branched grain culms.SOLUTION: This structure for a grass dividing rod A is obtained by forming a simplified structure in which a rear end 3 of a front grass dividing rod 2 is curved, a connecting shaft 11 is formed at the tip thereof to insert and pass the connecting shaft 11 through a hole of a supporting tool 4 and the tip 6 of a rear grass dividing rod 5 is fitted to the shaft end thereof in a connecting constitution so as to engage a joining and connecting part B dividing the grass dividing

rod A into the front and rear with the tip of an advancing and retreating operating member 1 and stop the joining and connecting part B at an optional position.Furthermore, the connecting structure for the grass dividing rod A is designed to sandwich an elastic body 8 between respective contact surfaces of the respective connecting members and install the elastic body 8 so as to be freely bendably flexible and thereby absorb the tilt or torsion of the connecting shaft 11 caused by the regulation of height of the grass dividing rod A, a change in posture in advancing and retreating and the reaping, lifting and lowering by deformation of the elastic body 8.

Inventors

NOMURA HIROHISA

KAMIKUBO KOJI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

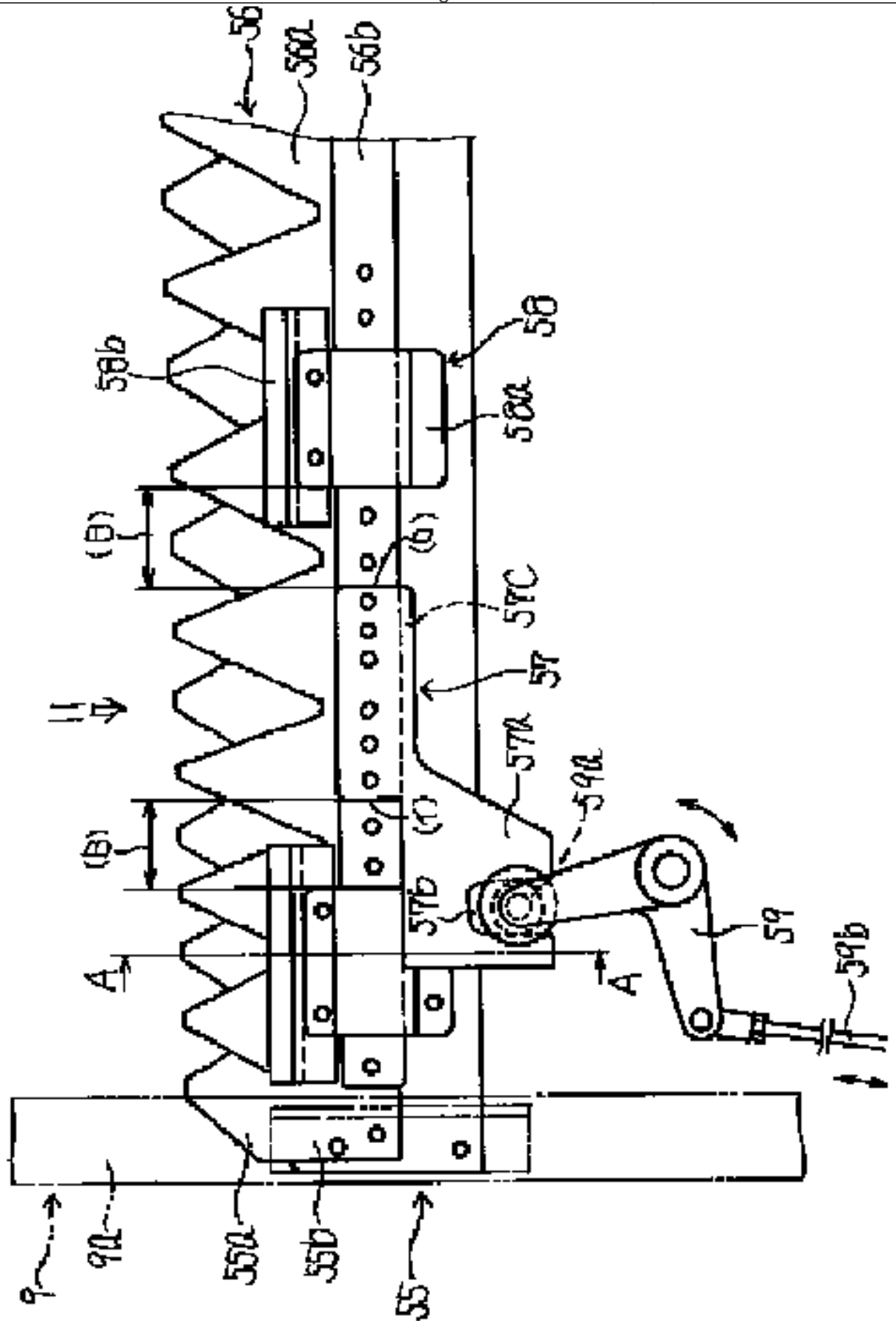
Family 455/667 - FAMPAT - ©Questel

Title

(JP2000166348)

Grain culm cutting unit for combine harvester or the like

Images



Publication data including kind & date

JP2000166348 A 2000-06-20 JP2000166348

Abstract

(JP2000166348)

PROBLEM TO BE SOLVED: To provide the subject unit designed to prevent a cutting blade device from floating off a receiving blade device when grain culms are to be cut so as to favorably cut off the grain culms.SOLUTION: This grain culm cutting unit is so designed as to furnish a driving metal 57 for subjecting a cutting blade device 56 to traverse movement driving through being mounted on the device 56 superposed upon a receiving blade device 55 for cutting off grain culms and also furnish blade press metals 58 for pressing the cutting blade device 56 from above when the cutting blade device 56 is transversely moved maximally relative to the receiving blade device 55, on both left and right sides of

the position standing equally apart from the left and right edges of the driving metal 51.

Inventors

SAKAMOTO HIRONORI

GOTO YOSHIYUKI

ANAMI MASAYUKI

MORIMOTO HIROYUKI

NAGAKI KAZUO

NOMOTO ISAO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

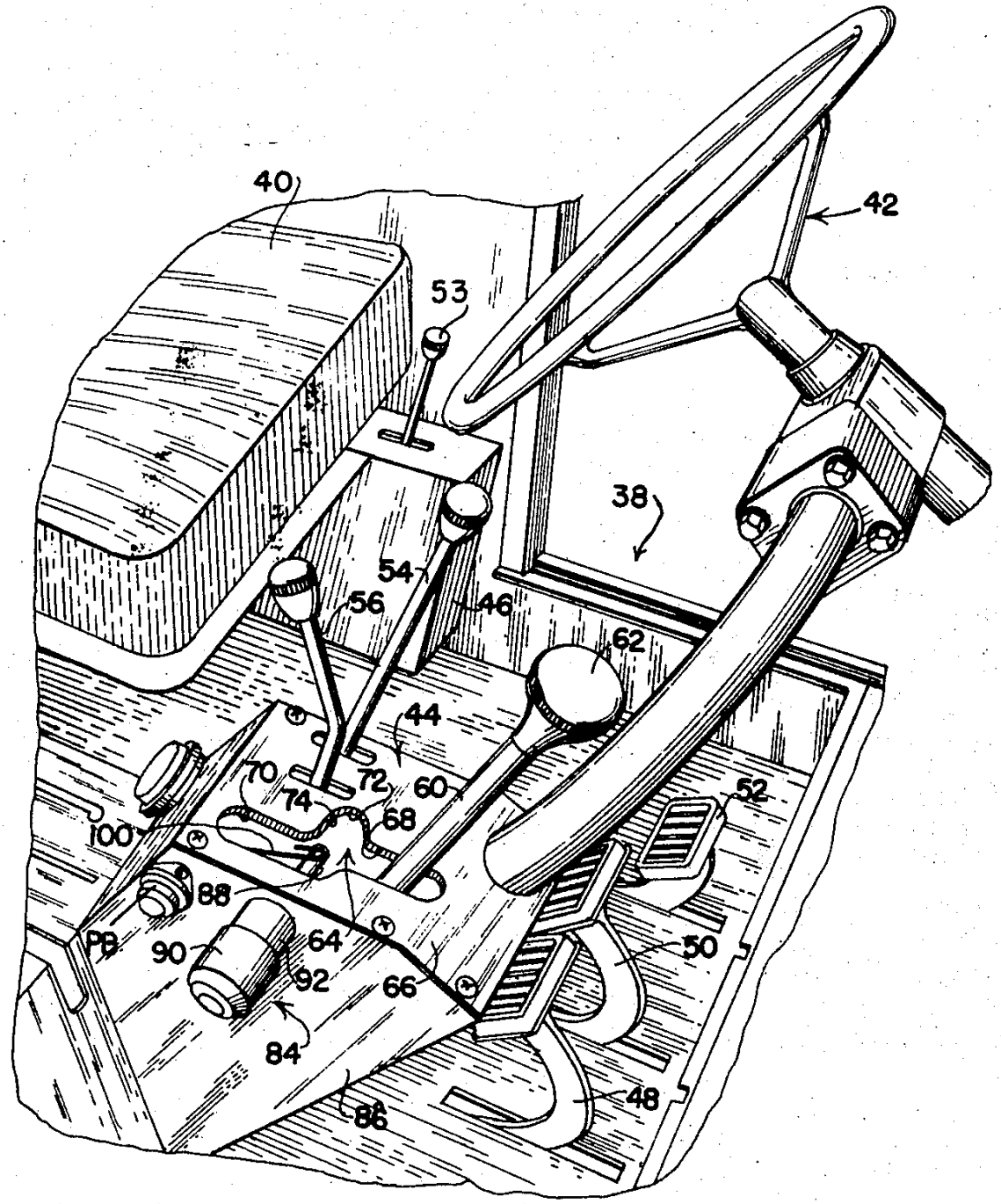
Family 456/667 - FAMPAT - ©Questel

Title

(US3808784)

Reverse lockout

Images



Publication data including kind & date

US3808784 A 1974-05-07 US3808784

Abstract

(US3808784)

A reverse drive lockout mechanism for a combine harvester having a crop-gathering platform which is provided with ground-engaging control fingers, the lockout mechanism preventing the harvester from inadvertently being driven in reverse when such control fingers are in ground proximity.A normally de-energized solenoid, mounted on the speed lever console, maintains its plunger projected and in the path of movement of the speed lever, thus preventing entry of the lever into the reverse speed range.A switch assembly becomes effective when the platform is raised a predetermined distance from the ground to establish an electrical circuit through the solenoid winding, thus retracting the plunger and allowing the speed lever to be moved in the reverse speed range.

Inventors

KRUKOW E
GARDNER F
STROUP N

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

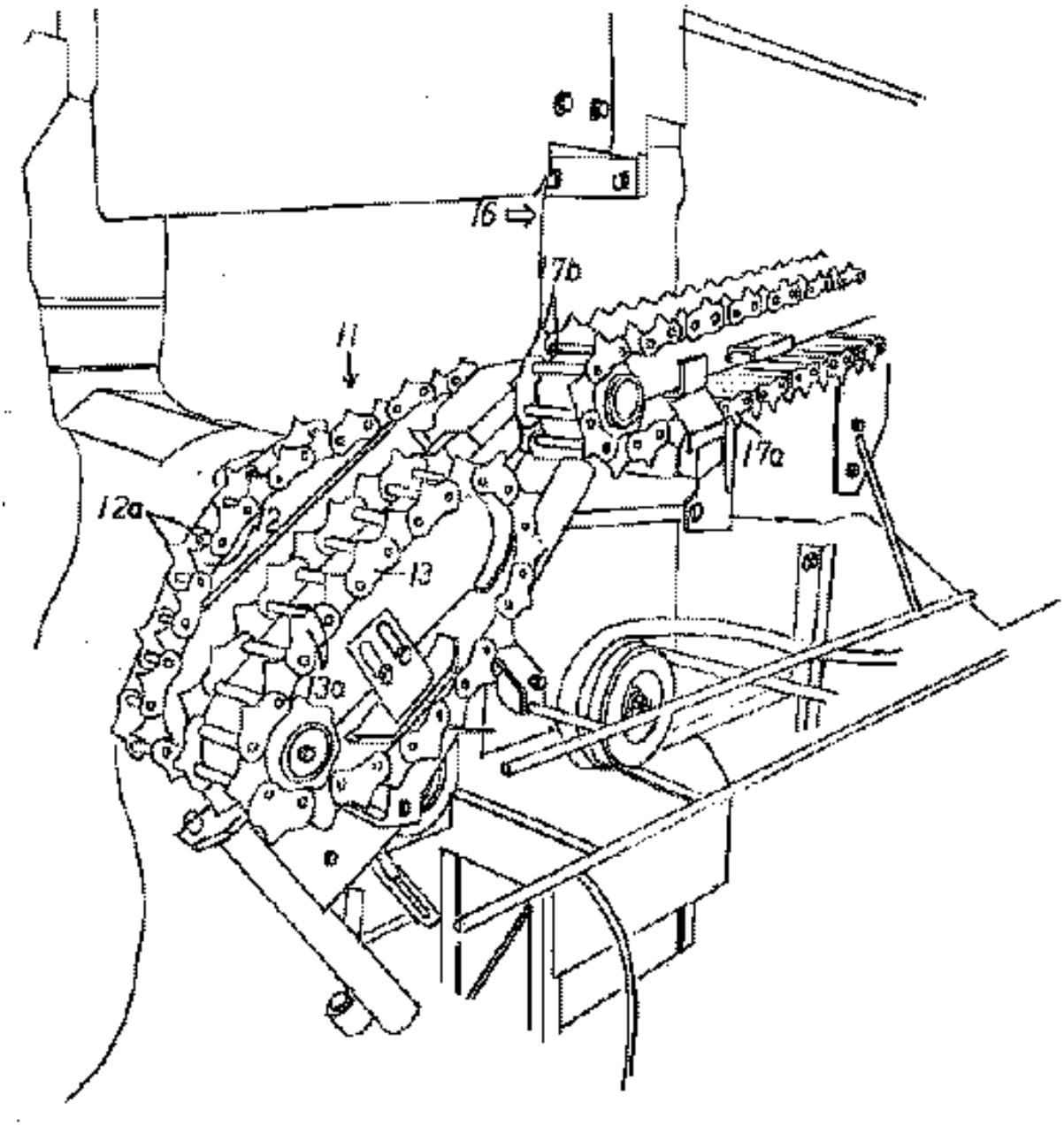
Family 457/667 - FAMPAT - ©Questel

Title

(JP2002305937)

Grain culm conveyor for combine harvester

Images



Publication data including kind & date

JP2002305937 A 2002-10-22 JP2002305937

Abstract

(JP2002305937)

PROBLEM TO BE SOLVED: To provide a grain culm conveyor allowing for smoothing delivering grain culms from the grain culm feed/conveyance chain of a reaper via inner/ outer auxiliary conveyance chains to the feed chain of a thresher and making good the posture of grain culms to be fed to the thresher, thus preventing the occurrence of culm cutting, waste straw, or the like.SOLUTION: This grain culm conveyor has the following construction: inner/ outer auxiliary conveyance chains 12 and 13 are provided on both the inner and outer sides in front of a thresher 16 functioning to relaying grain culms from the grain culm feed/conveyance chain 10 of a reaper 3, and there is provided a feed chain 17a for the thresher 16 functioning to relay grain culms from the inner/outer auxiliary conveyance chains 12 and 13 and conveying the grain culms, wherein respective conveyance action parts 12a, 13a and 17b functioning to convey grain culms in contact with them on the inner/outer auxiliary conveyance chains 12 and 13 and the feed chain 17a are located as follows: the conveyance action part 13a for the outer auxiliary conveyance chain 13 as the lowermost position, the conveyance action part 12a for the inner auxiliary conveyance chain 12 as the middle position and the conveyance action part 17b for the feed chain 17a as the uppermost position.

Inventors

MATSUI MASAMI
IMAMURA HIDEKAZU
TAKEUCHI KENICHIRO
ICHIMARU TOMOYUKI
TOYODA KAZUO
TAGAMI KAZUNARI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

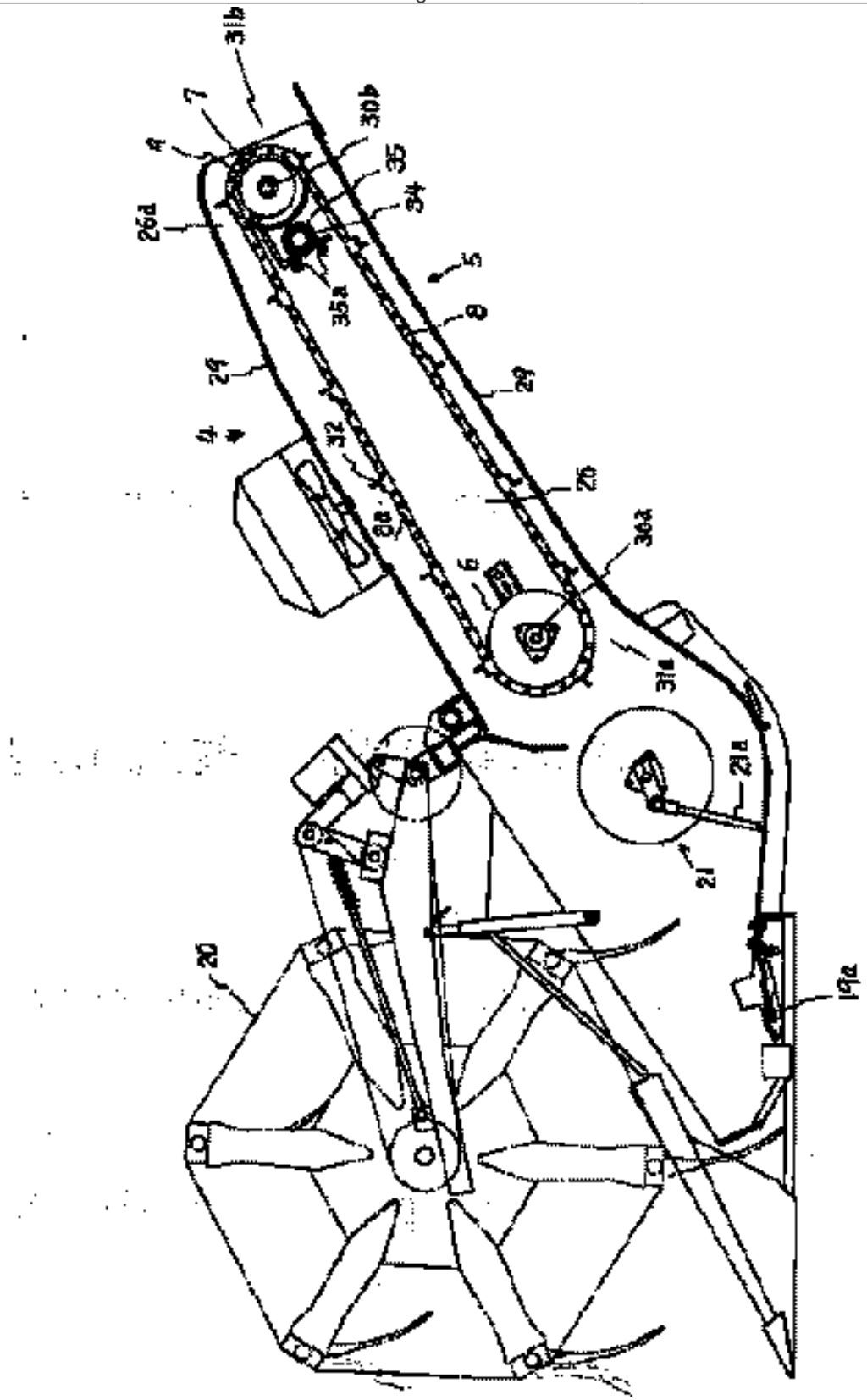
Family 458/667 - FAMPAT - ©Questel

Title

(JP2001258364)

Grain culm conveying device for combine harvester

Images



Publication data including kind & date

JP2001258364 A 2001-09-25 JP2001258364

Abstract

(JP2001258364)

PROBLEM TO BE SOLVED: To provide a device designed to prevent grain culms, waste straw or the like carried around through a conveying chain from being coiled around a coiling-preventive collar.SOLUTION: This grain culm conveying device has such mechanism and scheme that reaped grain culm are conveyed by a conveying chain 8 spanned between a lower drum 6 and an upper sprocket 7 each mounted inside a conveying frame equipment 5, fed into a thresher and threshed; wherein an L-shaped or straight scraper 10 when viewed sideways is furnished on the outer diameter portion of a coiling-preventive collar 9 provided on the flank of the upper sprocket 7 and on the side standing against the rotating

direction of the upper sprocket 7.

Inventors

OHARA KAZUSHI

ISHIKAWA MICHIO

SAWAMURA AKIRA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

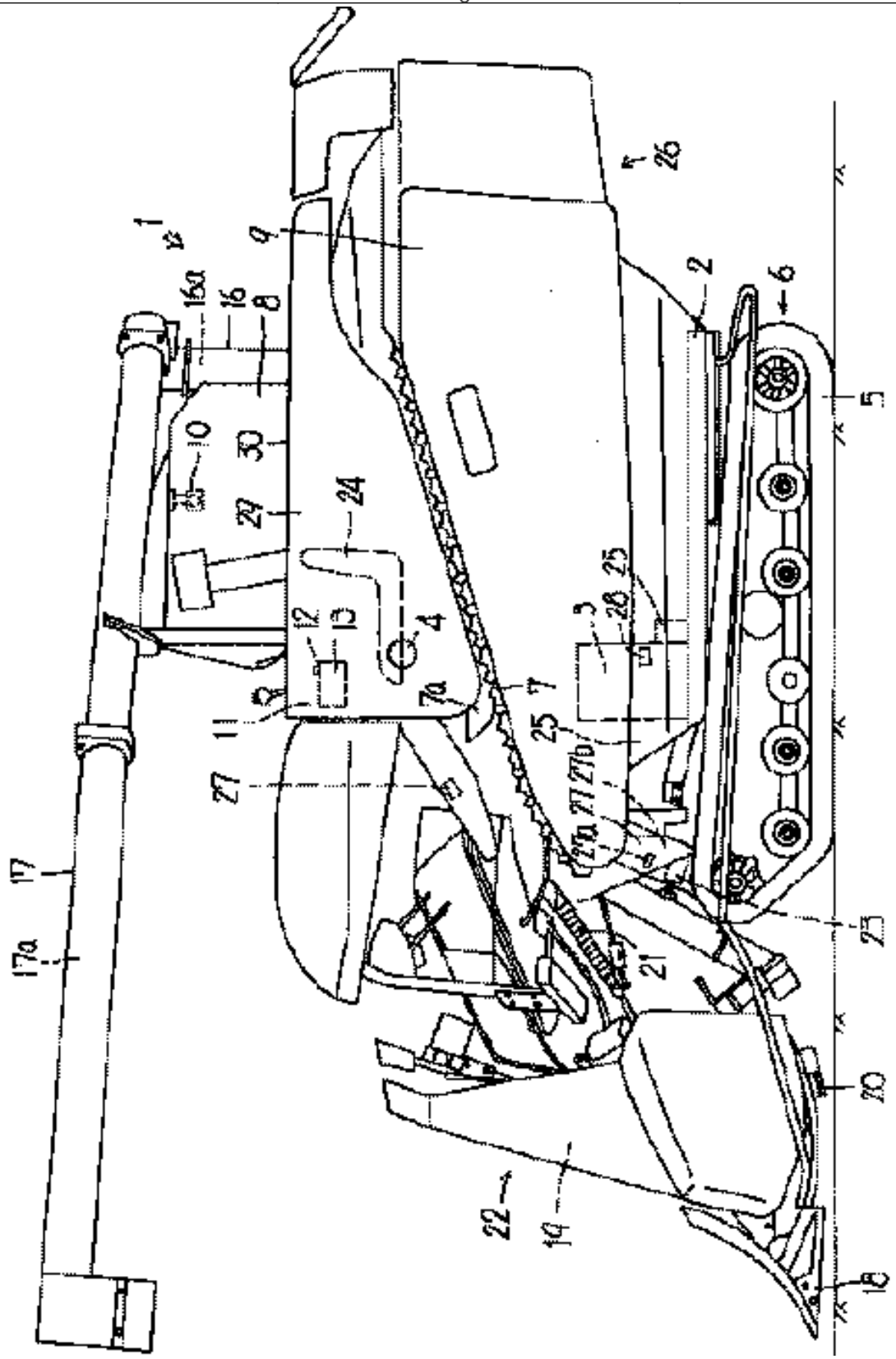
Family 459/667 - FAMPAT - ©Questel

Title

(JP2001090567)

Emergency engine stop device for combine harvester

Images



Publication data including kind & date

JP2001090567 A 2001-04-03 JP2001090567

Abstract

(JP2001090567)

PROBLEM TO BE SOLVED: To avoid the condition of carrying a current and the condition of discharging a battery due to failure to operate a reset switch when an engine is stopped in emergency with the operation of an emergency stop means, permitting the restart of the engine when restarted.SOLUTION: When an engine 3 placed on a travelling under-carriage 2 is stopped in emergency with the operation of an emergency stop means 4, a control device 13 is used to restore the emergency stop means 4 into a starting condition in accordance with the stop of the engine 3.

Inventors

DOI YOSHINORI
UEMOTO ICHIAKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

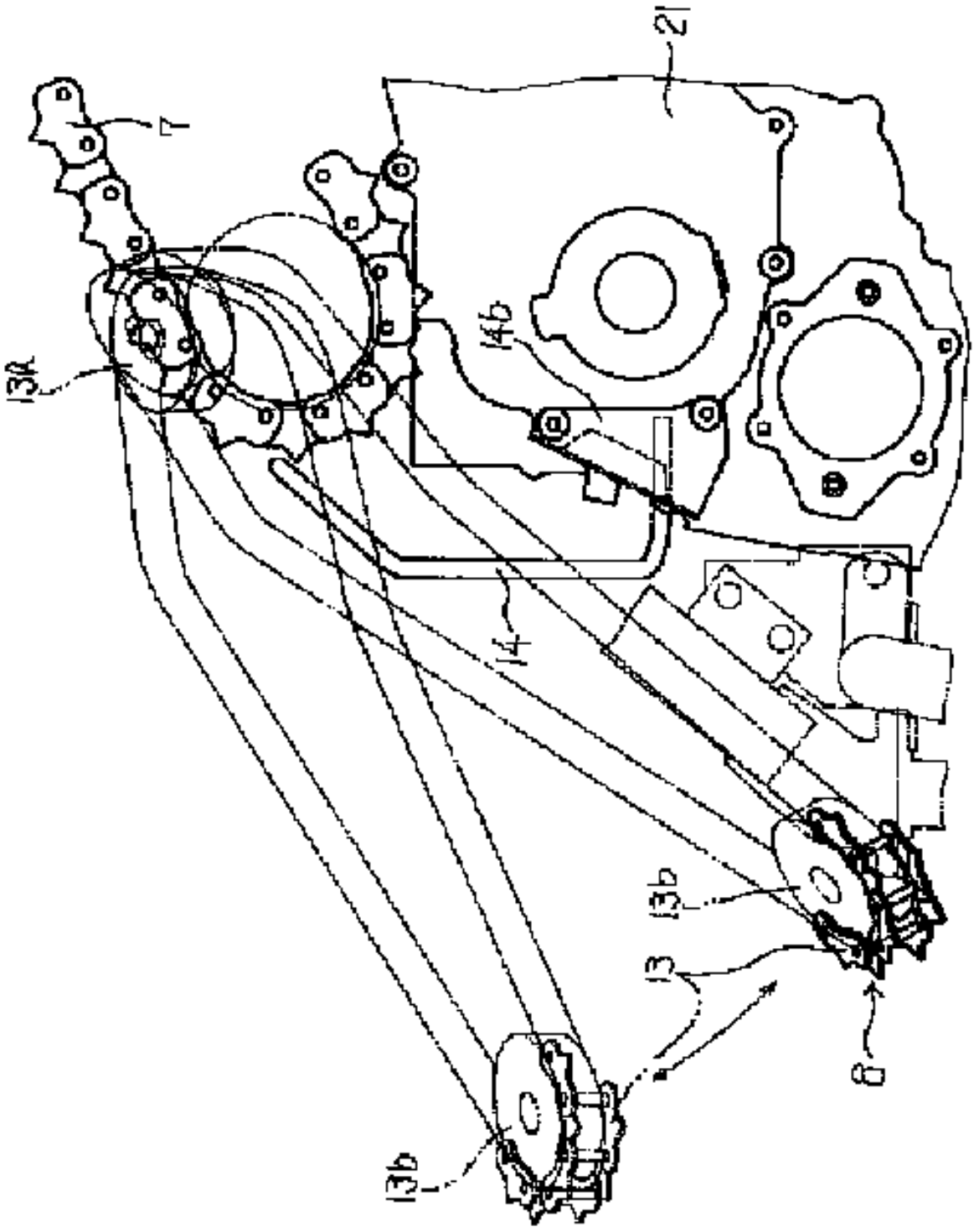
Family 460/667 - FAMPAT - ©Questel

Title

(JP2000188931)

Grain culm feeder for combine harvester or the like

Images



Publication data including kind & date

JP2000188931 A 2000-07-11 JP2000188931

Abstract

(JP2000188931)
PROBLEM TO BE SOLVED: To provide the subject grain culm feeder designed to surely deliver grain culms through a delivery guide from a reaping root chain to a threshing feed chain.SOLUTION: This grain culm feeder is so designed as to mount a travel transmission 21 with the basal portion of a delivery guide 14 having the function to deliver and guide reaped grain culms from a reaping root chain 13 nipping and conveying them to a threshing feed chain 7 nipping and conveying them inside a threshing chamber and provide the tip of the delivery guide 14 so as to extend to the conveyance initial end of the threshing feed chain 7.

Inventors

FURUKAWA YOSHINOBU
KIYASU KAZUHARU
OKUMOTO KOJI

Latest standardized assignees - inventors removed

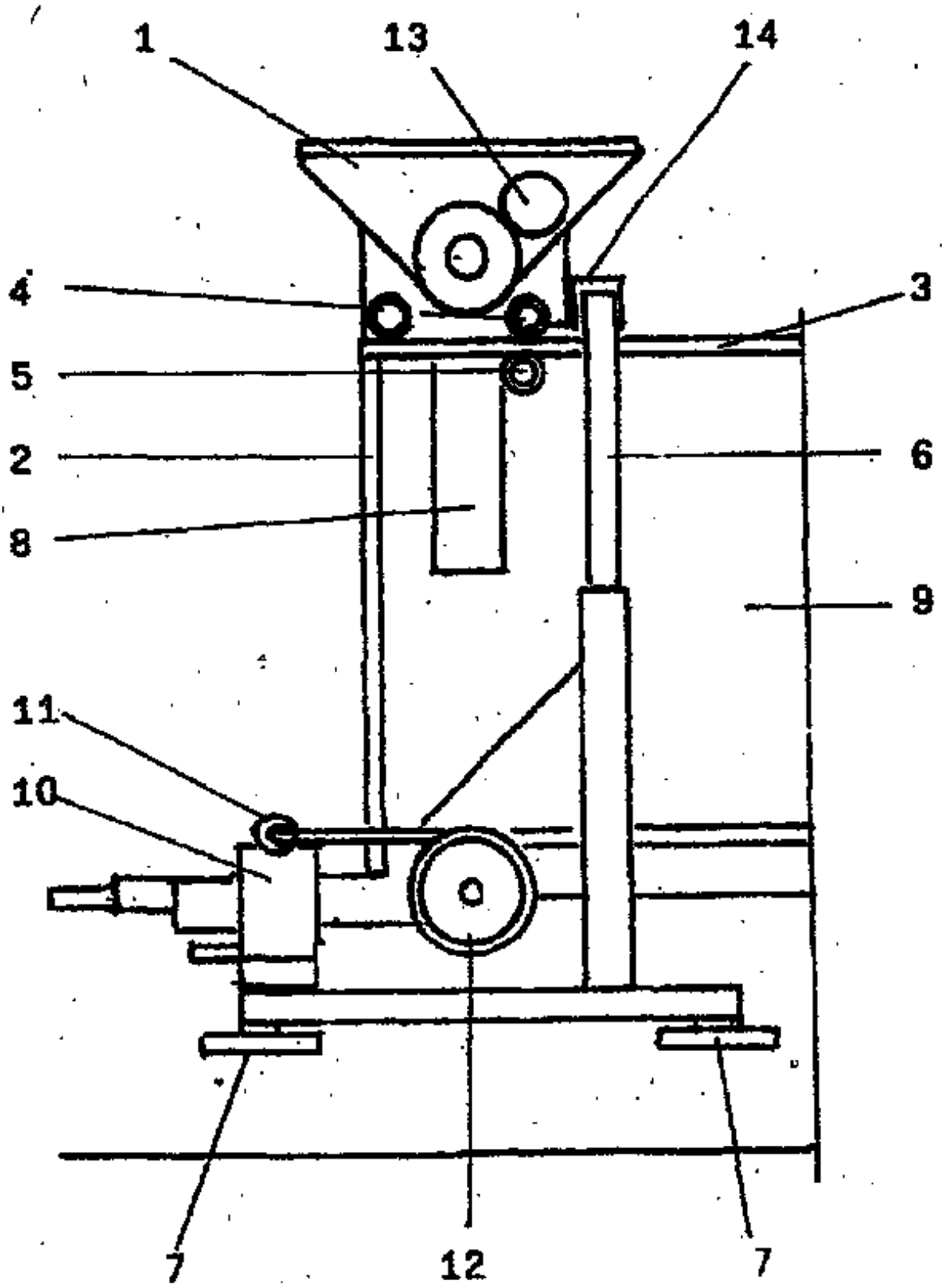
ISEKI AGRICULTURAL MACHINERY

Family 461/667 - FAMPAT - ©Questel

Title

(DE19946249)
Processing, compressing, transport and storage of agricultural products is carried out in container with walking press unit

Images



Publication data including kind & date

DE19946249	A1	2001-05-10	DE19946249
DE19942590	A1	2001-05-10	DE19942590

Abstract

(DE19946249)

The press unit (1) moves (walks) along the container upper edge (42), acting against the pressure of material pressed-in.It is either braked against the pressure, or is moved on, in steps.An Independent claim is included for corresponding equipment.

Inventors

EGGENMUELLER ALFRED

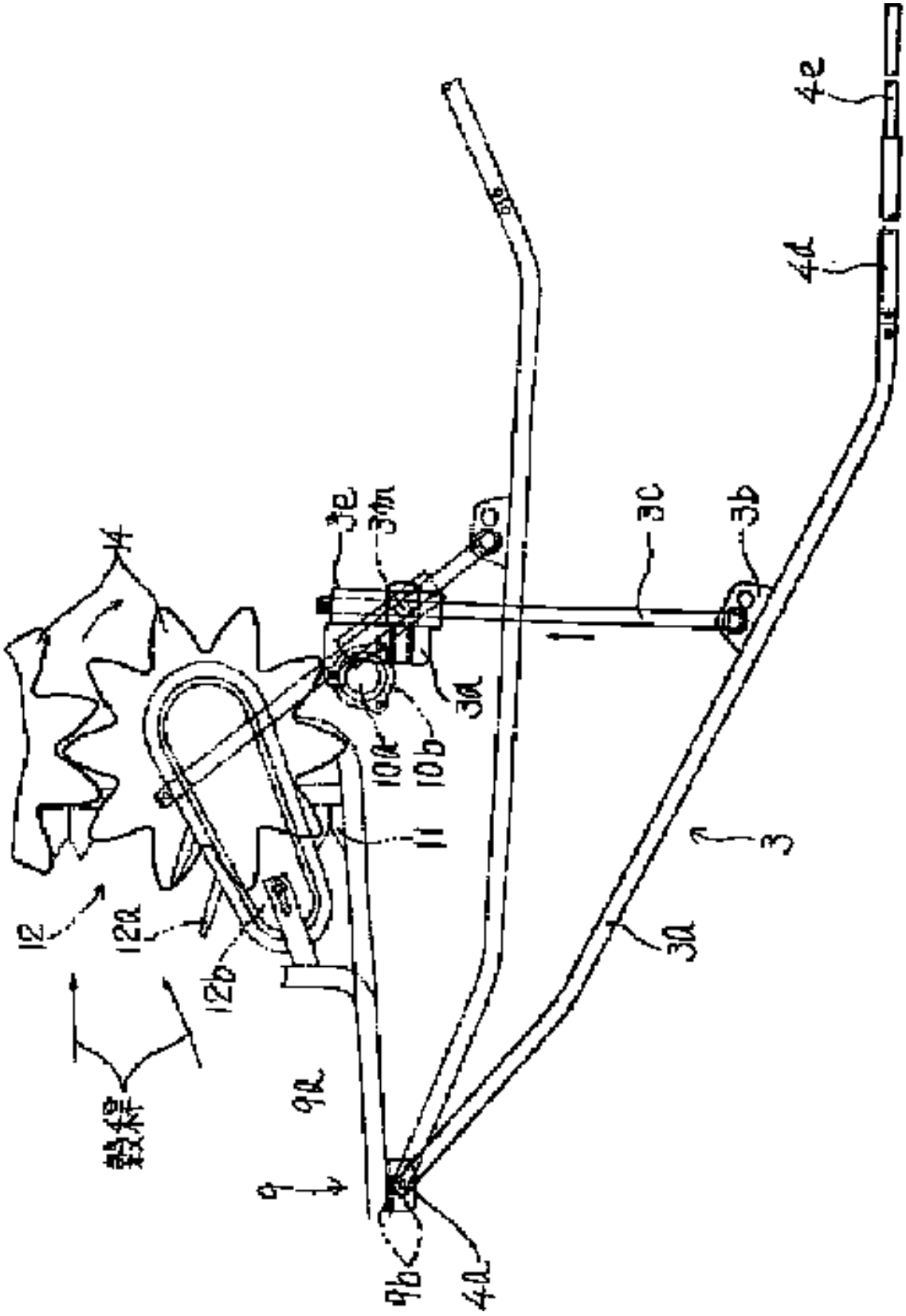
Family 462/667 - FAMPAT - ©Questel

Title

(JP2000188933)

Grain culm separator for combine harvester

Images



Publication data including kind & date

JP2000188933 A 2000-07-11 JP2000188933

Abstract

(JP2000188933)

PROBLEM TO BE SOLVED: To provide the subject grain culm separator so designed as not to project a narrow guide into a conveyance path with grain culms passing therethrough when the narrow guide is put to housing operation onto non-acting side.SOLUTION: This grain culm separator is such one as to be equipped with a narrow guide 3 for separating grain culms, a raiser for raising, raking in, and reaping grain culms thus separated, a raking-in star wheel 14, a cutting blade device 11, and in grain conveyor for carrying reaped grain culms.The narrow guide 3 is provided so as not to be projected into a conveyance path with reaped grain culms passing therethrough when the narrow guide 3 is put to housing operation from the acting side involving grain culm separating action onto the non-acting side.

Inventors

NIIYAMA KAZUO

KONO KENJI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

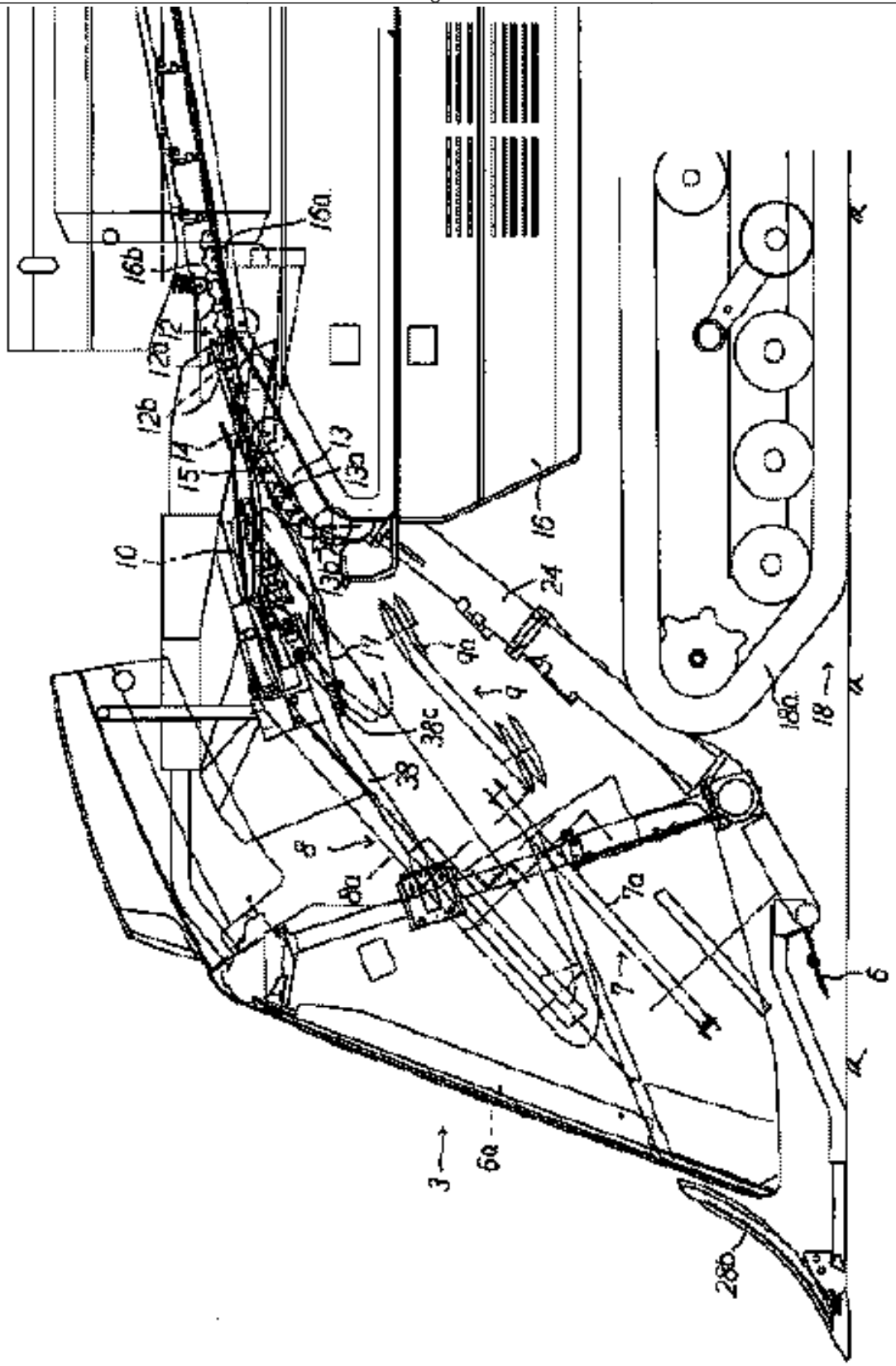
Family 463/667 - FAMPAT - ©Questel

Title

(JP2002218821)

Culm transport device of combine harvester

Images



Publication data including kind & date

JP2002218821 A 2002-08-06 JP2002218821

Abstract

(JP2002218821)

PROBLEM TO BE SOLVED: To prevent the falling of culms to be transported with inner and outer auxiliary transport chains which are used for successively transporting the grain culms from a grin culm-feeding and transporting device for transporting the grain culms at the final end of a reaper and then delivering the transported culms to a threshing and nipping rod and the feed chain of a thresher.SOLUTION: Inner and outer auxiliary transport chains 12, 13 are disposed between the thresher 16 and the grain-feeding and transporting device 10 for transporting the culms at the final end of the reaper 3.Inner and outer guide rods 14, 15 for pressing and transporting the transported culms are disposed at prescribed

positions above the inner and outer auxiliary transport chains 12, 13.Further, a culm fall-preventing plate 17 comprising an elastic material is disposed at a transport action upper portion between the inner and outer guide rods 14, 15.

Inventors

MIYAKE TATSUYA
IIIZUMI KIYOSHI
MIZUMOTO HIROKAZU
MIZUSHIMA ATSUSHI

Latest standardized assignees - inventors removed

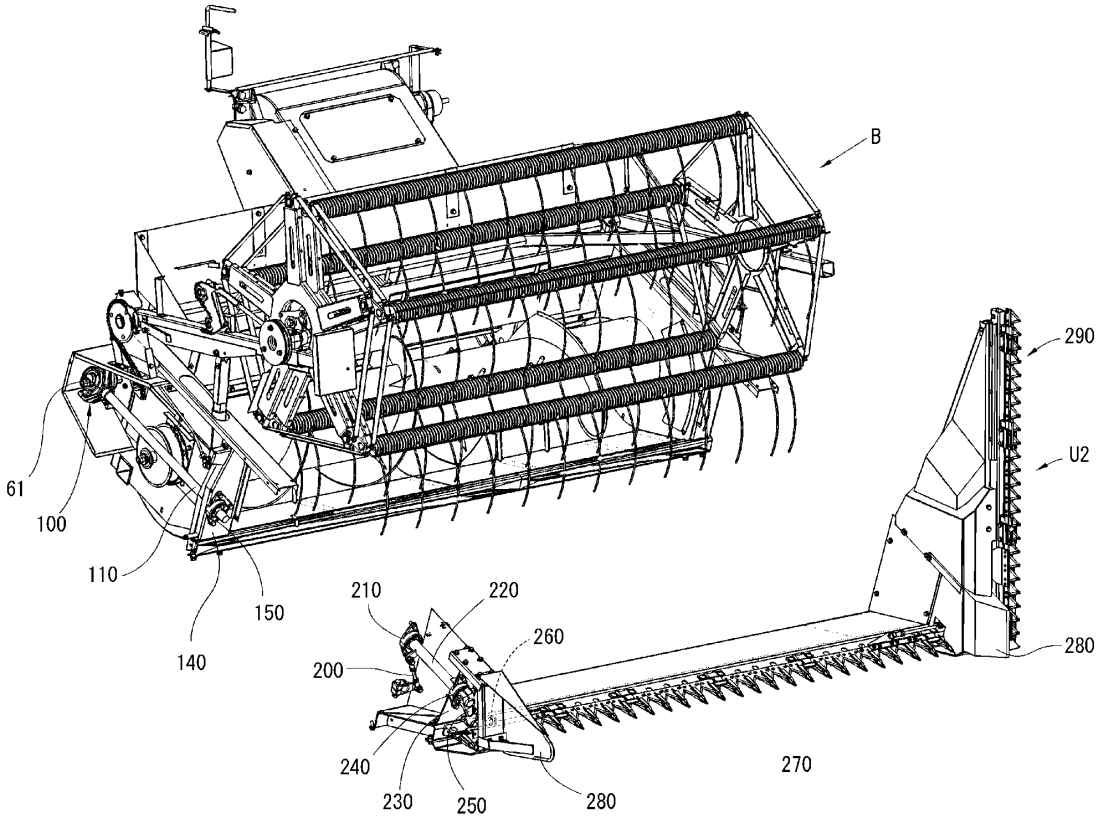
ISEKI AGRICULTURAL MACHINERY

Family 464/667 - FAMPAT - ©Questel

Title

(WO201389224)
Cereal stalk reaping apparatus

Images



Publication data including kind & date

WO2013089224	A1	2013-06-20	WO201389224
JP2013123390	A	2013-06-24	JP2013123390
CN103974611	A	2014-08-06	CN103974611
IN5771DEN2014	A	2015-04-10	IN2014DN05771
CN103974611	B	2017-04-05	CN103974611B

Abstract

(WO201389224)
Replacement of a front end unit is facilitated which performs mowing of a crop in a cereal stalk reaping apparatus.The present invention comprises a spindle reaper (61) which is laterally bridged with respect to a body (3), and rotates in a vicinity of a horizontal axis; a rotation transformation mechanism (100) which is linked and concatenated to a terminal end of the spindle reaper (61); and a transmission shaft group which is installed in a longitudinal direction of the body (3) and

linked and concatenated to an output side of the rotation transformation mechanism (100) to move a cutting blade of a reaping apparatus (270) from side to side.The transmission shaft group is configured to include a first transmission rod (110) whose lead end is connected to the rotation transformation mechanism (100); and a second transmission rod (220) which rotates in conjunction with the first transmission rod (110) via a predetermined power transmission mechanism that has a shaft center different from a shaft center of the first transmission rod (110).One end of the second transmission rod (220) is linked and concatenated to one end of the cutting blade via a linear conversion mechanism to move the cutting blade of the reaping apparatus (270) from side to side.

Inventors

OOHARA KENJI

Latest standardized assignees - inventors removed

YANMAR

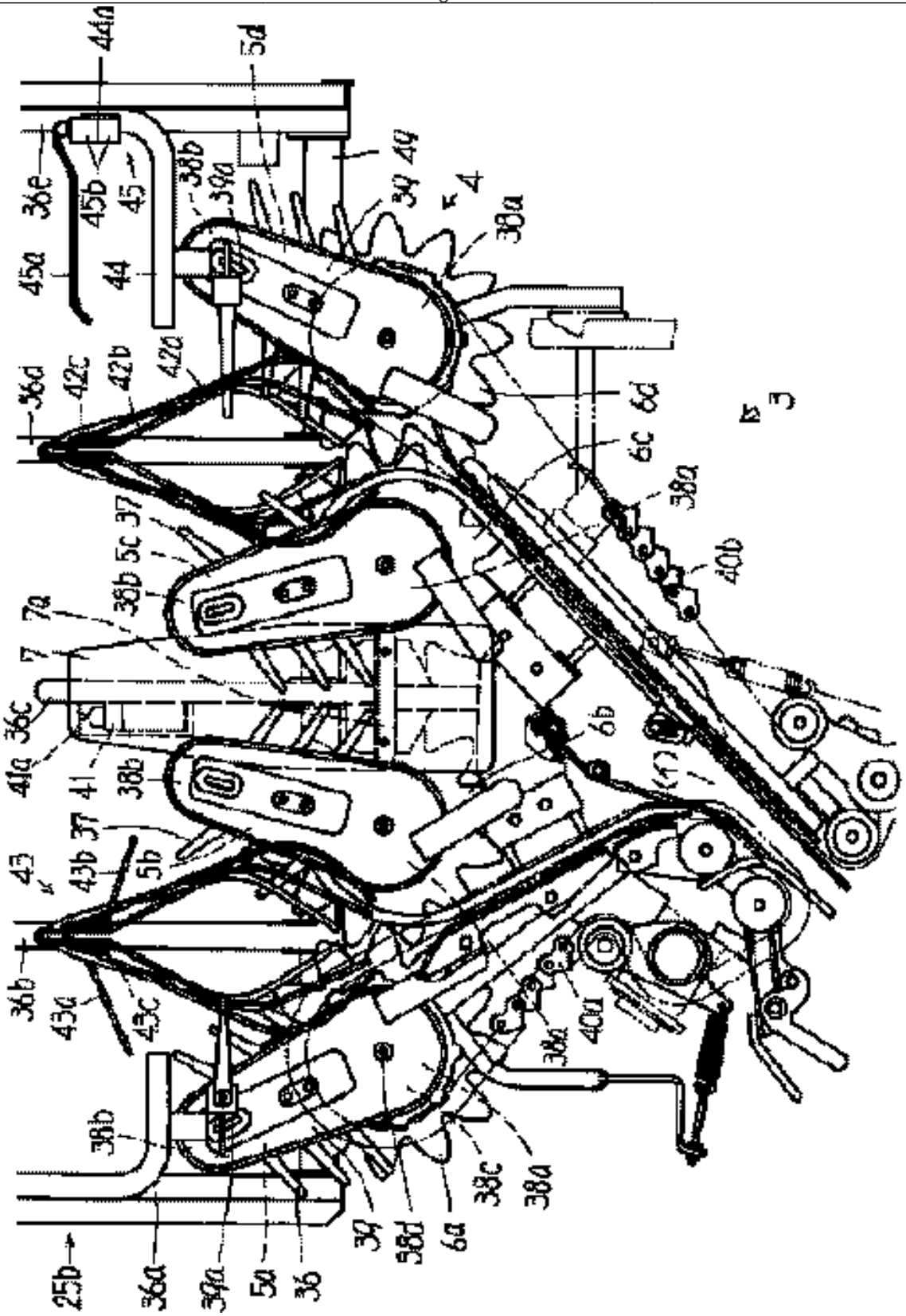
Family 465/667 - FAMPAT - ©Questel

Title

(JP2001086836)

Grain culm gathering device for combine harvester of the like

Images



Publication data including kind & date

JP2001086836 A 2001-04-03 JP2001086836

Abstract

(JP2001086836)

PROBLEM TO BE SOLVED: To provide a grain culm gathering device which helps securely gather stand culms by the aid of an each gathering belt and star wheel.SOLUTION: This device is equipped with two or more gathering belts 5a, 5b, 5c,... for gathering grain culms in front of a reaper 3, star wheels 6a, 6b, 6c... below the gathering belts, and a straw accumulation preventing cover 7 which receives falling straws, their dust or the like between and over the left and right star wheels 6b and 6c at the center.

Inventors

TAKAHASHI HAKURO
IIIZUMI KIYOSHI
MIYAKE TATSUYA
ITO KOJI
NISHIZAKI HIROSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

Family 466/667 - FAMPAT - ©Questel

Title

(SU1553028)

Root and tuber harvester digging member

Publication data including kind & date

SU1553028 A1 1990-03-30 SU1553028

Abstract

(SU1553028)

Invention relates to agricultural machine building, in particular to the devices for the extraction of korneklubneplodov from the soil, utilized in the harvesters.Object Of The Invention - an increase in the effectiveness in the work by guaranteeing the possibility of regulating the zone of information and breeding it is finger.The Digging operating unit contains fixed on axis 7 coupled disks 2 with fingers 4, connected with device 9 for their information.The Latter consists of the guide of the element in the form of the wheel, supplied with means for his connection with the fingers.With the rolling over of disks 2 along the field fingers 4 separate vegetable tops to the edge of bank, they pererezayut vegetable tops, they take root in the soil, they seize tuberous mass, then they shake it and unload into the transportation device. 3 z. p. of formula, 3 illus.

Inventors

RADUNTSEV ANATOLIJ M

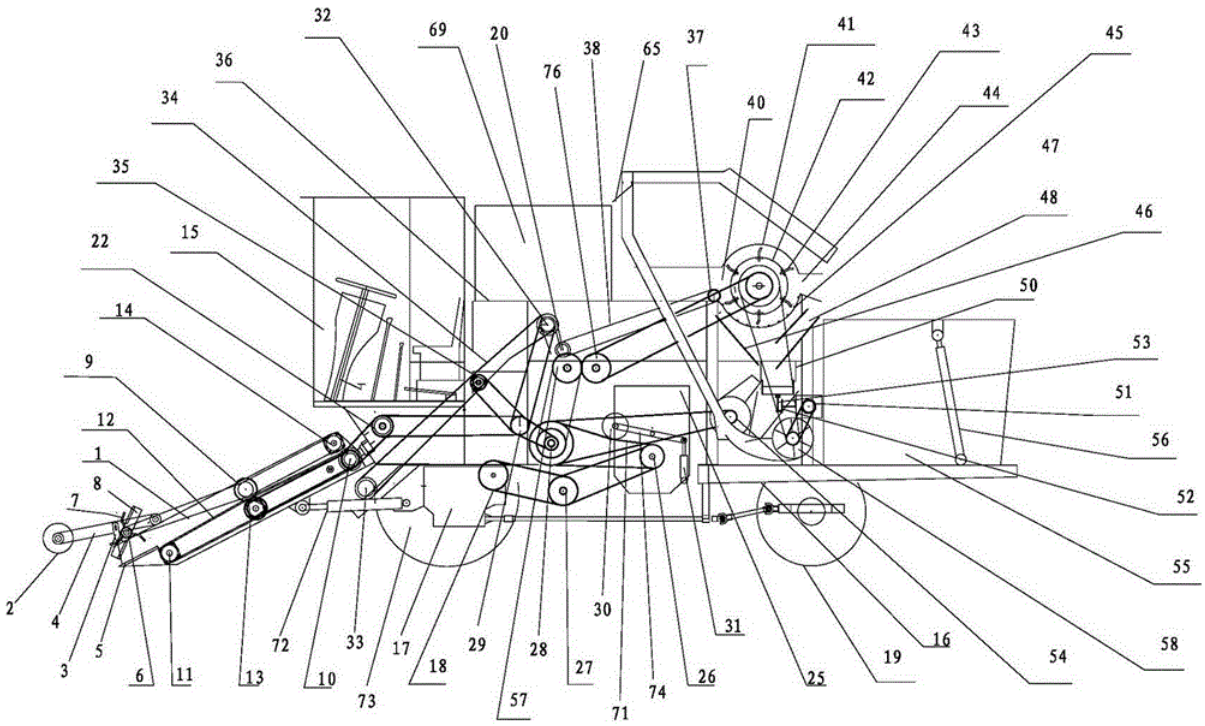
Family 467/667 - FAMPAT - ©Questel

Title

(CN205847982U)

Self -walking type peanut combine

Images



Publication data including kind & date

CN205847982 U 2017-01-04 CN205847982U

Abstract

(CN205847982U)

The utility model relates to a self -walking type peanut combine, can effectively solve peanut harvester results inefficiency, it is low to go out clean rate, the separation of fruit leaf is unclean, the unable problem of retrieving of seedling leaf, existing in a fixed tray, be provided with the conveyor by engine driven in the frame respectively, the 2nd conveyor, the 3rd conveyor, separator is carried to the auger, shale shaker and fruit wind -force screening separator, be provided with location hack feed arrangement on a conveyor's the feed end, a conveyor's discharge end and the 2nd conveyor feed end link to each other, the 2nd conveyor's discharge end and the 3rd conveyor's feed end link to each other, the 3rd conveyor's discharge end and auger carry separator's feed end to link to each other, the auger carries separator's discharge end continuous with the feed end of seedling leaf collecting box, the utility model discloses novel structure is unique, and easy operation sieve effectually, and work efficiency is high, goes out that clean rate is high, fruit leaf clean separation, seedling leaf be recoverable as the fodder, and application scope extensively.

Inventors

ZHU JINGPENG

Latest standardized assignees - inventors removed

XINXIANG GRAND PHARMACEUTICAL MACHINERY

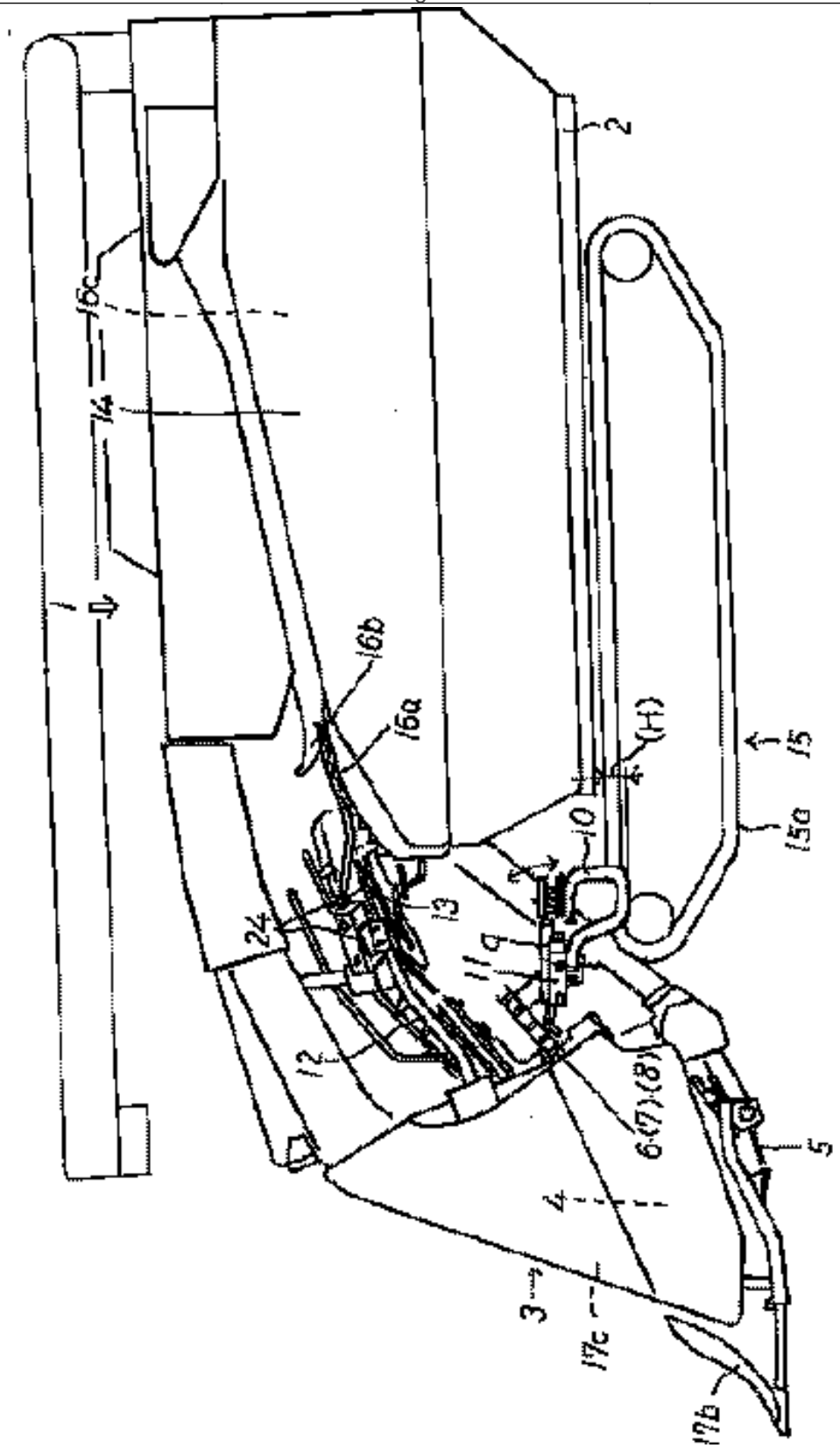
Family 468/667 - FAMPAT - ©Questel

Title

(JP2003250324)

Grain culm transportation apparatus for combine harvester

Images



Publication data including kind & date

JP2003250324 A 2003-09-09 JP2003250324

Abstract

(JP2003250324)

PROBLEM TO BE SOLVED: To solve a problem that a transportation apparatus of threshing depth arrangement in which grain culm transported to a joint part is passed, transported and supplied to a thresher has constitution that the rear part can be lifted and lowered with the front part as a rotation fulcrum depending upon the length of grain culm and when a supporting means supporting a nipping rod apparatus is largely adjusted to a shortly threshing side, the supporting means is brought into contact with the traveling crawler of a traveling apparatus and adjustment of the supporting means to the shortly threshing side by a fixed value or above was impossible.

SOLUTION: The supporting means 10 for supporting the nipping rod apparatus 11 of a threshing depth adjustment and transportation apparatus 9 for supplying grain culm to the thresher 14 adjusting supply depth has constitution that when the threshing depth adjustment and transportation apparatus 9 is operated to the shortly threshing side of fixed position, the supporting means has a superposition state to the traveling crawler 15a on the side view.A second threshing depth adjustment and transportation apparatus 13 is installed behind the threshing depth adjustment and transportation apparatus 9.

COPYRIGHT: (C)2003,JPO

Inventors

IIIZUMI KIYOSHI
UCHIDA HIROYA
TAKAHASHI HAKURO
KITAGAWA TOMOSHI
MIYAKE TATSUYA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

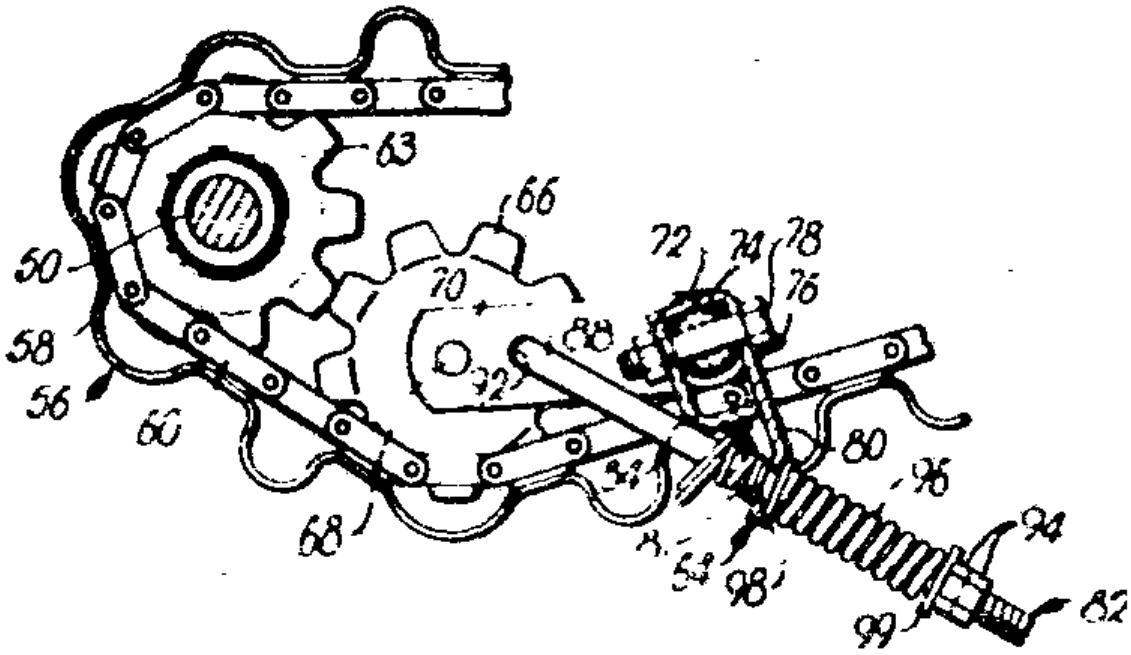
Family 469/667 - FAMPAT - ©Questel

Title

(FR2529749)

Maize harvester gathering head

Images



Publication data including kind & date

IT8348651	D0	1983-07-08	IT8348651
DE3324498	A1	1984-01-12	DE3324498
FR2529749	A1	1984-01-13	FR2529749

Abstract

(FR2529749)

At the front of the machine are separating fingers for the cut stalks, with teeth projecting sideways into the gaps between, which travel inwards to carry the stalks into the interior.These teeth are attached to chains with are followed by further inner chains (60) with interlocking zig-zag elements (56) which convey the stalks further inwards.Pulleys driving both chains are mounted on common spindles (50), and adjacent to the front pulley (63) for an inner chain is a jockey pulley (62) mounted

on a spring loaded arm (70).The other end of the arm is attached to a sleeve (72) which can rotate about a vertical spindle (74) secured by a bolt to a carrier (76).Connected to the carrier is a spindle which can slide axially against the force of a spring (96) which it carries.This controls the swing of the jockey pulley arm (70).

Inventors

MCMILLEN KENNETH R

JOHNSON JOHN F

Latest standardized assignees - inventors removed

HESSTON

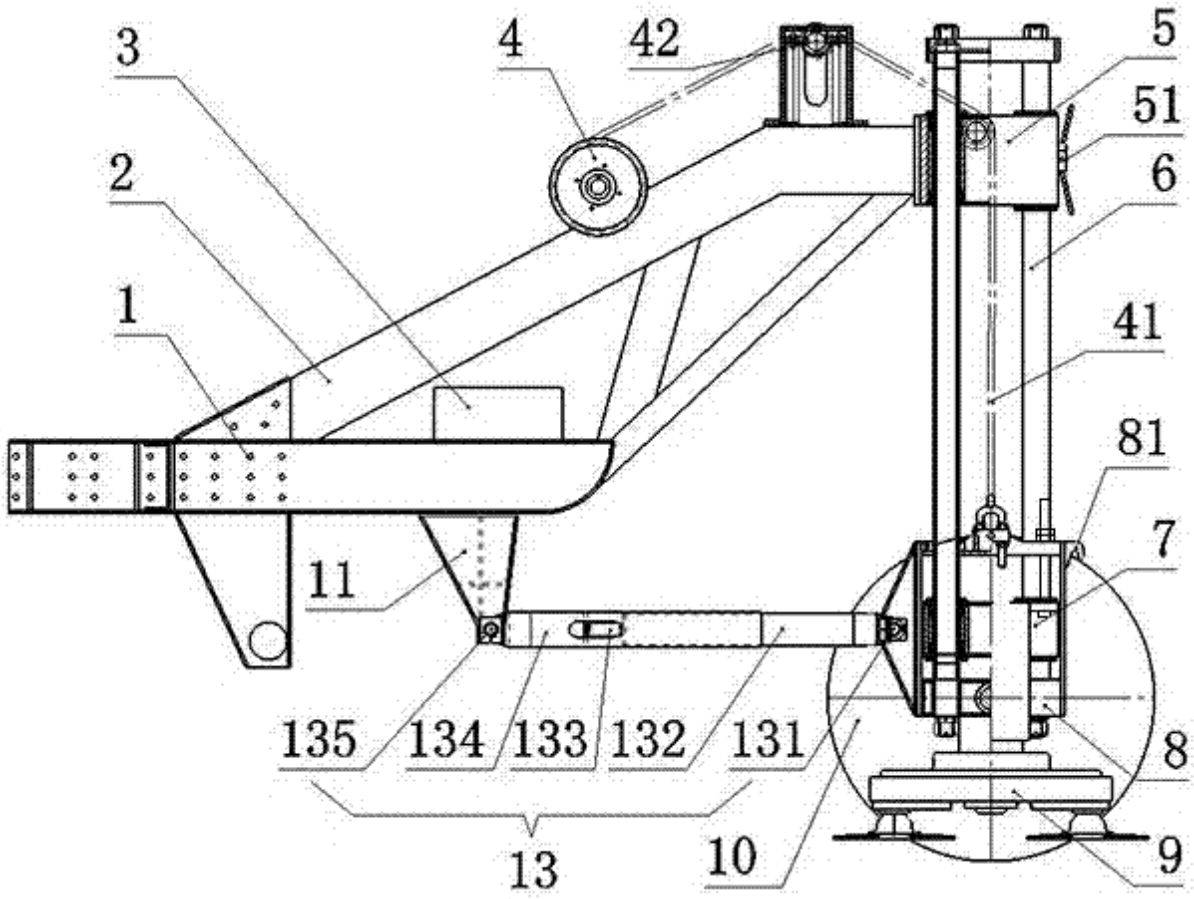
Family 470/667 - FAMPAT - ©Questel

Title

(CN206547337U)

Wheeled imitative topography header

Images



Publication data including kind & date

CN206547337 U 2017-10-13 CN206547337U

Abstract

(CN206547337U)

The utility model discloses a wheeled imitative topography header relates to cane cutting machine technical field, including the anterior frame that is equipped with the support, the support is through the fixed slip stand that is equipped with of upper bracket, wears to be equipped with the undersetting that is gone up and down by the draw gear drive in slip stand lower part, and the undersetting is equipped with a walking wheel through the shaft, the stand overlaps between upper bracket and undersetting and is equipped with the sliding support, and the sliding support is equipped with motor, gearbox, cuts the blade disc of sugarcane through the blade disc mount, the bolt position of adjustment blade disc mount, and the blade disc obtains different fixed height, the other adjusting screw of adjustment lift power cylinder, blade disc fine setting height about can.Harvester during operation walking wheel traveles the blade disc at the furrow that the height is uneven and is imitative topography operating condition, and the blade disc height of cutting the sugarcane is unchangeable,

guarantees the sugarcane and reaps the unified height of the back sugarcane root and stem of certain plants to the yield of root and stem of certain plants sugarcane is turned over in the growth and the improvement in the sharp coming year.Compare prior art, the utility model discloses the cane knife dish of cutting of cane cutting machine can be solved and the topography function is imitated.

Inventors

ZHU JIHUA

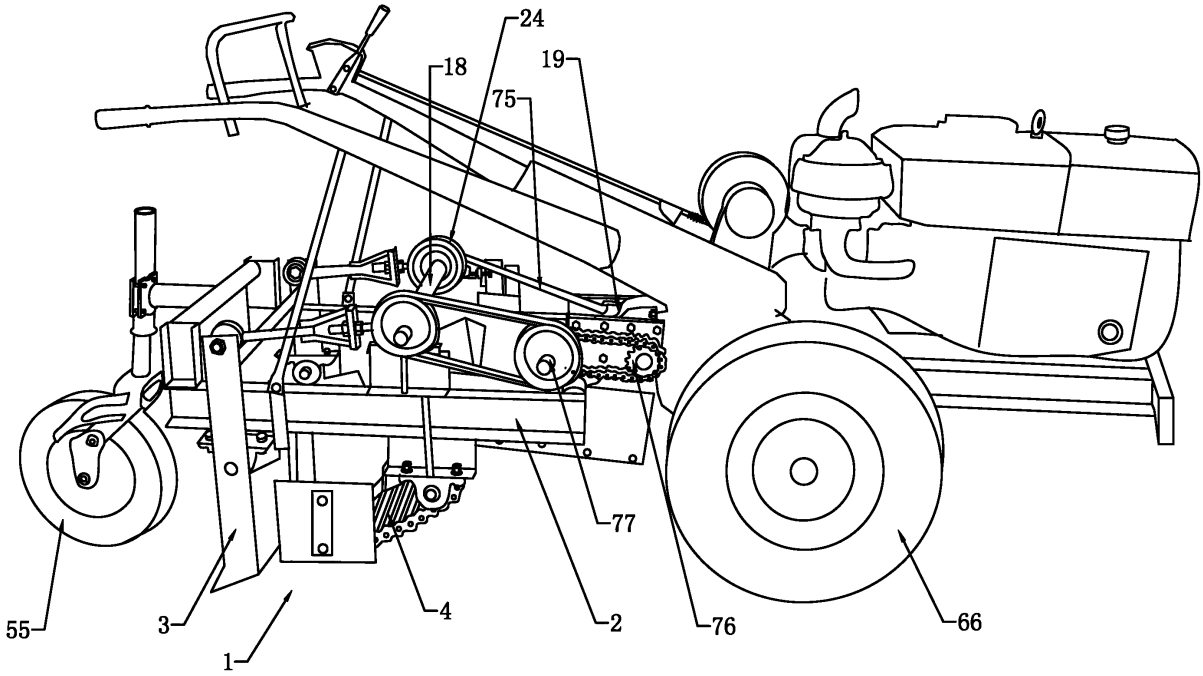
Family 471/667 - FAMPAT - ©Questel

Title

(CN103355049)

Intercropped garlic digging machine

Images



Publication data including kind & date

CN103355049 A 2013-10-23 CN103355049

Abstract

(CN103355049)

The invention relates to a garlic harvester.An intercropped garlic digging machine comprises a working machine, a transmission device, a power mechanism and a machine frame, wherein the working machine comprises a shovel head and a chain sieve, the power mechanism transmits power to the shovel head and the chain sieve through the transmission device, the transmission device comprises a transmission shaft and a gear case, the transmission shaft is arranged in a left and right mode, the gear case comprises a case body and a rotating shaft, the case body is fixedly arranged on the machine frame, the rear end of the case body is open, the rotating shaft is arranged on the case body in a rotating mode, the rotating shaft is parallel to the transmission shaft, the rotating shaft is sleeved with a stirring gear, a spline groove is formed in a center hole of the stirring gear, a spline which is matched with the spline groove is arranged on the rotating shaft, the stirring gear can slide on the rotating shaft, an annular boss is further arranged at one end of the stirring gear, a stirring rod is arranged on the case body, and the inner end of the stirring rod is placed in an annular groove in the case body.The intercropped garlic digging machine can efficiently dig out intercropped garlic and prevent other crops from damage.

Inventors

DAN LIMING

Latest standardized assignees - inventors removed

XUZHOU QIAOLI GRANVILLE NEW MACHINERY FACTORY

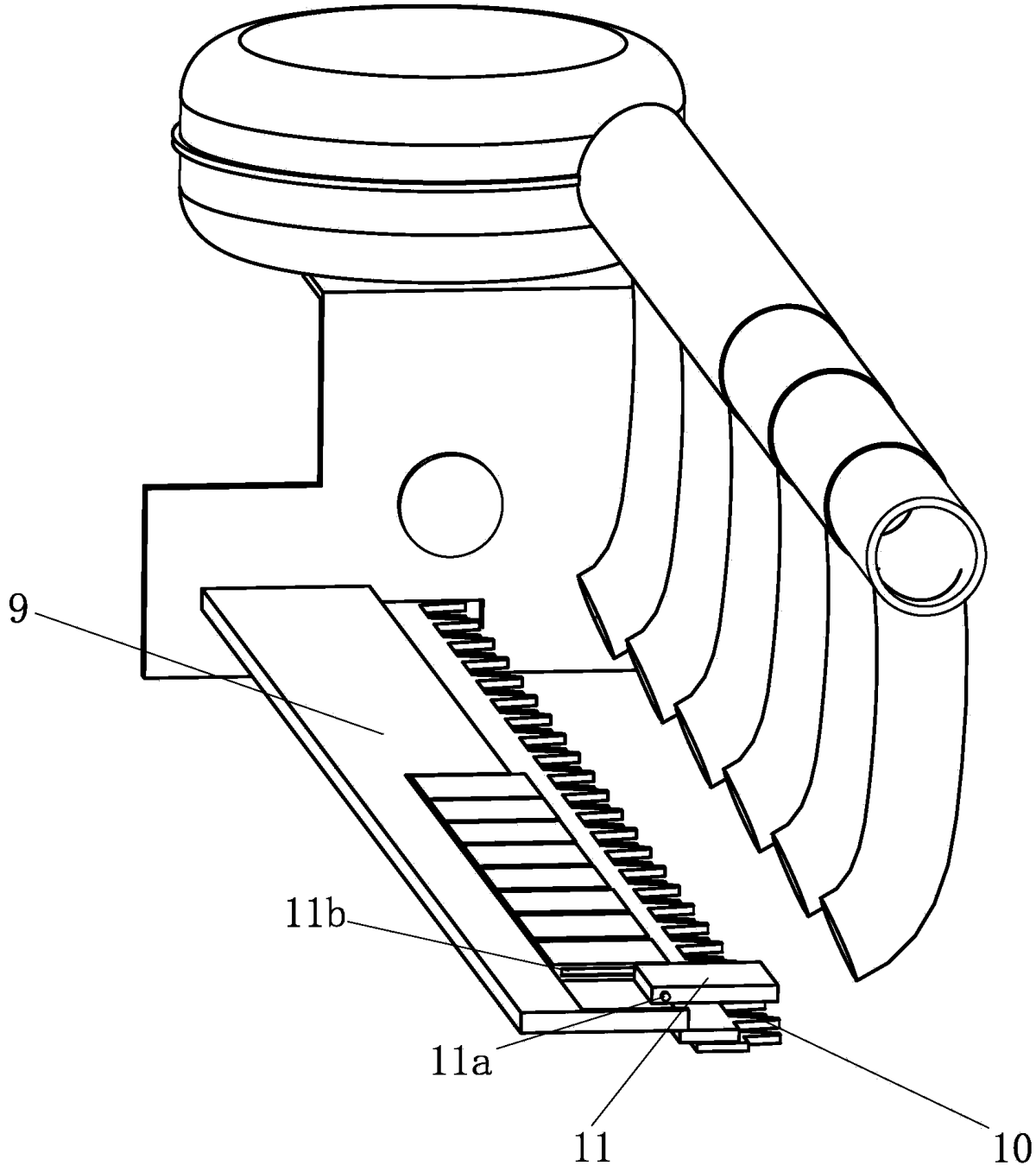
Family 472/667 - FAMPAT - ©Questel

Title

(CN205142899U)

But tea -leaf picker of leaf is held up to roll adjustment

Images



Publication data including kind & date

CN205142899 U 2016-04-13 CN205142899U

Abstract

(CN205142899U)

The utility model provides a but tea -leaf picker of leaf is held up to roll adjustment.The utility model discloses it includes long serrated knife utensil, suction fan and frame, and the frame comprises two curb plates, and long serrated knife utensil spanes two curb plates, is equipped with apneusis pipe and a plurality of branches straw on the suction fan, and branch's straw extends from apneusis pipe, and the mouth of pipe correspondence of branch's straw is in the cutting tooth department that long serrated knife possesses, and two curb plates can relative movement to be equipped with spacing adjustment mechanism, apneusis pipe cup joint by the multisection pipe box, long serrated knife utensil top is equipped

with the electronic leaf device of holding up, the electronic leaf device of holding up includes two carousels of locating on the curb plate, rotatory actuating mechanism and the driving lever of drive turntable, the driving lever is cup jointed by the at least 2 telescopic bodies of rod and forms, is equipped with the protective substrate on the long serrated knife utensil, it can the gliding a plurality of groups in front and back screening glass to be equipped with on the protective substrate, can cover the cutting tooth part that long serrated knife possesses during the screening glass roll -off completely.The device changes the cutting interval through adjusting the curb plate, can rotate the driving lever again and right the blade.

Inventors

HU ANGUO

Li Feng

Latest standardized assignees - inventors removed

YONGKANG WEILI GARDEN MACHINERY

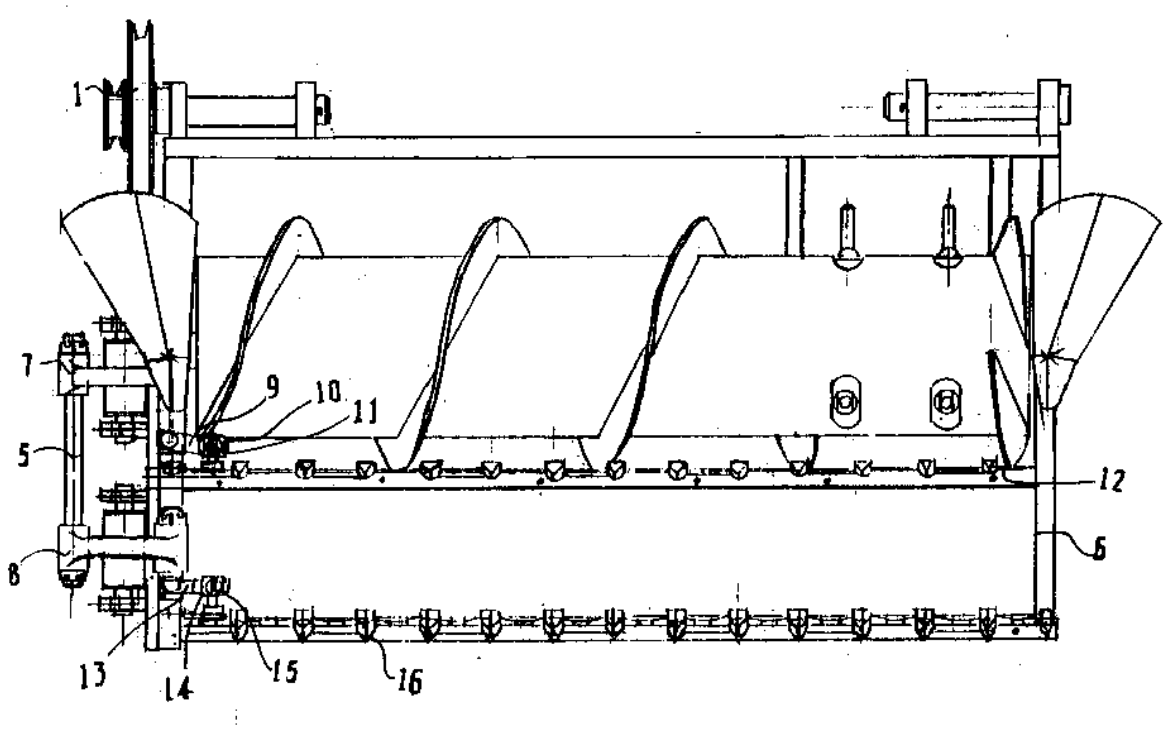
Family 473/667 - FAMPAT - ©Questel

Title

(CN2328169U)

Double layer cutter for combine

Images



Publication data including kind & date

CN2328169	Y	1999-07-14	CN2328169U

Abstract

(CN2328169U)

The utility model provides a double-layer cutter for a combine harvester, comprising a transmitting wheel, a connecting rod, a header which comprises an upper cutter set and an upper swing arm which is connected with the upper cutter set.The utility model is characterized in that the other end of the connecting rod is arranged on a bearing shell 3, a flexible ball head 4 is arranged in the bearing shell 3, and the flexible ball head 4 is fixedly connected with a swing arm central axle.The upper part of the swing arm middle axle which extends into the upper swing arm is fixedly connected with the upper swing arm, and the lower part of the swing arm middle axle is fixedly connected with a lower swing arm.One end of a ball head connecting rod 13 is arranged on the lower swing arm, and the other end is provided with a bearing shell 14.A flexible ball head 15 which is arranged in the bearing shell 14 is connected with a lower cutter set.

Inventors

LI ZHIFU

FENG SHIZHANG

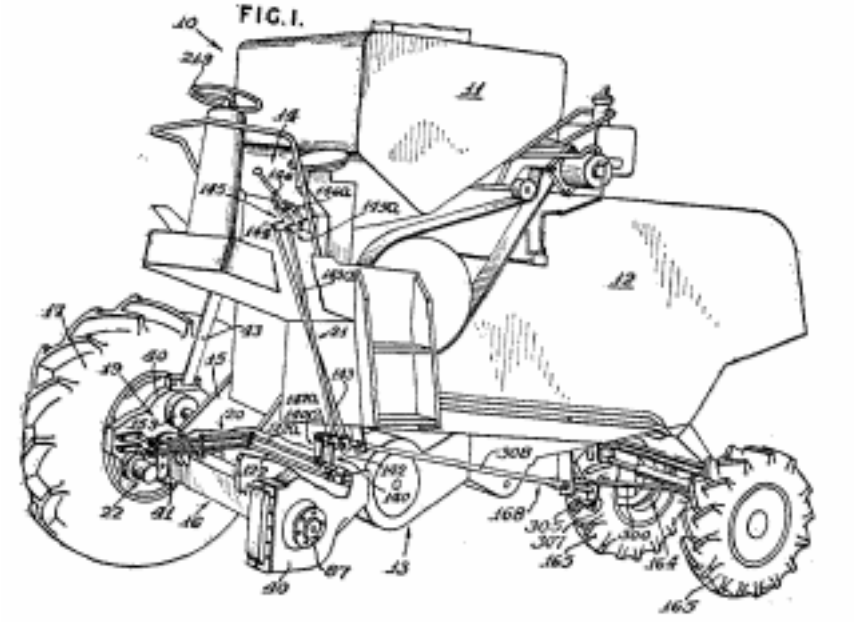
Family 474/667 - FAMPAT - ©Questel

Title

(US3246715)

Hydraulic propulsion drive mechanism

Images



Publication data including kind & date

FR1433626	A	1966-04-01	FR1433626
US3246715	A	1966-04-19	US3246715
GB1074212	A	1967-07-05	GB1074212
DE1555882	A1	1970-04-23	DE1555882

Abstract

(US3246715)

1,074,212. Combine harvesters.INTERNATIONAL HARVESTER CO.March 2, 1965 [March 3, 1964], No. 8825/65.Heading A1F. [Also in Divisions B7 and F2] A combine harvester having main propulsion wheels 17 driven by individual hydraulic motors 22 through separate change-speed gearing 19 has steerable wheels 165 each driven through separate change-speed gearing by auxiliary hydraulic motors 169 (Fig. 11, not shown).The auxiliary motors 16 are supplied from an engine-driven pump feeding the main motors 22 through a pressure reducing valve which ensures that the auxiliary motors 169 are effective only if the main wheels 17 slip.The main and auxiliary change-speed gears are conjointly controlled from a lever 14 through linkage 20, 21, 168.

(From GB1074212 A)

Inventors

POOL STUART D

STEINGAS RICHARD R

ENIX CLAYTON L

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

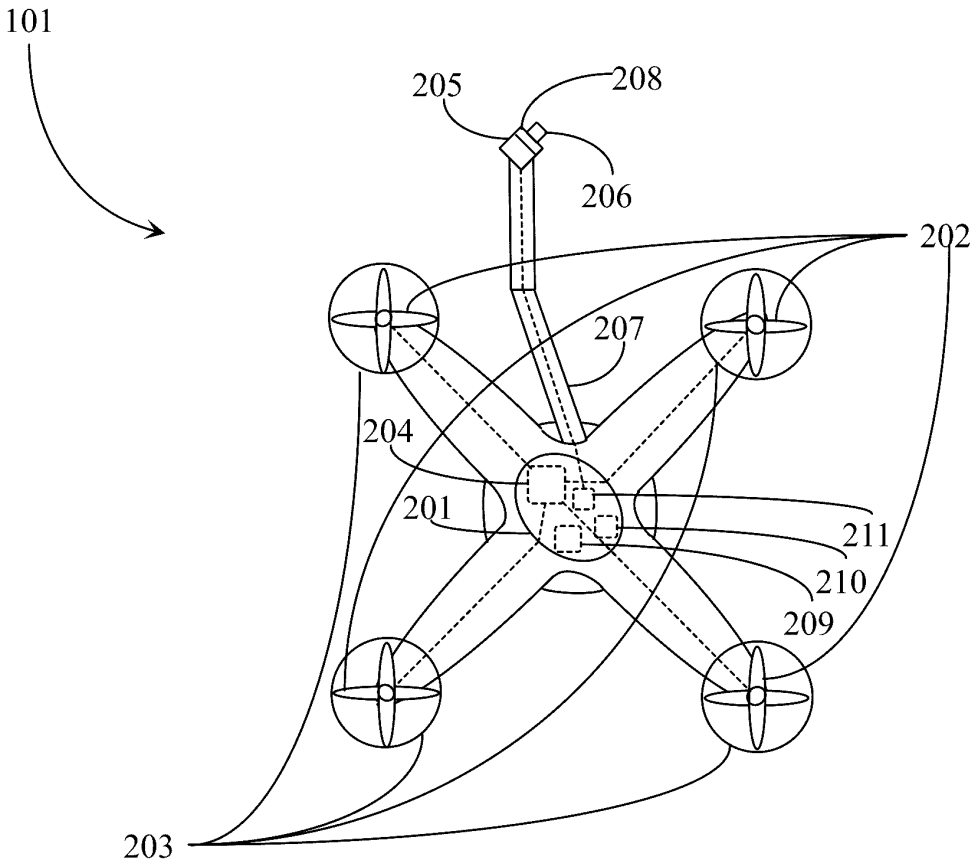
Family 475/667 - FAMPAT - ©Questel

Title

(US20170094909)

Method and Apparatus for Harvesting Produce

Images



Publication data including kind & date

US20170094909	A1	2017-04-06	US20170094909
IN5319/CHE/2015	A	2017-11-17	IN2015CH05319

Abstract

(US20170094909)

A system for harvesting produce from a tree has a drone capable of hovering, a video camera gathering visual data of movement, a cutting implement, a remote control station with a display screen, wireless circuitry, and input mechanisms to control movement of the drone and operation of the cutting implement, and circuitry in the body of the drone enabling two-way communication with the remote control station, transmission of video data from the video camera, and response to commands from the remote control station.The video data from the camera on the drone is displayed on the display screen of the remote control station, and an operator viewing the display screen operates the input mechanisms, maneuvering the drone to position the cutting implement relative to produce in the tree, and triggers the cutting implement by command, severing a stem to separate the produce, causing the produce to fall from the tree.

Inventors

BHAVANI RAO R

Latest standardized assignees - inventors removed

AMRITA VISHWA VIDYAPEETHAM

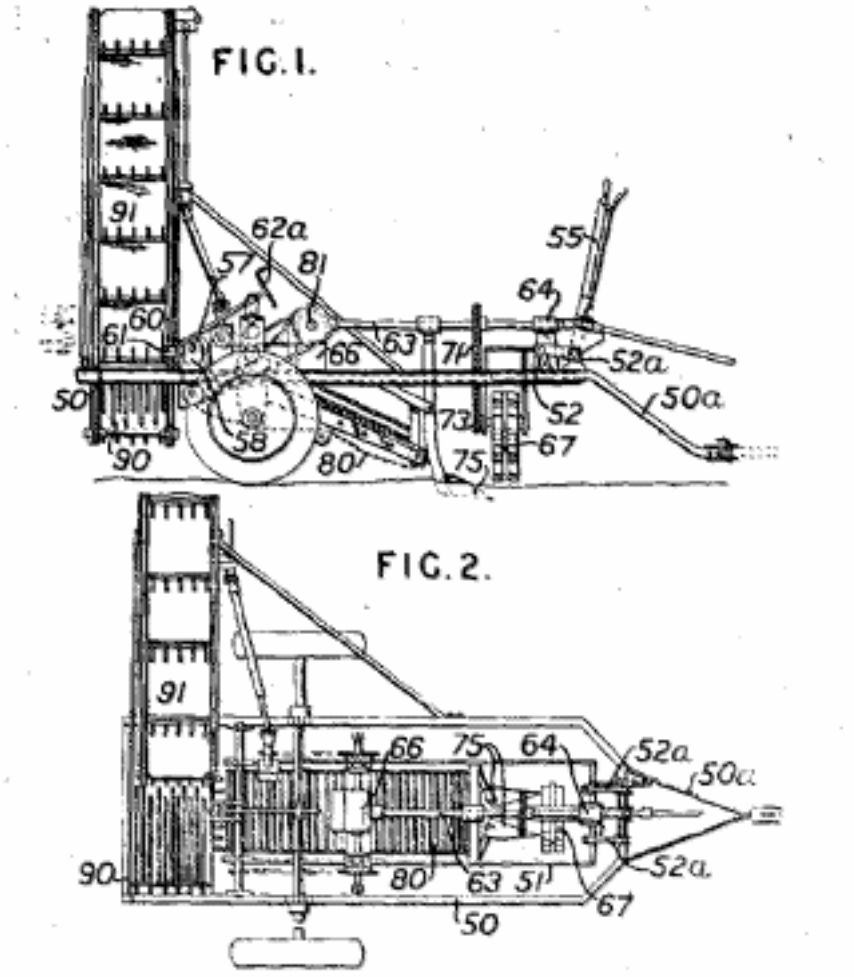
Family 476/667 - FAMPAT - ©Questel

Title

(GB-662804)

Improvements relating to the harvesting of beet and like root crops

Images



Publication data including kind & date

GB662804 A 1951-12-12 GB-662804

Abstract

(GB-662804)

662,804. Root-crop harvesters.STANDEN & SONS, Ltd., F.A., and STANDEN, P.Jan. 17, 1950 [May 30, 1949], No. 14438/49.Class 6(iii) A root crop harvester comprises a wheeled chassis 50 with a front hitch 50a for attachment to a tractor, a frame 51 within the chassis and means for supporting the front and rear ends of the frame for manually controlled up and down movements of the frame parallel to itself, and root lifting shares 75 and an inclined slattype conveyer 80 carried by the frame.The front end of the frame shown is raised and lowered by links 52, 52a under the control of a hand lever 55, and the rear end is adjusted by a shaft 57 with eccentrics 58, the angular position of the shaft being adjusted by screw and nut mechanism 60, 61, of which the nut 61 is carried by an arm of the shaft, the screw being rotated by a handwheel 62a.The frame carries a gear box 66 and bracket 64 for a main shaft 63. which is driven from the power take-off shaft of the tractor.A drive 71, 73, is taken from the shaft for rotating two discs 67 carrying pivoted rubber sweeps for moving the severed beet tops to one side; the topping may be effected by fitting the tractor with the unit forming the subject of Specification 657,174.Gear-box shaft 81 drives the conveyer 80 which transfers the roots lifted by the shares 75 to a slatted retainer 90 whence they are elevated by an elevator 91 and delivered to a vehicle travelling alongside the implement.

Latest standardized assignees - inventors removed

F A STANDEN & SONS

PETER STANDEN

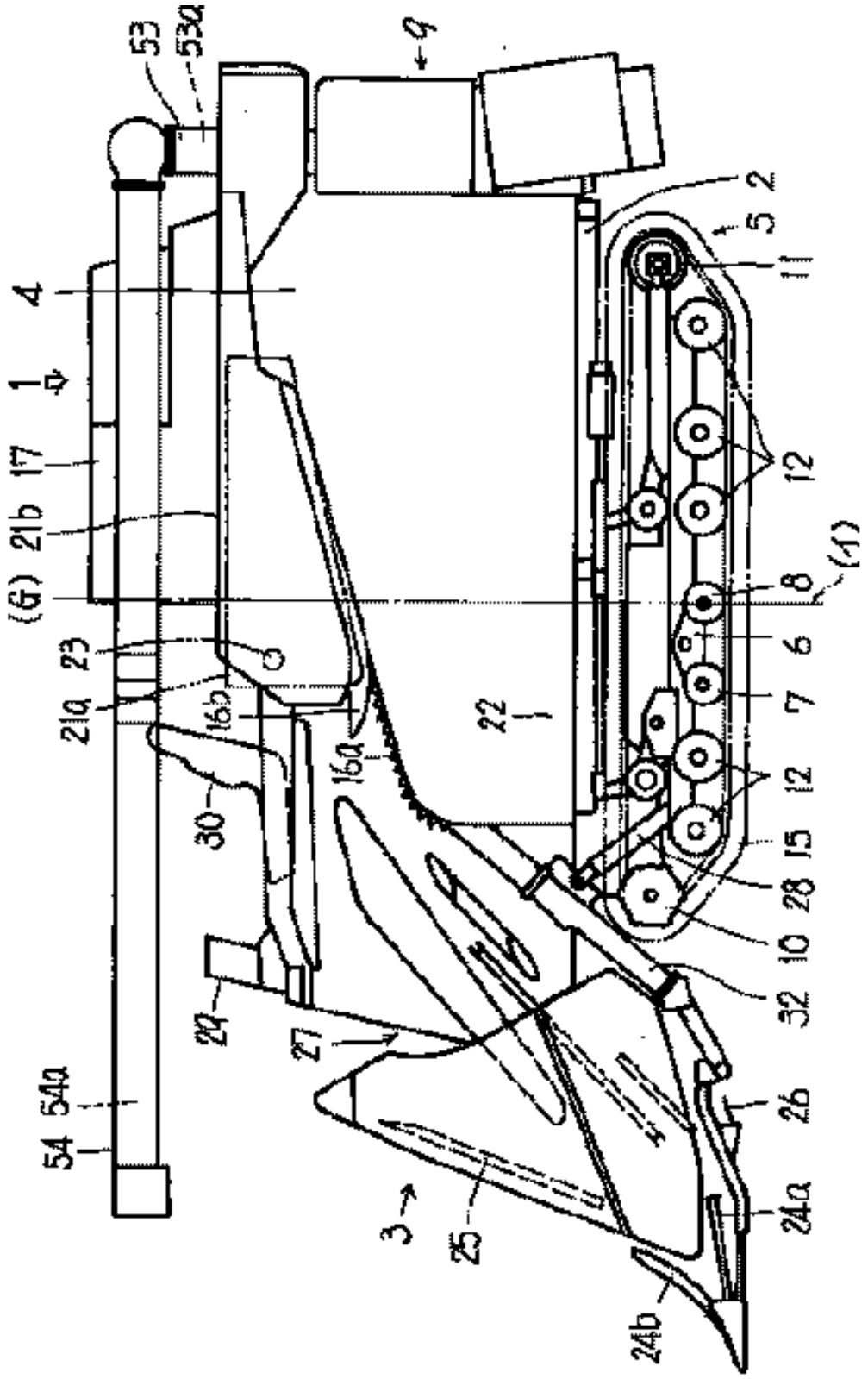
Family 477/667 - FAMPAT - ©Questel

Title

(JP2001190134)

Running device for combine harveste

Images



Publication data including kind & date

JP2001190134 A 2001-07-17 JP2001190134

Abstract

(JP2001190134)

PROBLEM TO BE SOLVED: To reduce vibration of a combine harvester directly transmitted to an operator.SOLUTION: This combine harvester has a thresher 4 threshing the reaped stems of plants on the rear side of a reaping machine 3 reaping the stems on the front side of a running chassis 2, front/rear wheels 10, 11 to provide a running crawler 15 in a tensioned state and plural rotating wheels 12 and front/rear moving wheels 7, 8 inside of the front/rear wheels 10, 11

installed on the underside of the chassis 2, and the center (Y) position of the moving wheel 8 is set to be located to a position approximately right under the center of gravity (G) position of the combine harvester body 9, and a balance weight 20 is installed freely detachably on one side of a rear frame 19 of the traveling chassis 2 and the underside of a shaking separator 18 installed inside the thresher 4.

Inventors

SATOJI HISAYUKI
OCHI SHOJI
NAGAKI KAZUO
IHARA YASUSHI
OKUMOTO KOJI
OKADA TOSHIHIKO
WATANABE HITOSHI

Latest standardized assignees - inventors removed

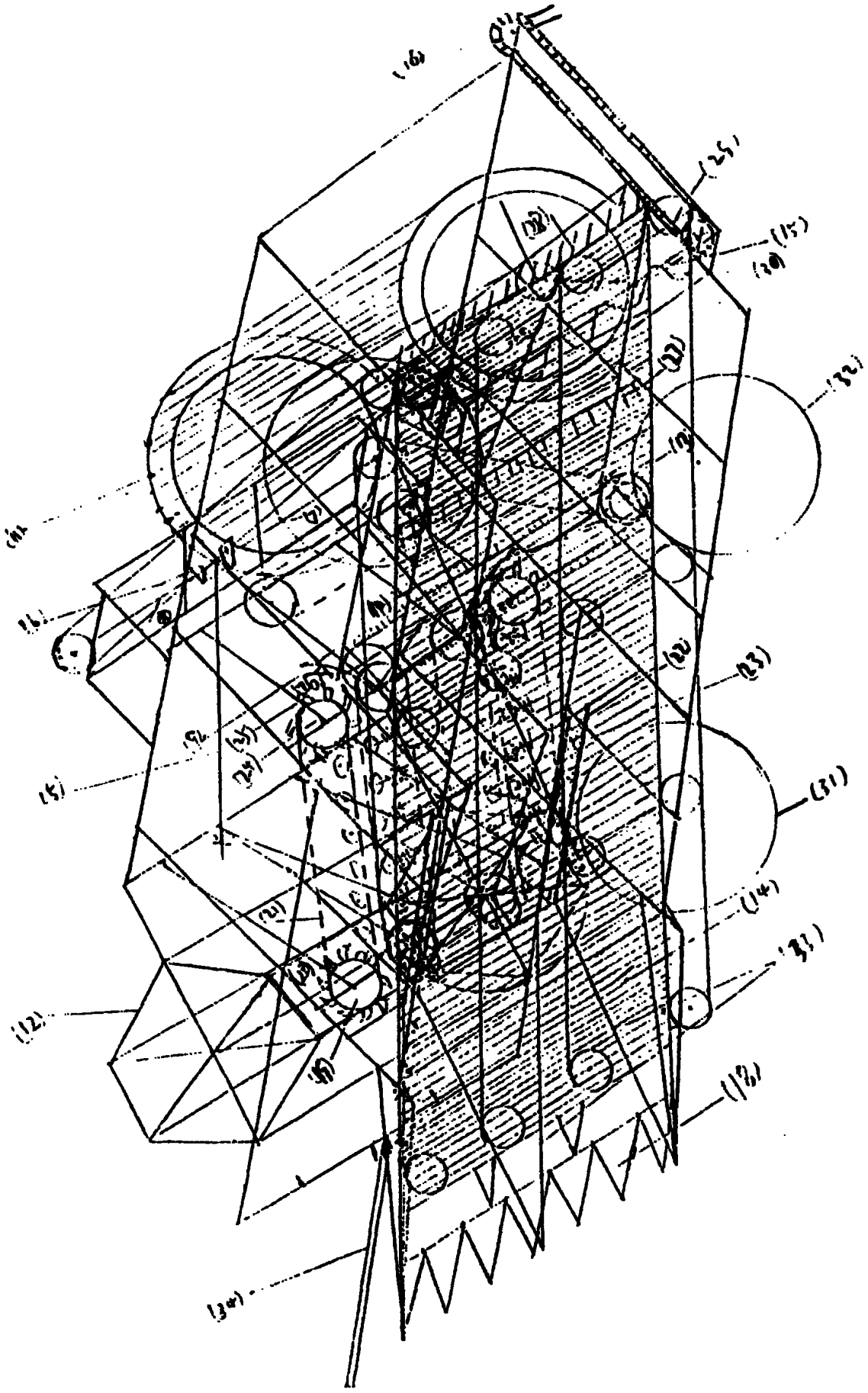
ISEKI AGRICULTURAL MACHINERY

Family 478/667 - FAMPAT - ©Questel

Title

(CN100356830C)
Multifunction hand peanut pick-up combine harvestor

Images



Publication data including kind & date

CN1596581	A	2005-03-23	CN1596581
CN100356830	C	2007-12-26	CN100356830C

Abstract

(CN100356830C)

A hand pick-up type multifunctional peanut combine harvester is composed of plough, delivering sieve, vine lifter, peanut picking up unit, vine throwing unit, roller for separating peanut from soil, fan, impurities remover, and peanut collector.

Inventors

WANG YANZHONG

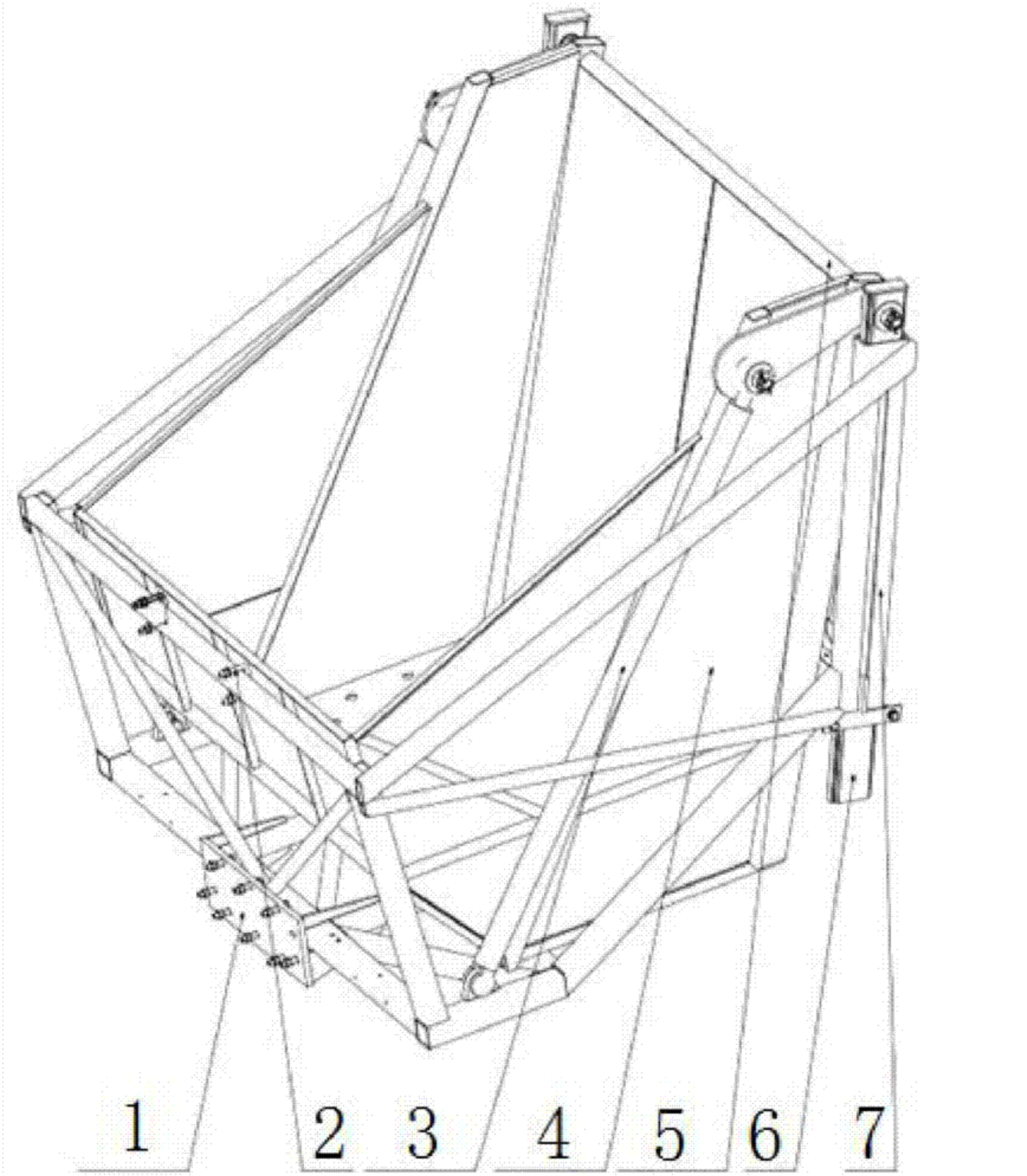
Family 479/667 - FAMPAT - ©Questel

Title

(CN108834554)

Cane harvesting machine materials collection and discharge device and a sugar cane harvesting machines

Images



Publication data including kind & date

CN108834554	A	2018-11-20	CN108834554

Abstract

(CN108834554)

The present invention to provide a sugar cane harvesting machine materials collection and discharge device and a sugar cane harvesting machines, collecting and discharge means comprises a bracket, and the telescopic component hopper; telescoping assembly arranged on the bracket; through a rotating shaft rotatably disposed in the telescoping assembly on the hopper, and can be stretched or shrunk to reduce assembly extends within the stent is unpacked; cane harvesting machine materials using the present invention provides for the collection and discharge device, it is possible to directly discharge into transport vehicle, without the secondary circulation, thereby greatly saving the working efficiency of the user; the present invention provides a discharging speed of the unloaders, hopper and stabilizes the movement, the advantages of more secure structure; and employ the present invention provides a collection and discharge device, such that the sugar cane harvesting machine downhill more secure, and reliable.

Inventors

CHEN BIN
ZHAO YAFENG
NI XIANG
YIN GUOQING
JI DAOSONG
YANG XIAOFENG

Latest standardized assignees - inventors removed

ZOOMLION HEAVY MACHINERY

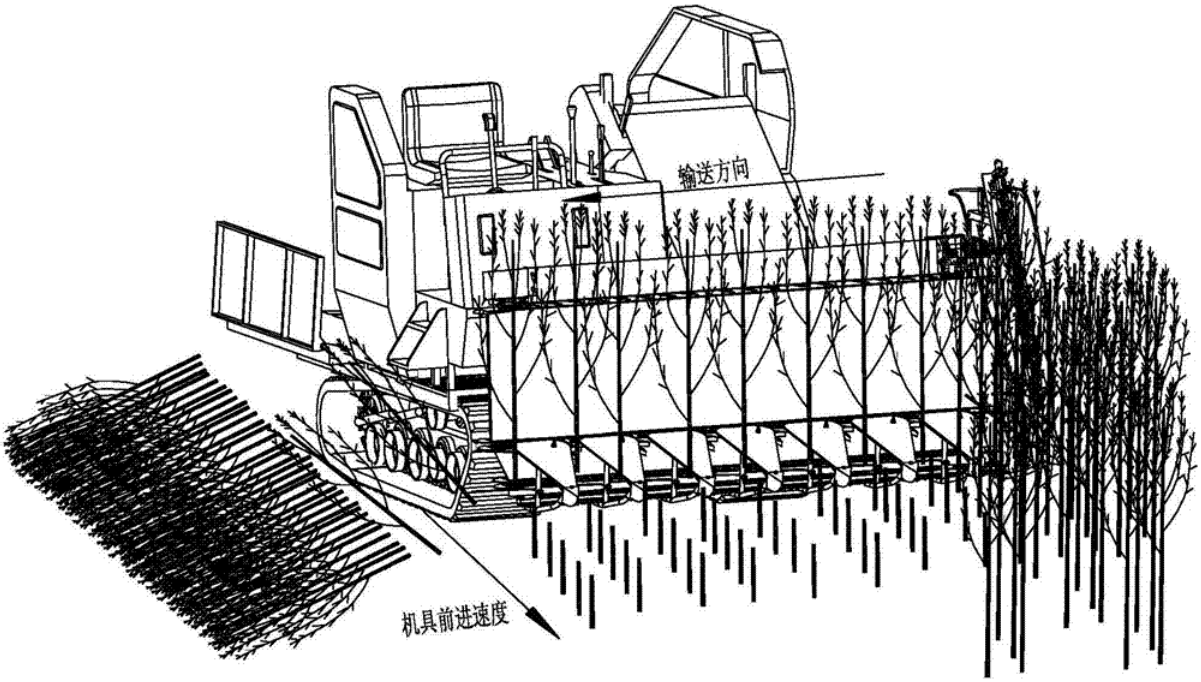
Family 480/667 - FAMPAT - ©Questel

Title

(CN207099702U)

It is quick -witted with haymaking that combine articulated

Images



Publication data including kind & date

CN207099702 U 2018-03-16 CN207099702U

Abstract

(CN207099702U)

The utility model provides an it is quick -witted with haymaking that combine articulated, vertical haymaking machine cut platform is connected with combine conveying mechanism through middle couplingmechanism, and integrated hydraulic

system sets up in combine conveying mechanism one side with the integrated control ware, and first hydro -cylinder is carried out feedback device one end and is installed on middle coupling mechanism, and the other end is installed at vertical haymaking machine cut bench, and the second hydro -cylinder is carried out feedback device one end and is installed oncombine conveying mechanism, and the other end is installed on combine, the execution of first hydro -cylinder feedback device be connected with first hydraulically controlled check valve, and first hydraulically controlled check valve is connected with magenetic exchange valve, and the execution of second hydro -cylinder feedback device be connected with the second hydraulically controlled checkvalve, and the second hydraulically controlled check valve is connected with manual control switching -over valve, and feedback device is carried out with first hydro -cylinder to the integrated control ware, second hydro -cylinder execution feedback device is connected, installs power transmission mechanism, straining device and complementary unit in the frame, easy and simple to handle, the shopputs in good orderly, and work quality is good, and production efficiency is high.

Inventors

XIE FANGPING
DENG XINGWEI
WANG XIUSHAN
WU MINGLIANG
LIU DAWEI
LI XU
XIE WEI
CAO XIN
Zhuo Zheng

Latest standardized assignees - inventors removed

HUNAN AGRICULTURAL UNIVERSITY

Family 481/667 - FAMPAT - ©Questel

Title

(WO2018208142)
Harvesting and crop care machine

Images

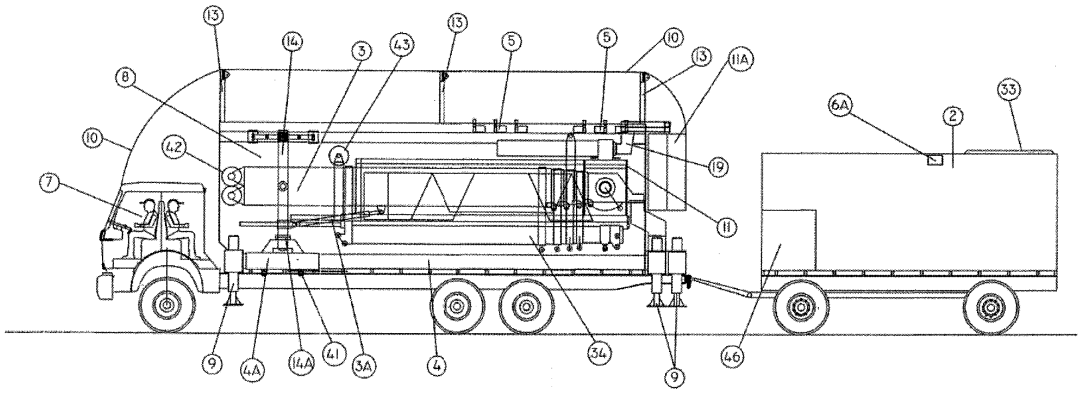


FIG. IA

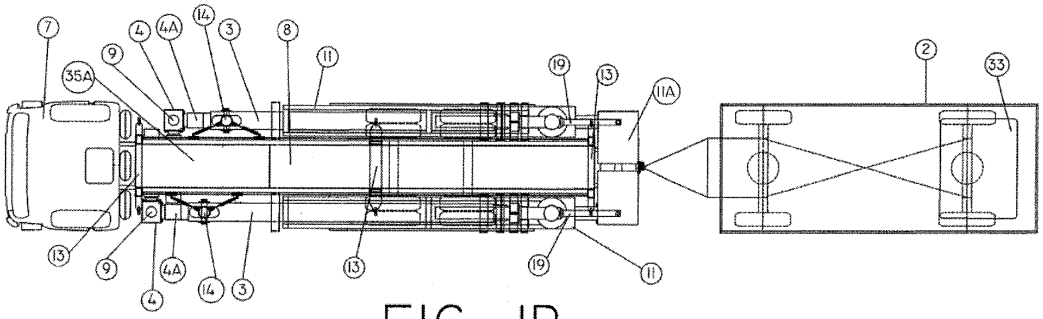


FIG. IB

Publication data including kind & date

WO2018208142 A1 2018-11-15 WO2018208142

Abstract

(WO2018208142)

The invention discloses a single work platform solution for the vast majority of harvesting, crop care and logistic needs of the palm oil plantation industry, that will lead to and yield higher economic return of such plantation land whilst improving its ecological footprint.

Inventors

BIN HALIM RASIP AMIN

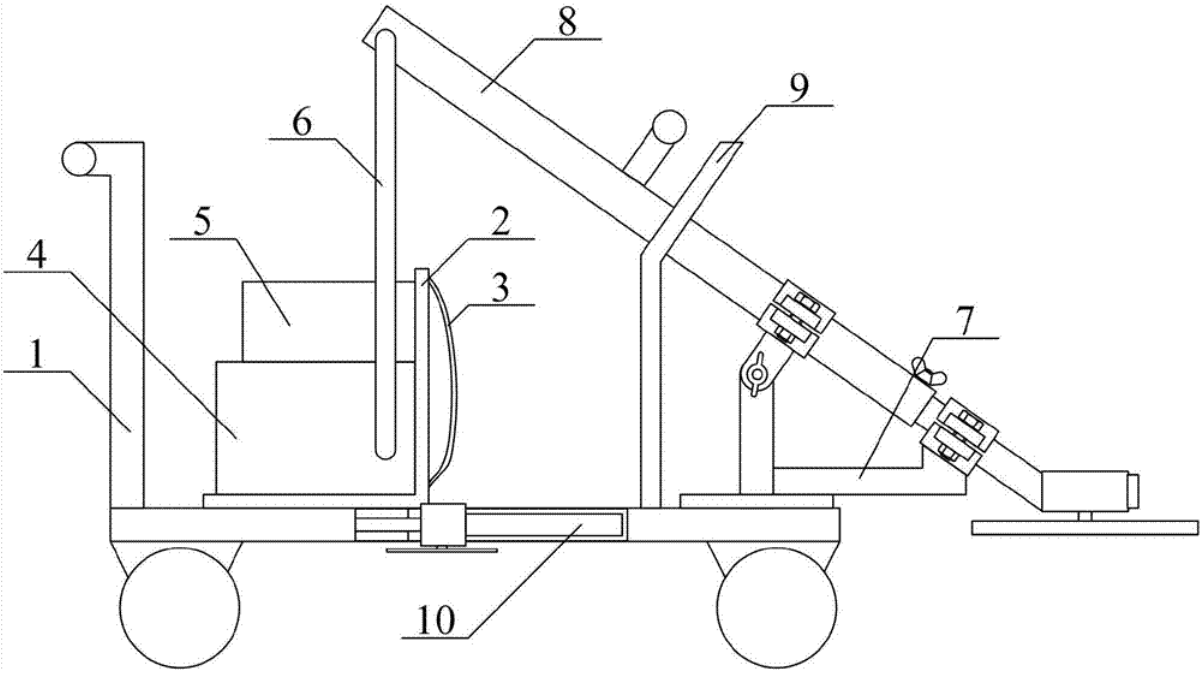
Family 482/667 - FAMPAT - ©Questel

Title

(CN107493803)

High-efficiency agricultural harvesting device

Images



Publication data including kind & date

CN107493803 A 2017-12-22 CN107493803

Abstract

(CN107493803)

The invention provides a high-efficiency agricultural harvesting device.The high-efficiency agricultural harvesting device includes a placement rack device, a placement board, a strap,a vacuum cleaner, a storage battery, a connection pipe, a fixing frame device, a harvesting rod device, a protection board and an auxiliary mowing device.The placement board is in bolted connection with the upper left portion of the inner side of the placement rack device, the upper and lower portions of the strap are pasted to the upper right and lower right portions of the placement board respectively, the vacuum cleaner is in bolted connection with the lower portion of the inner side of the placement board, and the storage battery is in bolted connection with the upper portion of the inner side of the placement board.According to the high-efficiency agricultural harvesting device, the arrangement of the fixing frame device is conducive to conveniently fixing the harvesting rod device, the harvesting rod device is prevented from sliding in a harvesting process, and meanwhile, the protection effect of the agricultural harvesting device is improved; the arrangement of the auxiliary mowing device is conducive to conveniently removing weeds in the harvesting process, functions of the agricultural harvesting device are increased, the high-efficiency agricultural harvesting device is more convenient to use and popularize.

Inventors

CHEN XIANGANG

ZHANG ZHENG

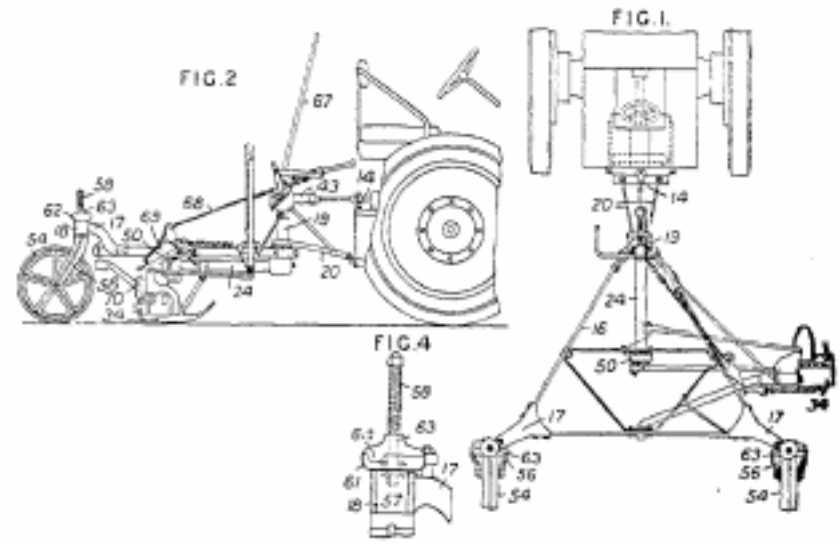
Family 483/667 - FAMPAT - ©Questel

Title

(GB-335881)

Improvements in trailer mowers

Images



Publication data including kind & date

GB332457	A	1930-07-24	GB-332457
GB335881	A	1930-10-02	GB-335881

Abstract

(GB-335881)

335,881. International Harvester Co. of Great Britain, Ltd., (International Harvester Co.).Sept. 21, 1929.Divided on 332,457.Mowing-machines.-A mowing-machine of the type in which a front frame part rigidly attached to the draw bar of a tractor has pivoted thereto the rear frame part carrying the cutter bar and supported on carrying wheels has the lever 78 for effecting the vertical adjustment of the cutter carried by the rigid front part of the frame.The frame 16 is triangular in shape, having brackets 17 at its rear angles, each bracket being provided with a vertical collar 18 to take a spindle 57 carrying a yoke on which a trailing wheel 54 is mounted.The converging sides of the frame are secured to a housing 24 pivotally mounted by a loosely threaded connection on an upright housing 19 rigidly attached by draw bars 20 to the tractor.The knife bar 34 and the associated cutting devices are supported by a pivoted coupling rod 27 and a main coupling arm 29 that is pivoted in the rear member of the frame in line with a cutter driving shaft carried in the housing 24 and driven through bevel gear from a vertical shaft in the housing 19, this shaft in turn being driven through bevel gearing from a cardan shaft 39 driven from the motor.The knife bar may be tilted to adjust the height of the cut by a hand lever 38.The lever 78 for swinging up the knife bar and its associated devices is pivoted in the cap of the housing 19 and is rigidly secured to an arm 87 connected by a link 89 to a spring- pressed collar 81 slidable on a rod 80.The collar is connected by a chain 73 and rod 72 with the lifting lever 69 for the knife-bar.A spring 91 assists in lifting the knife-bar.The trailing wheels 54 normally move along a fixed path but can move to caster when the frame swings about its pivot, being yieldably held in position by spring-pressed member 64 engaging in recesses in caps secured to the spindles 57.Specification 332,457 is referred to.

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

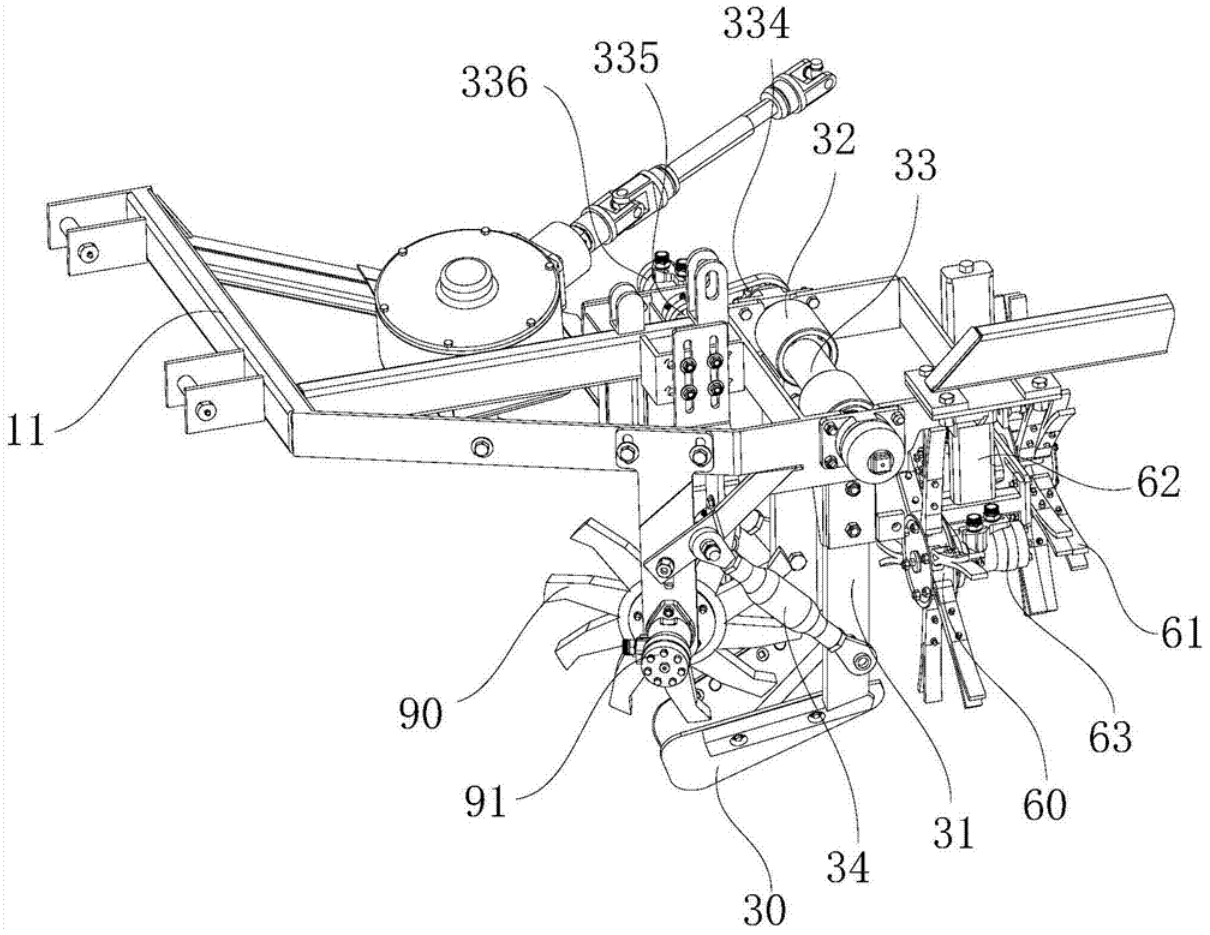
Family 484/667 - FAMPAT - ©Questel

Title

(CN108353609)

Root digging mechanism for agricultural machinery

Images



Publication data including kind & date

CN108353609 A 2018-08-03 CN108353609

Abstract

(CN108353609)

The invention relates to a root digging mechanism for a radish harvester.The root digging mechanism comprises a mobile car frame connected with a traction mechanism, and a leaf cutting mechanism, a root digging mechanism body and a material receiving mechanism are arranged at the front and rear ends of the mobile car frame in the length direction respectively.The root digging mechanism body includes two pieces of soil opening boards which are arranged obliquely at the front and rear ends of the mobile car frame in the length direction.The front ends of the two pieces of soil opening boardsare high, and the rear ends of the two pieces of soil opening boards are low.The two pieces of soil opening boards are arranged in a splayed shape, the ends, positioned at the front end of the mobilecar frame, of the soil opening boards are large spacing ends, a material inlet end of the material receiving mechanism is positioned below the rear ends of the two pieces of soil opening boards, anda material discharging end of the material receiving mechanism is communicated with a feeding inlet of a material bin.The two pieces of soil opening boards are in a splayed shape and can stretch intothe ground and turn soil over along the sides of radish tubers, and therefore damage to the radish tubers can be avoided.

Inventors

THE INVENTOR HAS WAIVED THE RIGHT TO BE CITED

Latest standardized assignees - inventors removed

LI CUIPING

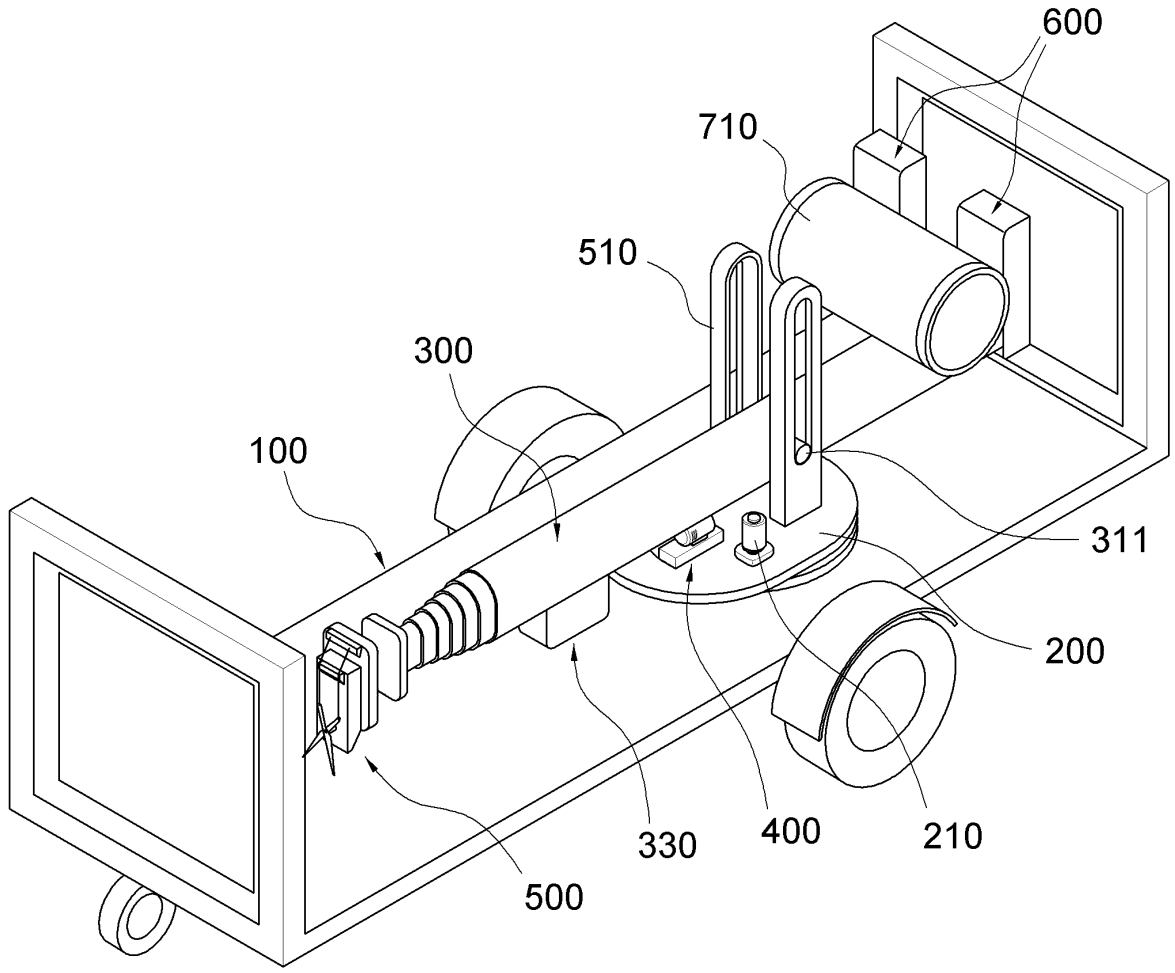
Family 485/667 - FAMPAT - ©Questel

Title

(KR20180091333)

Apparatus for harvesting fruits

Images



Publication data including kind & date

KR20180091333 A 2018-08-16 KR20180091333

Abstract

(KR20180091333)
The present invention relates to a fruit harvesting apparatus and, more specifically, to a fruit harvesting apparatus capable of simply harvesting fruits hung on a high plate.According to the present invention, a worker controls the fruit harvesting apparatus on the ground to harvest a fruit not reached by the worker′s hand, thereby providing an advantage capable of simply and safely harvesting the fruits.Moreover, when harvesting the fruit from a fruit tree planted in an inclined plate, a retractable boom is balanced by adjustment of a gravity center adjustment block, thereby safely harvesting the fruit.Moreover, the retractable boom is vertically rotated and the length of the boom is freely extended, and a separation member is front, back, upper, lower, left, and right directions to access the fruit in various directions even if an obstacle exists, thereby increasing efficiency in fruit harvesting.According to the present invention, the fruit harvesting apparatus comprises the retractable boom and a wire driving unit.

Inventors

KIM MI JEONG
KIM SEUNG JONG
GIM SEONG MO

Family 486/667 - FAMPAT - ©Questel

Title

(US5787786)
Dual hydraulic oscillator for the reciprocating cutter of an agricultural machine

Images

U.S. PATENT DOCUMENTS

3,873,159	3/1975	Dabell et al. .
3,897,975	8/1975	Cobb et al. .
4,052,107	10/1977	Hay .
4,080,000	3/1978	Puurut .
4,120,202	10/1978	Range et al.
4,121,499	10/1978	Hay .
4,147,228	4/1979	Bouyoucos .
4,165,042	8/1979	Peterson .
4,259,029	3/1981	Koehi .
4,280,396	7/1981	Zeuner et al. .
4,363,519	12/1982	Howard .
4,391,414	7/1983	Reitet .
4,550,785	11/1985	Hibbard et al .
4,554,624	11/1985	Wickham et al. .
4,580,640	4/1986	Boldt .
4,688,439	8/1987	Cureton et al. .
4,891,113	1/1990	Shishkin et al. .
4,900,093	2/1990	Krone et al.
5,048,394	9/1991	McLevige et al. .
5,113,966	5/1992	Gregory et al. .
5,145,279	9/1992	Larcheron et al. .
5,158,064	10/1992	Robnett et al .
5,248,123	9/1993	Richeson et al. .
5,273,217	12/1993	Bartels et al. .
5,408,768	4/1995	Karani .

Publication data including kind & date

GB9708139	D0	1997-06-11	GB9708139
GB2312933	A	1997-11-12	GB2312933
DE19718294	A1	1997-11-13	DE19718294
CN1164954	A	1997-11-19	CN1164954
JPH1082405	A	1998-03-31	JP10082405
US5787786	A	1998-08-04	US5787786
BR9703096	A	1998-11-03	BR9703096
BRPI9703096	A1	2001-02-06	BR199703096

Abstract

(US5787786)

A dual hydraulic oscillator for the reciprocating cutter of an agricultural machine is provided.The dual oscillator has two pistons reciprocating in opposite directions and a single pilot valve, with resynchronization performed twice per cycle of the oscillator.Also provided is a single or dual hydraulic oscillator comprising a cylinder having first and second opposed ends.A reversing pilot valve is provided for controlling flow of pressurized fluid to at least one of the first and second cylinder ends.The pilot valve includes first and second pilot passages for controlling the reversing operation of the pilot valve.A piston reciprocates between first and second positions in the cylinder.The piston has an inner bore.The bore has first and second circumferential logic grooves.An inner logic mechanism is slidably received in the bore.The inner logic mechanism has a first coupling mechanism for fluidly coupling the logic grooves to the pressurized fluid and a second coupling mechanism for fluidly coupling the logic grooves to the first and second pilot passages.The first coupling mechanism is fluidly coupled to the second coupling mechanism by the first logic groove, and the second coupling mechanism is fluidly coupled to the first pilot passage, exclusively when the piston is in the first position.The first coupling mechanism is fluidly coupled to the second coupling mechanism by the second logic groove, and the second coupling mechanism is coupled to the second pilot passage, exclusively when the piston is in the second position, thereby to alternately reverse the pilot valve to change the fluid flow to at least one of the first and second cylinder ends for producing the reciprocation of the piston.

Inventors

ZEUNER KENNETH W

Latest standardized assignees - inventors removed

SAUER SUNDSTRAND CONTROL CONCEPTS

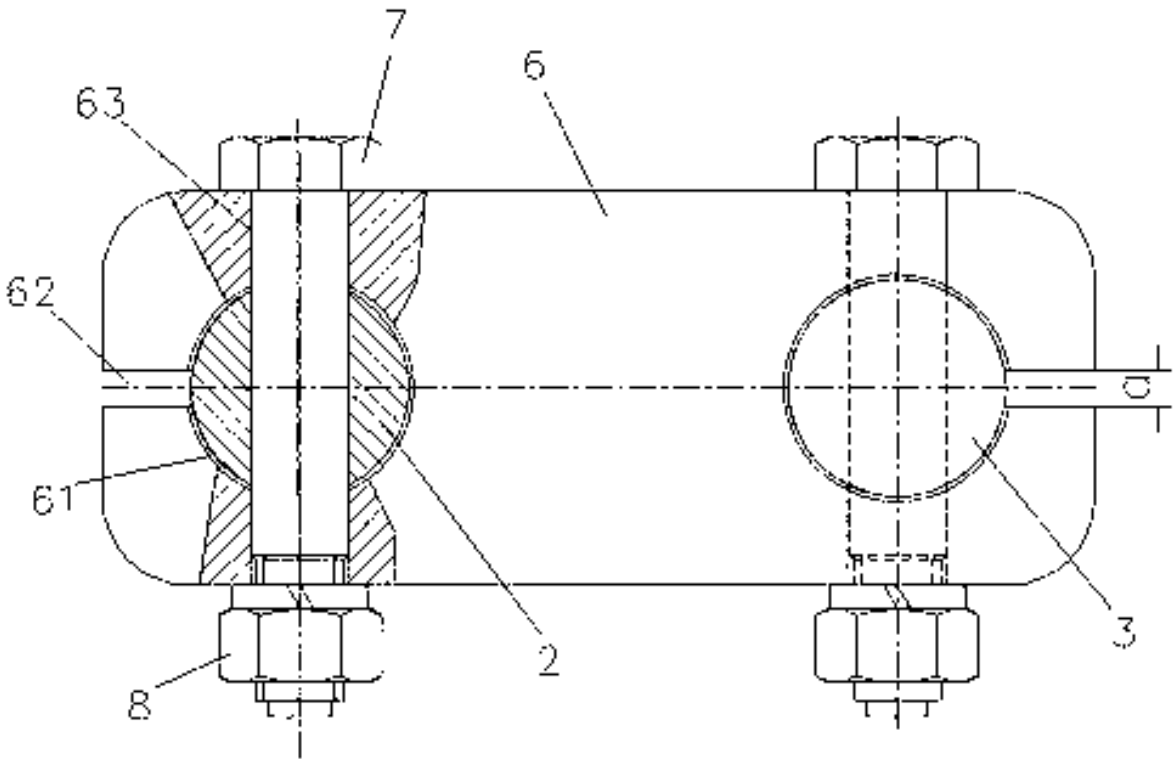
Family 487/667 - FAMPAT - ©Questel

Title

(CN203136570U)

Packing auger crank arm of cutting machine cutting bed

Images



Publication data including kind & date

CN203136570 U 2013-08-21 CN203136570U

Abstract

(CN203136570U)

The utility model discloses a packing auger crank arm of a cutting machine cutting bed, which comprises a crank arm body,

the crank arm body is a rectangular structure with connecting through holes formed in the two ends, clearance adjusting grooves are formed between the connecting through holes and the two longitudinal end surfaces of the crank arm body respectively, cross holes vertically running through with the connecting through holes are formed in the two longitudinal ends of the crank arm body respectively, one end of the packing auger supporting shaft and one end of the extendable gear shaft penetrate relevant connecting through holes respectively, the connecting bolt penetrates the connecting through holes corresponding to the crank arm, one end of the packing auger supporting shaft and one end of the extendable gear shaft respectively and connects one end of the packing auger supporting shaft or one end of the extendable gear shaft fixedly with the crank arm through nuts respectively.The crank arm provided by the utility model is convenient to process, low in manufacturing cost; and the clearance adjusting grooves formed in the two ends of the crank arm form a flexible structure, the crank arm can be prevented from moving through the fixing of the connecting bolt and nut, the service life is prolonged, the cutting machine cutting bed packing auger fault is decreased greatly, and the operation efficiency is improved.

Inventors

LI SHUIJING

Latest standardized assignees - inventors removed

JIANGSU WORLD AGRICULTURAL MACHINERY

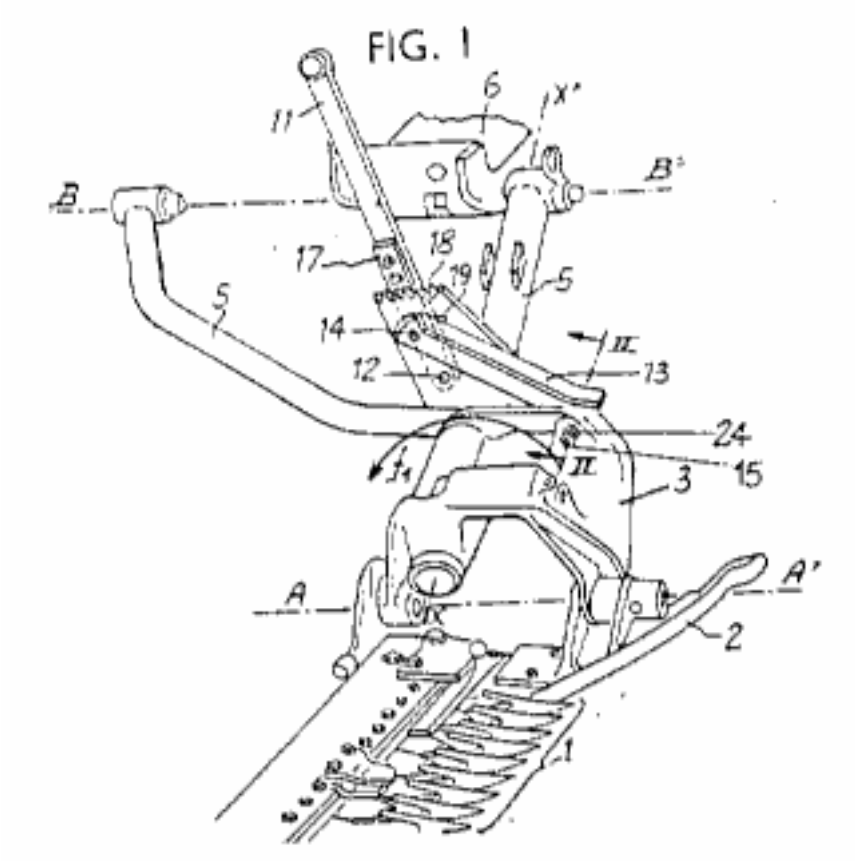
Family 488/667 - FAMPAT - ©Questel

Title

(FR1479321)

Security system for a mower

Images



Publication data including kind & date

FR1479321	A	1967-05-05	FR1479321
BE694719	A	1967-07-31	BE-694719
NL6703458	A	1967-09-06	NL6703458
GB1159874	A	1969-07-30	GB1159874
DE1582255	B1	1970-07-23	DE1582255

Abstract

(FR1479321)

1,159,874. Mowing machines.INTERNATIONAL HARVESTER CO. 2 March, 1967 [5 March, 1966], No. 9971/67.Heading A1F.In a tractor mid-mounted mower the cutter-bar 1 and inner shoe 2 are pivoted on a hinge-member 3 about a normally horizontal axis A-A<1> and the hinge-member is pivoted on a drag-bar 5 about an upwardly inclined axis X-X<1> perpendicular to the horizontal axis, a tilt-control system 11, 13 being connected between the hingemember and drag-bar whereby the angle of attack of the cutter-bar may be varied, this system incorporating a shearable pin 15, whereby, upon the cutter-bar's encountering undue resistance by an obstacle the pin can shear and the cutter-bar and hingemember can initially move about the inclined axis X-X<1> until the other axis A-A<1> is sufficiently inclined to the horizontal whereon further pivoting occurs about that axis.The drag-bar is bifurcated, its upper ends being pivoted to the tractor-chassis about a horizontal axis B-B<1>.The tiltcontrol system comprises a lever 11 pivoted at 12 on the drag-bar and connected by a pitman 13 to the pin 15 on which its pivots.Interengaging detent-means 17, 18 are provided on the lever and drag-bar whereby the tilt of the cutter-bar may be maintained at any preset value.The pin 15 is mounted in hardened sleeves (Fig. 2, not shown) in the hinge-member 3 and pitman 13 respectively.The shear-pin could, in alternative constructions, be either of the pivot-pins 12, 14.

(From GB1159874 A)

Inventors

BOUET JACQUES

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

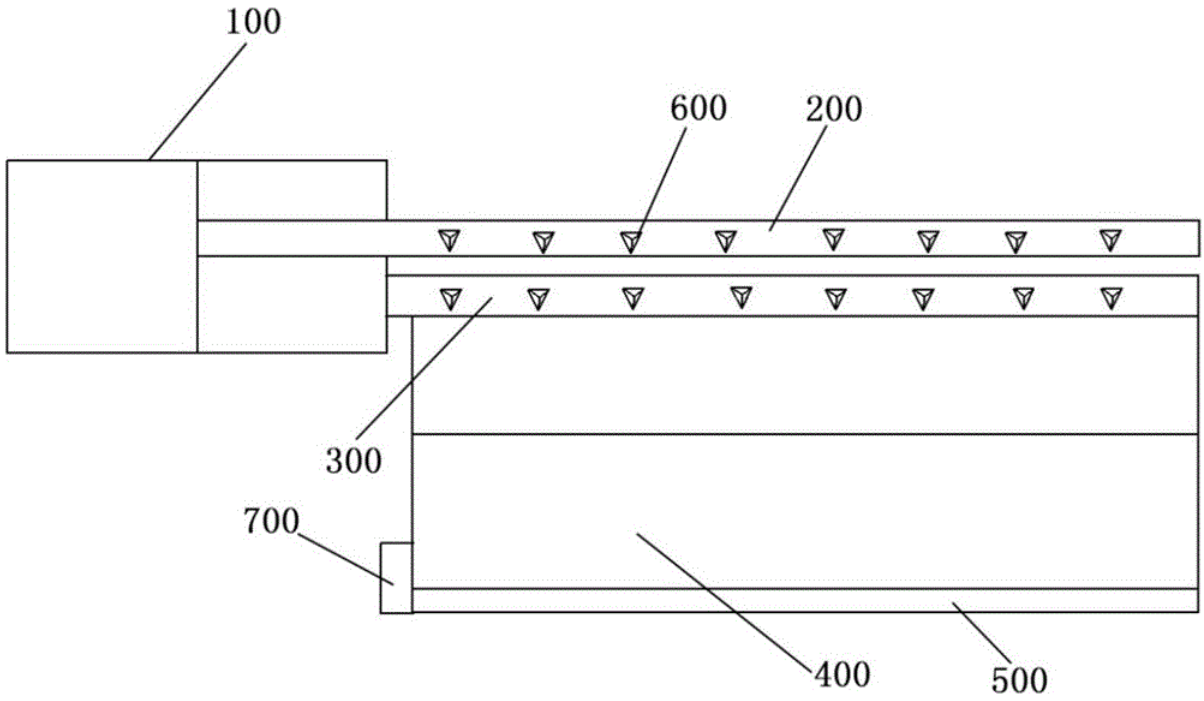
Family 489/667 - FAMPAT - ©Questel

Title

(CN105940860)

Novel tea picking machine system

Images



Publication data including kind & date

CN105940860	A	2016-09-21	CN105940860
CN105940860	B	2017-12-05	CN105940860B

Abstract

(CN105940860B)

The invention discloses a novel tea picking machine system which is characterized by comprising an internal combustion

engine, a dynamic rack saw, a static rack saw, a collection barrel and an electric insertion plate door, wherein the dynamic rack saw is connected with a piston of the internal combustion engine and driven by the internal combustion engine to linearly move back and forth; the static rack saw is connected with a shell of the internal combustion engine and arranged below the dynamic rack saw; multiple saw teeth protruding toward the side surface are arranged on the dynamic rack saw and the static rack saw; during work, the dynamic rack saw and the static rack saw cooperate to cut the tea leaves; the collection barrel is fixedly connected below the static rack saw; and the electric insertion plate door driven by a motor is arranged at the bottom of the collection barrel.

Inventors

ZHANG JUN

PENG CHENG

Latest standardized assignees - inventors removed

YANGTZE NORMAL UNIVERSITY

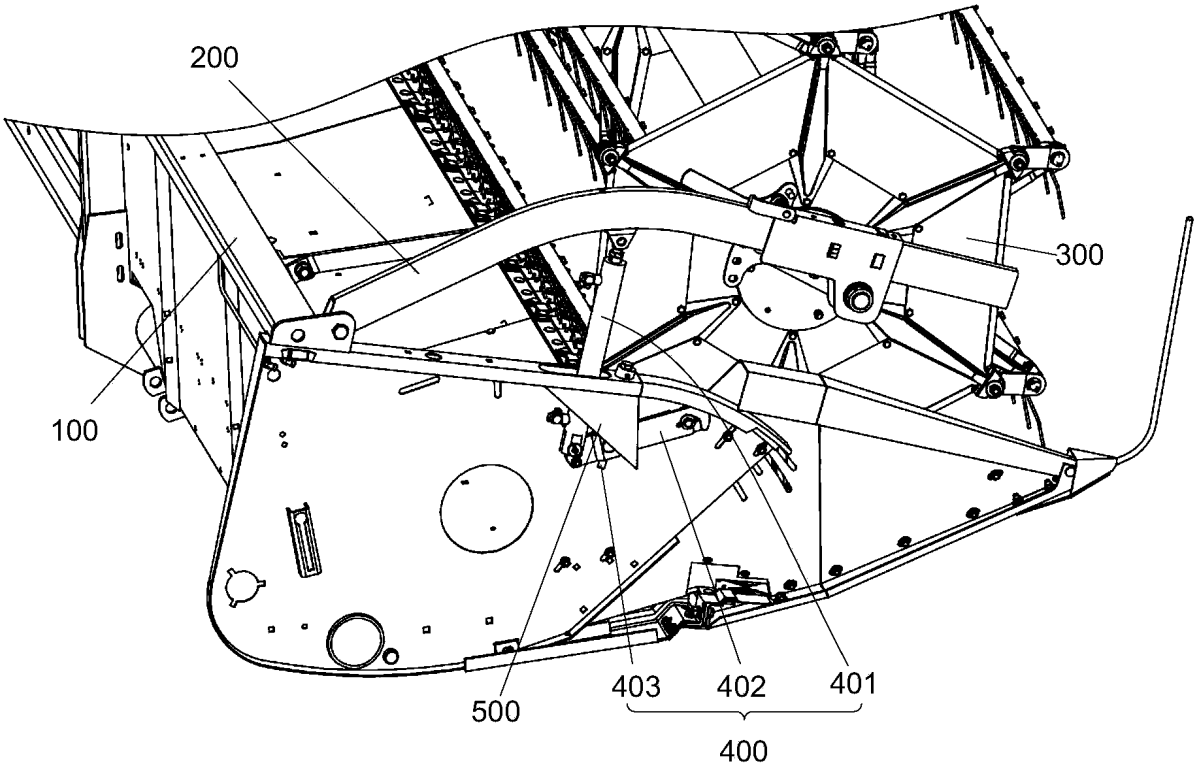
Family 490/667 - FAMPAT - ©Questel

Title

(CN205017856U)

A header and combine for combine

Images



Publication data including kind & date

CN205017856	U	2016-02-10	CN205017856U

Abstract

(CN205017856U)

The application discloses a header and combine for combine.The header includes: the header support, the reel support, the one end of reel support is supported by the pivot on the header support, the other end supports the reel, the high adjusting device of reel, it includes: with reel support pivotally connected to's pneumatic cylinder, with the header support reaches pneumatic cylinder pivotally connected to's pneumatic cylinder support piece, set up in the header support with adjusting lever between the pneumatic cylinder support piece, it can the actuator disk pneumatic cylinder support piece make it for the header support rotates to change the position of pneumatic cylinder.The application provides a header and combine for combine can increase the height -adjustable scope of reel.

Inventors

ZHANG ZHIWEI

SUN MINGMING

LIU DAN

Latest standardized assignees - inventors removed

JOHN DEERE

Family 491/667 - FAMPAT - ©Questel

Title

(US3591950)

Loading car with takeup member operating outside the vehicle track

Images

SHEET 01 OF 16

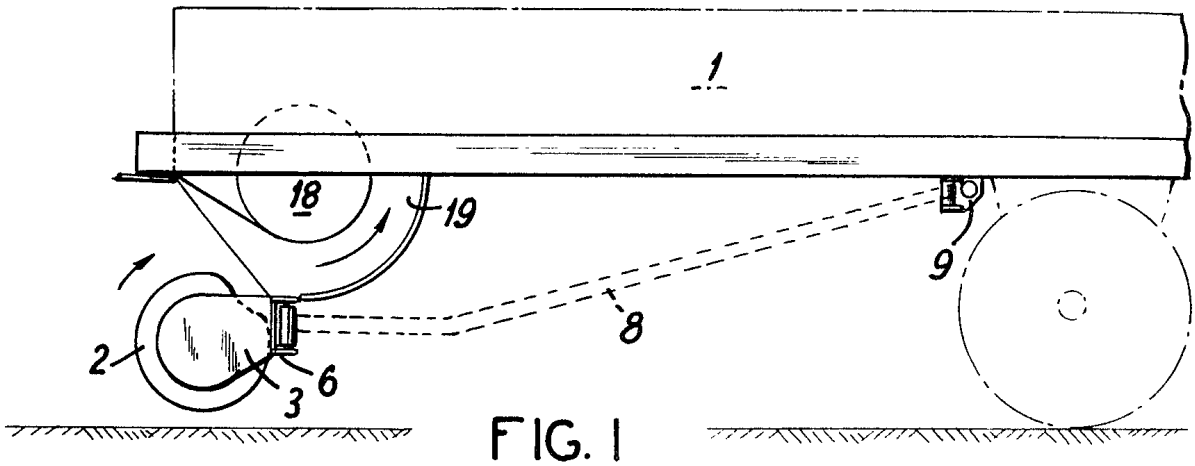
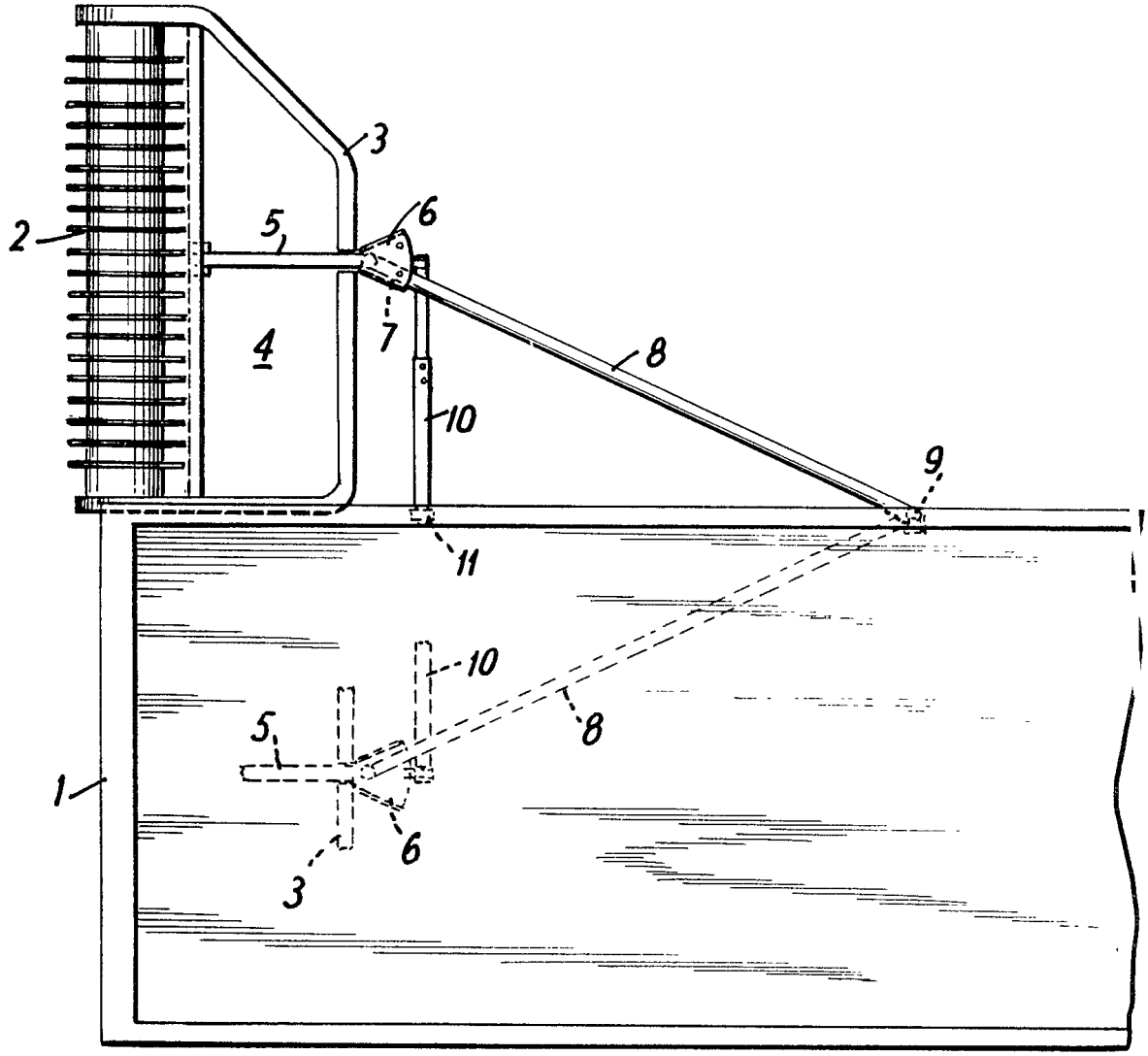


FIG. 1



INVENTOR.
ERNST WEICHEL

FIG 2

Publication data including kind & date

NL6713454	A	1968-04-05	NL6713454
FR1550253	A	1968-12-20	FR1550253
CH481556	A	1969-11-30	CH-481556
GB1175230	A	1969-12-23	GB1175230

GB1175229	A	1969-12-23	GB1175229
US3543498	A	1970-12-01	US3543498
AT287510	B	1971-01-25	AT-287510
SE336499	B	1971-07-05	SE-336499
US3591950	A	1971-07-13	US3591950
AT293186	B	1971-09-27	AT-293186
AT293185	B	1971-09-27	AT-293185
DK126221	B	1973-06-25	DK-126221

Abstract

(US3591950)

A tractor-drawn crop carrying vehicle has a load receiving surface, a conveyor duct discharging upwardly onto the receiving surface and having a width coextensive with that of the receiving surface, conveying means operable in a conveyor duct to move harvested material along the duct to the receiving surface, a crop receiving drum, a frame mounting the drum and a transverse conveyor device conveying material from the receiving drum to the conveyor duct.The frame is mounted on the vehicle for movement between a first position, in which the drum extends perpendicularly to the path of vehicle movement and completely to one side of the vehicle, and a second position, in which the drum also extends perpendicularly to the direction of vehicle movement but is retracted beneath the vehicle.Releasable bracing and locking means are provided for maintaining the frame and the drum in each of the two positions.Various auxiliary elements cooperate with the drum, the transverse conveyor device and the conveyor duct, and may include, for example, cutting means operable to sever the harvested material as it is moved laterally into the conveyor duct.

Inventors

WEICHEL ERNST

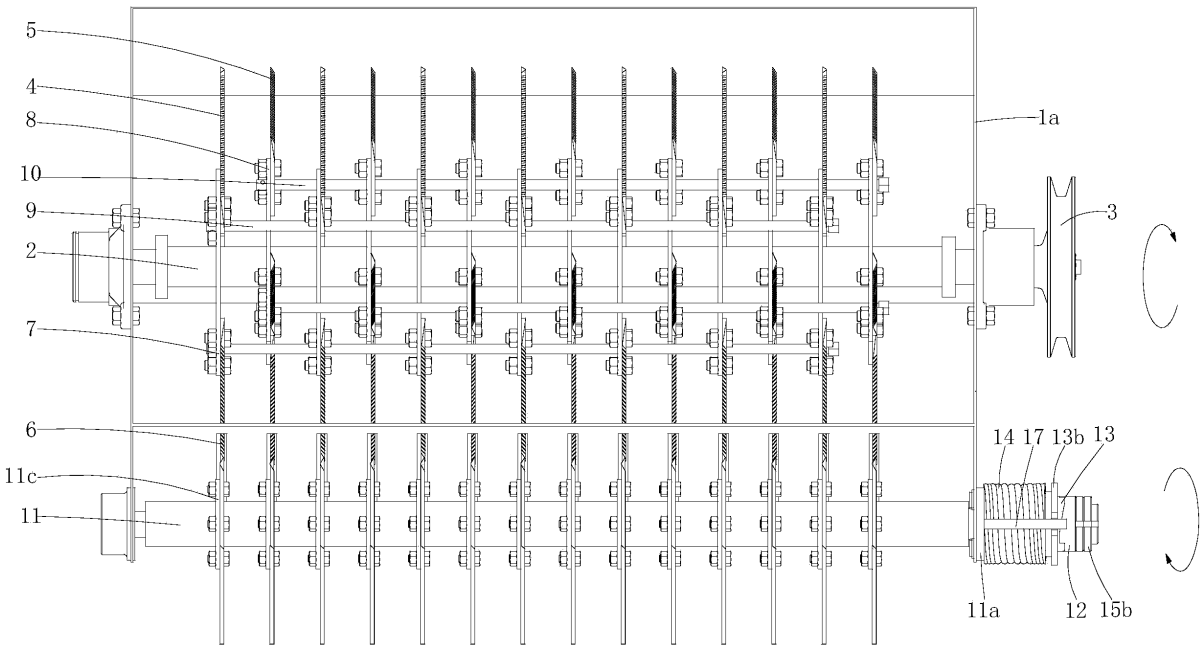
Family 492/667 - FAMPAT - ©Questel

Title

(CN204860079U)

Exempt from stifled chaffcutter

Images



Publication data including kind & date

CN204860079	U	2015-12-16	CN204860079U

Abstract

(CN204860079U)

The utility model relates to an exempt from stifled chaffcutter, install respectively on two curb plates of casing at the both

ends of first arbor, and the one end and a transmission of first arbor are connected, and a transmission installs on one of them curb plate of casing, and first cutter, second cutter set up respectively on first arbor, still include second arbor, first sleeve, second sleeve and spring, and install on two curb plates of casing through bearing device respectively at the both ends of second arbor, the third cutter is installed on the second arbor, first sleeve on the second arbor and as an organic whole with second arbor fastening, the second sleeve on the second arbor and with second arbor clearance fit, the first telescopic primary shaft supports each other to the end with the telescopic primary shaft of second to the end and leans on, the spring housing is on the second arbor, and the spring compressed is between second sleeve and bearing device or casing.The utility model discloses can prevent to be cut material choking in the chaffcutter.

Inventors

MO YISONG

BAO JIANFENG

ZHU MIN

Latest standardized assignees - inventors removed

CHANGZHOU HANSEN

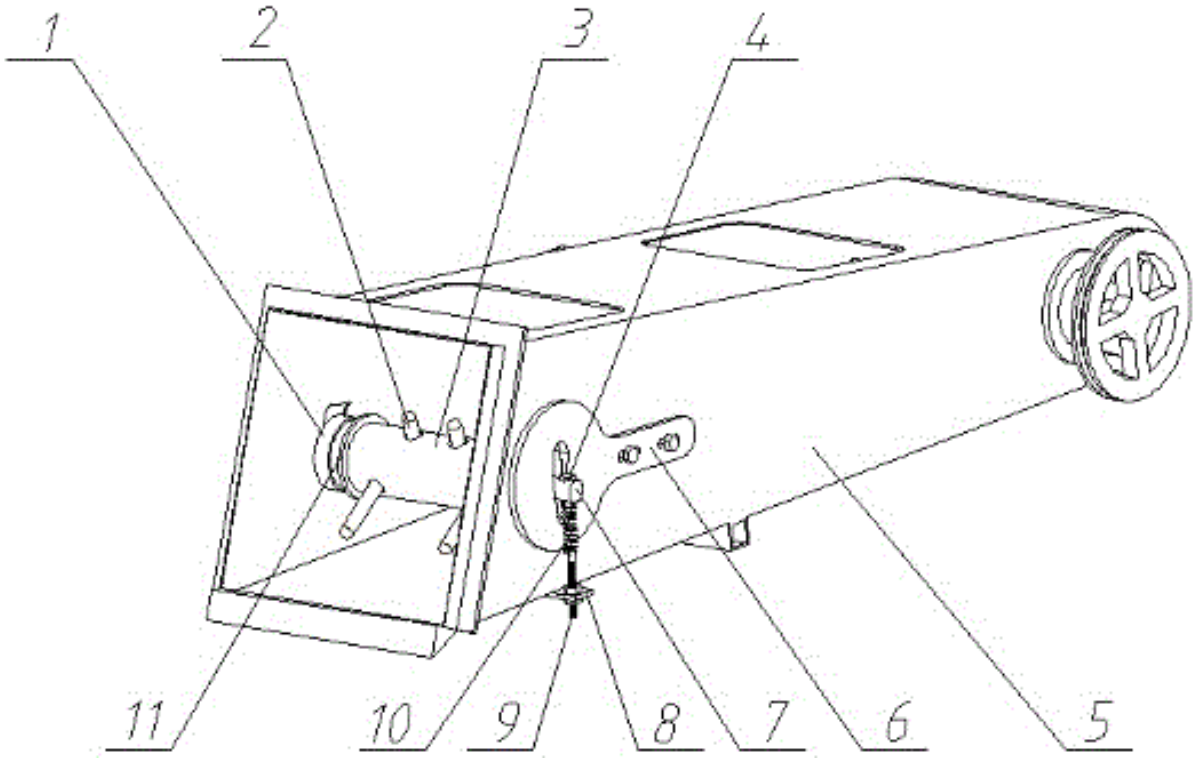
Family 493/667 - FAMPAT - ©Questel

Title

(CN205454668U)

Combine gap bridging

Images



Publication data including kind & date

CN205454668 U 2016-08-17 CN205454668U

Abstract

(CN205454668U)

The utility model discloses a combine gap bridging belongs to the agricultural machinery of reaping, aims at providing a combine gap bridging who prevents blocking up, making things convenient for the maintenance to change, including supporting a section of thick bamboo, eccentric shaft, driving lever, cylinder, the casing of passing a bridge, fixing base, bottom plate, sprocket, spring, screw rod, bottom plate.The eccentric shaft is located inside?the?drum, be equipped with a plurality ofly to winding axle center pivoted driving lever on the eccentric shaft, open porosely on the cylinder, the driving lever stretches out in following the hole on the cylinder, fixedly connected with sprocket on the cylinder, the cylinder both

ends are rotated and are installed in supporting a section of thick bamboo, bleacher is passing a bridge the casing in the both sides of the casing of passing a bridge with bolt fixed connection on, it has the arc wall to open on the fixing base, the arc wall of the both ends follow fixing base of eccentric shaft stretches out and opens porosely at nose, the hole that the pivot passed the eccentric shaft both ends links to each other with the spring, the spring is connected with the screw rod, the screw rod adopts nut fixed joint with the bottom plate.

Inventors

ZHANG LIHUA
TIAN ZHIWEI
YANG WENYU
LIU GUI
LI RAN
WANG RUI

Latest standardized assignees - inventors removed

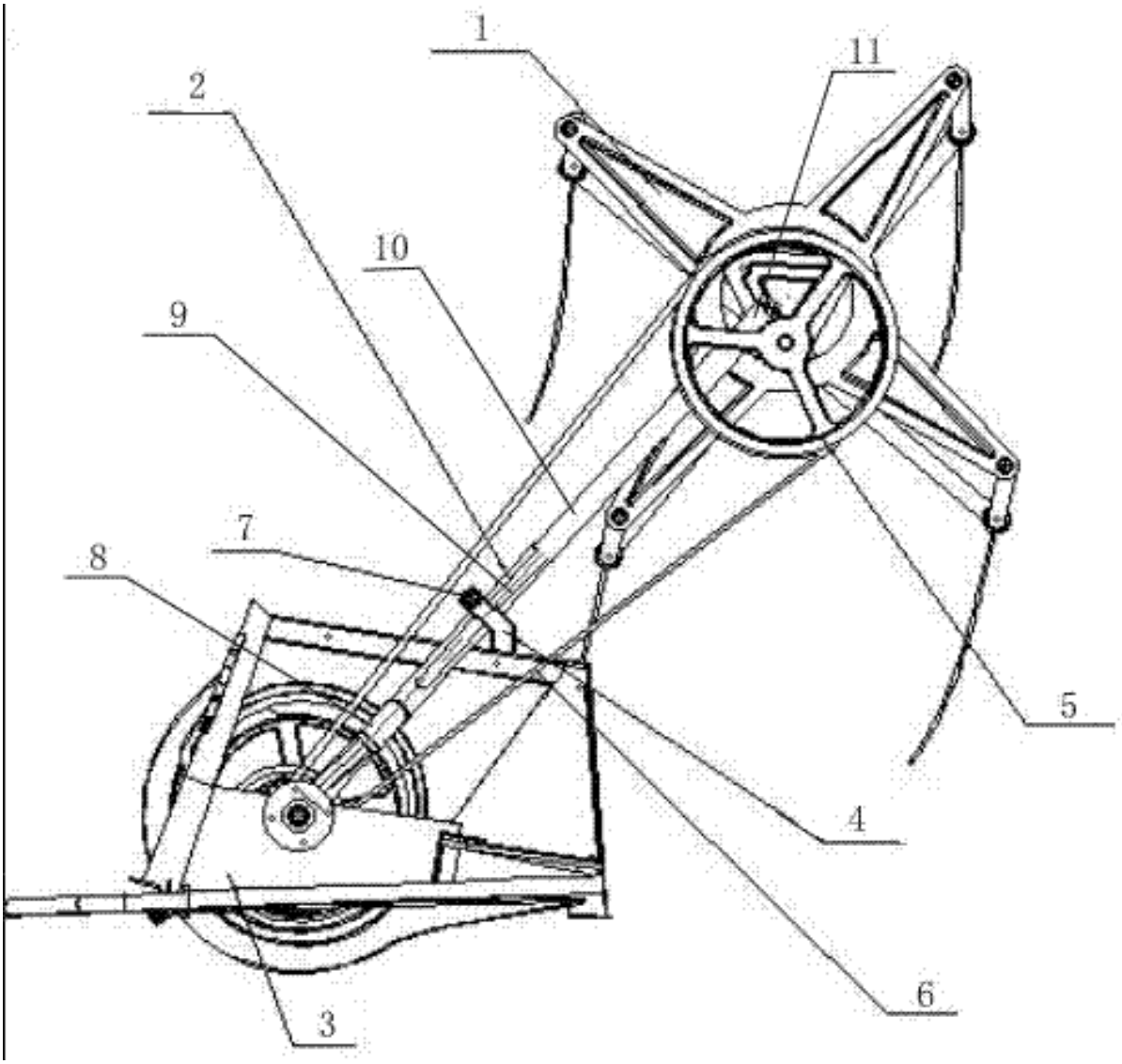
SICHUAN AGRICULTURAL UNIVERSITY

Family 494/667 - FAMPAT - ©Questel

Title

(CN206866058U)
Bracing piece with adjustable miniature combine reel

Images



Publication data including kind & date

CN206866058 U 2018-01-12 CN206866058U

Abstract

(CN206866058U)

The utility model discloses a bracing piece with adjustable miniature combine reel, its characterized in that: the reel bracing piece divide into the split type bracing piece of three -section, be bottom sprag pipe (8), middle part stay tube (10), adjust stay tube (11), the bottom of bottom sprag pipe is fixed on the header, upper portion is fixed on bracing piece mount (4), the welding of bracingpiece mount is on the header, slot hole (9) are opened on bottom sprag pipe upper portion, it is intraductal that the middle part stay tube inserts bottom sprag, middle part stay tube upper portion round steel (12) of attacking threaded hole of welding, it embolias on the intermediate strut pipe to adjust the stay tube, and in upper end one nut (13) of welding, upper portion one packing ring (15)in the cover, adjusting bolt (14) twist in the welded round steel on the intermediate strut pipe, weld on the regulation stay tube support ring (16), the support ring is through supporting and the reel hub connection.The utility model discloses but reduction in production cost 10%.

Inventors

GAO YOUREN

CENG XIANGUO

LI WENCHENG

LAN BING

Latest standardized assignees - inventors removed

NANCHONG FUPAI AGRICULTURAL MACHINERY

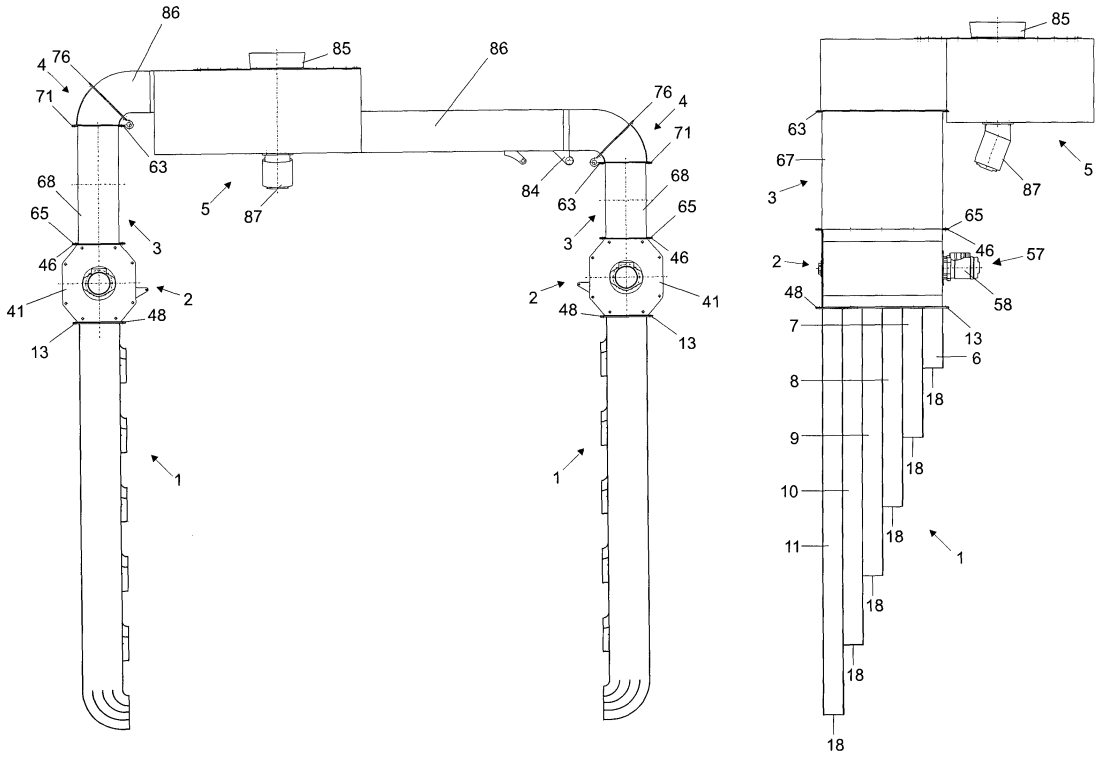
Family 495/667 - FAMPAT - ©Questel

Title

(EP2890236)

Air blast soft fruit harvesting device

Images



Publication data including kind & date

CA2881628	A1	2014-03-06	CA2881628
WO2014035273	A2	2014-03-06	WO201435273
RS20120374	A1	2014-04-30	RS201200374
WO2014035273	A3	2014-07-24	WO201435273

WO2014035273	A8	2015-02-05	WO201435273
AU2013309567	A1	2015-03-26	AU2013309567
PE05152015	A1	2015-04-29	PE201500515
RS53803	B1	2015-06-30	RS--53803
EP2890236	A2	2015-07-08	EP2890236
US20150223399	A1	2015-08-13	US20150223399
EA201590407	A1	2015-08-31	EA201590407
CL2015000466	A1	2015-11-06	CL0466201500
US9345195	B2	2016-05-24	US9345195
AU2013309567	B2	2017-02-02	AU2013309567
BR112015005975	A1	2017-02-07	BR112015005975
CA2881628	C	2017-03-28	CA2881628
NZ705829	A	2017-03-31	NZ-705829
BR112015005975	A2	2017-08-08	BR112015005975
EP2890236	B1	2018-03-14	EP2890236
EA029945	B1	2018-06-29	EA--29945

Abstract

(EP2890236)

The invention relates to the air blast soft fruit harvesting device comprising an air flow director (1), pulsator (2), distancing channel (3), segmented extension (4) and blower fan (5) assembly.The distancing channel (3) is connected with the segmented extension (4) on the top side and with the pulsator (2) on the bottom side, whereas the pulsator (2) is simultaneously connected with the air flow director (1) on the bottom side, and the segmented extension (4) is connected with the blower fan (5).The blower fan (5) constantly sends air to the director (1), through the segmented extension (4), distancing channel (3) and pulsator (2) directing the air towards a fruit shrub, thus shaking ripe fruits.In the course of the rotation of the pulsator (2) rotor (32), the pulsator (2) alternately sends air, in a single cycle, through the channels (6, 7 and 8), and then through the channels (9, 10 and 11) of the director (1), where the air flow leaving the pulsator (2) varies, achieving its power impact.It is possible to regulate the air blast power and speed over the connecting tube (78) by discharging part of the air which the blower fan (5) sends towards the director (1), into the atmosphere.The regulation is performed manually with the lever (81).Thus, regulation of the air blow power impact on a fruit shrub is obtained.When using the device for harvesting soft fruit, two devices are used simultaneously, positioned in such way that there is a row of shrubs between them.

Inventors

KOKANOVIC MOMCILO

KOKANOVIC MIODRAG

KOKANOVIC MARKO

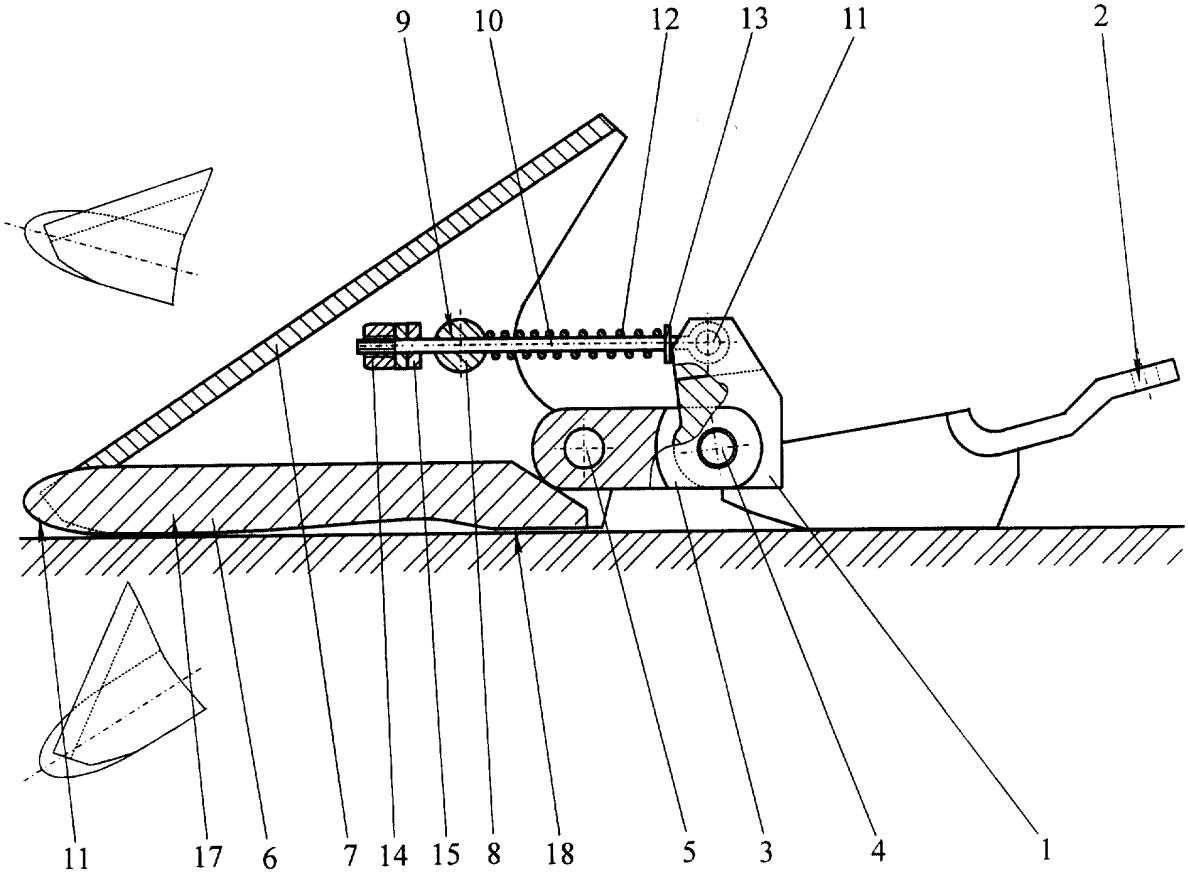
Family 496/667 - FAMPAT - ©Questel

Title

(RU--15832)

[steblepodemnik]

Images



Publication data including kind & date

RU15832 U1 2000-11-20 RU--15832

Abstract

(RU--15832)

1. Of [steblepodemnik], which includes the fixed on the cutting apparatus bracket with the established on it with the possibility of [peremeshcheni] before the vertical plane operating unit, in this case operating unit is connected with the bracket of elastic before the axial direction t goy, executed in the form of [sterzhn], spring-opposed by helical spring to [szhati] and connected with the bracket by cylindrical hinge, [otlichayushchiys] fact that the operating unit is established on the bracket through the intermediate component, in this case is telescopic t GA SV [zana] with the operating unit through bracing strut, placed on so on my, the parallel earth's surface, and the passage of [shchiy] through the center of the cylindrical hinge of telescopic t of [gi].

2. [Steblepodemnik] on [p].1, [otlichayushchiys] by the fact that the operating unit is executed in the form the seating shoe and the rigidly connected with it hoist, in this case bracing strut of elastic before the axial direction t [gi] is executed in the form the bushing, supplied for the sake of diametrical opening and fixed on the hoist with the possibility of turning.

3. [Steblepodemnik] on [p].2, [otlichayushchiys] fact that the helical spring to [szhati] it is established on the rod, in this case one end of spring contacts through the thrust washer with the bracket, and another - with the cylindrical surface of the bushing, fixed on the hoist, in this case down the screw end of [sterzhn] is screwed the nut, between end of which and cylindrical surface of bushing are established the compensating washers.

4. [Steblepodemnik] on paragraphs 1-3, [otlichayushchiys] by the fact that the intermediate component is executed in the form [sterzhn] with the cylindrical hinges against the ends, in this case one hinge is connected with the bracket, and another - with the hoist.

5. [Steblepodemnik] on any of paragraphs 2-4, [otlichayushchiys] fact that the shoe is executed in the form plate with radius front end and bearing surface, supplied for the sake of two protrusions with the arrangement of the first protrusion before the forward section of bearing surface, and the second - before the tail end.

6. [Steblepodemnik] on paragraphs 1-3, [otlichayushchiys] fact that the hoist is executed in the form stamped part of U-shaped form.

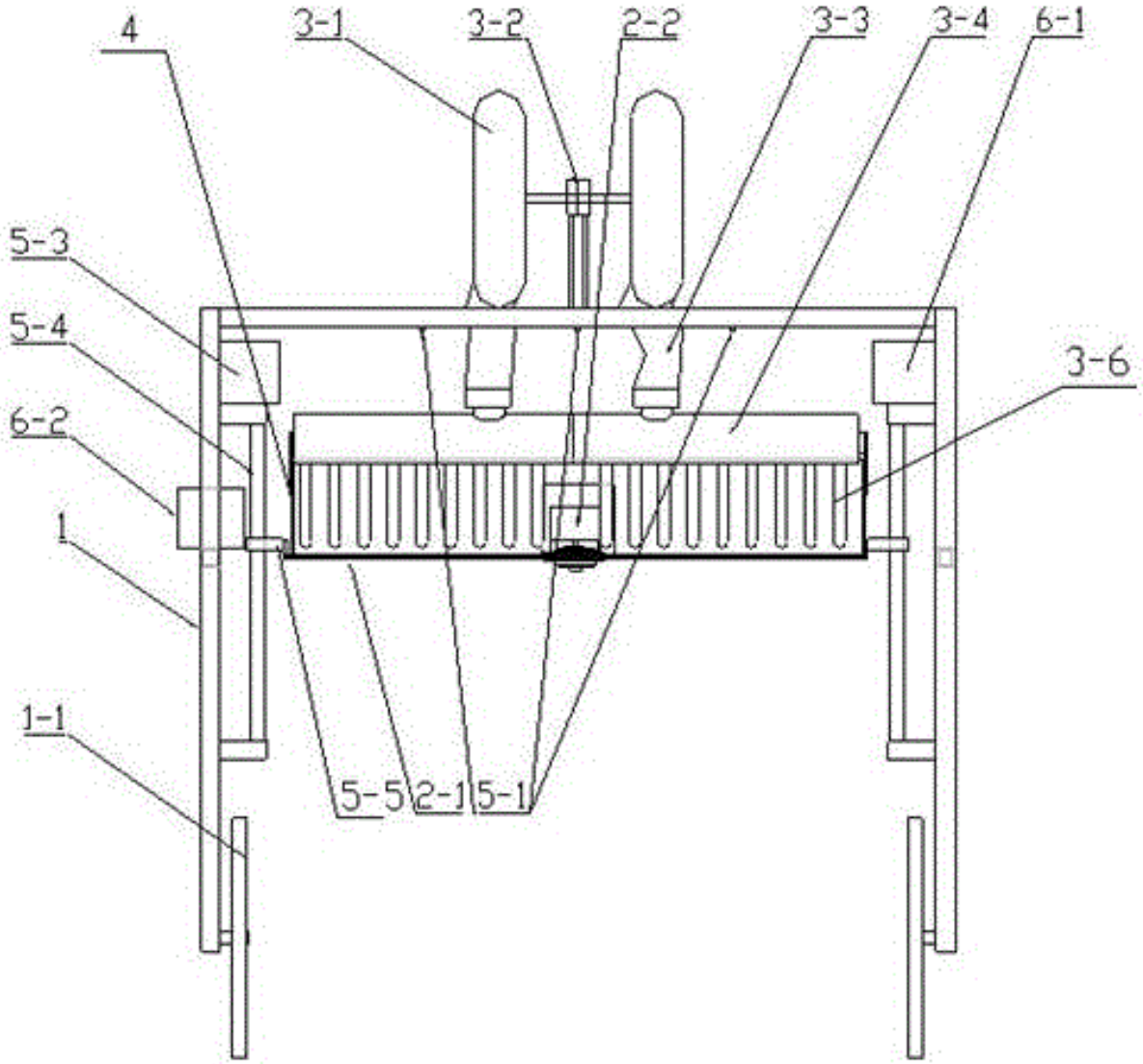
Family 497/667 - FAMPAT - ©Questel

Title

(CN104303706)

Intelligent tea leaf picking machine

Images



Publication data including kind & date

CN104303706	A	2015-01-28	CN104303706
CN104303706	B	2016-09-14	CN104303706B

Abstract

(CN104303706B)

The invention relates to an intelligent tea leaf picking machine and belongs to the technical field of agricultural machinery.The intelligent tea leaf picking machine comprises a machine frame, a tea leaf picking device, a tea green collecting device, a lifting device and a height adjusting device, wherein the lifting device is arranged at the end, far away from the advancing direction, of the machine frame and can lift along the inner side of the machine frame; the tea leaf picking device is fixedly arranged on the lifting device; the height adjusting device comprises a height sensor, a controller and an actuating motor; signal output ends of an ultrasonic sensor are respectively connected with signal input ends of the controller; a controlled end of the actuating motor is connected with a signal output end of the controller; the actuating motor is used for driving a lifting frame to lift.Due to the fact that the intelligent tea leaf picking machine has a tea tree young sprout height identifying function and can adaptively adjust the height of a cutter, the picking quality of the tea leaf picking machine is improved.

Inventors

Xiaohong Ru
HAN YU
SONG ZHIYU
DING WENQIN
MEI SONG

Latest standardized assignees - inventors removed

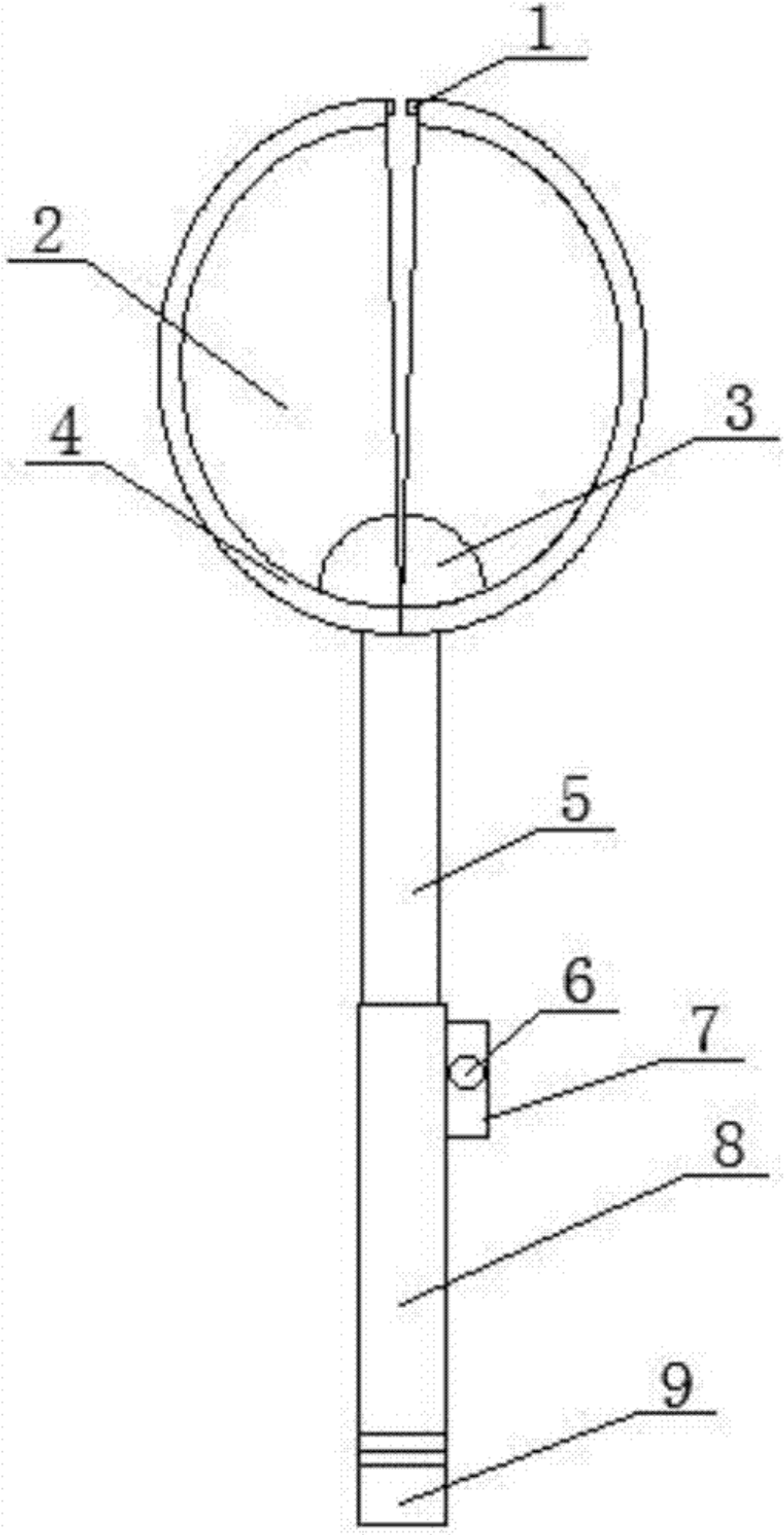
NANJING RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION MINISTRY OF AGRICULTURE OF THE PEOPLE S REPUBLIC OF CHINA

Family 498/667 - FAMPAT - ©Questel

Title

(CN207733262U)
Kiwi fruit is planted and is picked device

Images


1
2
3
4
5
6
7
8
9

Publication data including kind & date

CN207733262 U 2018-08-17 CN207733262U

Abstract

(CN207733262U)

The utility model discloses a kiwi fruit is planted and is picked device, including the control lever, the low side of control lever is equipped with the controller of connecting through the stay cordthat opens and shuts, the inside of control lever is equipped with the telescopic link through the parcel mode, control lever outside top is equipped with the solid fixed splint of integral type, just gu fixed splint's center is equipped with the bolt hole of integral type, gu fixed splint's one end is equipped with the solid fixed ring of integral type, the top of telescopic link is equipped with the harvesting box of integral type, the utility model discloses be equipped with the piece that blocks of four mutual correspondences in the top of picking the box, can avoid picking the box and clip the rattan branch when closed to cause irreversible injury to the rattan branch when pulling, the utility model discloses being equipped with cotton products on the inner wall of picking the box, can absorbing the moisture on kiwi fruit surface at the in -process of harvesting, the surface cell who prevents the kiwi fruit causes mechanical damage because of being stained with the water inflation, or even the cause and effect skin is moist, does benefit to the bacterium parasitism and infects, arouses mashed fruit.

Inventors

ZHANG DAOGAO

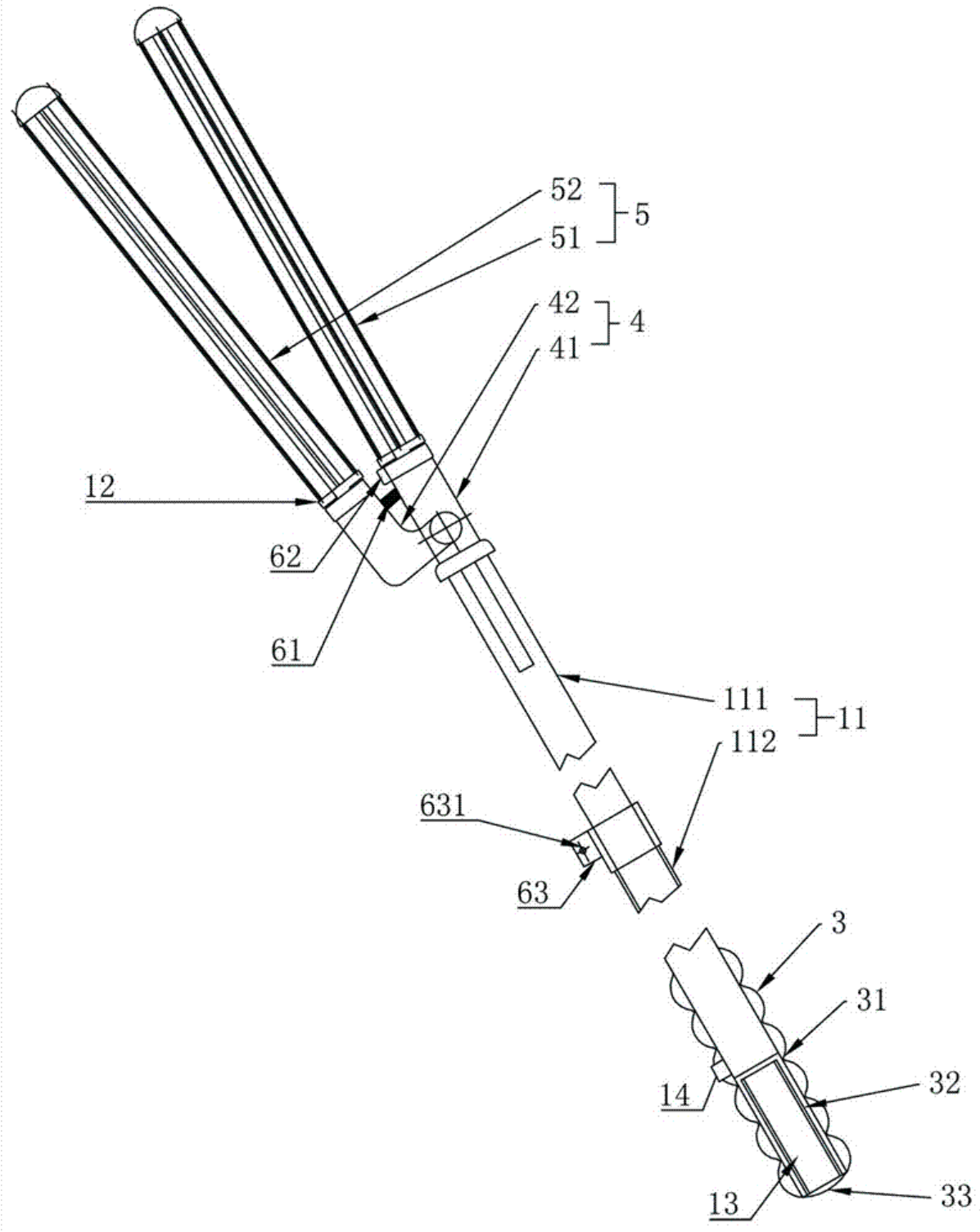
Family 499/667 - FAMPAT - ©Questel

Title

(CN106922299)

Hickory fruit harvesting machine

Images



Publication data including kind & date

CN106922299 A 2017-07-07 CN106922299

Abstract

(CN106922299)

The invention discloses a hickory fruit harvesting machine.When the hickory fruit harvesting machine disclosed by the invention is used for picking the hickories, branches need not to be knocked to enable the hickories to fall off, and a control switch is pressed down, so that a first roller and a second roller clamp the branches and a flexible rod is pushed, so that the first roller and the second roller shift; and the rollers further roll while shifting to extrude the hickories on the branches.A collecting device is placed under a hickory tree, the hickories fall onto a tarpaulin, a collecting bag is arranged at the inclined end of the tarpaulin, and the hickories will slide down as the tarpaulin is obliquely laid down and slide into the collecting bag, and people can directly take away the collecting bag, so that the hickory fruit harvesting machine is quite fast and convenient.An inner tube and an outer tube of the flexible rod are arranged, so that the length of the flexible rod can be adjusted, and therefore, picking staff can pick the hickories far and near.

Inventors

XU LIJUN

XING JUNWANG

Latest standardized assignees - inventors removed

ZHEJIANG AGRICULTURE AND FORESTRY UNIVERSITY

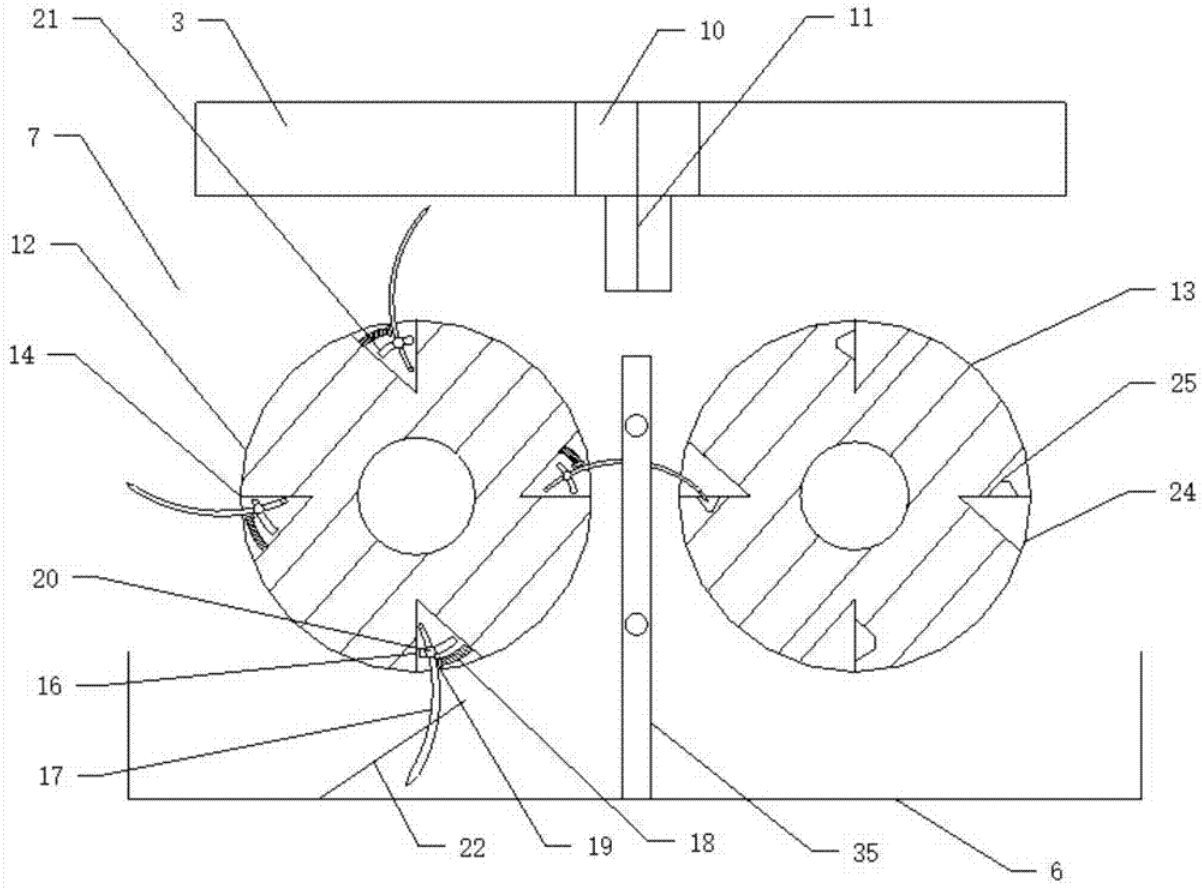
Family 500/667 - FAMPAT - ©Questel

Title

(CN105474862)

Clay soil peanut harvesting separator

Images



Publication data including kind & date

CN105474862	A	2016-04-13	CN105474862
CN107155501	A	2017-09-15	CN107155501
CN107155502	A	2017-09-15	CN107155502
CN105474862	B	2017-11-10	CN105474862B

Abstract

(CN105474862B)

The invention discloses a clay soil peanut harvesting separator.The harvesting separator comprises a separator body, and an elevating device which is arranged on the separator body and ascends in an inclined mode.The harvesting separator is characterized in that a peanut separator is arranged under the elevating device, the peanut separator and a rack mutually clamp peanut seedlings, the peanut separator comprises a driving separating wheel and a driven separating wheel, the driving separating wheel and the driven separating wheel are each provided with 3-6 rows of grooves a and grooves b corresponding mutually, the two sides of each groove a each comprise one retaining edge, the two sides of each groove b each comprise one retaining edge, a rod a and a rod b connected with the retaining edges at the two sides of the corresponding groove a are arranged in each groove a, the rods a and the rods b comprise separating rods with the number larger than 6, the two sides of the corresponding center position of the driving separating wheel and the driven

separating wheel are each provided with one pressing plate, and the pressing plates correspond and extrude the separating rods.The harvesting separator is simple in structure, and capable of effectively separating peanuts in clay soil, so that the harvesting efficiency of the peanuts in the clay soil is further improved.

Inventors

ZUO CHANGLIANG

Latest standardized assignees - inventors removed

HEXIAN LYVYUAN VEGETABLE PLANTING

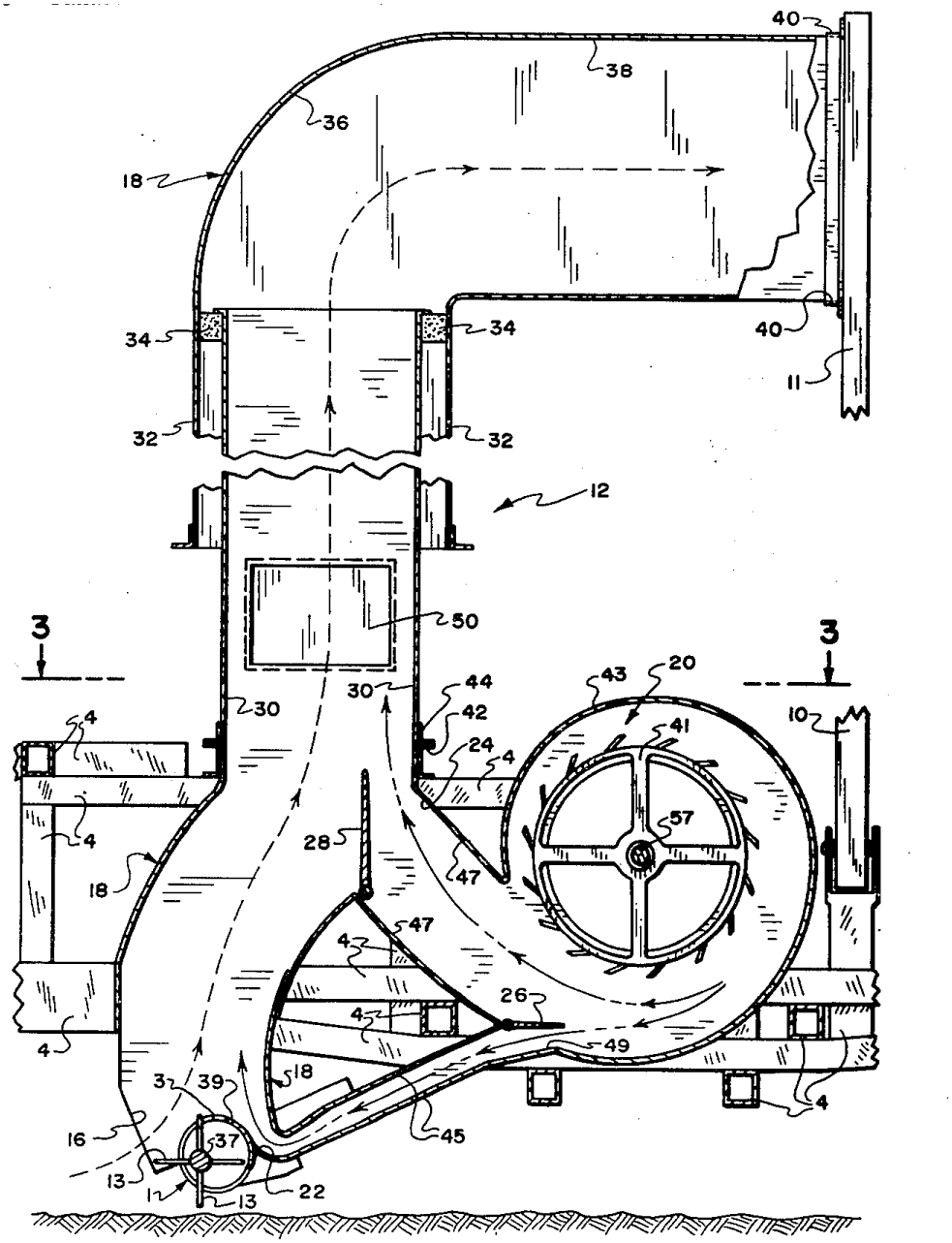
Family 501/667 - FAMPAT - ©Questel

Title

(US3898786)

Air delivery foliage wagon

Images



Publication data including kind & date

US3898786 A 1975-08-12 US3898786

Abstract

(US3898786)

An air delivery wagon for foliage crops wherein air under pressure is created at a source with flow of pressurized air being directed along one or both of two channels communicating respectively with the foliage influent end and a site well above the influent end of a generally vertically extending telescopic chute, which chute discharges foliage from an elevated site into a receptacle comprising the bed of the wagon.The chute telescopically expands and contracts with the elevating and lowering of a compactor in respect to a stack of foliage or crop on the bed of the wagon.Dampers are used to control how much, if any of the air is discharged along either channel.The chute is substantially the full width of the wagon extending generally vertically directly above the foliage pick up site, allowance being made for gradual expansion of the cross sectional area of the chute for improved leaf retention and air flow.

Inventors

LUNDAHL EZRA CORDELL

Latest standardized assignees - inventors removed

LUNDAHL

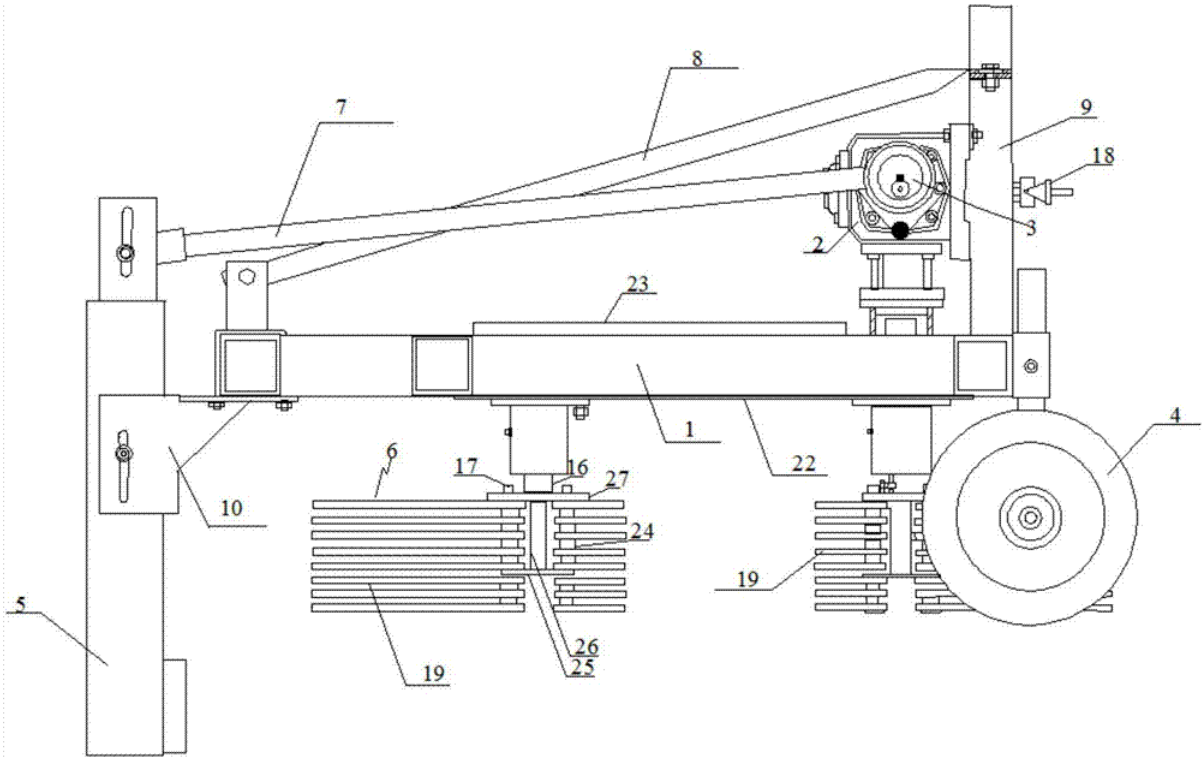
Family 502/667 - FAMPAT - ©Questel

Title

(CN106900262)

Harvesting machine of sugar beets and carrots

Images



Publication data including kind & date

CN106900262 A 2017-06-30 CN106900262

Abstract

(CN106900262)

The invention provides a harvesting machine of sugar beets and carrots, belongs to the technical field of harvesting machines, and aims to solve the problems that the labor intensity is large, the efficiency is low and the machine operation is single during removing stem leaves and digging root tubers when the sugar beets and the carrots are harvested.A suspension rack is arranged on the middle part of a front cross beam of a rack; a three-axis gearbox is arranged behind the suspension rack, an input shaft of the three-axis gearbox is connected with a telescopic universal shaft and an output shaft of the three-axis gearbox is respectively connected with a shaft of a driving double-sprocket and an eccentric wheel; a machine bottom and a machine cover are arranged on the bottom surface of the front middle part of the rack and the upper surface of the rack to form a sprocket box body; the driving double-sprocket is arranged at the front end of the inner part of the sprocket box body; two driven sprockets are arranged on two sides of the rear of the inner part of the sprocket box

body; a digging shovel connecting base is connected with two sides of a rear cross beam, and the middle of the rear cross beam is connected with the digging shovel connecting base; two ends of a draw rod are respectively connected with the eccentric wheel and the upper end of a digging shovel connecting pipe; two ends of a support rod are respectively connected with the upper part of the suspension rack and the rear cross beam; rotating shafts of three tassel sweeping devices are respectively connected with a rotating shaft of the driving double-sprocket and rotating shafts of the two driven sprockets; two ground wheels are respectively arranged on two sides of the front cross beam.

Inventors

LI YONGLU

HE DE

Latest standardized assignees - inventors removed

DATONG CITY MECHANIZED AGRICULTURAL ECOLOGICAL PROJECT EXPERIMENTAL MANAGEMENT STATION

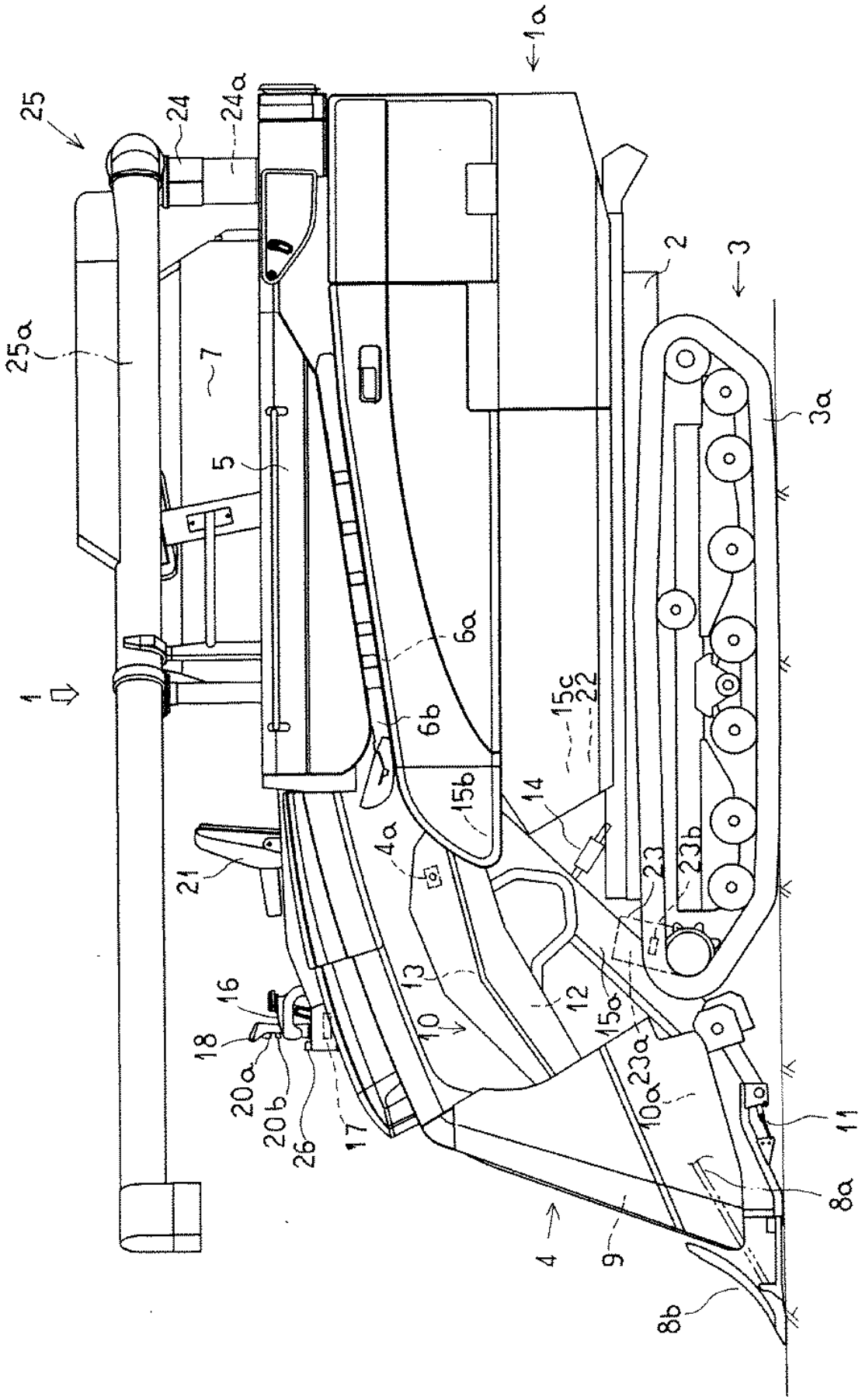
Family 503/667 - FAMPAT - ©Questel

Title

(JP2008054551)

Combine

Images



Publication data including kind & date

JP2008054551 A 2008-03-13 JP2008054551

Abstract

(JP2008054551)

PROBLEM TO BE SOLVED: To improve the working efficiency of a combine by making its movement as small in the

vicinity of descended position of a reaping part conveying the cereal culms after the reaping in rear directional upper part, for reducing an inconvenience such that the reaping part thrusts into the surface of a field on its fine tuning.

SOLUTION: This combine is provided by installing an ascending operation switch 20a and a descending operation switch 20b for performing the lifting up and down operation of the reaping part 4 on a steering lever 18 and a controlling device 17 for outputting an ascending output or a descending output for a prescribed time to an actuator 14 side for driving the lifting up and down of the reaping part 4, and regulating the descending output time on descending the reaping part 4 at a lower side position than the set position as a shorter time than the descending output time for descending the reaping part 4 at an upper side position than the set position.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

MATSUZAWA HIROKI
YOSHIMURA FUMIO
KITAGAWA TOMOSHI
ISHIGA WAHEI
ITO KOJI
MIYAKE TATSUYA
UEKA IKURO
KOREHISA MASAKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

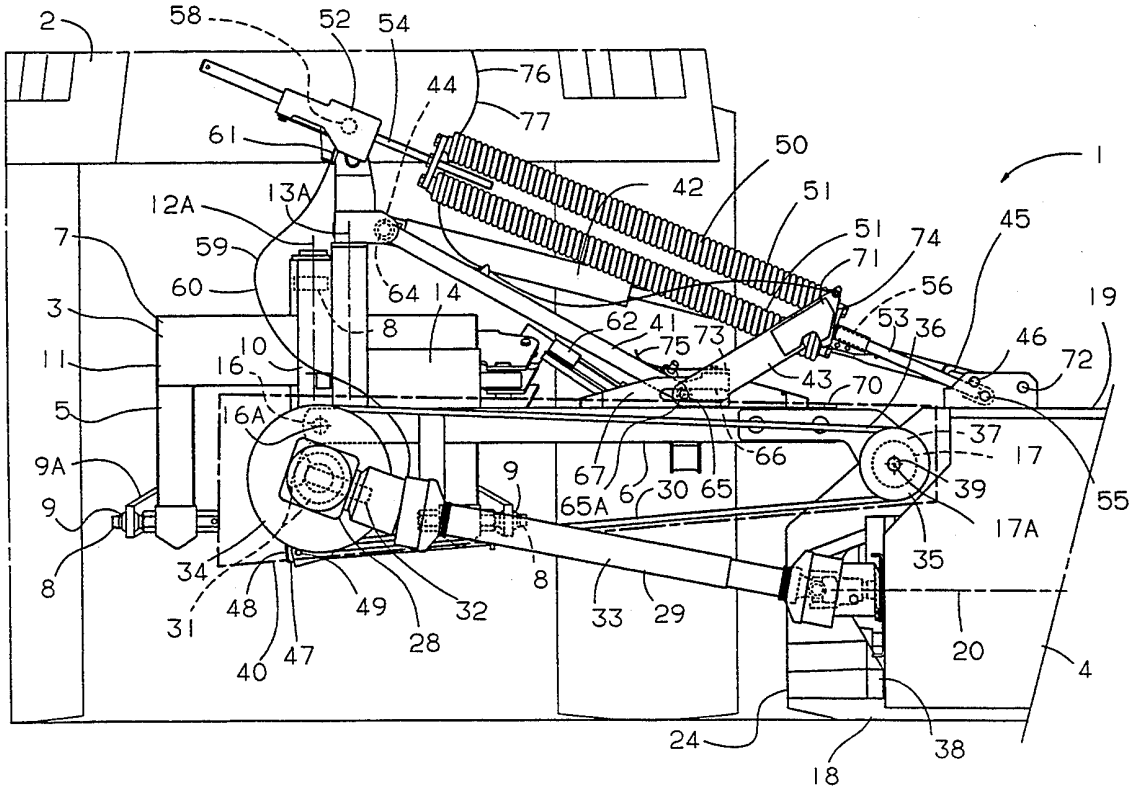
Family 504/667 - FAMPAT - ©Questel

Title

(EP-556143)

Mower with an improved locking device

Images



Publication data including kind & date

FR2687039	A1	1993-08-13	FR2687039
EP0556143	A1	1993-08-18	EP-556143

JPH0614631	A	1994-01-25	JP06014631
FR2687039	B1	1994-04-29	FR2687039
US5353580	A	1994-10-11	US5353580
EP0556143	B1	1997-07-23	EP-556143
AT155640	T	1997-08-15	ATE155640
DE69312343	D1	1997-09-04	DE69312343
ES2105187	T3	1997-10-16	ES2105187
DE69312343	T2	1998-02-19	DE69312343
DK0556143	T3	1998-03-02	DK-556143T
JP3209374	B2	2001-09-17	JP3209374

Abstract

(EP-556143)

The invention relates to a mower.According to the invention, the mower is characterised in that during working the limiter (41) is connected, on the one hand, to the hitching structure (5) by means of an articulation (64) having a geometric axis which is at least substantially parallel to the geometric axis (16A) of the first articulation (16), whereas on the other hand, the said limiter (41) is connected slidingly or the like with respect to the support beam (6), and in that for the purpose of transport, the sliding connection or the like of the said limiter (41) may be blocked with respect to the support beam (6) by means of the locking device (43) used to lock the cutting mechanism (4) in its raised transportation position. <IMAGE>

Inventors

WOLFF MICHEL

Latest standardized assignees - inventors removed

KUHN

Family 505/667 - FAMPAT - ©Questel

Title

(US2780903)

Platform adjusting means for sidehill harvesters

Images

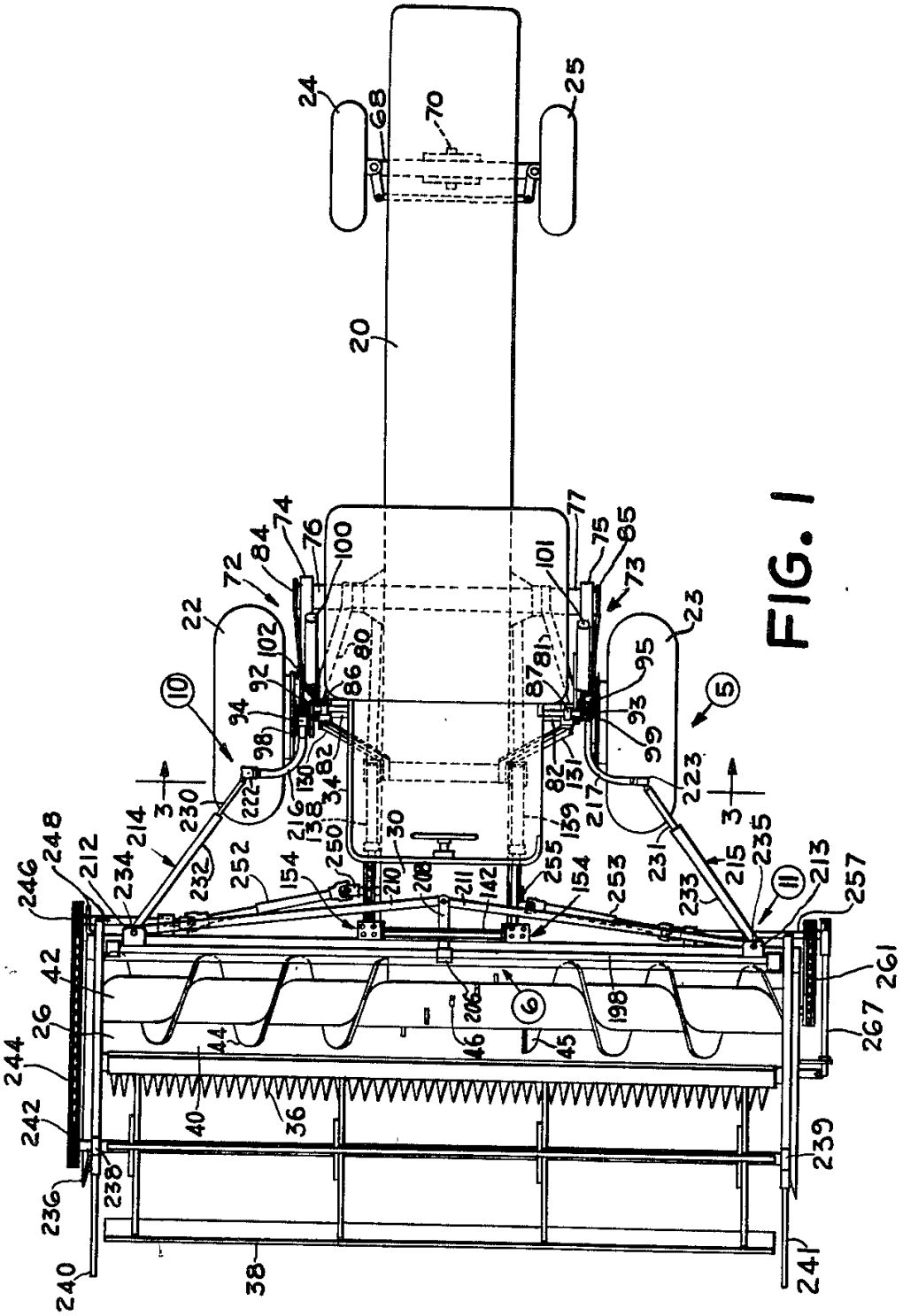


FIG. 1

INVENTORS
EVERETT R. KROLL &
FRANK FARBER
BY
C. L. Parker and Smith
ATTORNEYS

Publication data including kind & date

US2780903	A	1957-02-12	US2780903

Inventors

KROLL EVERETT R

FRANK FARBER

Latest standardized assignees - inventors removed

DEERE

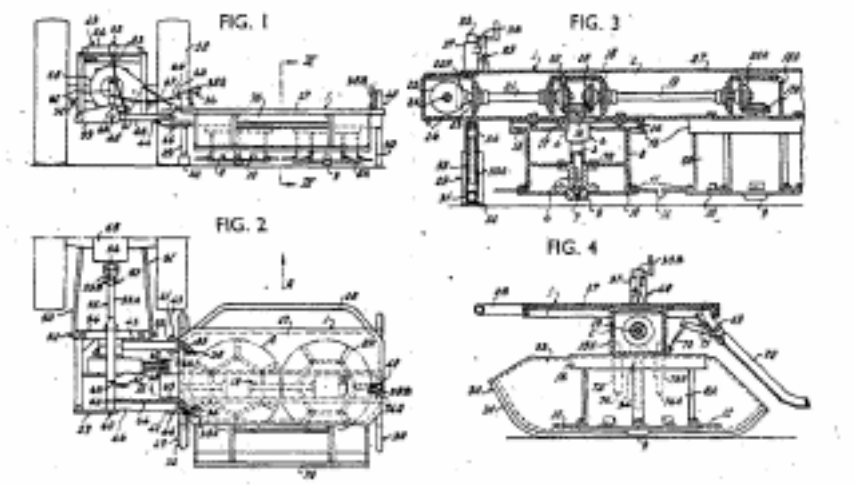
Family 506/667 - FAMPAT - ©Questel

Title

(GB1248413)

Improvements in or relating to mowing machines

Images



Publication data including kind & date

NL6716349	A	1969-06-03	NL6716349
DE1809393	A1	1969-08-14	DE1809393
FR1593683	A	1970-06-01	FR1593683
GB1248413	A	1971-10-06	GB1248413

Abstract

(FR1593683)

1,248,413. Mowing machine.BRITISH LELY Ltd. 25 Nov., 1968 [1 Dec., 1967], No. 55841/68.Headings A1F and A1P.A mowing machine for mounting on a tractor having a three-point-hitch comprises a frame 1, two cutter drums 8, 8a each carrying knives 12 and rotatable about substantially vertical axes and two supports 29, 30 for the frame which extend parallel to the direction of travel and contact the ground at opposite sides of the cutters, one of the supports 29, being infinitely adjustable vertically to position the support relative to the frame.In use, the frame I is coupled to the lower links 50, 51 of the three-point-hitch by means of pins 52 while the upper link is replaced by the telescopic rod 55 of the implement.Section 55A of rod 55 is secured to beam 54 and section 55B has a bearing 56 for connection to the remainder of the tractor lifting device 58.A pin 57 may be passed through holes in both portions to fix variably the length of the rod.The tractor p.t.o. is coupled to the pulley, belt, and gear-wheel drive of the cutter drums 8, 8a which contra-rotate to leave a central swath guided by the sprung plate 70.Supports 29, 30 slide over the ground and are adjusted in height by spindles 35, 36, 40 which may be held against turning by sprung stops 38, 38A, 38B.Supports 29 (the one nearer the tractor) has a broad shoe 32 to reduce ground pressure.Due to the infinite adjustment of the spindles the main mower beam 2 may be tilted about several axes.The implement may be brought to a transport position by raising rod 55 which, via chain 63, arm 61, arm 62 and chain 64 raises the mower about the axis of pins 43, 44.

(From GB1248413 A)

Inventors

EDWARD SPINDLER JOHN

Latest standardized assignees - inventors removed

BRITISH LELY FORMERLY BLAN

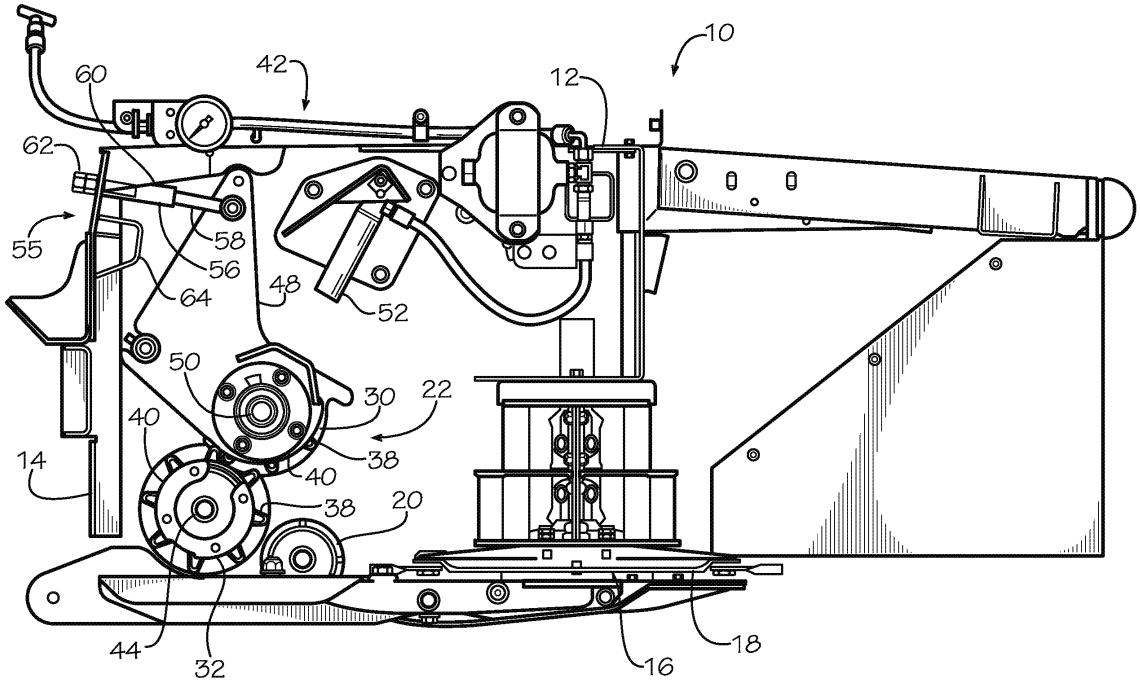
Family 507/667 - FAMPAT - ©Questel

Title

(EP3148310)

Hydraulic conditioner roll tension in pull-type mower conditioner

Images



Publication data including kind & date

CA2949065	A1	2015-12-03	CA2949065
WO2015183532	A1	2015-12-03	WO2015183532
AU2015267488	A1	2016-12-15	AU2015267488
US20170079209	A1	2017-03-23	US20170079209
EP3148310	A1	2017-04-05	EP3148310
US9648809	B2	2017-05-16	US9648809
CA2949065	C	2017-07-18	CA2949065
EP3148310	B1	2018-07-04	EP3148310
AU2015267488	B2	2018-11-01	AU2015267488

Abstract

(EP3148310)

A pull-type mower conditioner (10) includes a crop cutting assembly (16) that severs crop material from the ground and a lift mechanism (24) configured to raise and lower the crop cutting assembly to a desired height having at least one lift cylinder (26) and a hydraulic lift circuit (28) supplying hydraulic fluid to the at least one lift cylinder.The mower conditioner also includes a conditioning mechanism (22) receiving the severed crop material from the crop cutting assembly.The conditioning mechanism includes a pair of counter-rotating conditioning rolls (30,32) to condition the crop material and a tensioning assembly (42) that urges the conditioning rolls relatively toward one another and resists their separation.The tensioning assembly includes a pair of hydraulic tension cylinders (52,54) and a hydraulic conditioner circuit (70) configured to supply hydraulic fluid to the tension cylinders.The hydraulic tension circuit has a supply line (72) leading to a supply valve (74), wherein the supply line connects to the lift circuit.

Inventors

PRUITT MARTIN E

TREFFER DOUGLAS RAY

BOLLINGER SHANE A

Latest standardized assignees - inventors removed

AGCO

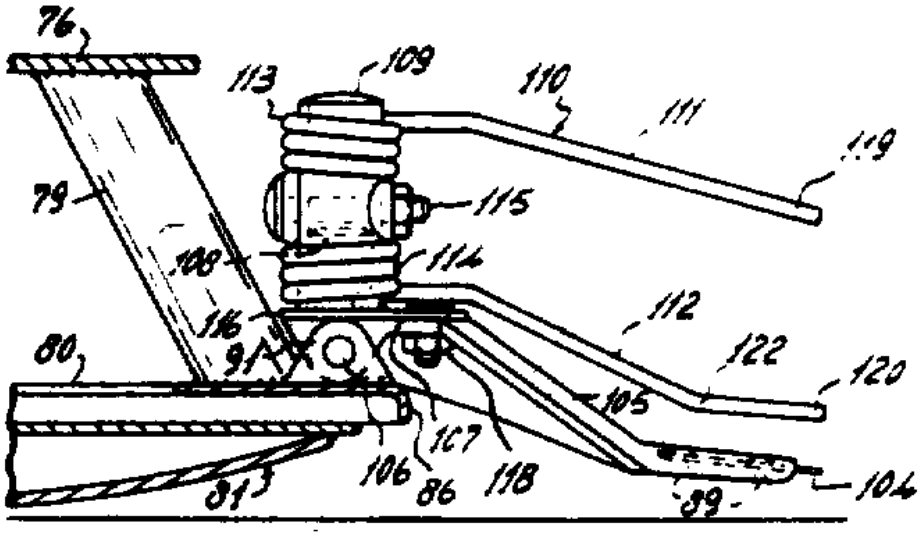
Family 508/667 - FAMPAT - ©Questel

Title

(FR2582902)

Device for working plants located on the ground

Images



Publication data including kind & date

NL7305170	A	1974-10-15	NL7305170
DE2418210	A1	1974-10-24	DE2418210
FR2225076	A1	1974-11-08	FR2225076
GB1472124	A	1977-05-04	GB1472124
GB1472123	A	1977-05-04	GB1472123
GB1472122	A	1977-05-04	GB1472122
NL7803070	A	1978-07-31	NL7803070
FR2225076	B1	1980-03-14	FR2225076
FR2450553	A1	1980-10-03	FR2450553
NL8006522	A	1981-03-31	NL8006522
NL169814	B	1982-04-01	NL-169814
FR2496404	A1	1982-06-25	FR2496404
NL172294	B	1983-03-16	NL-172294
DE2418210	C2	1985-04-11	DE2418210
NL172294	C	1985-05-17	NL-172294
NL169814	C	1985-07-16	NL-169814
FR2575897	A1	1986-07-18	FR2575897
FR2496404	B1	1986-08-01	FR2496404
NL180064	B	1986-08-01	NL-180064
FR2582902	A1	1986-12-12	FR2582902

Abstract

(FR2582902)

Rotary mower, in which the mowing rotors are carried by an arm 3, itself articulated on another arm 4 likewise articulated on a transverse fastening arm 1, carried by the three-point linkage of the tractor in such a way that the arms 3 and 4 can be pivoted at 180 DEG . <IMAGE>

Inventors

LELY CORNELIS VAN DER

Latest standardized assignees - inventors removed

C VAN DER LELY

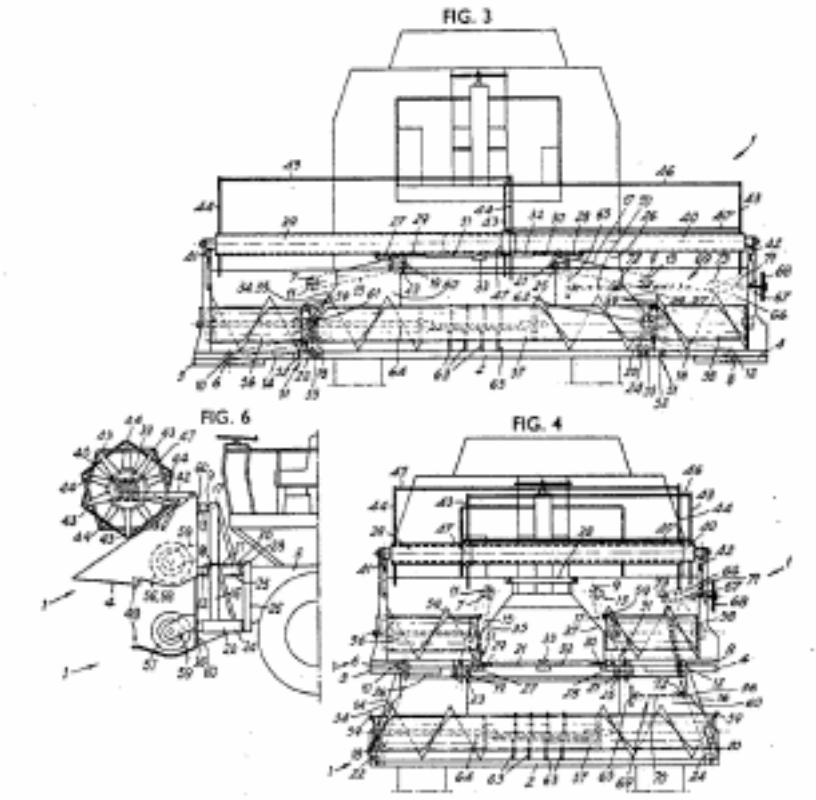
Family 509/667 - FAMPAT - ©Questel

Title

(GB1275492)

Improvements in or relating to harvesting machines

Images



Publication data including kind & date

BE733926	A	1969-12-02	BE-733926
NL7007280	A	1970-12-04	NL7007280
DE2026190	A1	1970-12-23	DE2026190
FR2052469	A5	1971-04-09	FR2052469
GB1275492	A	1972-05-24	GB1275492
ES380297	A1	1972-09-01	ES-380297

Abstract

(FR2052469)

1275492 Headers CLAYSON NV 2 June 1970 [2 June 1969] 26509/70 Heading A1F A retractable header 1 comprises three portions 2, 3, 4 the two outer or side portions 3, 4 being able to move relative to the central portion 2, whilst keeping at all times the portions 3, 4 substantially in the same relative orientation from a working position (Fig. 3) to a stowed position (Figs. 4, 6) and vice versa.Side portions3, 4 are provided with sleeves 10, 11 and 12, 13 respectively in which are located shafts 6, 7 and 8, 9 which bear at one end bars 14, 15 and 16, 17 attached to sleeve bearings 18, 19 and 20, 21 mounted on shafts 22 to 25 these being secured to the lifter housing 5 and/or central portion 2, thus forming two

parallelogram systems one for each portion, 3, 4.Sleeves 19 and 21 are turned by operating hydraulic cylinders 31, 32 to raise or lower the portions 3, 4 which when in the stowed position, Figs. 4, 6 are held in position by bar 38.The feed auger 56 to 58 and the cutter bar 48 are also in three portions the former having at the junctions additional supports 59 containing bearings and the latter having serrated ends at the junctions which interlock with the adjacent ends said portions being then clamped together.The reel is telescopic its spokes 43 of part 40 offset to spokes 44 of part 39 so that interconnecting rods 46, 45 do not collide.Spokes 43 radiate from a sleeve 47 slidably mounted on tube 39.Two portions 39, 40 are preferably non-circular in section but are coupled if they have a circular cross-section.These various components are driven by a permanently-connected drive means comprising a telescopic shaft 69 with universal joints.

(From GB1275492 A)

Inventors

COENE FRANS JOZEF DE

Latest standardized assignees - inventors removed

CLAYSON

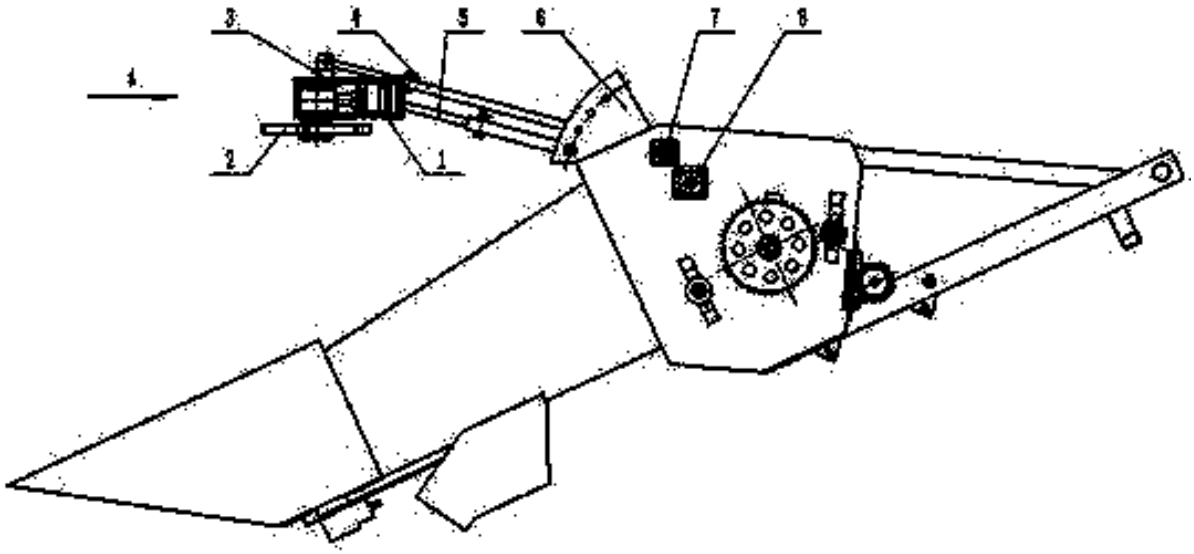
Family 510/667 - FAMPAT - ©Questel

Title

(CN104115619)

Grain supporting device of machine for harvesting maize in not opposite lines

Images



Publication data including kind & date

CN104115619 A 2014-10-29 CN104115619

Abstract

(CN104115619)

The invention relates to a grain supporting device of a machine for harvesting maize in not opposite lines.The grain supporting device comprises grain supporting wheels, a power drive device, a machine base, a machine base upper branch arm, a machine base lower branch arm, a fan-shaped positioning plate, an upper branch arm support shaft and a lower branch arm support shaft and is characterized in that the power drive device is mounted on the machine base, and an output shaft of the power drive device is connected with the grain supporting wheels; the machine base, the machine base upper branch arm, the machine base lower branch arm, the upper branch arm support shaft and the lower branch arm support shaft form a parallel four-bar mechanism so as to guarantee that a grain supporting shaft is perpendicular to the ground or forms a front and back inclined angle with the forward direction of the machine; up and down as well as front and back position adjustment of the grain supporting wheels is realized by adjusting the machine base upper branch arm, the machine base lower branch arm and the fan-shaped positioning plate; the grain supporting device of the machine for harvesting maize in not opposite lines is correspondingly mounted above cobs picked by a header of the maize harvesting machine.Compared with the prior art, the structure is simple, the cob loss problem caused by lodging of cut maize stalks is

effectively solved, and the reliability of the machine for harvesting maize in not opposite lines is greatly improved.

Inventors

ZHANG DAOLIN

BU LINGXIN

CUI MENG

Latest standardized assignees - inventors removed

SHANDONG UNIVERSITY OF TECHNOLOGY

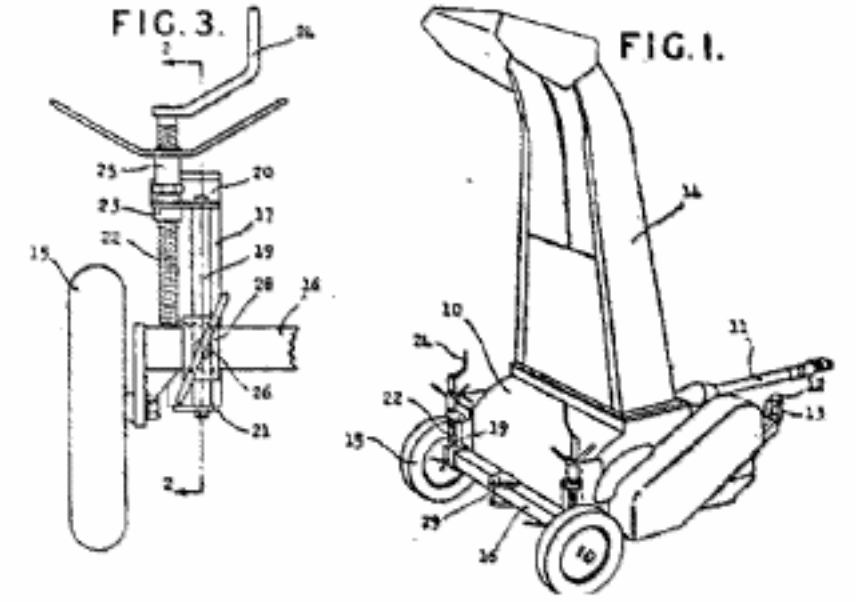
Family 511/667 - FAMPAT - ©Questel

Title

(GB-841395)

An improvements in or relating to harvesting machines

Images



Publication data including kind & date

GB841395 A 1960-07-13 GB-841395

Abstract

(GB-841395)

841,395. Forage harvesters.HARRISON, McGREGOR & GUEST Ltd.March 2, 1959 [Dec. 19, 1957], No. 39420/57.Class 6(3).In a forage-harvester having a power-driven shaft carrying flails which cut and lacerate the crop, the ground-wheels have both fine and coarse adjustments for height relative to the machine frame.The flails are mounted within a part-cylindrical housing 10 to which is connected a discharge shoot 14, and, as shown, the wheels 15 are mounted at the ends of a beamaxle 16 adjustably supported at both ends by supporting members attached to the sides of the housing 10.Each supporting member, Fig. 3, comprises a plate 17 having spaced holes by which it can be bolted in various alternative positions to the housing 10 to give a coarse height-adjustment.The beam 16 is slidable along a pillar 19 carried by the plate 17 and is adjustable by a screw 22 which bears on the beam 16, the latter being clamped to the pillar 19 by a stirrup 28 in any adjusted position.

Inventors

MEADOWCROFT FRED

Latest standardized assignees - inventors removed

HARRISON MCGREGOR & GUEST

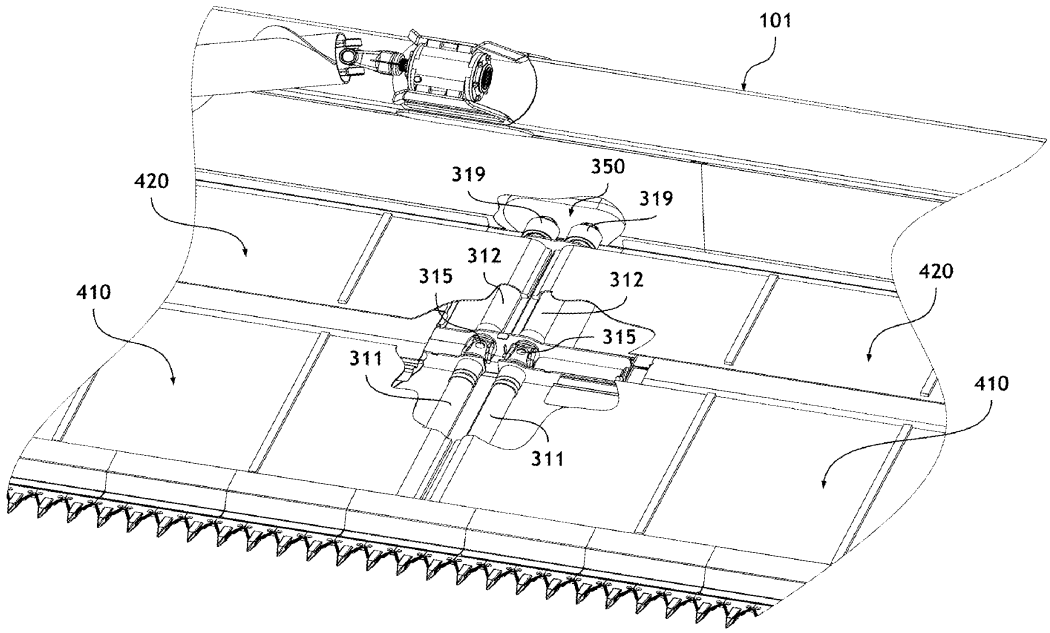
Family 512/667 - FAMPAT - ©Questel

Title

(US9402343)

Flexible cutterbar assembly for a harvesting platform

Images



Publication data including kind & date

BR102016009056	A1	2016-05-03	BR102016009056
US9402343	B1	2016-08-02	US9402343
BR102016009056	A2	2016-10-25	BR102016009056

Abstract

(US9402343)

The present invention relates to a flexible agricultural platform characterized by having a plurality of support arms constructed especially composed of multiple sections hinged together, arranged to hold the cutterbar assembly.The set of multiple-beam pivoting arms used to hold the cutting mechanism of a draper conveyor type agricultural platform on multiple support points evenly distributed across the width of the main frame, and in a manner to admit the cutterbar to flex along its width—without intermediate rigid sections—in response to changes in the curvature of field while the platform is advanced.

Inventors

ALLOCHIS JOSE LUIS

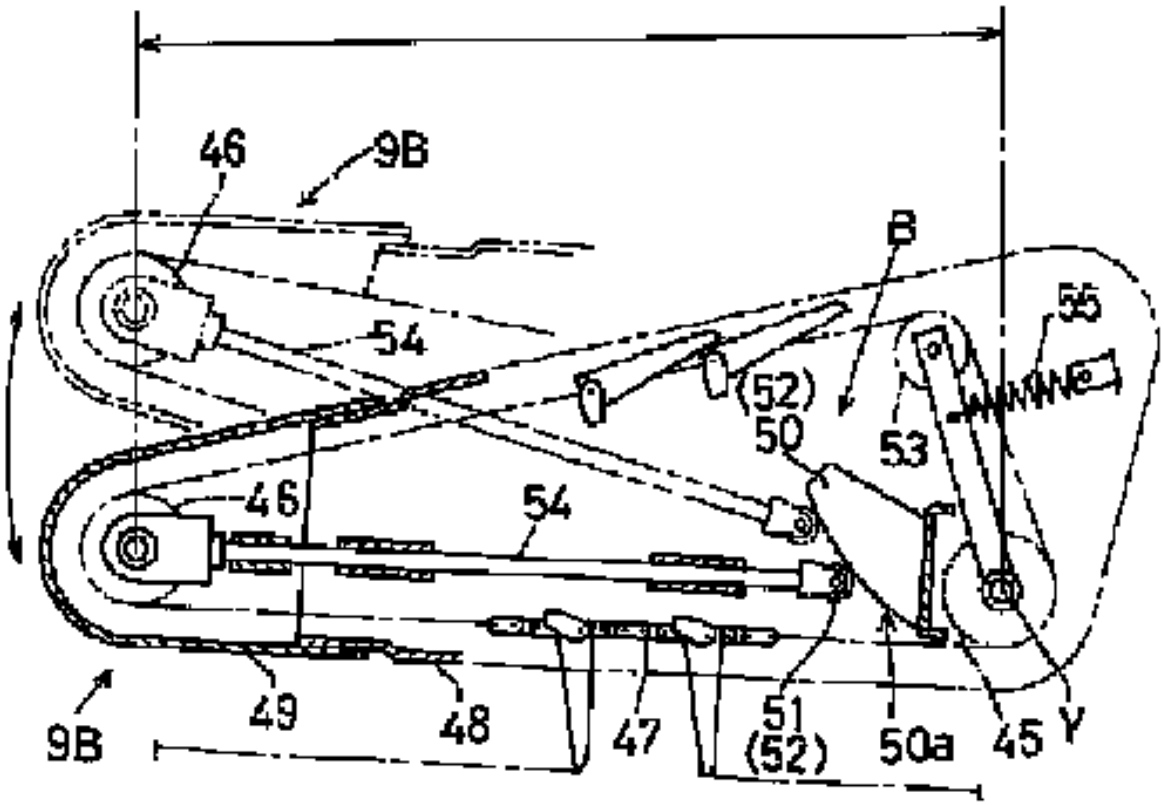
Family 513/667 - FAMPAT - ©Questel

Title

(JP11299329)

Apparatus for laterally shifting reaping part of combine

Images



Publication data including kind & date

JPH11299329	A	1999-11-02	JP11299329
JP3391698	B2	2003-03-31	JP3391698

Abstract

(JP3391698)

PROBLEM TO BE SOLVED: To improve the dimensional accuracy and maintainability of a transfer length varying mechanism of a longitudinal transfer apparatus having excellent culm delivery performance.SOLUTION: A reaping part is connected to a mobile machine body in a state freely liftable and swivelable around a lateral axis, a raising apparatus and a reaping apparatus are made to be slidable in lateral direction relative to the mobile machine body and a longitudinal transfer apparatus is pivoted in a state freely swivelable in lateral direction around a supporting axis Y of a transfer end and

synchronously swiveling with the lateral sliding motion of the raising apparatus.In a lateral sliding apparatus for a reaping part of a combine having the above construction, an ear-top holding and transferring mechanism 9B is provided with a transfer length varying mechanism B to enable the forward and backward shift of the transfer action front position of the ear-tip holding and transferring mechanism 9B.The transfer length varying mechanism B is interlocked in a state to energize the mechanism B according to the lateral sliding motion of the raising apparatus in a manner to decrease the change of the gap between the transfer action front end position and the raising apparatus.

Inventors

YUGAWA MASAHIKO

HIDA SADANORI

Latest standardized assignees - inventors removed

KUBOTA

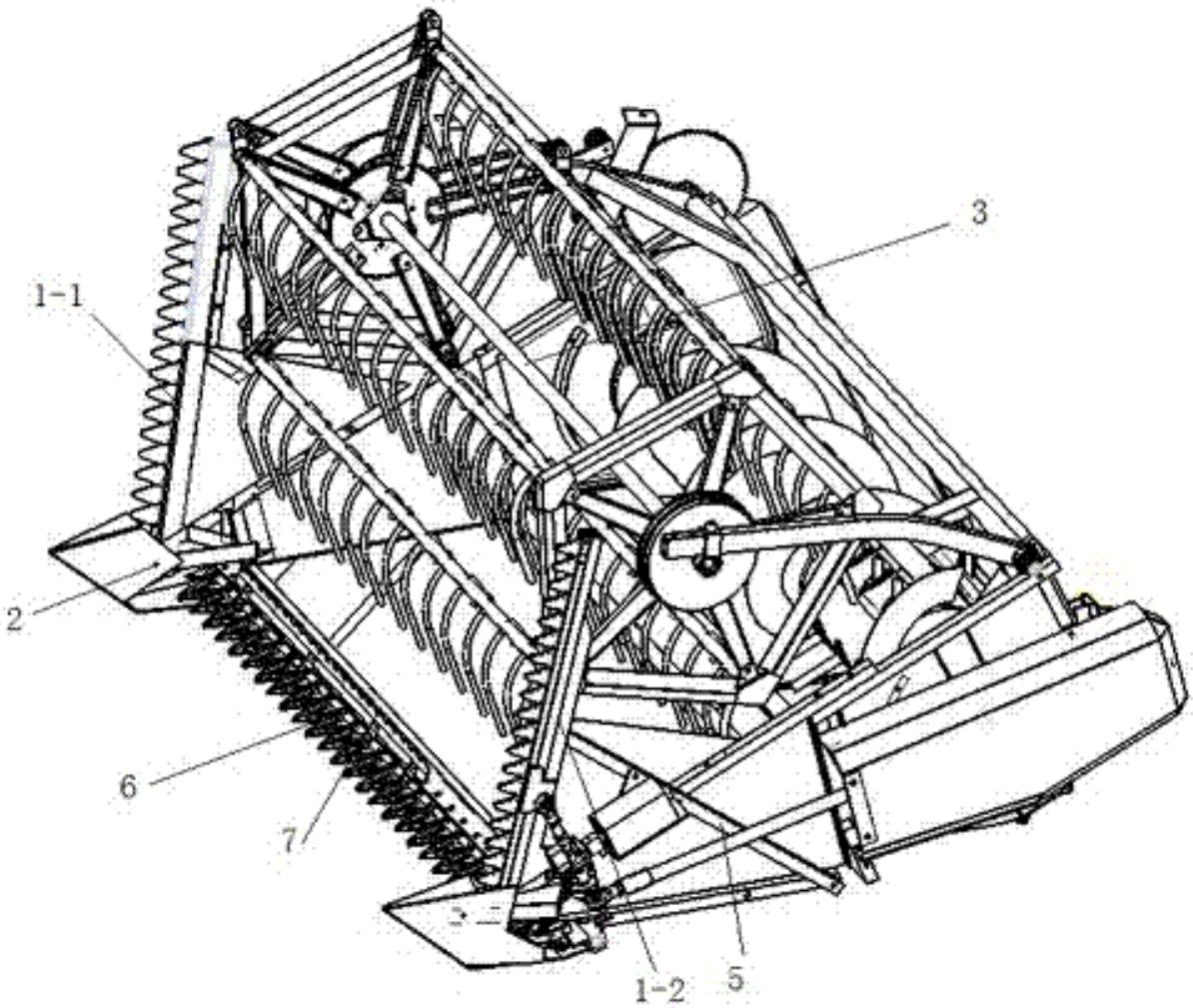
Family 514/667 - FAMPAT - ©Questel

Title

(CN108496540)

Low-loss rape cutting station

Images



Publication data including kind & date

CN108496540 A 2018-09-07 CN108496540

Abstract

(CN108496540)

The present invention relates to low loss in the cutting station nap, comprising a cutting table frame, which is provided below the floor before the cutting station cutting station racks, the floor is provided with a primary cutter cutting station, after the reel is mounted above the cutting table of the gantry, each end of the primary cutters mounted with a 1st 2nd cutter and

a cutter vertically upright, 1st 2nd cutter and cutter lower parts of the vertical upright crop divider is installed, the crop divider comprising crop divider plate, the divider plate mounted at one end to the cutting stations on the machine frame, 1st divider panel and the other end is fixed to the 2nd divider panel, the divider dissipating the divider gathering tank case, 1st divider panel and mounted on the divider collecting tank case 2nd divider between the side plates, payroll mouth is provided with a slot cell-gathering the crop divider, is located over the floor of the mouth of the feed to the cutting station.The present invention can prevent explosion caused to enter the rape cutting station for cutting station grains from splashing out siliques, effectively reduce splash losses.

Inventors

XU LIZHANG
HU JINGXI
LI YAOMING

Latest standardized assignees - inventors removed

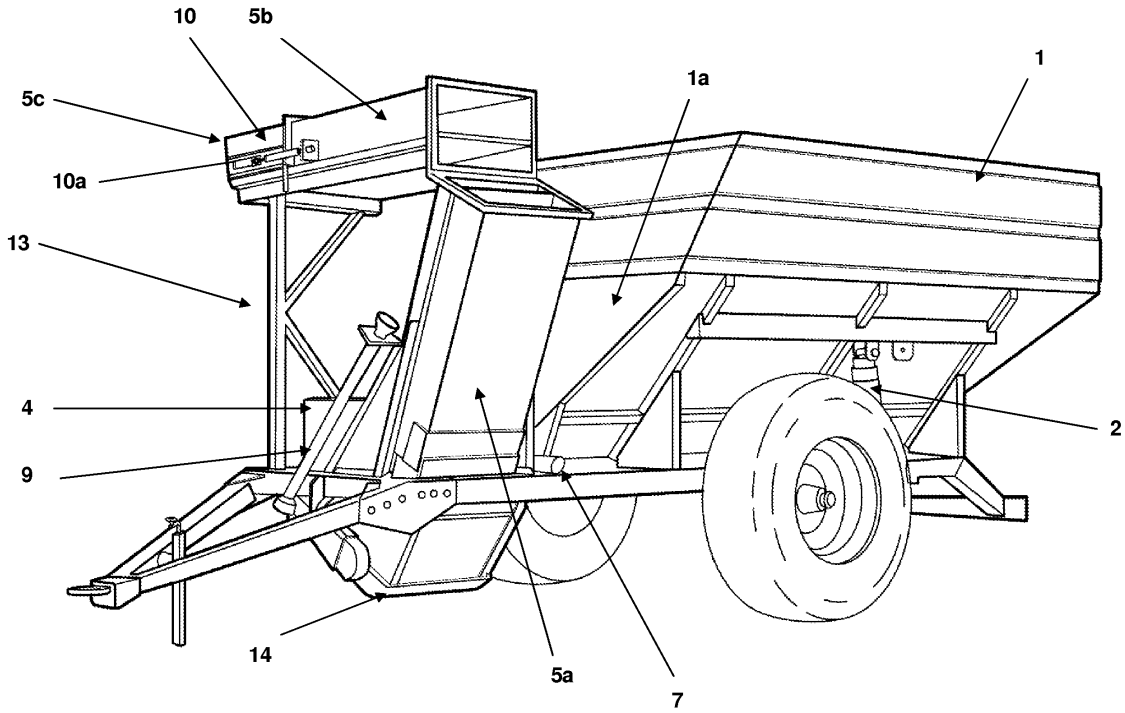
JIANGSU UNIVERSITY

Family 515/667 - FAMPAT - ©Questel

Title

(US20110305549)
Self-unloading vehicle with hydraulic system

Images



Publication data including kind & date

AR077076	A1	2011-07-27	AR--77076
US20110305549	A1	2011-12-15	US20110305549
CN102328612	A	2012-01-25	CN102328612
UA98742	C2	2012-06-11	UA--98742
BRPI1103039	A1	2012-06-12	BR201103039
BRPI1103039	A2	2012-11-06	BR201103039
RU2011123669	A	2012-12-20	RU2011123669

Abstract

(US20110305549)
Self-unloading vehicle with hydraulic system preferably of the kind to be used for loading and unloading of cereals and grains, of varied density, size and weight.It is possible to use any kind of grains adjusting its unloading thanks to a gate or

blade mechanism and to a secondary container located next to the hopper itself, and it is also possible to use said secondary container as an extra storage for a harvester machine.This vehicle comprises a second container (4) situated adjacent to the first container (1), in which wall (1a) there is an unloading mouth for the product (3).Said unloading mouth faces the entrance mouth of the second container (4) and a means of transportation (5) located in said second container (4); and where said first container (1) articulates according to a shaft (6) transverse to the vehicle situated between the first container (1) and said second container (4), and it has lifting means (2) capable to achieve the articulation movement of lifting and lowering the first container (1).

Inventors

LENARDUZZI NELSON HECTOR
GONZALEZ JOSE LUIS
CAULA DIEGO ALEJANDRO

Latest standardized assignees - inventors removed

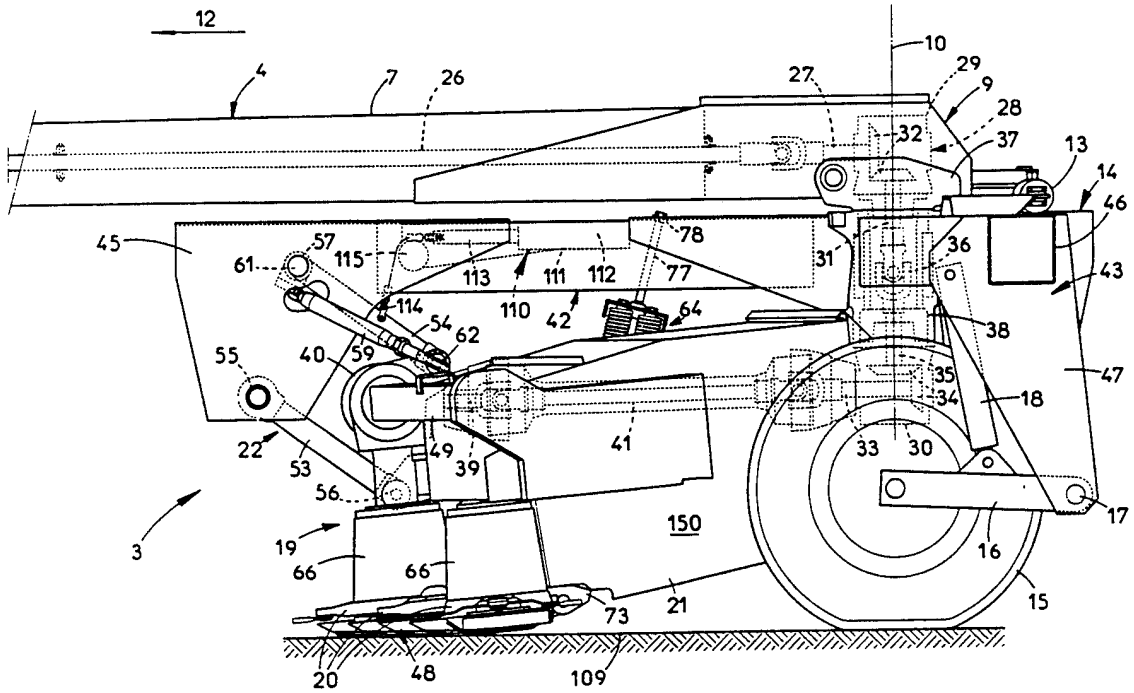
NEUF AGRICOLE

Family 516/667 - FAMPAT - ©Questel

Title

(EP-429383)
A mower having a lightening mechanism.

Images



Publication data including kind & date

CA2030728	A1	1991-05-25	CA2030728
EP0429383	A1	1991-05-29	EP-429383
FR2654897	A1	1991-05-31	FR2654897
JPH03183413	A	1991-08-09	JP03183413
US5060462	A	1991-10-29	US5060462
FR2654897	B1	1992-03-20	FR2654897
EP0429383	B1	1995-03-01	EP-429383
AT118964	T	1995-03-15	ATE118964
DE69017363	D1	1995-04-06	DE69017363
ES2070301	T3	1995-06-01	ES2070301
DK0429383	T3	1995-07-10	DK-429383T

DE69017363	T2	1995-10-19	DE69017363
JP2958352	B2	1999-10-06	JP2958352
CA2030728	C	2001-01-16	CA2030728

Abstract

(EP-429383)

A mower includes a frame having a connecting mechanism for connecting the frame to a motor vehicle.The mower also includes at least one harvesting mechanism which comprises cutting elements and is connected to the frame through a suspension device.The suspension device permits the displacement in height of the harvesting mechanism relative to the frame.The mower further includes a lightening device operatively connected to the harvesting mechanism and comprising at least one spring connected directly to the harvesting mechanism.The lightening device makes it possible to reduce the pressure with which the harvesting mechanism rests on the ground by transferring a part of the weight of the harvesting mechanism to the frame.

(From US5060462 A)

Inventors

HELFER ROLAND

WATTRON BERNARD

Latest standardized assignees - inventors removed

KUHN

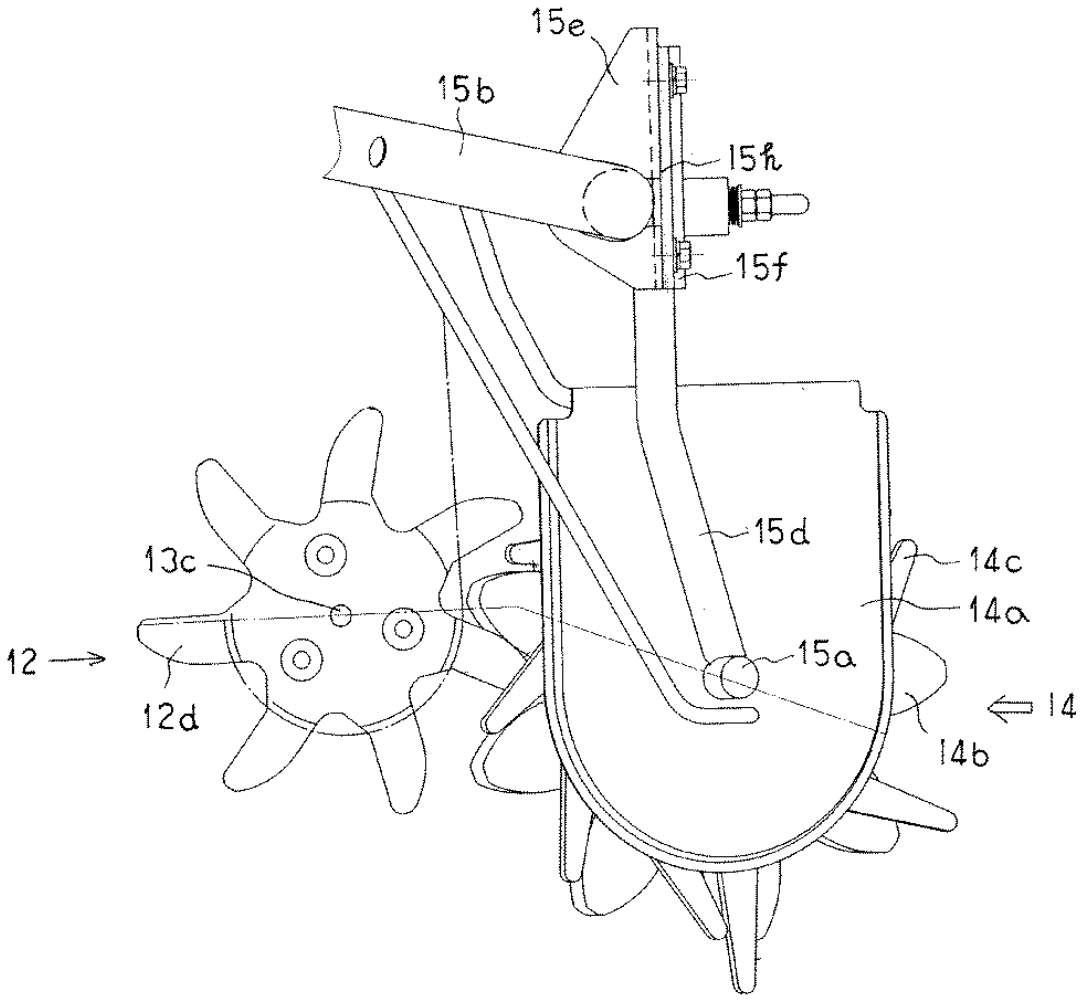
Family 517/667 - FAMPAT - ©Questel

Title

(JP2007319026)

Cereal culm-conveying device of combine

Images



Publication data including kind & date

JP2007319026 A 2007-12-13 JP2007319026

Abstract

(JP2007319026)

PROBLEM TO BE SOLVED: To solve a problem such that in the case of raking-in reaped cereal culms and conveying them to a rear directional upper part by a driving star wheel installed at an ear tip-conveying device and a supplying star wheel installed at a supply-conveying device, and when a large amount of the cereal culms are raked-in, sometimes the cereal culms are torn to pieces.

SOLUTION: This cereal culm-conveying device is characterized by installing the biting state of the driving star wheel 12d of the ear tip-conveying device 12 for raking-in and conveying the cereal culms conveyed to a flow unification part at the front of the ear tip-conveying device 12 and supply-conveying device 14 to the rear directional upper part, and the supplying star wheel 14b of the supply-conveying device 14, as adjustable.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

SAITO MANABU

ANAMI MASAYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

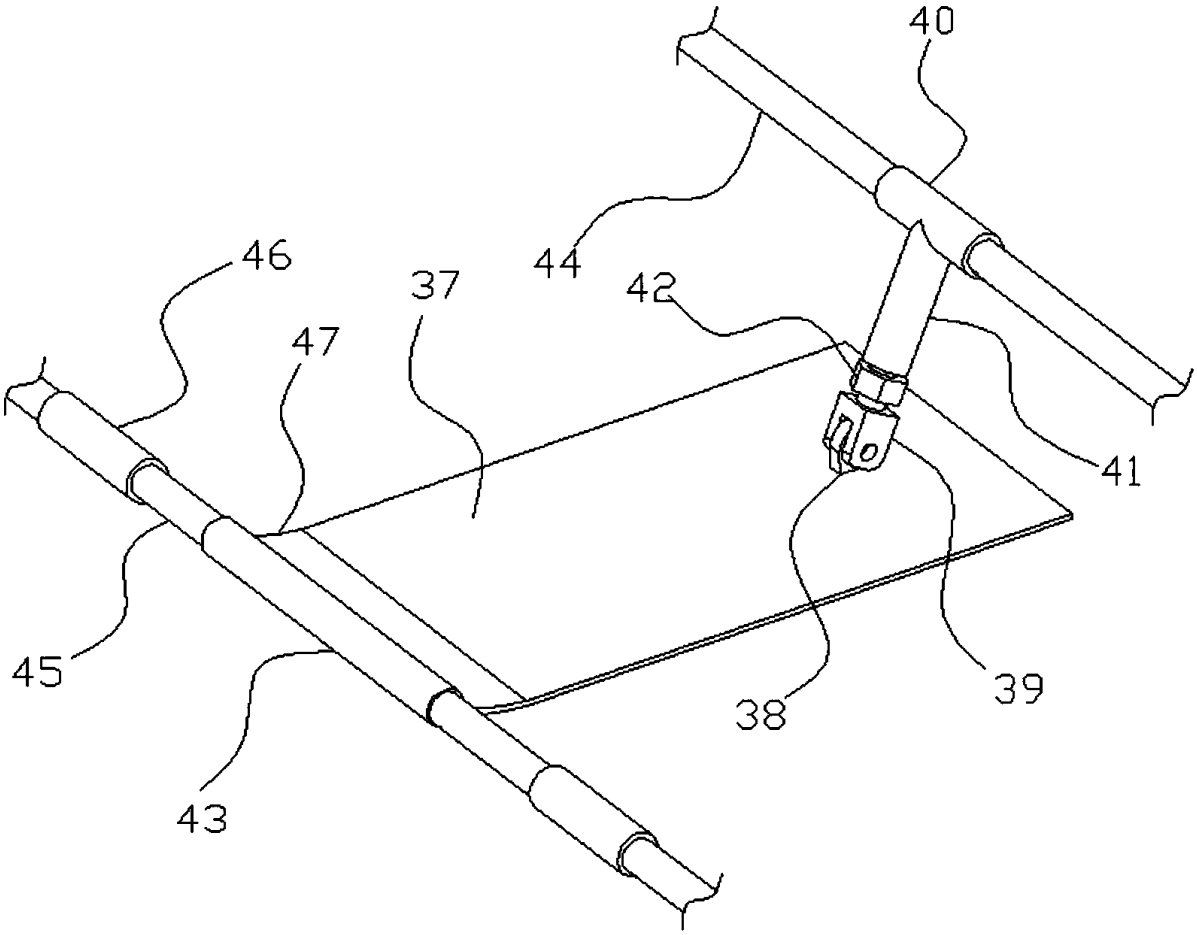
Family 518/667 - FAMPAT - ©Questel

Title

(CN104663123)

Balancing device and mustard harvesting device comprising same

Images



Publication data including kind & date

CN104663123	A	2015-06-03	CN104663123
CN104663123	B	2016-04-13	CN104663123B

Abstract

(CN104663123B)

The invention discloses a balancing device and a mustard harvesting device comprising the same.The balancing device comprises a balancing plate, a joint and a T-shaped fixing rod are arrange don the balancing plate, the T-shaped fixing rod comprises a lower connecting block, a main fixing rod and a T-shaped slide sleeve, the lower connecting block is hinged with the joint, the T-shaped slide sleeve comprises an upper transverse connecting sleeve and an oblique vertical slide sleeve, the oblique vertical slide sleeve is slidably connected with the main fixing rod, an adjusting nut in threaded connection with the main fixing rod is arranged on the main fixing rod and is located under the oblique vertical slide sleeve, and a lower transverse connecting sleeve is arranged on the balancing plate.The balancing device and the mustard harvesting device comprising the same have the advantages that mustard contacting and cutting parts can be integrally adjusted in angle, adaptability is good, mustard is less prone to damage, and high harvesting efficiency and good cutting effect can be guaranteed; angle of a nose can be effectively adjusted, so that the parts can well adapt to the mustard to be harvested, harvesting effect is improved, and damage to the mustard by each structure is prevented.

Inventors

WU WEIYAO

Latest standardized assignees - inventors removed

NINGBO SPECAR MANUFACTURING

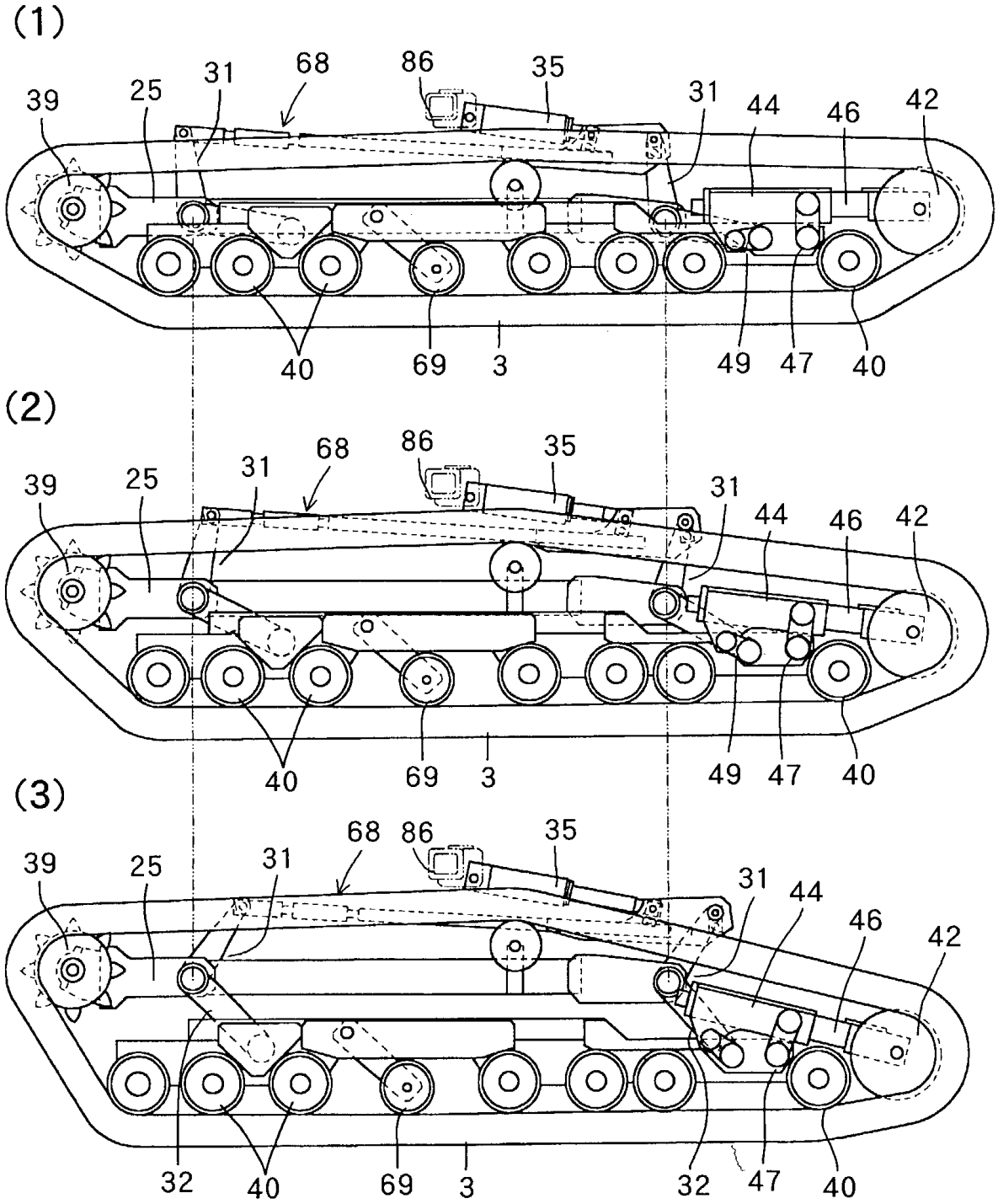
Family 519/667 - FAMPAT - ©Questel

Title

(EP1308378)

Mobile agricultural machinery

Images



Publication data including kind & date

JP2002053083	A	2002-02-19	JP2002053083
WO200214140	A1	2002-02-21	WO200214140
AU7674501	A	2002-02-25	AU200176745
TW515697	B	2003-01-01	TW-515697
KR20030022383	A	2003-03-15	KR20030022383
EP1308378	A1	2003-05-07	EP1308378
US20030161687	A1	2003-08-28	US20030161687
CN1446165	A	2003-10-01	CN1446165
AU2001276745	B2	2004-12-09	AU2001276745
CN1211244	C	2005-07-20	CN1211244C

US6962222	B2	2005-11-08	US6962222
EP1308378	A4	2006-06-07	EP1308378
EP1308378	B1	2007-12-26	EP1308378
AT382013	T	2008-01-15	ATE382013
DE60132095	D1	2008-02-07	DE60132095
KR100830551	B1	2008-05-22	KR100830551
DE60132095	T2	2008-12-11	DE60132095
IN0078/DELNP/2003	A	2009-03-27	IN2003DN00078
IN242057	B	2010-08-13	IN-242057
JP4680355	B2	2011-05-11	JP4680355

Abstract

(EP1308378)

A mobile agricultural machine for achieving improvement in travel performance during direction change.In a combine where right and left travel crawlers (3) and (4) supported by drive sprockets (39) and tension rollers (42) are installed to right and left track frames (1) and (2) through track rollers (40), and where the right and left travel frames (1) and (2) are provided through crawler elevation arms (31) and (32) in an elevation action controllable manner tension rollers (42) are provided in a ground contact direction of the travel crawlers (3) and (4) in a movable manner. <IMAGE>

Inventors

KIRIHATA TOSHINORI

Latest standardized assignees - inventors removed

YANMAR

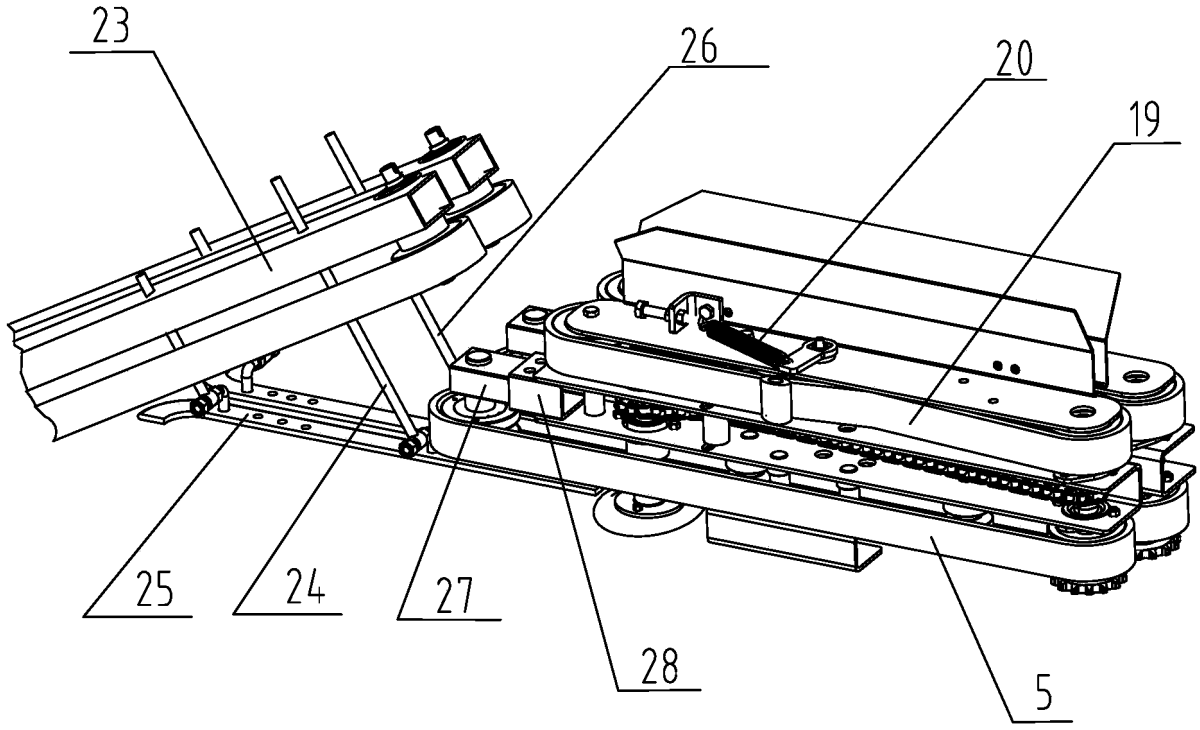
Family 520/667 - FAMPAT - ©Questel

Title

(CN204408943U)

Seedling aligning and cutting device for carrot harvesting machine

Images



Publication data including kind & date

CN204408943	U	2015-06-24	CN204408943U

Abstract

(CN204408943U)

The utility model provides a seedling aligning and cutting device for a carrot harvesting machine.The seedling aligning and cutting device comprises an inclined clamping and conveying device, an aligning device, a horizontal supporting frame device, a horizontal clamping and conveying device and a cutting device, wherein the inclined clamping and conveying device is positioned at the front end of the seedling aligning and cutting device; the cutting device is arranged on the horizontal supporting frame device behind the seedling aligning and cutting device; the aligning device is individually arranged on the lower side of a support beam, the horizontal supporting frame is positioned above the aligning device and below the support beam, and the horizontal clamping and conveying device is arranged on the horizontal supporting frame device; the aligning device individually comprises a front positioning rod, a rear positioning rod and a carrot baffle, and the carrot baffle is adjustably fixed on the support beam through the front positioning rod and the rear positioning rod.According to the device, the problems that cut openings are unsmooth, the damage rate is high, cutting is incomplete and the positions of the cut openings are non-unified in the harvesting process of carrots can be effectively solved, and the harvesting quality of the carrots is improved.

Inventors

WANG JIASHENG
WANG DONGWEI
LI JIANDONG
YANG CHENG
YANG WEI
SHANG SHUQI
WANG DAWEI

Latest standardized assignees - inventors removed

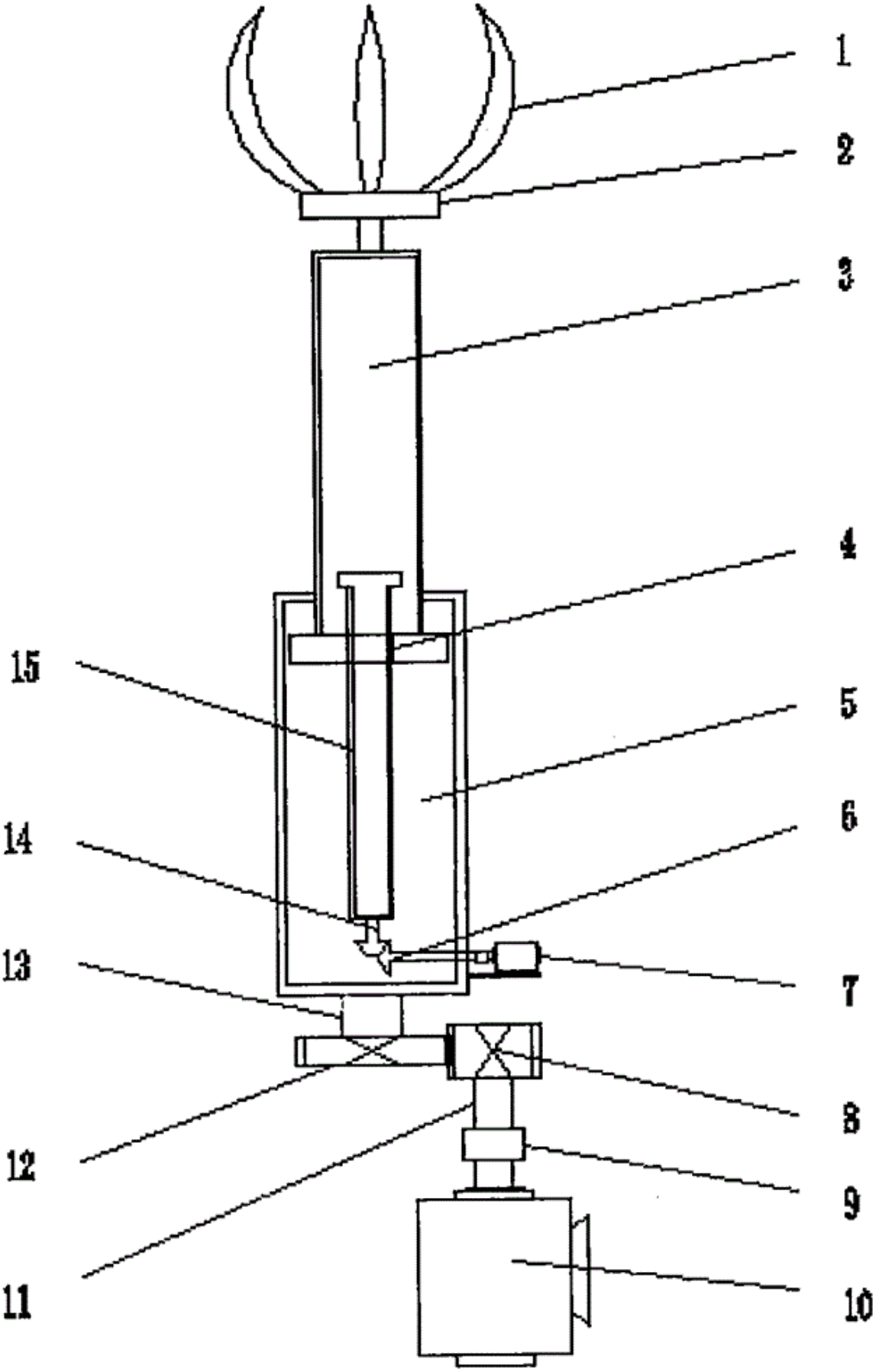
QINGDAO AGRICULTURAL UNIVERSITY

Family 521/667 - FAMPAT - ©Questel

Title

(CN205902411U)
Retractable kiwi fruit fruit picking manipulator arm

Images



Publication data including kind & date

CN205902411 U 2017-01-25 CN205902411U

Abstract

(CN205902411U)

The utility model discloses a retractable kiwi fruit fruit picking manipulator arm, main characteristic is: retractable machinery

is picked one -level arm (5) and second grade arm (3) of arm and is connected through lead screw (15) and nut (4), concertina movement was in second grade arm (3) when rotated lead screw (15), adjust the height of arm, the upper end in second grade arm (3) is installed to the three dexterous hands of finger (1), three indicate there are its control system (2) below dexterous hand (1), lower extreme welding at lead screw (15) has bevel gear (14) to pass through the continuous transmission power of shaft coupling rather than bevel gear (6) of meshing with motor (7) of installing outside one -level arm (3), lower extreme welding at one -level arm (5) has gear (12), with gear (8) meshing transmission, gear shaft (11) are connected transmission power through shaft coupling (9) and motor (10).This arm height -adjustable is fit for the harvesting of the uneven kiwi fruit of the high low level of fruit, has still solved the kiwi fruit handle and has fast plucked difficult problem.

Inventors

YANG FUZENG

WANG QIANG

Latest standardized assignees - inventors removed

NORTH WEST AGRICULTURE & FORESTRY UNIVERSITY

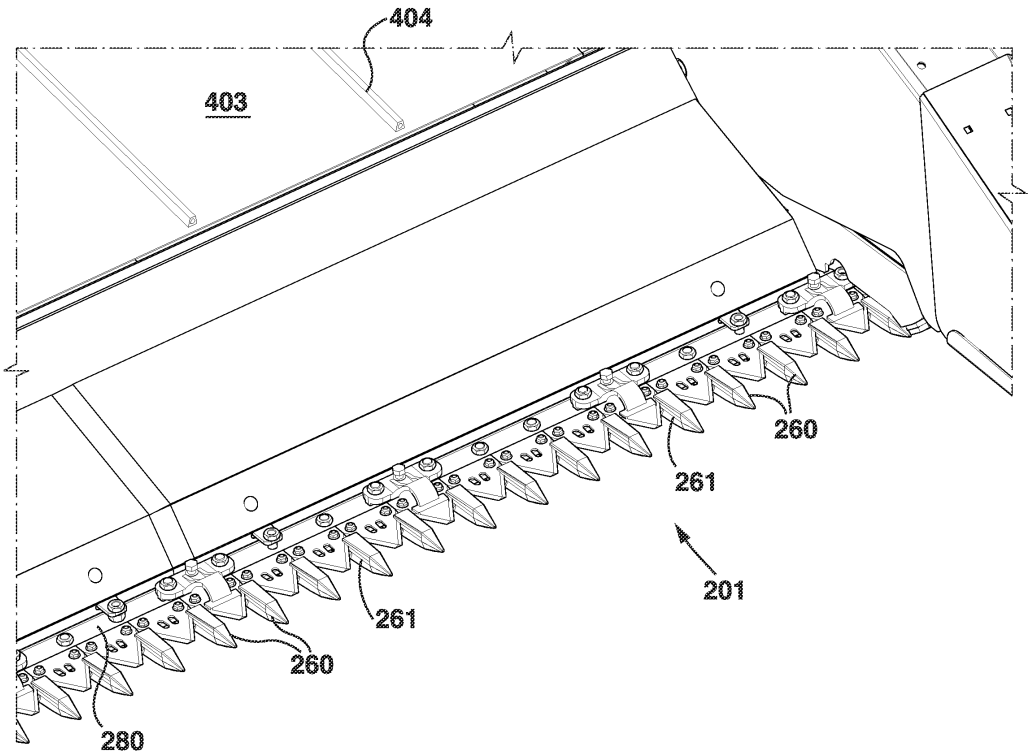
Family 522/667 - FAMPAT - ©Questel

Title

(WO2015188254)

Harvesting header knife drive assembly

Images



Publication data including kind & date

CA2853947	A1	2015-12-09	CA2853947
CA2951302	A1	2015-12-17	CA2951302
WO2015188254	A1	2015-12-17	WO2015188254
US20160174460	A1	2016-06-23	US20160174460

Abstract

(WO2015188254)

A knife drive assembly for use in a harvesting header is disclosed.The knife drive may be mounted near the center line of the cutter bar of the header.Mechanical power from the power unit behind the header (typically the combine power output shaft) may be translated for application to two knife assembly sections in the cutter bar at the front of the cutter table.Movement of the two knife assembly sections with this apparatus can be fully synchronized and 180 degrees out of phase, to maximize cutting effectiveness and minimize vibration of the header.The unitary drive assembly may allow for rapid repair and manufacture, and the size and weight of the knife drive assembly may represent a significant weight and balance advantage over the prior art.

Inventors

HONEY GREGORY

HONEY GLENN

Latest standardized assignees - inventors removed

HONEY BEE MANUFACTURING

Family 523/667 - FAMPAT - ©Questel

Title

(EP-861581)

An agricultural cutting machine comprising an improved suspension device for the cutting mechanism

Images

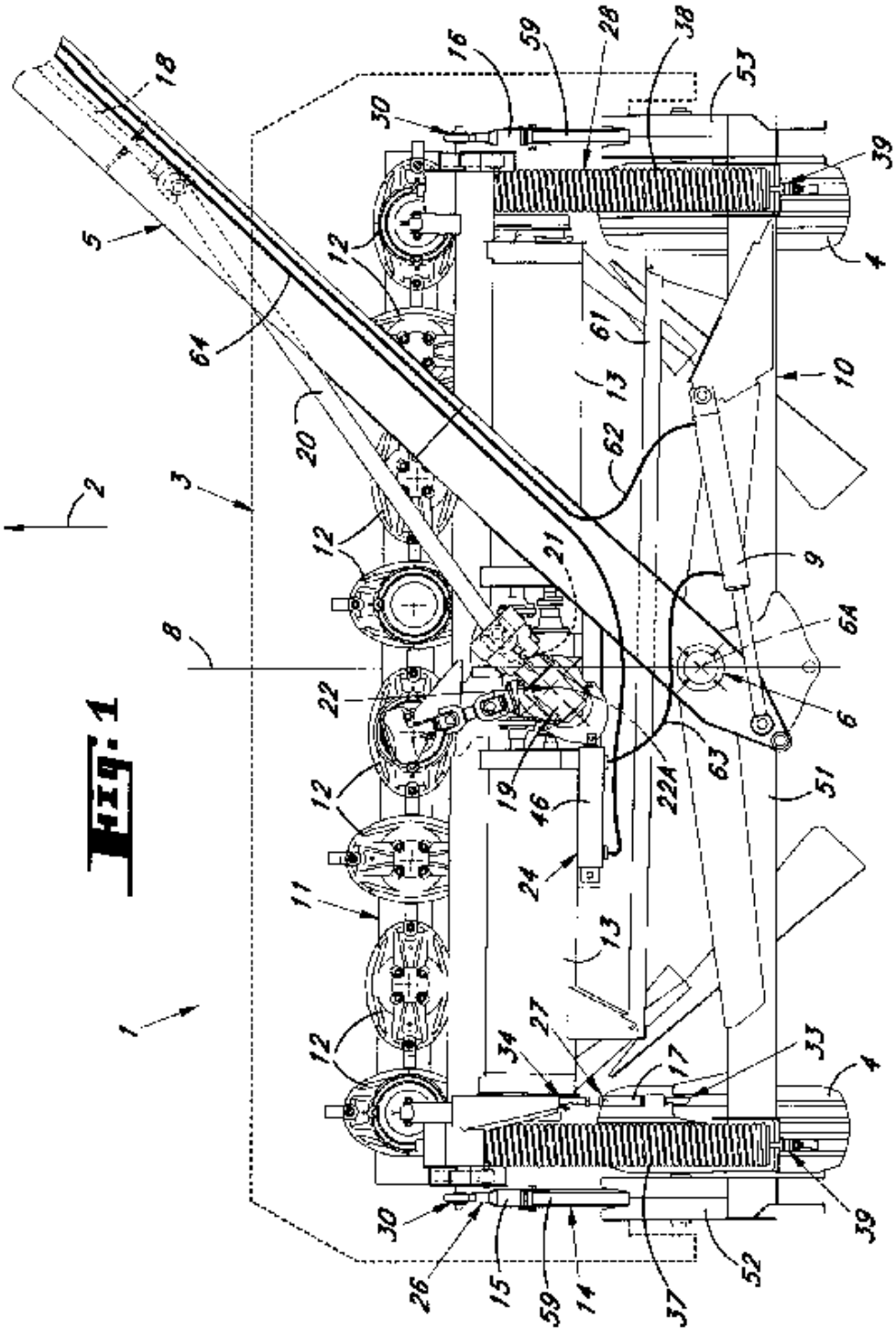


Fig. 1

Publication data including kind & date

CA2226656	A1	1998-08-14	CA2226656
AU5393598	A	1998-08-20	AU9853935
FR2759531	A1	1998-08-21	FR2759531
JPH10229718	A	1998-09-02	JP10229718
EP0861581	A1	1998-09-02	EP-861581
FR2759531	B1	1999-04-23	FR2759531
US6055800	A	2000-05-02	US6055800
AU733323	B2	2001-05-10	AU-733323
CA2226656	C	2007-11-06	CA2226656
EP0861581	B1	2008-05-28	EP-861581

AT396609	T	2008-06-15	ATE396609
DE69839538	D1	2008-07-10	DE69839538
DK0861581	T3	2008-10-06	DK-861581T
ES2308798	T3	2008-12-01	ES2308798

Abstract

(EP-861581)

The invention relates to an agricultural cutting machine includes a chassis, a harvesting mechanism and a suspension device connecting the harvesting mechanism to the chassis.The suspension device includes a lower suspension member and an upper suspension member forming an articulated quadrilateral which allows the harvesting mechanism to move relative to the chassis.The geometric axis of the articulation connecting the lower suspension member to the harvesting mechanism passes through or substantially through the center of mass of the harvesting mechanism.

(From US6055800 A)

Inventors

WALCH MARTIN

Latest standardized assignees - inventors removed

KUHN

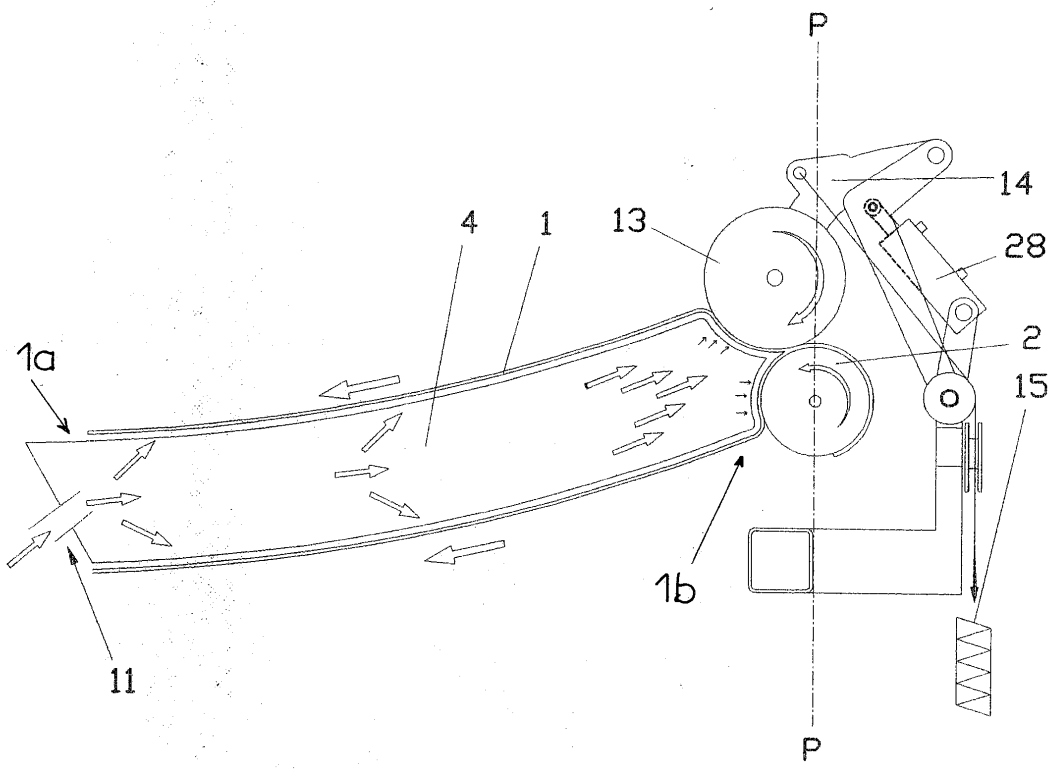
Family 524/667 - FAMPAT - ©Questel

Title

(FR2946832)

Small fruits collecting method, involves unrolling flexible cover by injection of compressed air into inflatable flexible tubes from distal ends of tubes, where tubes are integrated to cover and extended from one end to another end of cover

Images



Publication data including kind & date

FR2946832	A1	2010-12-24	FR2946832

FR2946832 B1 2011-07-22 FR2946832

Abstract

(FR2946832)

The method involves unrolling a flexible cover (1) by injection of compressed air into inflatable flexible tubes (4) that are integrated to the cover and extended from one end to another end of the cover, where the injection of compressed air is carried out from a distal end (1a) of each inflation tube.The cover is rolled on a tubular rolling shaft (2) by pressing the inflatable tubes against the rolling shaft and by locating the inflatable tubes with respect to exterior using air exhaust devices so as to allow deflation of the tubes.An independent claim is also included for a small fruit harvesting machine comprising a device for collecting small fruits from fruit trees or shrubs.

Inventors

PELLENC ROGER

ROLLAND CHRISTIAN

BOUYOU BERTRAND

Latest standardized assignees - inventors removed

PELLENC IBERICA

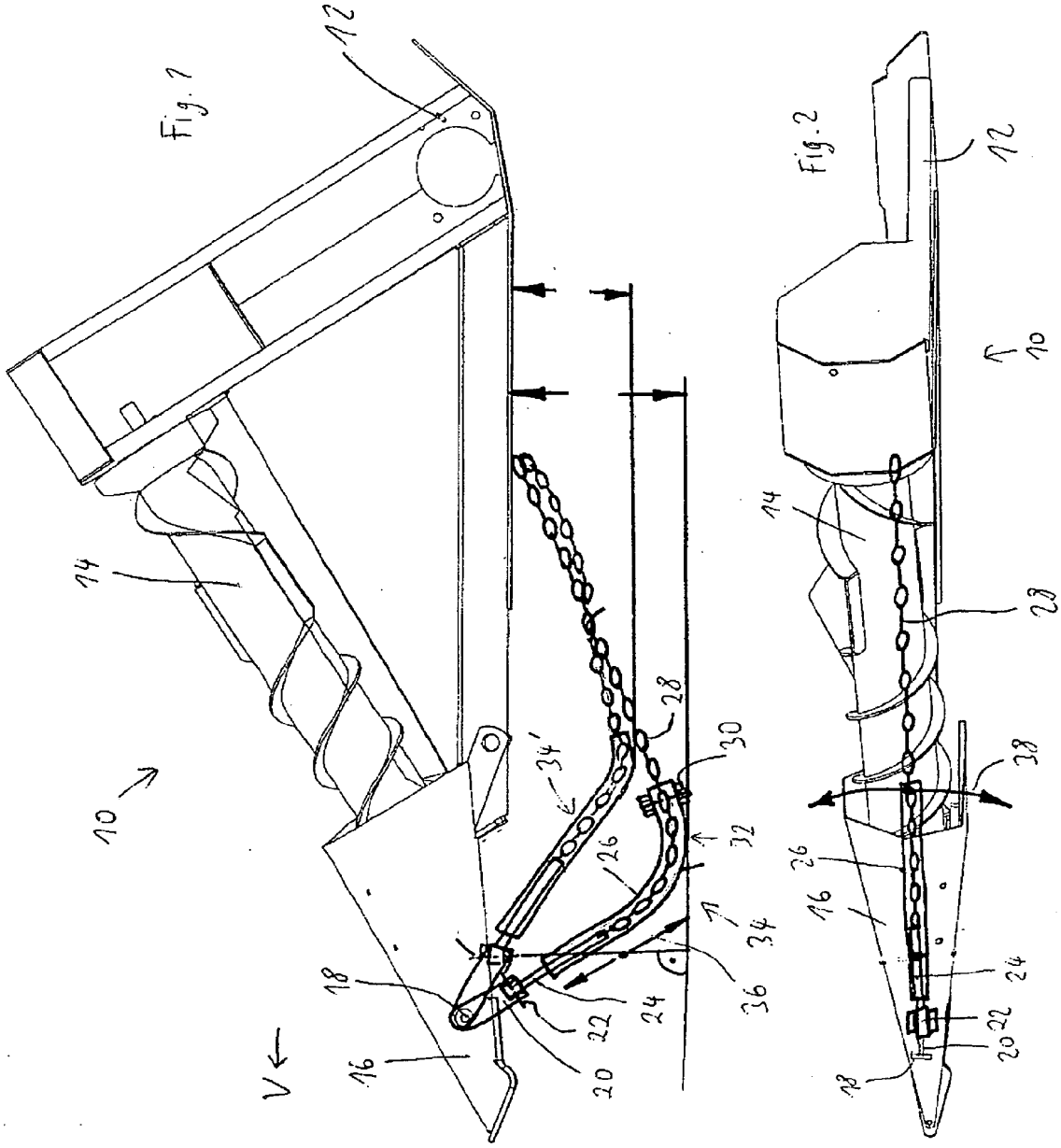
Family 525/667 - FAMPAT - ©Questel

Title

(EP1911342)

Height sensor for a header

Images



Publication data including kind & date

EP1911342	A2	2008-04-16	EP1911342
DE102006048481	A1	2008-05-08	DE102006048481
EP1911342	A3	2008-06-25	EP1911342
EP1911342	B1	2010-09-01	EP1911342
AT479324	T	2010-09-15	ATE479324
DE502007004906	D1	2010-10-14	DE502007004906

Abstract

(EP1911342)

Height detector (34) comprises an arm (26) which can be adjusted in the longitudinal direction opposite a further arm (24).Preferred Features: The arms are arranged in a telescopic manner against each other.The arm (26) is hollow and a flexible traction device (28) extends through the hollow arm and connects with the arm (24).The hollow arm is connected to the traction device using a radially extending bolt (30).

Inventors

WEITENBERG KLEMENS
RICKERT CLEMENS
SCHULZE HOCKENBECK LEO

GROBMEIER JENS
HUENING MARTIN

Latest standardized assignees - inventors removed

MASCHINENFABRIK KEMPER

Family 526/667 - FAMPAT - ©Questel

Title

(EP-250650)

Header for harvesting machine

Images

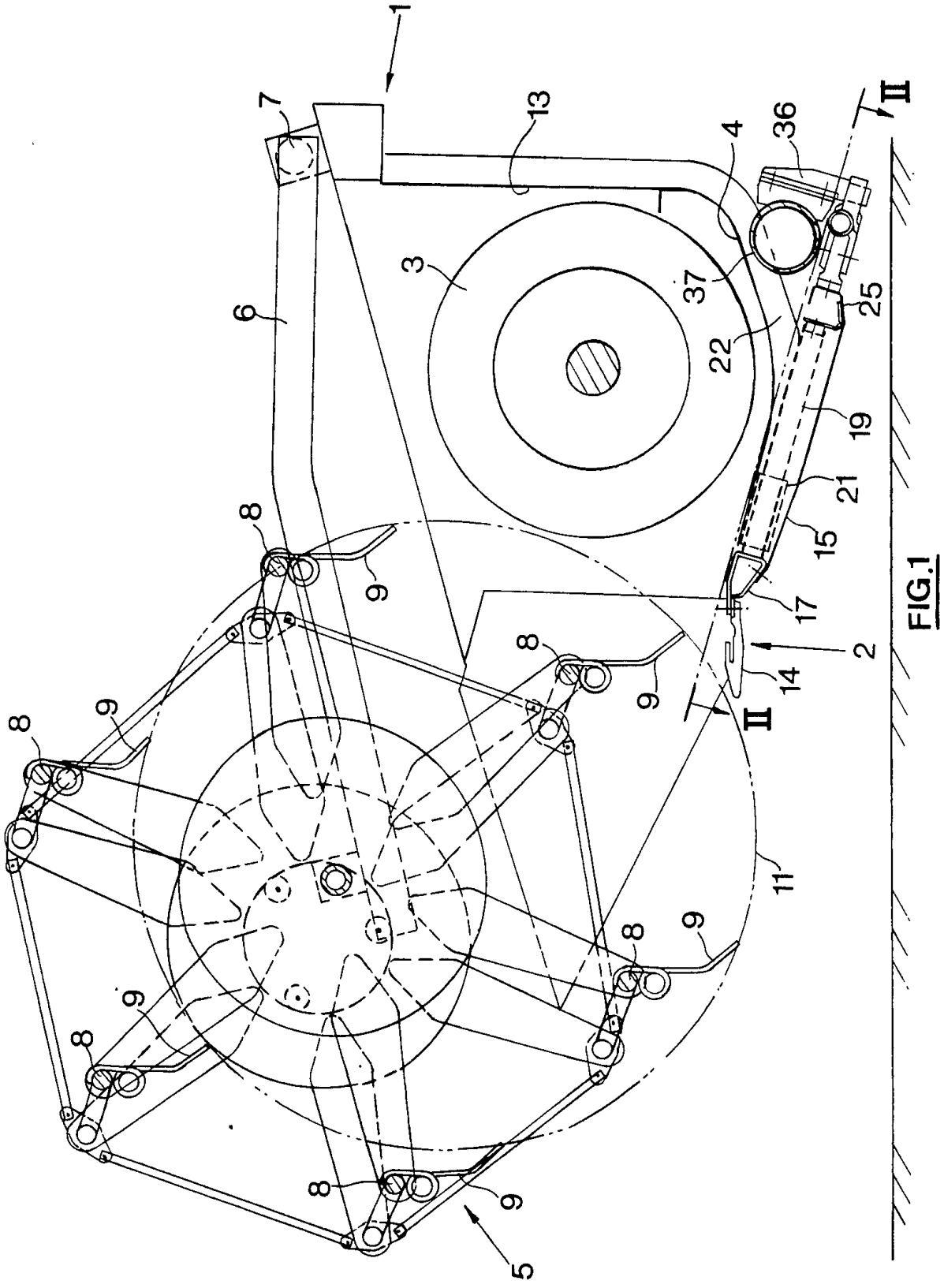


FIG.1

Publication data including kind & date

EP0250650	A1	1988-01-07	EP-250650
US4800711	A	1989-01-31	US4800711
EP0250650	B1	1990-09-19	EP-250650
DE3674404	D1	1990-10-25	DE3674404

Abstract

(EP-250650)
A header for a harvesting machine comprises a frame (1), a cutterbar (2) operable to cut standing crop and mounted on the front of the frame (1), and a reel (5) also mounted on the frame (1) and operable to sweep crop material towards and over the cutterbar (2), the cutterbar (2) being adjustable relative to the frame (1) in a direction generally orthogonal to the axis of the cutterbar (2).The header further comprises an interlock mechanism (72-75) extending between the reel (5) and the cutterbar (2), whereby the reel position relative to the cutterbar (2) is automatically adjusted on adjustment movement of the cutterbar (2), so as to maintain substantially constant the reel-cutterbar spacing.

Inventors

HURLBURT, JOSEPH C.
TORLAND, PETER J.

Latest standardized assignees - inventors removed

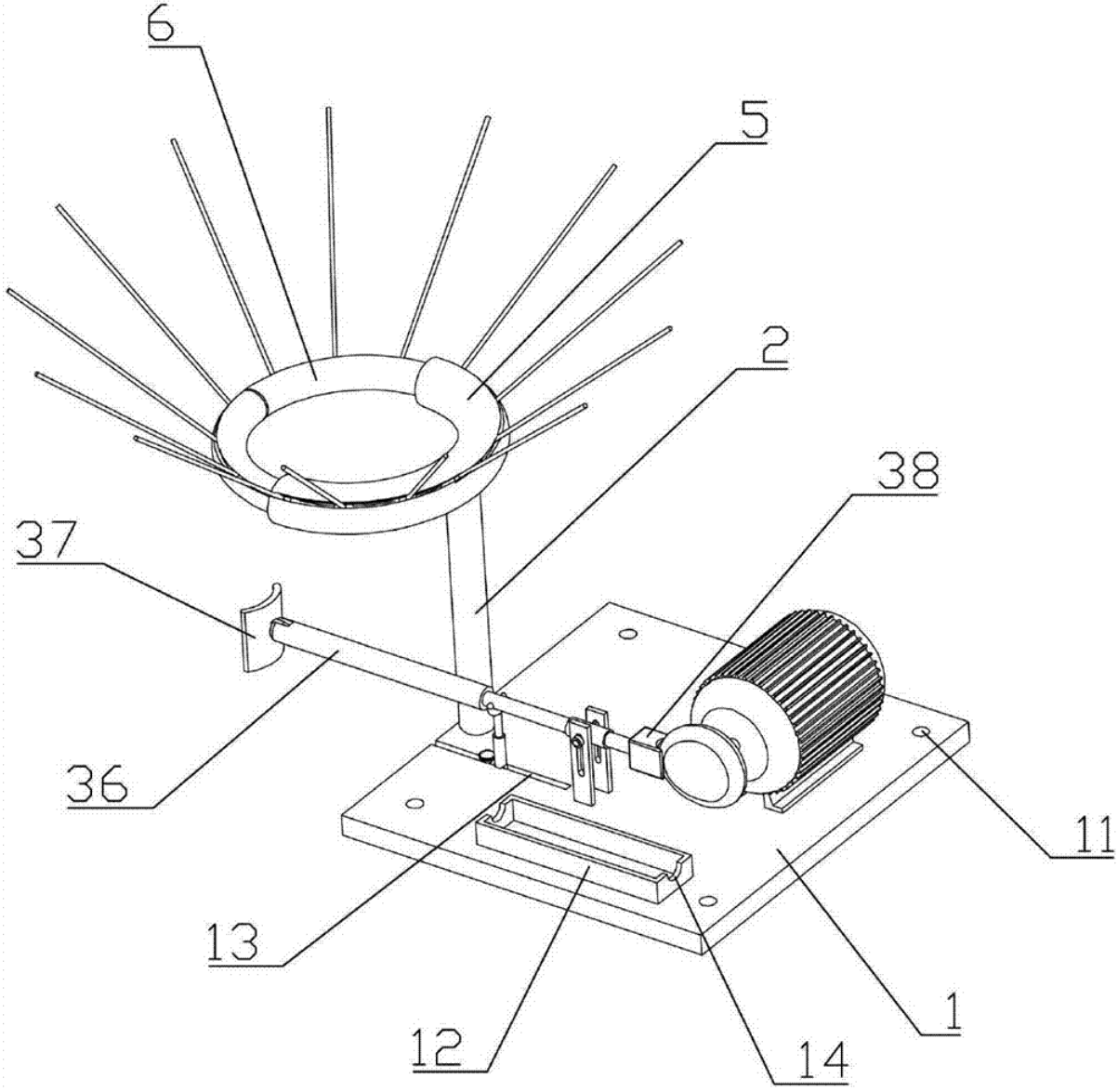
FORD NEW HOLLAND

Family 527/667 - FAMPAT - ©Questel

Title

(CN207754115U)
Walnut picking device

Images



Publication data including kind & date

CN207754115	U	2018-08-24	CN207754115U

Abstract

(CN207754115U)

The utility model belongs to the technical field of equipment is picked to the walnut, mainly relate to a walnut picking device, which comprises a substrate, be equipped with the driving machine on the base plate, install the cam on the output shaft of driving machine, a plurality of fixed orificess have been seted up on the base plate, the staple post is worn to be equipped with by the fixed orifices internalization, the base plate top is equipped with two mounting brackets, the adjustment tank has all been seted up on the mounting bracket, be equipped with an installation section of thick bamboo between the mounting bracket, be equipped with the spliced pole on the installation section of thick bamboo lateral wall, in the spliced pole wears to locate the adjustment tank, and wear out mounting bracket part cover and be equipped with a fixation nut, slide in the installation section of thick bamboo and wear to be equipped with the transfer line, the transfer line is close to driving machine one end and installs the fixture block, another end connection of transfer line has the extension rod, the free tip of extension rod hinges has the arc, and it has avoided the tradition to beatthe harvesting influences the problem of output to setting bulk damage, and harvesting efficiency is higher, can not result in the walnut to drop fullly simultaneously.

Inventors

YANG XIAOHONG

LENG TIANFENG

FU LI

Fire by the bright

Latest standardized assignees - inventors removed

GUIZHOU PROVINCE WALNUT INSTITUTE
GUIZHOU LI MEI AGRICULTURAL SCIENCE & TECHNOLOGY DEVELOPMENT

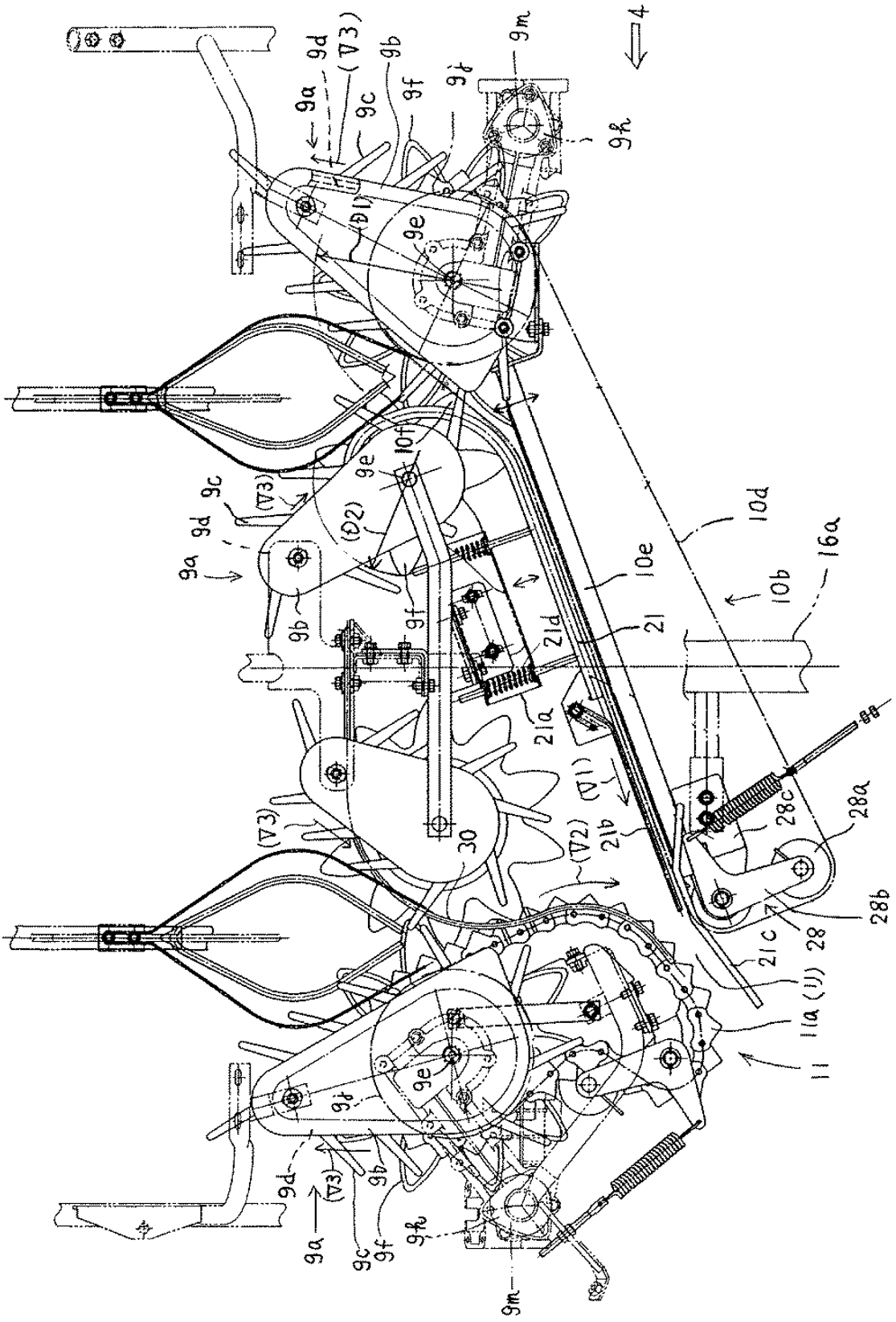
Family 528/667 - FAMPAT - ©Questel

Title

(JP2007110922)

Cereal culm-conveying device in combine

Images



Publication data including kind & date

JP2007110922 A 2007-05-10 JP2007110922

Abstract

(JP2007110922)

PROBLEM TO BE SOLVED: To provide a cereal culm-conveying device so that the cereal culms reaped by a reaping machine on one side row and conveyed, and the cereal culms reaped from another side row and conveyed are made to reach to a flow unification part almost simultaneously.

SOLUTION: This cereal culm-conveying device is provided by having a constitution of making the rotary speed (V1) of a right hand side lower root part-conveying chain 10d of a right hand side lower root part-conveying device 10b for further conveying the root side of the cereal culms faster by a prescribed rotation than the rotary speed (V2) of the left hand side root part-conveying chain 11a, by installing them at the rear side of each of raking-in device 9a of a reaping machine 4 for conveying the cereal culms in rear upper direction.The cereal culms reaped simultaneously are conveyed and reached to the flow unification part at an approximately same time.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

ANAMI MASAYUKI

SAITO MANABU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

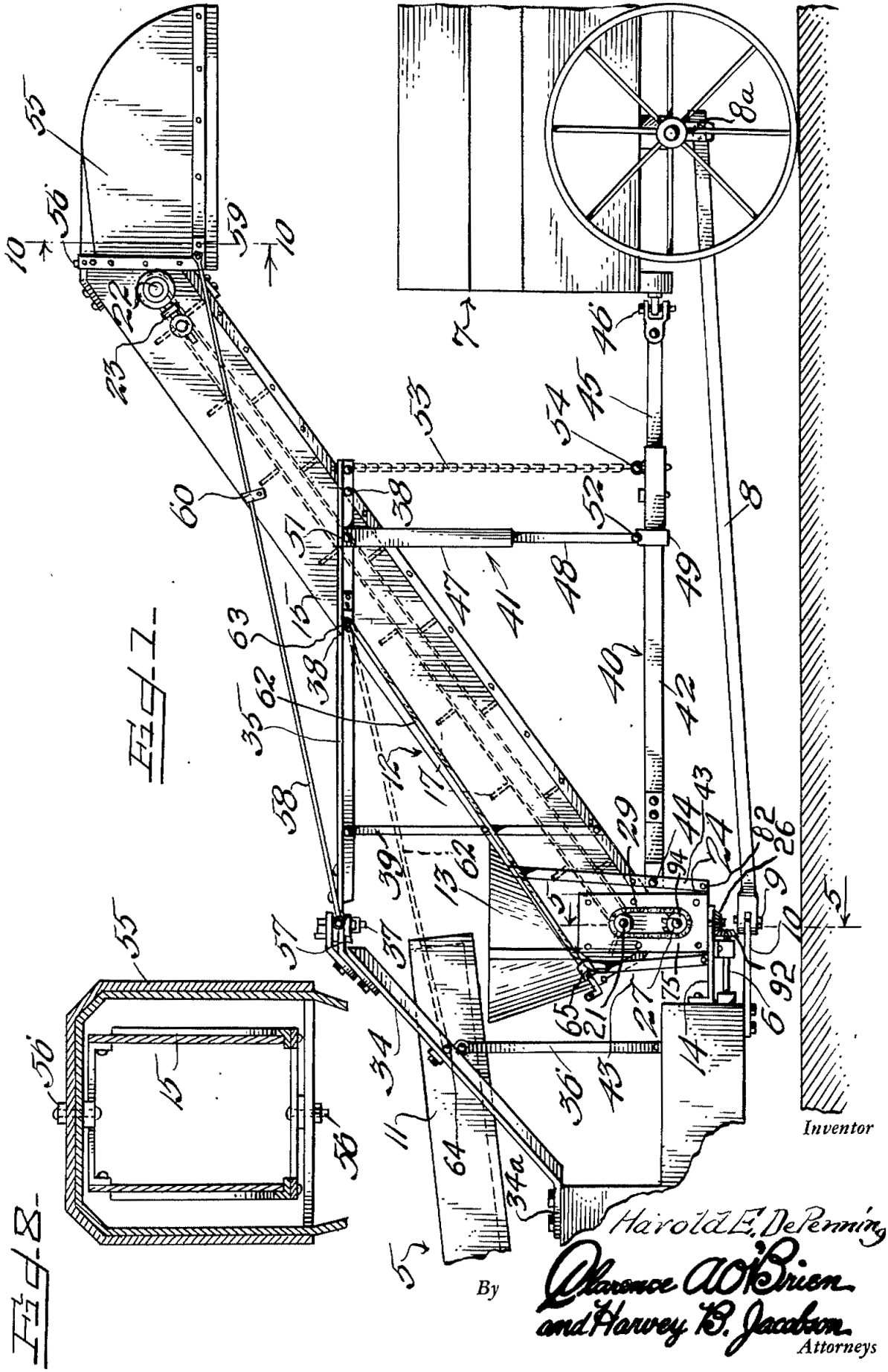
Family 529/667 - FAMPAT - ©Questel

Title

(US2608310)

Discharge elevator for harvesters

Images



Publication data including kind & date

US2608310 A 1952-08-26 US2608310

Inventors

DE PENNING HAROLD E

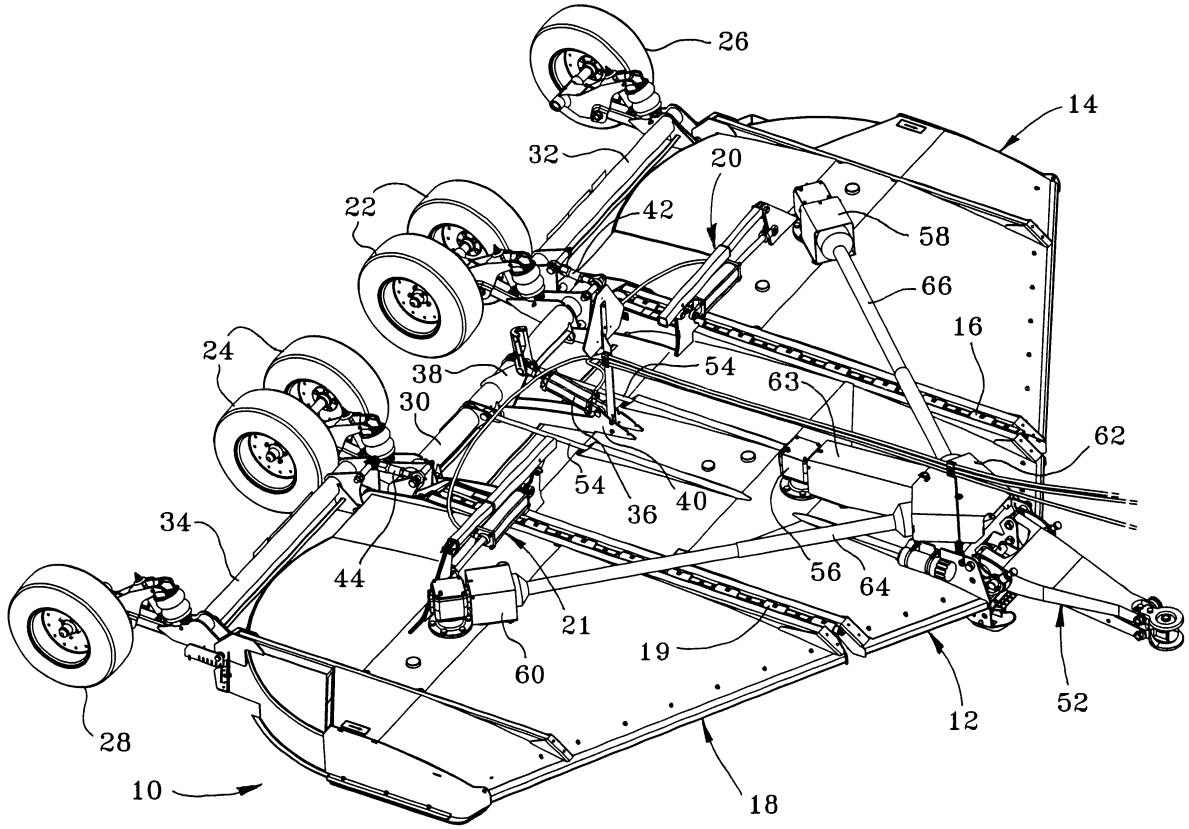
Family 530/667 - FAMPAT - ©Questel

Title

(EP1275283)

A pull-type agricultural machine, in particular a mower

Images



Publication data including kind & date

CA2391254	A1	2003-01-09	CA2391254
US20030005677	A1	2003-01-09	US20030005677
EP1275283	A2	2003-01-15	EP1275283
US6594980	B2	2003-07-22	US6594980
CA2391254	C	2006-06-06	CA2391254
EP1275283	A3	2007-11-07	EP1275283

Abstract

(EP1275283)

An agricultural machine (10) in the form of a flex wing rotary cutter includes wheel axles (30, 32, 34) on each of the center and wing deck frames which are linked together for simultaneous rocking by a lift cylinder (36) coupled between the center deck frame and the center axle (30).Each of the support wheels (22, 24, 26, 28) of the machine (10) is mounted to a spindle (88) carried at the rear end of a rocker arm (78) that is pivotally attached, at a location between its ends, to a rear location of a respective strut (72) cantilevered from one or the other of the axles (30, 32, 34).A spring (92) formed as an air spring is coupled between the strut (72) and a forward end of the rocker arm (78) and a shock absorber (94) is coupled between the rocker arm (78) and the strut (72) at a location between the spring (92) and the connection of the rocker arm (78) with the strut (72).

Inventors

OKA KEN KENGI

FRIESEN HENRY

Latest standardized assignees - inventors removed

DEERE

Family 531/667 - FAMPAT - ©Questel

Title

(US2940615)

Tobacco harvesting device

Images

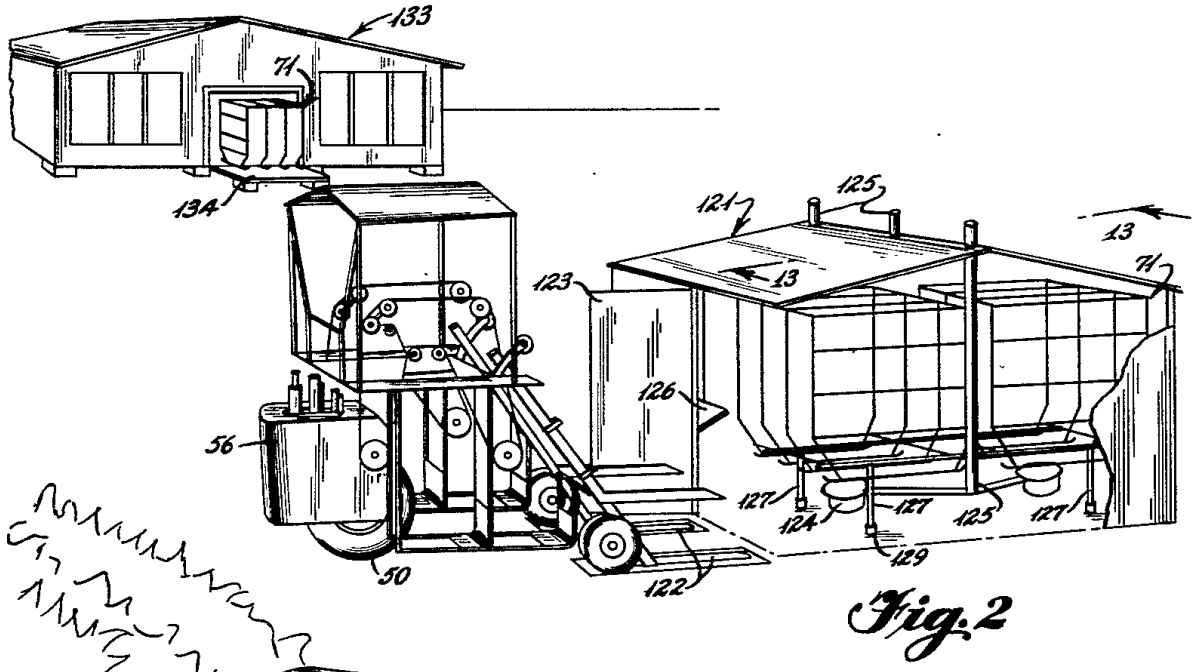


Fig. 2

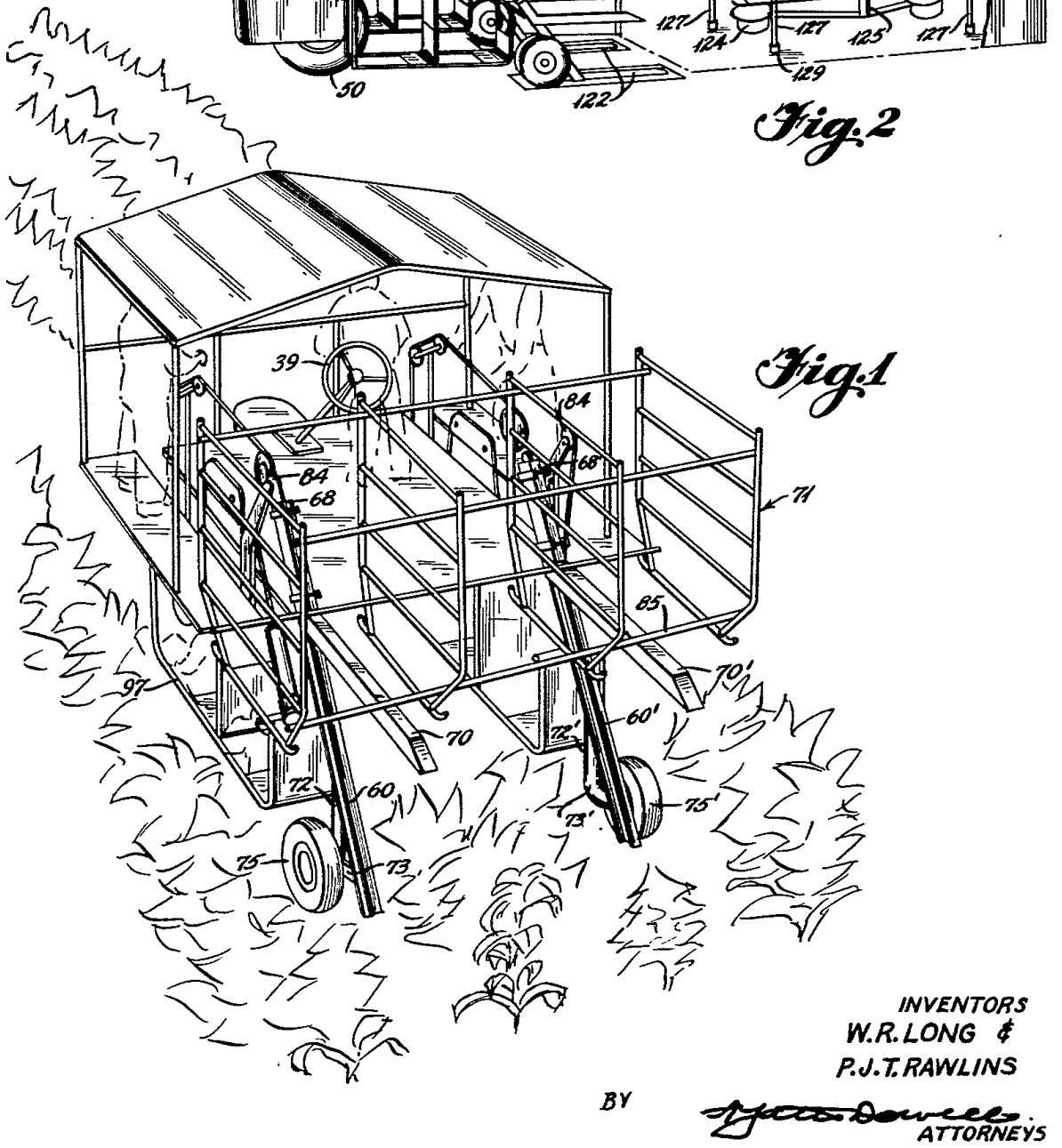


Fig. 1

INVENTORS
W.R. LONG &
P.J.T. RAWLINS

BY

ATTORNEYS

Publication data including kind & date

US2940615 A 1960-06-14 US2940615

Inventors

LONG WILLIAM R

RAWLINS PHILIP J T

Latest standardized assignees - inventors removed

LONG MANUFACTURING

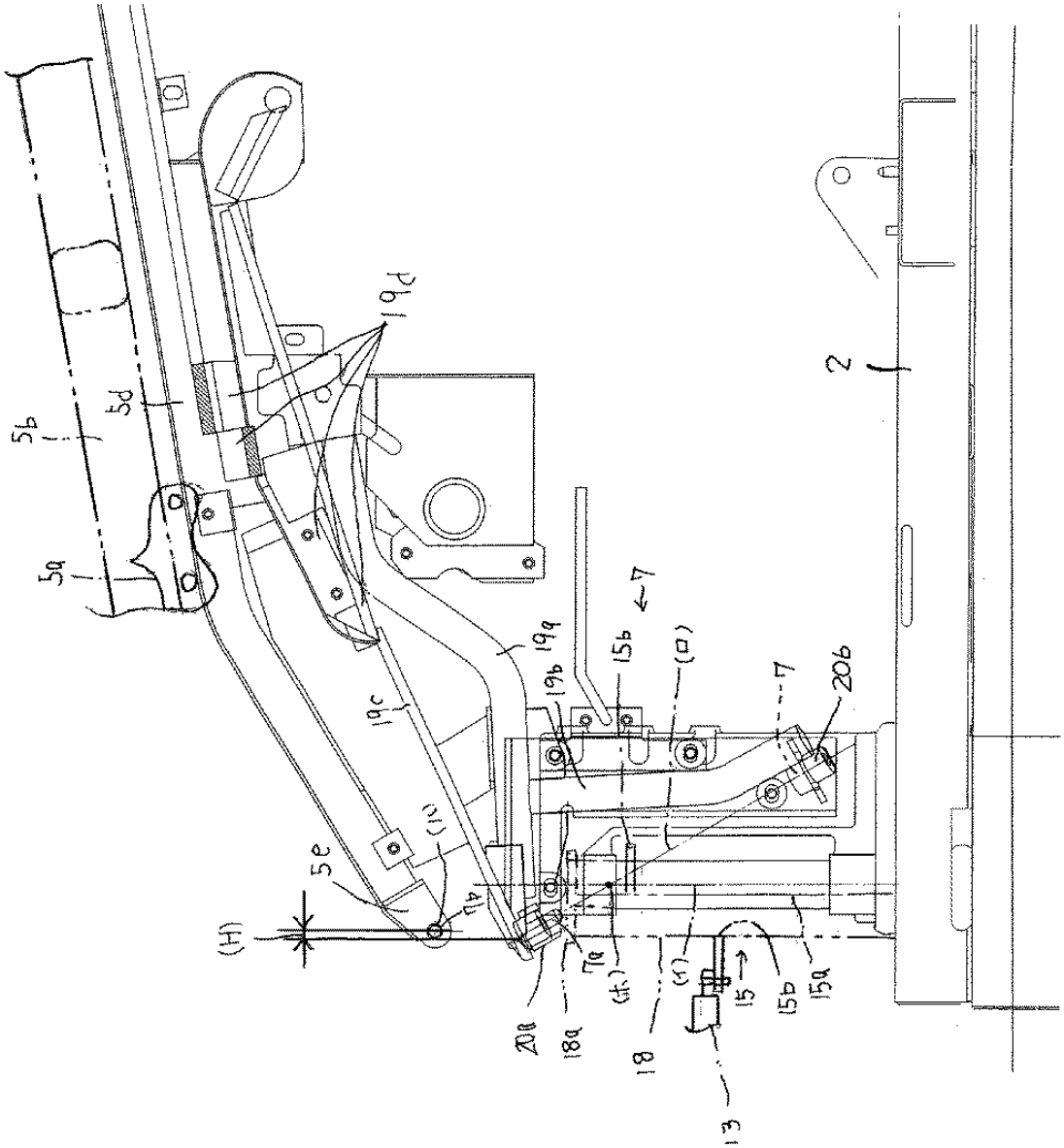
Family 532/667 - FAMPAT - ©Questel

Title

(JP2006034230)

Reaper-rotating device of combine

Images



Publication data including kind & date

JP2006034230 A 2006-02-09 JP2006034230

JP4867143 B2 2012-02-01 JP4867143

Abstract

(JP4867143)

PROBLEM TO BE SOLVED: To maintain and clean a reaper 3 for reaping cereal culms and conveying, and a thresher 4 for threshing the reaped cereal culms easily.

SOLUTION: The reaper 3 for reaping the cereal culms and conveying, and the feed chain 5 of the thresher 4 for threshing the reaped cereal culms are constituted by installing a reaping rotation-supporting device 15 for supporting to the outside of one side of its working state and non-working state as freely rotatable and a chain rotation-supporting device 7 individually, and also installing (i) a reaping rotation-supporting fulcrum part of the reaper 3 at the front side in the vicinity of (ii) a chain rotation fulcrum part of the feed chain.Also, the chain rotation-supporting device 7 is attached to the reaping rotation-supporting device 15 and installed by forming as one unit.Further, (i) the reaping rotation-supporting fulcrum part and (ii) the chain rotation-supporting fulcrum part are installed as crossing as a side view, and (iii) the rotation center of the beginning end of conveyance of the feed chain 5a is installed as positioned at the rear part from the upper end position of (ii) the chain rotation fulcrum part.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

TAKEUCHI KENICHIRO

MIZUSHIMA ATSUSHI

TOYODA KAZUO

Tomoyuki Ichimaru

Kentaro Tsuji

Latest standardized assignees - inventors removed

ISEKI

Family 533/667 - FAMPAT - ©Questel

Title

(US3555799)

Tree shaking mechanism

Images

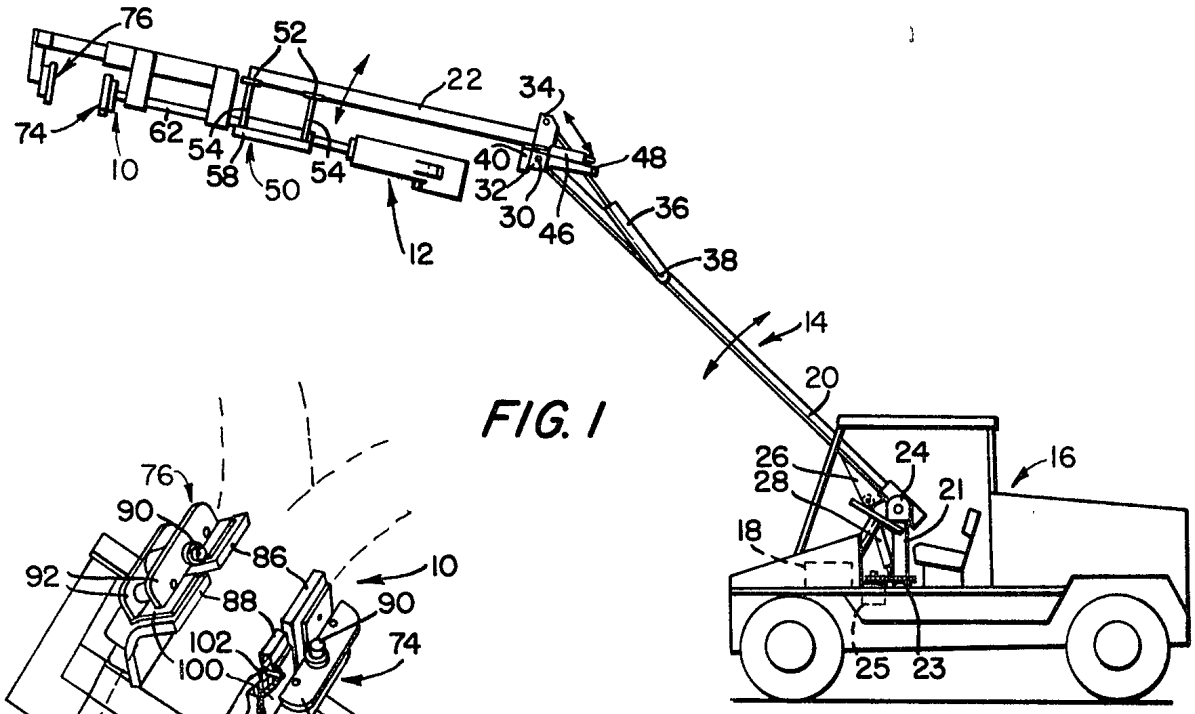


FIG. 1

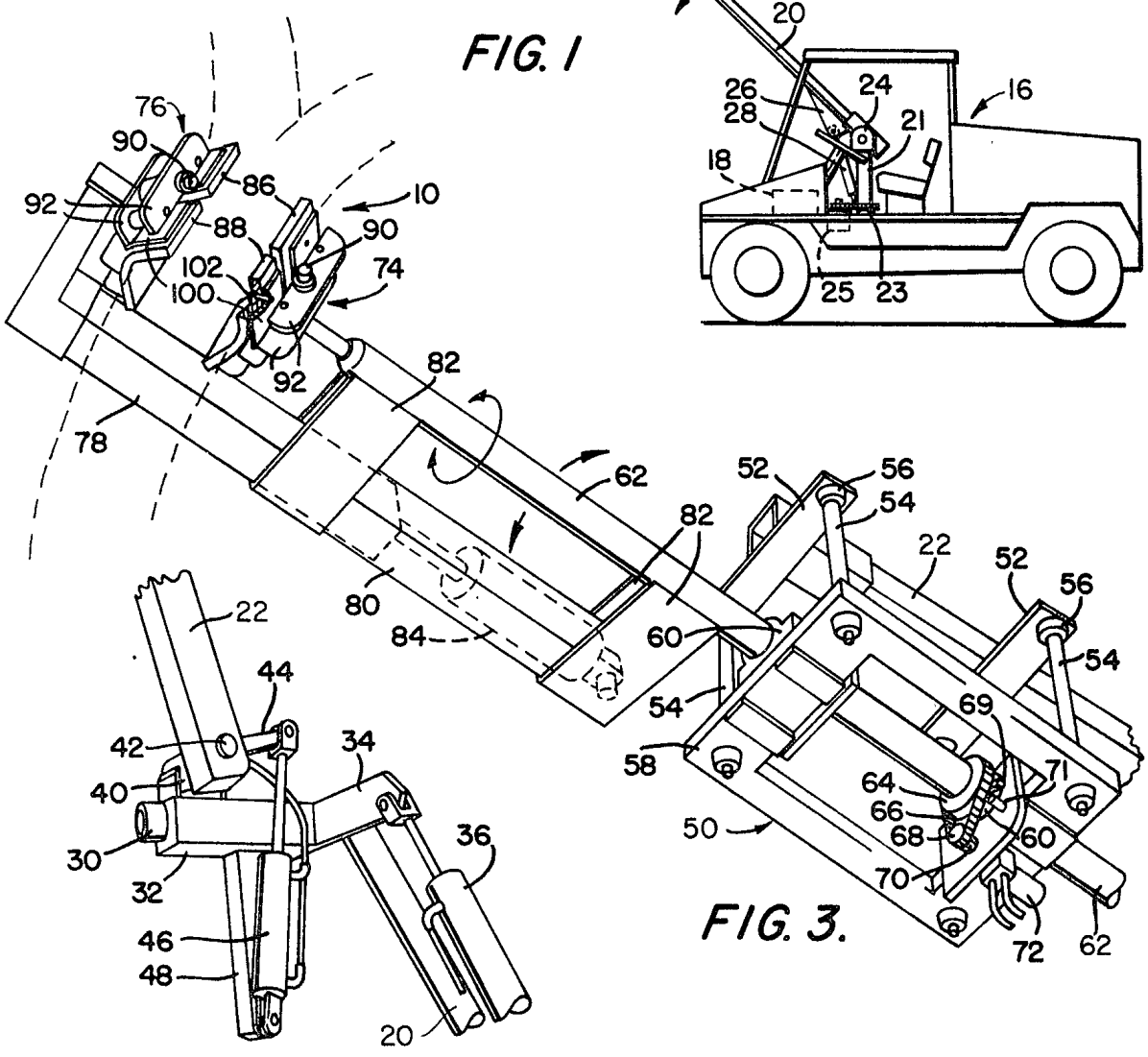


FIG. 3.

FIG. 2.

INVENTOR.
WILLIAM A. GERRANS

BY

Publication data including kind & date

US3555799 A 1971-01-19 US3555799

Inventors

GERRANS WILLIAM A

Latest standardized assignees - inventors removed

FARMHAND

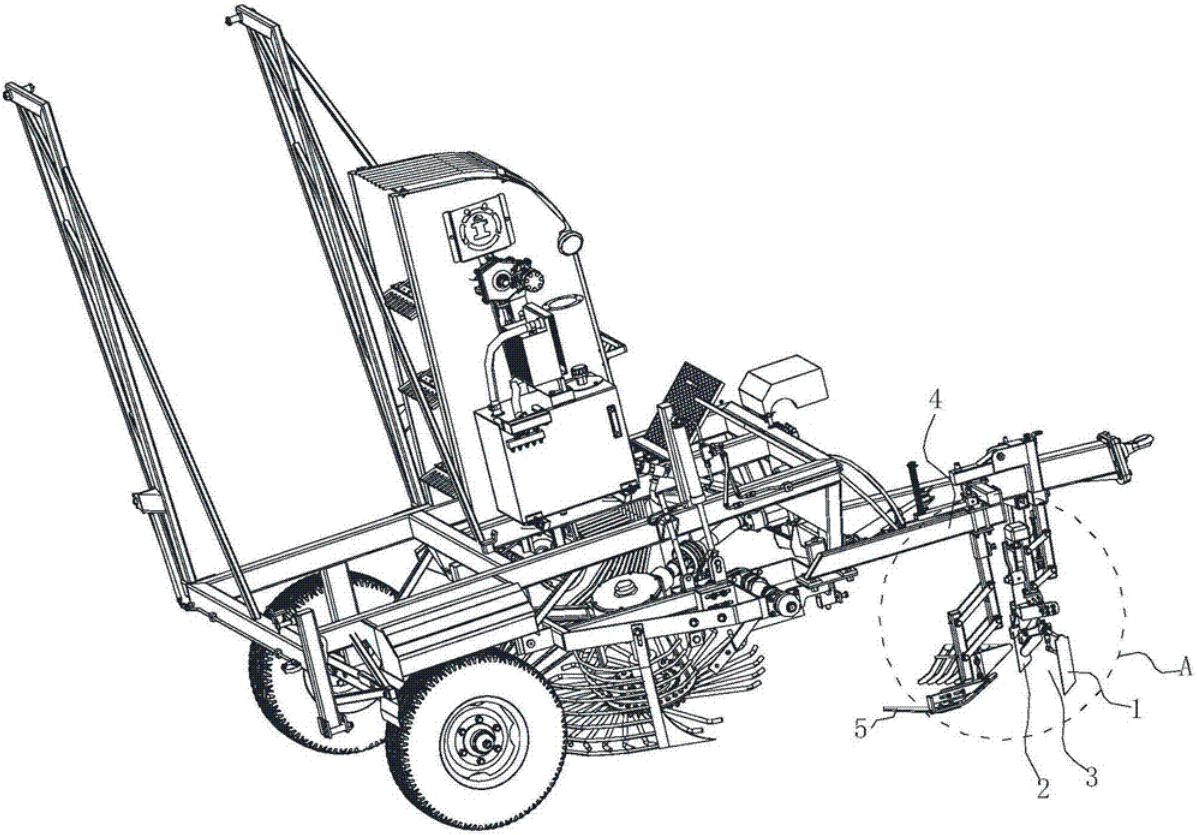
Family 534/667 - FAMPAT - ©Questel

Title

(CN108684290)

Method for agricultural harvesting machines of the row arrangement and method of use

Images



Publication data including kind & date

CN108684290 A 2018-10-23 CN108684290

Abstract

(CN108684290)

The present invention relates to the field of agricultural produce harvesting technology, in particular an agricultural harvesting machine of the row arrangement, comprising a frame, and a blade disposed on the frame, further comprising an actuator, 1st 2nd row blocks and to the row unit includes row block pair, 1st 2nd pair of rows spaced apart from the line block to be between pairs, to form a 1st notch, disposed on the frame for an actuator, a blade is fastened with the corresponding 1st, 1st through the head of the notched post Taine to, and then the blades to be cut.The present invention has the advantages of using: the cutting head in the course of Taine, 1st 2nd Taine is accomplished by providing a line block by line block from between the pair of the pair, it is possible to realize the head portion of resection Taine, the resection head in the course of Taine, 1st 2nd pair of row block acts as a positioning of the line block pair to act, in the course of the resection head Taine so as to facilitate the operation.

Inventors

GAO YUANMIN

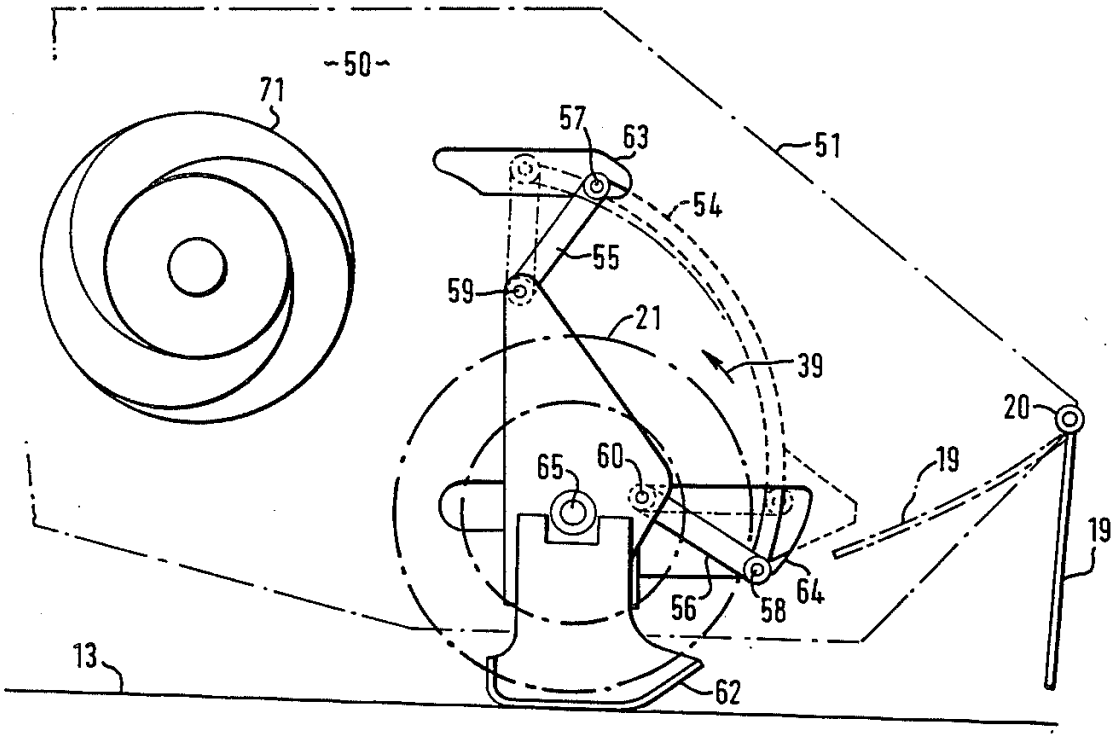
Family 535/667 - FAMPAT - ©Questel

Title

(US4539798)

Apparatus and method for conveying and/or treating crop

Images



Publication data including kind & date

US4539798 A 1985-09-10 US4539798

Abstract

(US4539798)

Apparatus for picking up cut crop from the ground or from a mower comprises a rotor driven so that the rotor picks up crop and carries the crop upwardly and rearwardly over the rotor.A hood extends over the front of the rotor and defines therewith a crop flow passage along which the crop is conveyed by the rotor.The hood is pivotally mounted by arms to side plates of the frame, and is movable along a predetermined path which is eccentric relative to the axis of the rotor.The hood is movable in response to and by the effect of the crop to effect automatic adjustment of the clearance at the entrance to the crop flow passage.An increased crop load moves the hood upwardly and rearwardly against the effect of gravity and optionally against a biasing spring.In other examples, only a front portion of the hood moves, and this may comprise a transverse roller suspended on a hinge above the entrance to the crop flow passage.

Inventors

KLINNER WILFRED E

Latest standardized assignees - inventors removed

BTG - BRITISH TECHNOLOGY GROUP

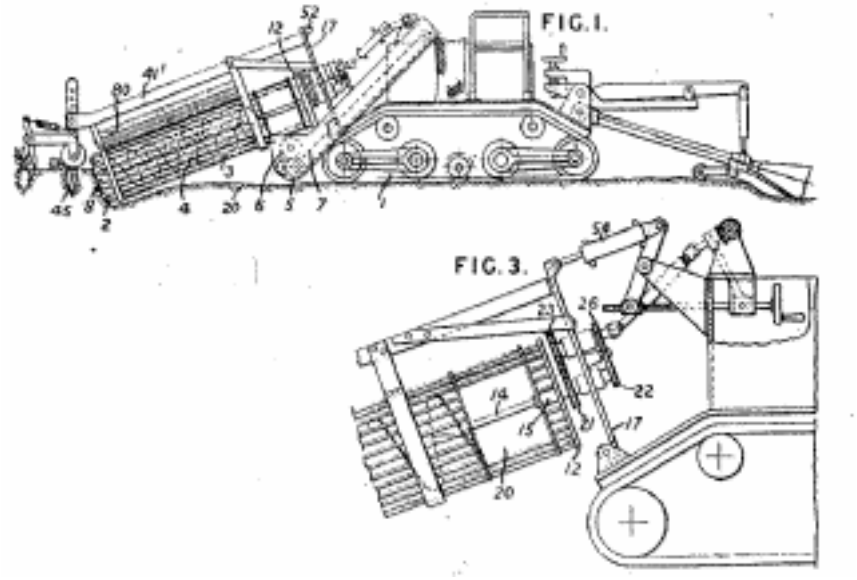
Family 536/667 - FAMPAT - ©Questel

Title

(GB-614144)

Improvements in or relating to machines for agricultural, land-working, mining and other purposes

Images



Publication data including kind & date

GB614144 A 1948-12-09 GB-614144

Abstract

(GB-614144)

614,144. Excavating earth.HAMLETT, H.W.July 10, 1946, No. 20583. [Class 68 (i)] [Also in Groups I and XXX] An excavating-machine comprises a tractor with one or more excavating tools in front which can be set at varying inclinations to the ground, each tool consisting of a tube having annular cutting means at its open lower end, and an internal worm conveyer, power drive motivating both tube and conveyer so that on forward motion of the machine a core of earth is cut which enters the tube and is conveyed therein by the worm conveyer.Fig. 1 shows such a machine adapted for harvesting root crops.The tractor 1 is fitted with a plurality of excavating tools, each of which comprises a cutter 2 with knives 8, a rotary perforated conveyer tube 3 and worm 4 which delivers the lifted crops through an opening 20 to a trough 5, wherein a pair of oppositely rotating worm conveyers 6 move the crops to each side of the machine from whence they are raised by elevators 7 to a delivery point.The tube 3 and worm 4 are driven in opposite directions by suitable gear-wheels 21, 22, 23 and 26, the worm-shaft 14 passing through a sleeve 15 on the end plate 12 of the conveyer.The working depth of the tools is adjustable by a front roller 45, the tools pivoting at the lower end of a bracket 17, the upper end of which has hydraulic means 54 connected to it at a point 52.A cleaning roller 80 is supported on a bar 41<SP>1</SP> to prevent earth clogging the tube. 3.The vertical movements of the roller 45 are transmitted to the hydraulic means by suitable connections.In a modification (Fig. 10, not shown), the pivot point of the bracket 17 is on a frame pivotally mounted on the tractor.Means are provided for raising the tools individually and collectively.Cultivating tools may be provided at the rear.Specification 610,571, [Group I], is referred to.The Provisional Specification also describes spring means in place of the hydraulic means, each means being so connected that on the mechanism meeting a large obstruction the engine will be disengaged.Power for the various parts may be provided from the tractor motor or a separate motor.

Latest standardized assignees - inventors removed

HARRY WILLIAMS HAMLETT

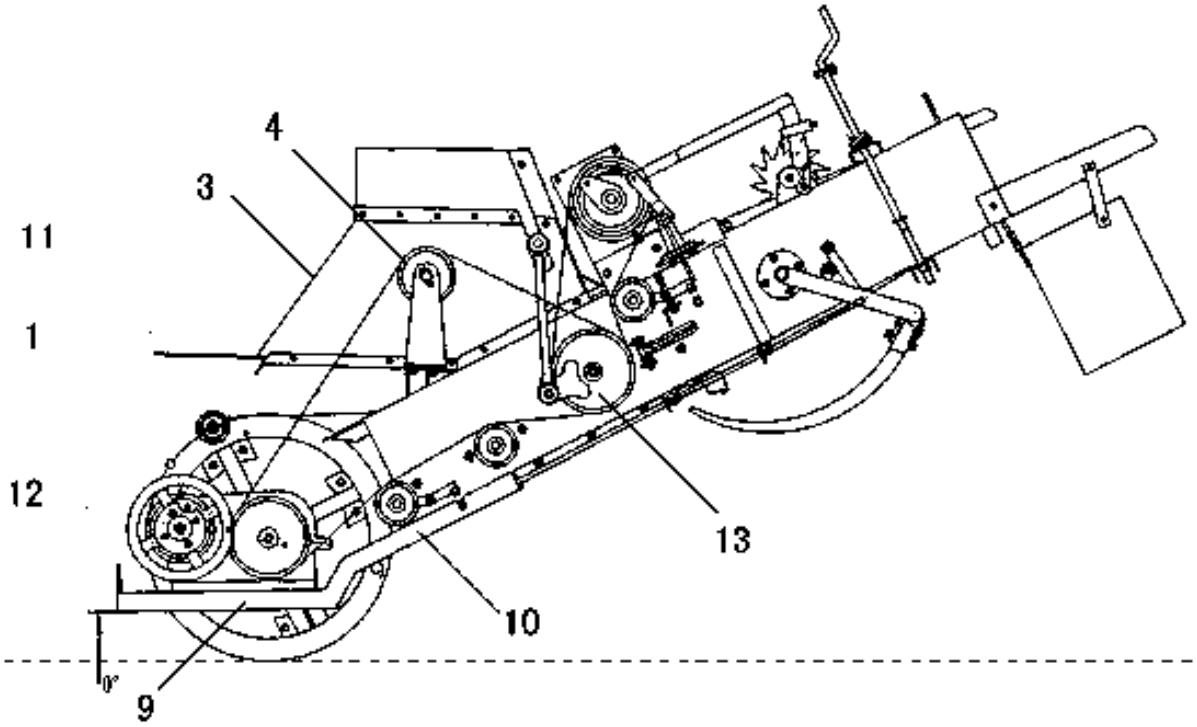
Family 537/667 - FAMPAT - ©Questel

Title

(CN204741813U)

Feeding backpack side bale straw baling machine

Images



Publication data including kind & date

CN204741813 U 2015-11-11 CN204741813U

Abstract

(CN204741813U)

The utility model provides a feeding backpack side bale straw baling machine, relates to crop straw and beats a bundle recovery technical field, and the compression case is tilt up setting backward in the past, and the compression incasement is equipped with the main piston, main piston front end swing joint connecting rod, connecting rod swing joint flywheel, the flywheel is driven by the speed reducer, the front upper place is equipped with grass collection box in the compression case, and the grass collection box middle part is provided with the feeding cylinder, and the grass collection box rear portion sets up the income grass mouth of vice piston, grass collection box's careless mouthful of intercommunication compression case of play, the well rear of compressing the case is provided with makes the packing needle, plays packing needle and knotter cooperation, and formation becomes to tie to knoing of straw piece, and compression case rear end is equipped with the bale export, in the grass collecting box body, last rear at the feeding cylinder is provided with the choke plate, the choke plate is vertically to slope to the back lower place.The utility model discloses beneficial effect is: it is supporting with combine, can reap and can play a bundle processing to the straw rice and wheat, work efficiency is high.

Inventors

ZHAO YONGQI

WANG JIANYONG

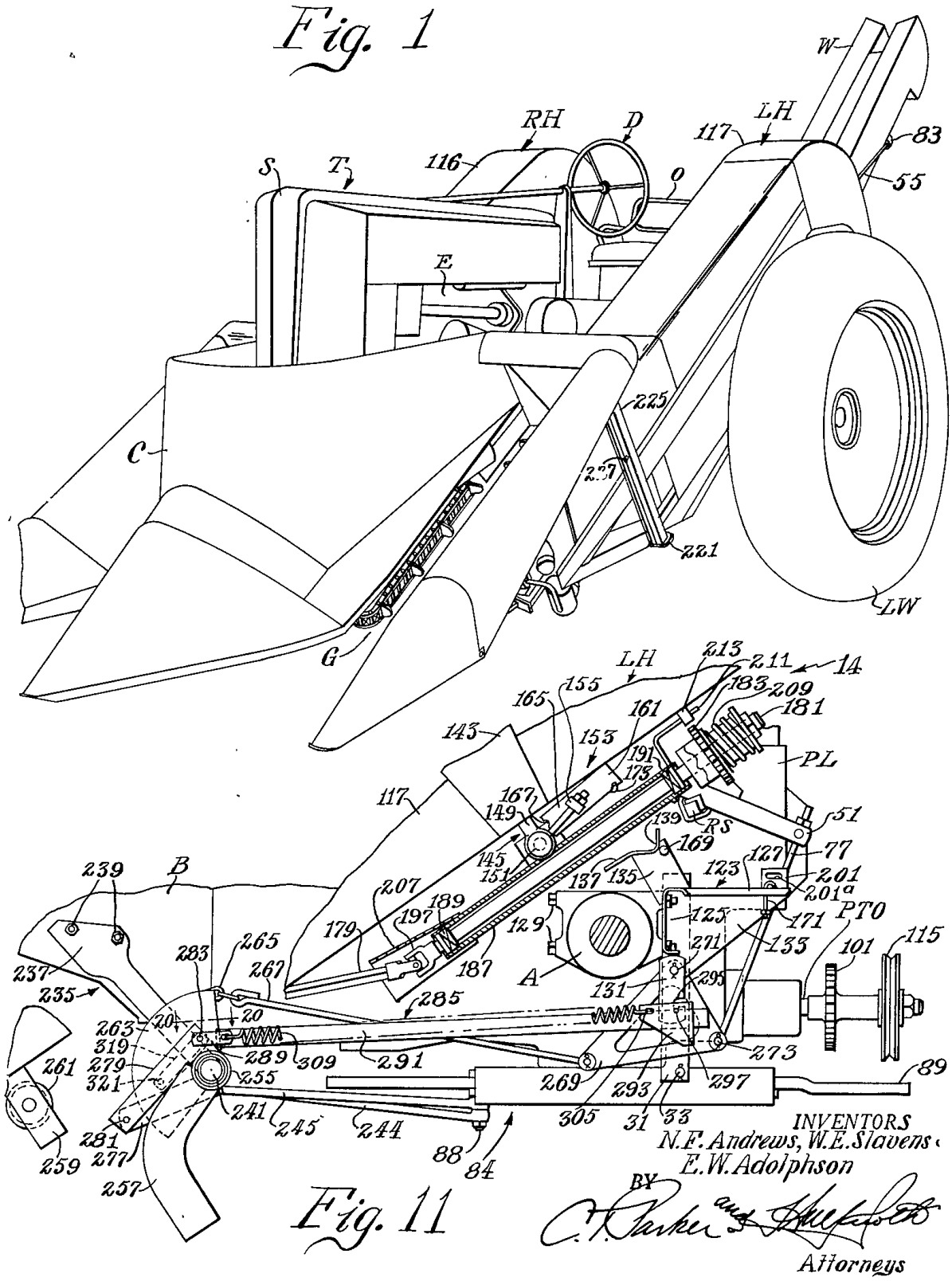
SONG GUOQIANG

Latest standardized assignees - inventors removed

HENAN ZHONGQI AGRICULTURAL MACHINERY SCIENCE & TECHNOLOGY

Family 538/667 - FAMPAT - ©Questel

Images



Publication data including kind & date

US2736152 A 1956-02-28 US2736152

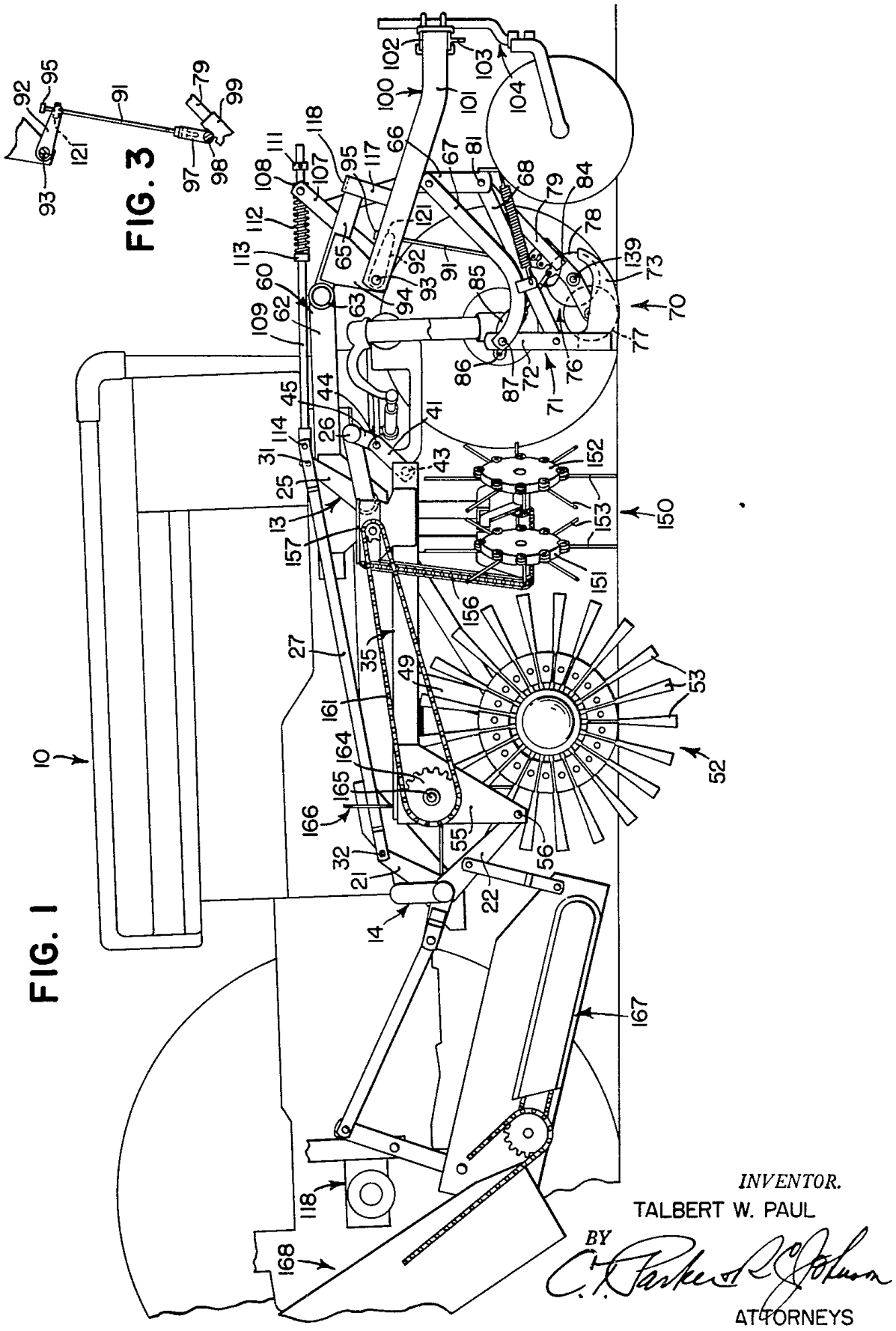
Family 539/667 - FAMPAT - ©Questel

Title

(US2795919)

Beet topping drive means

Images



Publication data including kind & date

US2751739	A	1956-06-26	US2751739
US2795919	A	1957-06-18	US2795919

Inventors

PAUL TALBERT W

Latest standardized assignees - inventors removed

DEERE

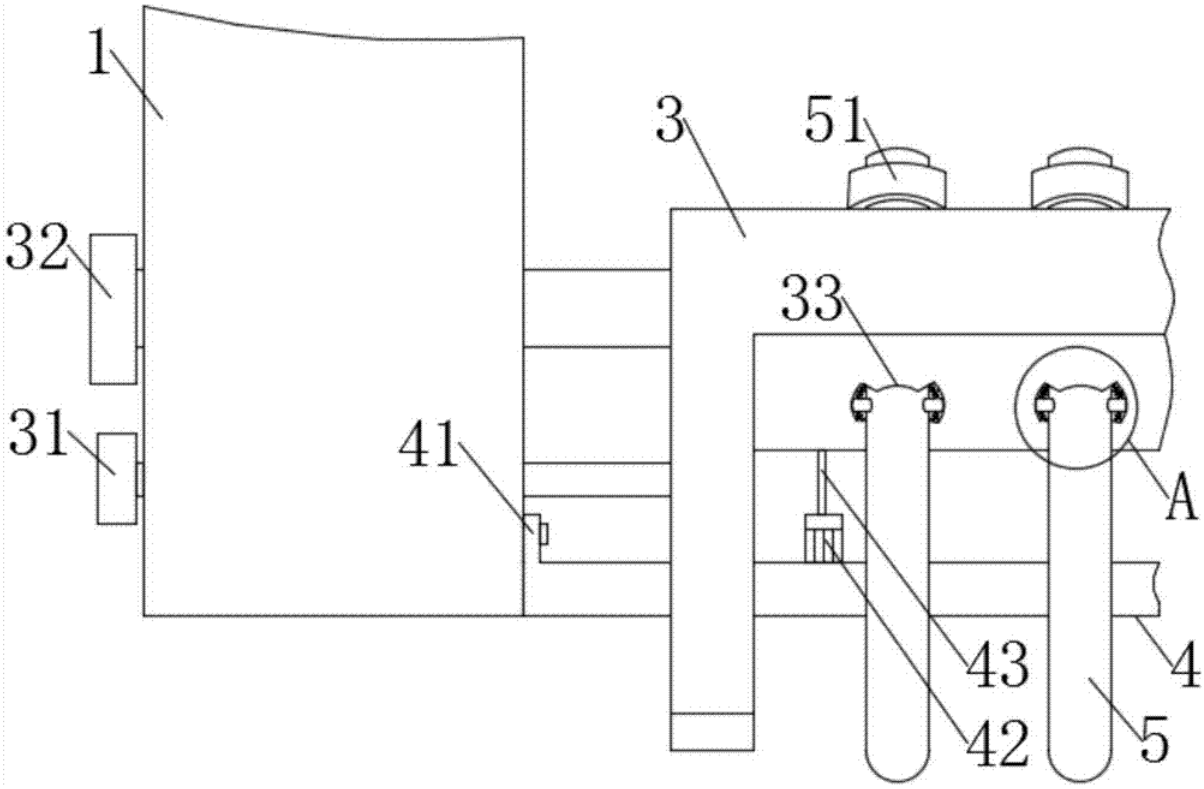
Family 540/667 - FAMPAT - ©Questel

Title

(CN207443498U)

A reaping apparatus for when rice is emptyd

Images



Publication data including kind & date

CN207443498 U 2018-06-05 CN207443498U

Abstract

(CN207443498U)

The utility model discloses a reaping apparatus for when rice is emptyd, including setting up a fixed plate, no.Two fixed plates in the frame and playing the standing grain stick, still be equipped with in the frame and stir the standing grain wheel, a fixed plate and no.Two fixed plates all set up in the below of stirring the standing grain wheel, through the cylinder on fixed plate and no.Twofixed plates with play a standing grain stick mating reaction, can be with the temporary transient pull -up of the rice after empting, reap through stirring the standing grain wheel afterwards, the efficiency of the rice is reaped is improved, the process of agriculture operation has been accelerated, be suitable for the area of reaping rainy water of season in the rice very much, it is equippedwith spacing post to play standing grain stick intermediate position, spacing post can round trip movement in rotating the inslot certain limit, made the standing grain stick can be when playing the standing grain make a round trip to rotate in the certain limit, the effect of shake rice with the surperficial muddy water of clearance rice has been played, muddy water was less when the rice was reaped, the follow -up processing of being convenient for, time saving and labor saving, and suitability for popularization.

Inventors

WU HONGLI

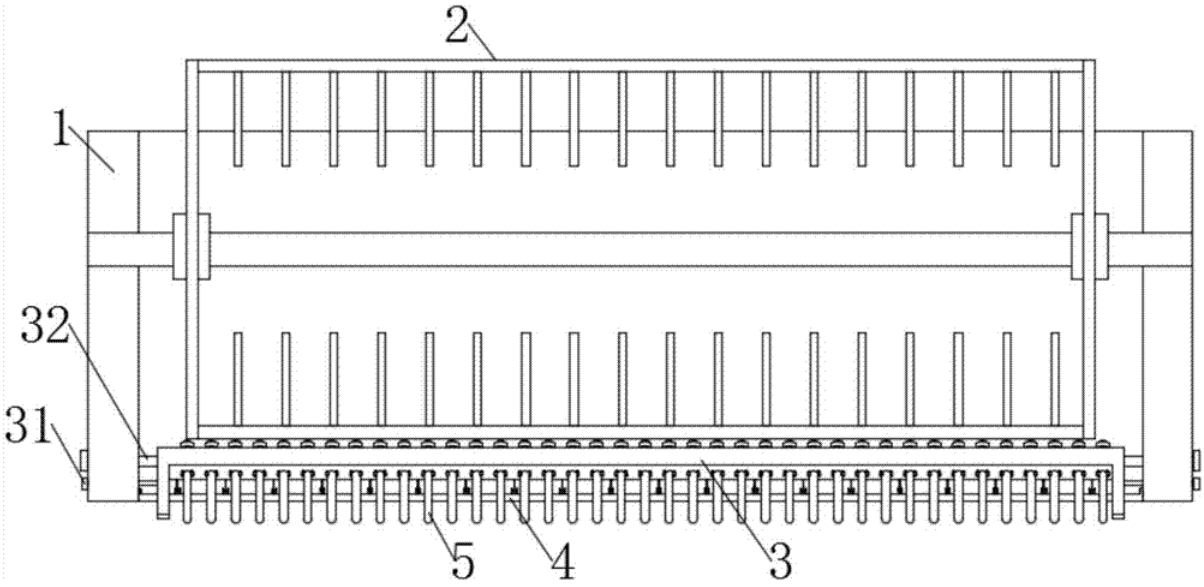
Family 541/667 - FAMPAT - ©Questel

Title

(CN107820843)

Harvesting device used when rice topples

Images



Publication data including kind & date

CN107820843 A 2018-03-23 CN107820843

Abstract

(CN107820843)

The invention discloses a harvesting device used when rice topples.The device comprises a first fixing plate, a second fixing plate, and a grain pulling-up bar arranged on a rack.The rack is also provided with a grain stirring wheel.The first fixing plate and the second fixing plate are arranged below the grain stirring wheel.Through cooperation of an air cylinder on the first fixing plate andthe second fixing plate, and the grain pulling-up bar, toppled rice can be pulled up temporarily.Then the rice is harvested through the grain stirring wheel.The device improves efficiency of rice harvesting, accelerates agricultural work process, and is especially suitable to be used in regions which have much rain in a rice harvesting season.The middle position of the grain pulling-up bar isprovided with a limiting column.The limiting column can move back and forth in a certain range in a rotating groove, so the grain pulling-up bar can rotate back and forth in a certain range while pulling up grain.The device has effects of shaking rice and cleaning mud on the surfaces of rice, so little mud exists when rice is harvested, providing convenience for subsequent processing.The devicesaves time and effort, and is suitable for popularization.

Inventors

YANG LIMING

CHEN ZENAN

RU LINGFENG

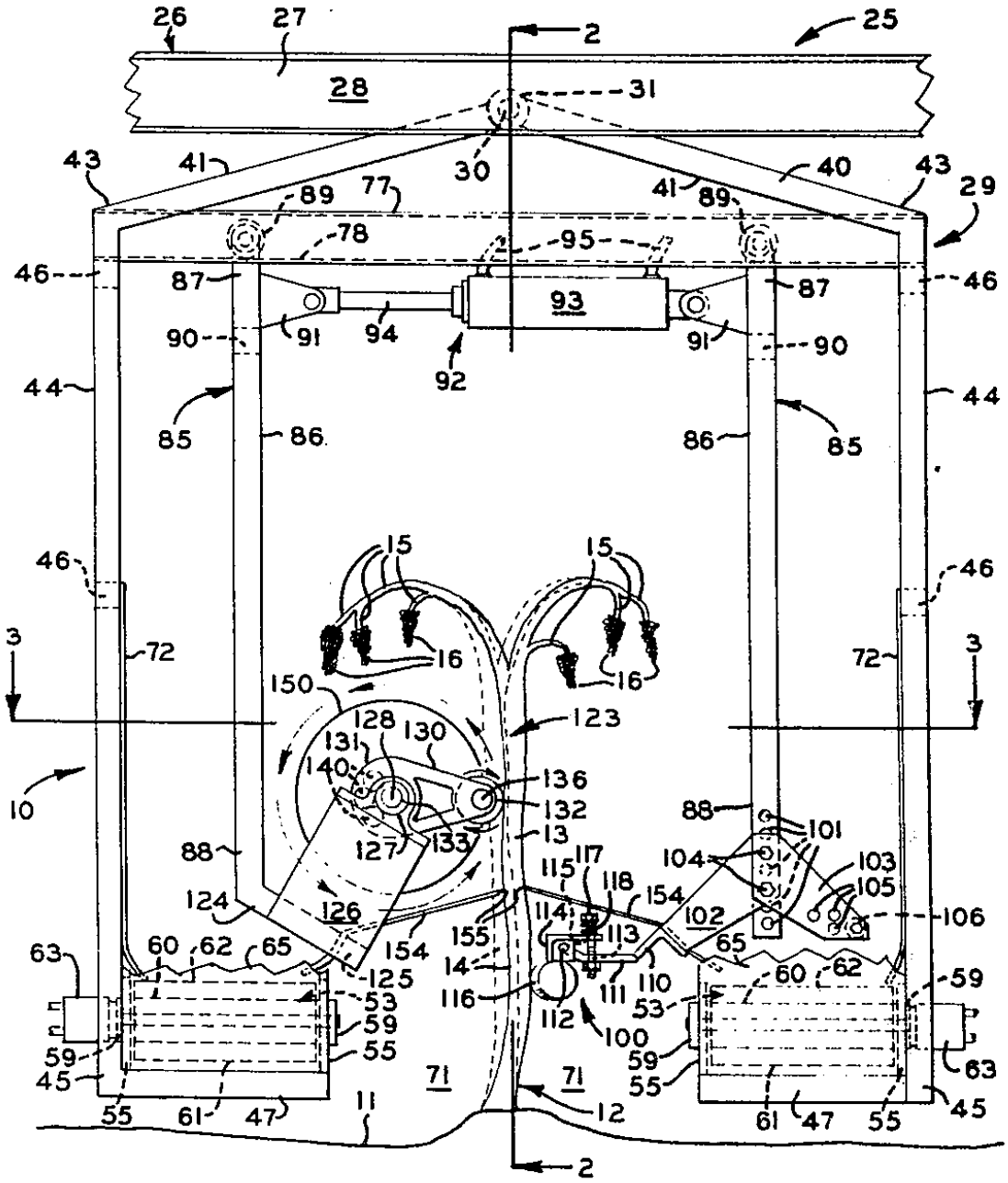
Family 542/667 - FAMPAT - ©Questel

Title

(US4207727)

Harvesting device

Images



Publication data including kind & date

US4207727 A 1980-06-17 US4207727

Abstract

(US4207727)

A harvesting device having a harvesting member elongated along a longitudinal axis; mounts affixing the member for rotation about an axis of rotation eccentric to the longitudinal axis of the member; and a mechanism for rotating the member about the axis of rotation to impart a crop dislodging motion.

Inventors

POYTRESS RODERICK J

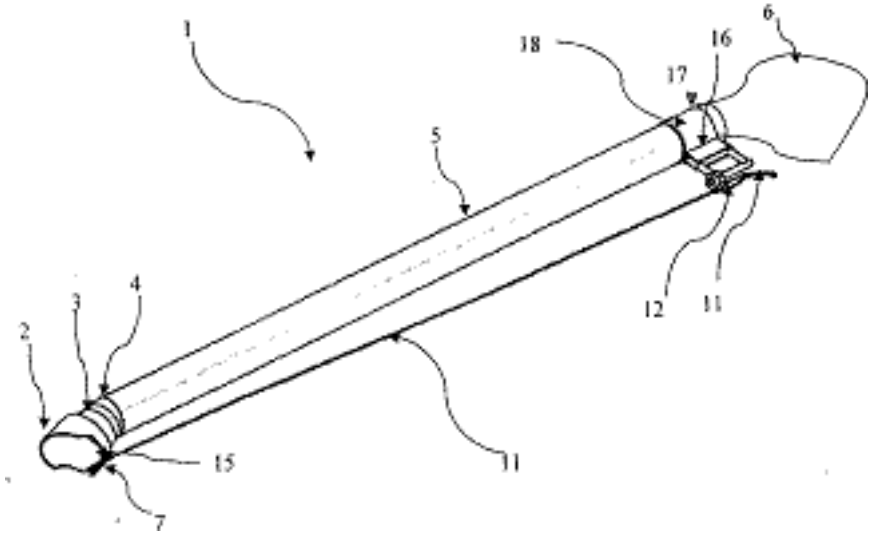
Family 543/667 - FAMPAT - ©Questel

Title

(IN2012MU01722)

Fruit harvesting device

Images



Publication data including kind & date

IN1722/MUM/2012 A 2014-02-14 IN2012MU01722

Abstract

(IN2012MU01722)
The present invention is related to fruit harvesting device wherein a pair of scissor actuated manually detach the desired fruit from the tree and guide it to the collecting means safely.The said device detaches the fruit with some portion of peduncle without imparting any damage to the fruit that help to increase the storage period/shelf life and market value of the fruits.The device is light in weight, compact and easy to transport; and gives higher output capacity as compared to the other prior art fruit harvesting devices.The fruit harvesting device of the invention is low cost and easy to manufacture.

Inventors

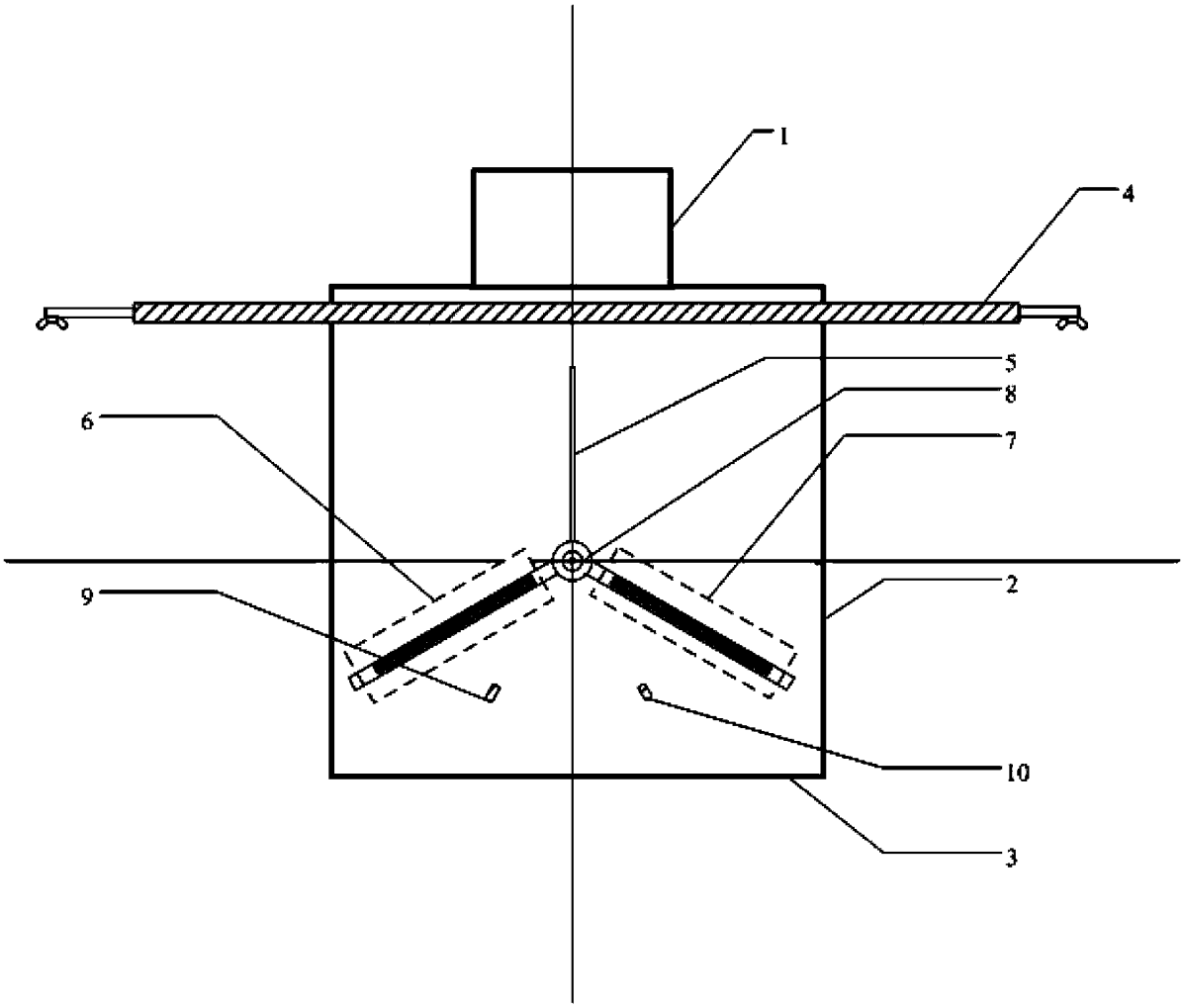
DESHMUKH MRUDULATA MANOJ

Family 544/667 - FAMPAT - ©Questel

Title

(CN103262704)
Real-time peanut output measuring device

Images



Publication data including kind & date

CN103262704	A	2013-08-28	CN103262704
CN103262704	B	2016-03-30	CN103262704B

Abstract

(CN103262704B)

The invention provides a real-time peanut output measuring device and solves the problem that peanut output cannot be measured in real time during harvesting in the prior art.The real-time peanut output measuring device comprises a measuring box and two structurally telescopic fixing devices arranged on two sides of the measuring box.A partition, two output measuring sensor devices and two electromagnets are enclosed in the measuring box and connected on a same rotating shaft.The measuring box is divided into a left measuring chamber and a right measuring chamber by the partition, the two output measuring sensor devices are respectively mounted in the left and right measuring chambers, and after peanuts enter the measuring device, the left and right output measuring sensor devices measure peanut output alternatively, and total output of peanuts can be obtained by summing the measured outputs of the two output measuring sensor devices.

Inventors

LI JUAN
ZHANG PENG
YIN XIKE
YANG RANBING
KUANG JUN
WANG ZHIQIU
YANG SHAOHUA

Latest standardized assignees - inventors removed

QINGDAO AGRICULTURAL UNIVERSITY

Family 545/667 - FAMPAT - ©Questel

Title

(US3778865)

Attachment for a utility vehicle or for a trailer of such vehicle

Images

SHEET 1 OF 3

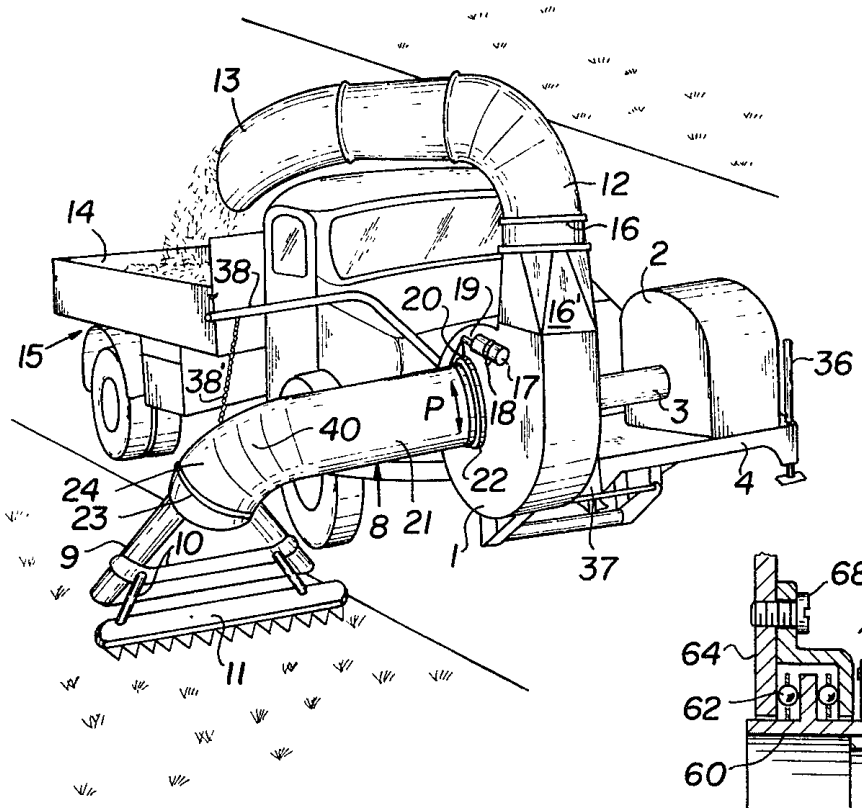


FIG. 1

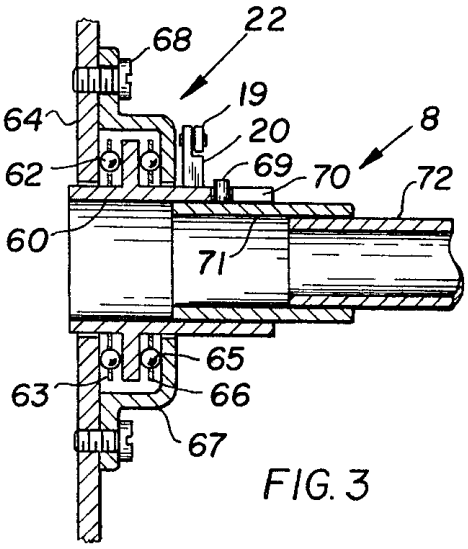


FIG. 3

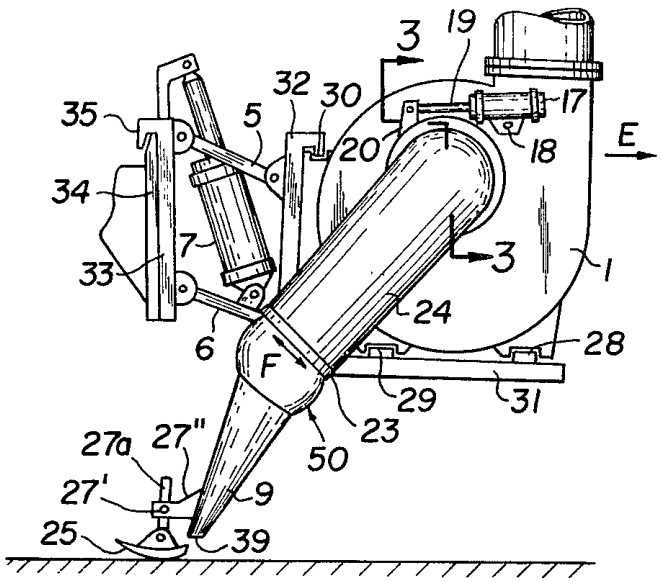


FIG 2

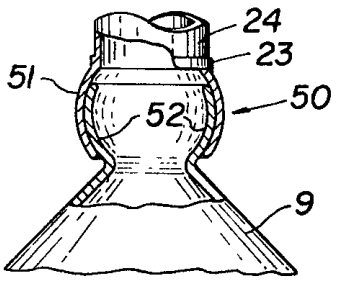


FIG.4

Publication data including kind & date

FR2066011	A5	1971-08-06	FR2066011
NL7013359	A	1971-12-22	NL7013359
DE2030579	A1	1972-01-13	DE2030579
CH517865	A	1972-01-15	CH-517865
GB1282085	A	1972-07-19	GB1282085
NL7114987	A	1973-01-25	NL7114987
DE2136841	A1	1973-02-15	DE2136841
FR2147544	A6	1973-03-09	FR2147544
CA924855	A	1973-04-24	CA-924855
CH537498	A	1973-05-31	CH-537498
GB1329923	A	1973-09-12	GB1329923
NO128411	B	1973-11-12	NO-128411
US3778865	A	1973-12-18	US3778865
AT313352	B	1974-02-11	AT-313352
IT969039	B	1974-03-30	IT-969039
AT320006	B	1975-01-27	AT-320006
ES392360	A1	1975-06-01	ES-392360
DK133904	B	1976-08-09	DK-133904
DK133904	C	1977-01-24	DK-133904C
ES396671	A2	1977-07-01	ES-396671

Abstract

(US3778865)

The invention relates to an attachment for a utility vehicle or trailer pulled by the utility vehicle.The attachment picks up items such as mowed grass or dirt, on or adjacent to a road for loading into the vehicle.A suction fan with inlet and outlet conduits forms part of the attachment.The inlet or suction conduit has a horizontal leg and a trailing leg.A suction nozzle is secured to the free end of the trailing leg.Rotating means are provided between a fan housing and said horizontal leg and/or between said nozzle and said trailing leg for rotating the suction conduit about a horizontal axis and/or the nozzle about the sloping axis of said trailing leg, whereby the nozzle is maintained in a trailing position and enabled to follow automatically the shape of the ground.

Inventors

SCHMIDT A

PASTARI G

Latest standardized assignees - inventors removed

SCHMIDT ALFRED FA

Family 546/667 - FAMPAT - ©Questel

Title

(US1734391)

Corn picker

Images

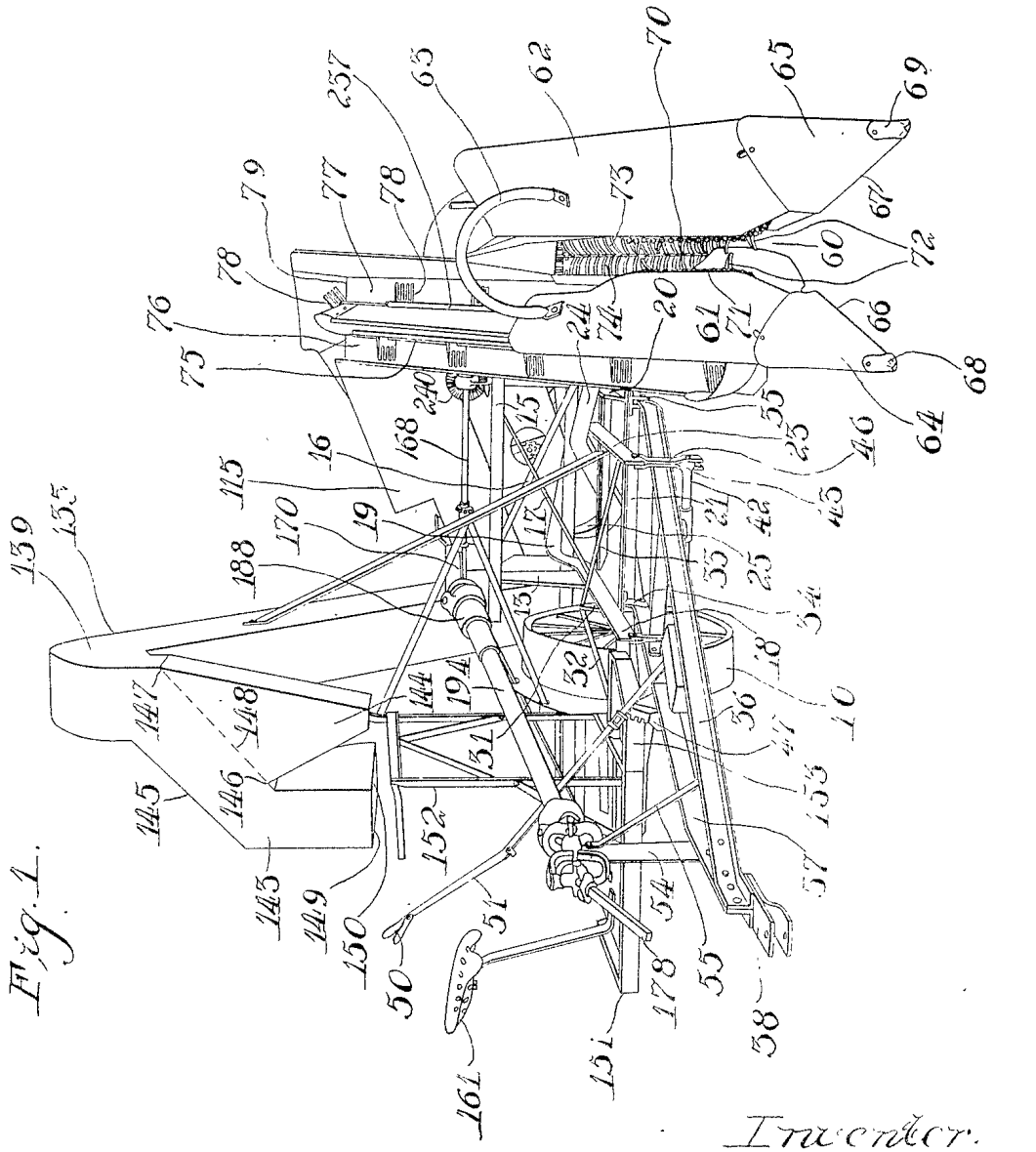


Fig. 1.

Publication data including kind & date

US1734391 A 1929-11-05 US1734391

Inventors

MITCHELL ROBERT M

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

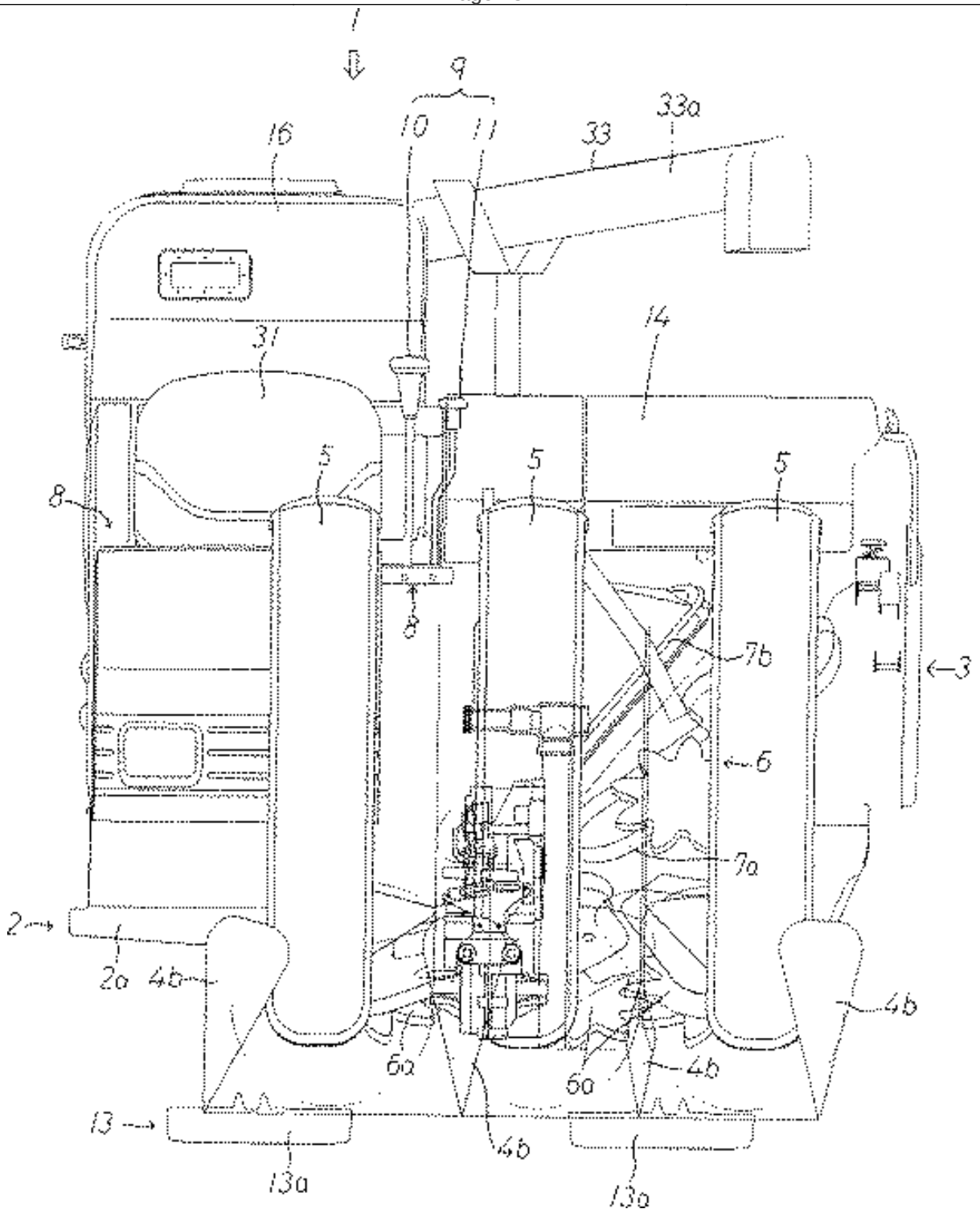
Family 547/667 - FAMPAT - ©Questel

Title

(JP2004024134)

Operating lever device of combine

Images



Publication data including kind & date

JP2004024134 A 2004-01-29 JP2004024134

Abstract

(JP2004024134)

PROBLEM TO BE SOLVED: To improve forward visibility from among respective raise-up devices for raising up grain culms, and to facilitate the operations of main and auxiliary gearshift levers of an operating means of a driving operation device for changing the speed of a traveling vehicle.

SOLUTION: Either one or both of the main gearshift levers 10 and 11, which are to be used for changing the speed of the traveling vehicle, of the operating means 9 of the device 8 is or are arranged among the raise-up devices 5 and 5 for raising up the grain culms to be reaped, The device 10 or the device 11 is arranged between the device 5 at the right side end, in a front view, of a reaper 3 for reaping three rows of the grain culms and the second device 5 from the right side.When the reaper 3 is operated for ascent, the levers 10 and 11 are provided in the respective devices 5 and 5 in the state of overlapping each other in a side view.

COPYRIGHT: (C)2004,JPO

Inventors

SATOJI HISAYUKI
IWAMOTO HIROSHI
NAGAI TOSHIRO
WATABE HIROKI

Latest standardized assignees - inventors removed

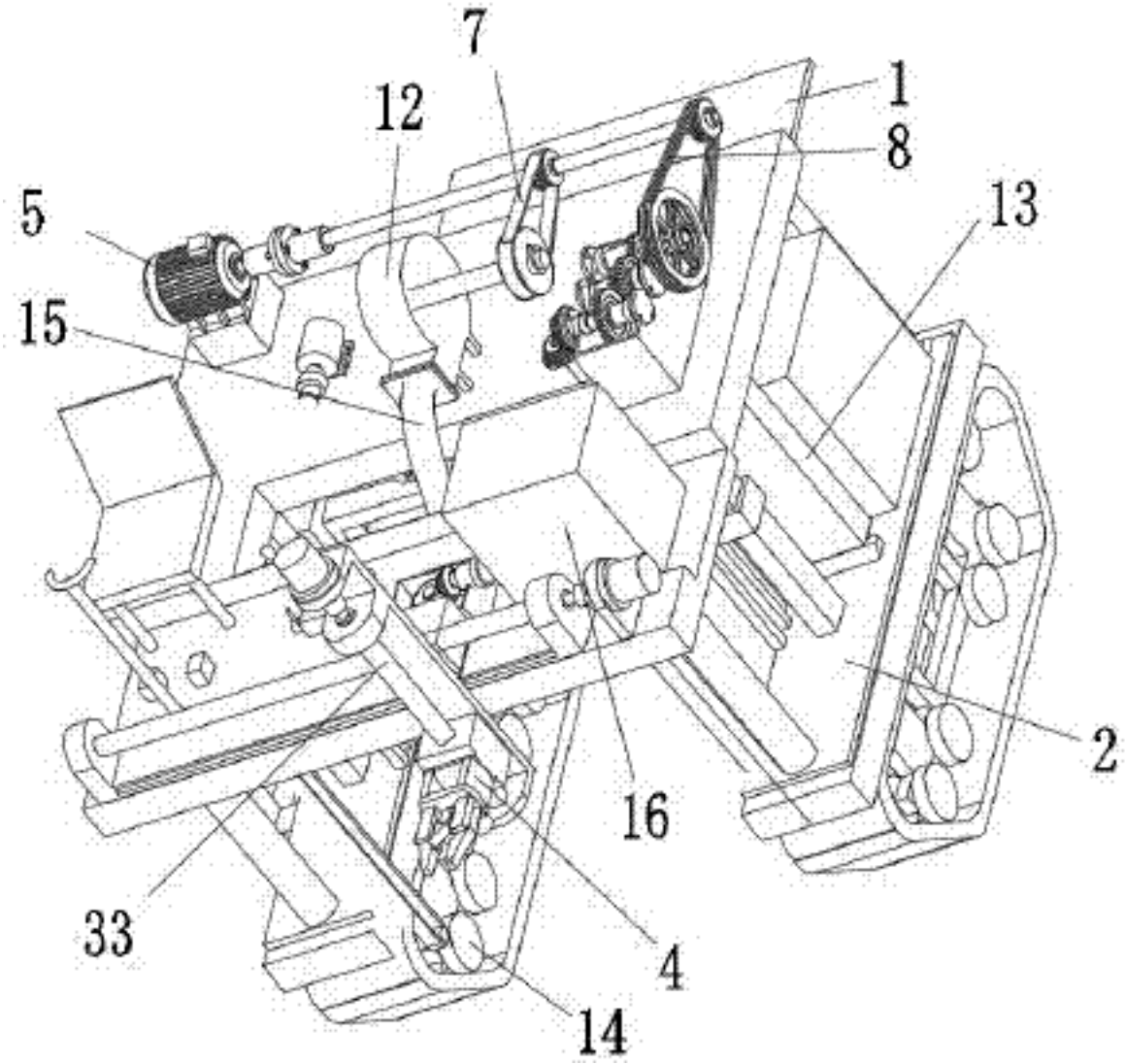
ISEKI AGRICULTURAL MACHINERY

Family 548/667 - FAMPAT - ©Questel

Title

(CN106358590)
Self-propelled tea picking device

Images



Publication data including kind & date

CN106358590	A	2017-02-01	CN106358590
CN106358590	B	2018-03-02	CN106358590B

Abstract

(CN106358590B)

The invention discloses a self-propelled tea picking device which mainly comprises a walking transmission system, a tea picking and trimming mechanism transmission system, a tea picking workbench ascending and descending system, a tea leaf collecting system and a tea leaf picking system.The tea picking and trimming mechanism transmission system is used

for realizing non-selective picking of bulk tea leaves, the tea leaves are conveyed into a collecting bag through the air blowing of a centrifugal fan; the walking transmission system achieves the functions of straight walking, turning and speed changing of the tea picking device through gear shifting of a gear shifting fork of a gearbox; in the tea picking workbench ascending and descending system, mainly a hydraulic motor rotates to drive a steel wire rope to hang up the tea picking workbench, and the forward and reverse rotation of the hydraulic motor can be adjusted according to the growth height of the tea tree, so as to control the tea picking workbench to ascend and descend; after the tea picking is finished and when unloading of the tea leaves is needed, inclination of a tea unloading plate can be controlled through telescoping of the hydraulic cylinder to complete unloading of the tea leaves; the tea leaf picking system adopts a cross sliding table to control a tea leaf picking manipulator to accurately pick up the tea leaves.The device has extremely high tea picking efficiency, greatly reduces labor intensity and saves cost.

Inventors

HU XINYU
YI FAN
ZHANG DAODE
YI JUN
ZHANG DONG
CAI HENG

Latest standardized assignees - inventors removed

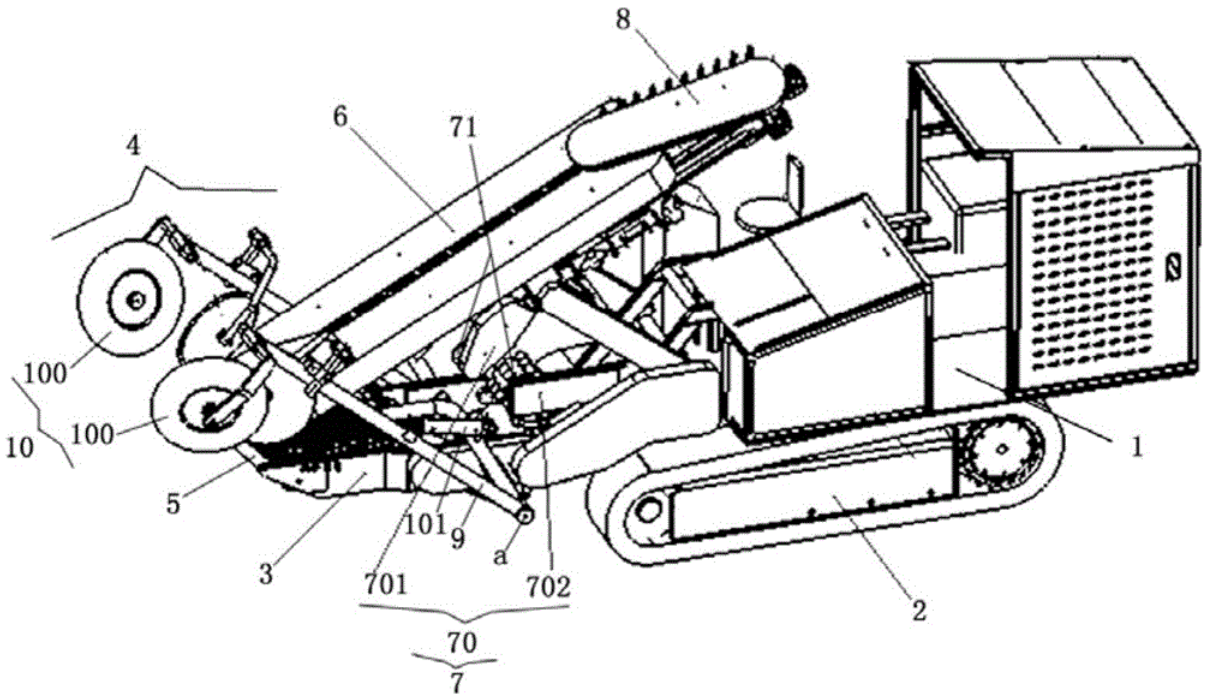
HEBEI UNIVERSITY OF TECHNOLOGY

Family 549/667 - FAMPAT - ©Questel

Title

(CN106211937)
Method for harvesting green Chinese onion

Images



Publication data including kind & date

CN106211937 A 2016-12-14 CN106211937

Abstract

(CN106211937)

The invention discloses a method for harvesting green Chinese onion.The method comprises the following steps: 1) while shoveling soil, forming two cutting slots by a soil-separating device; 2) backwardly moving the shoveled green Chinese onion, primarily removing the soil on the roots of the green Chinese onion by using a comb-shaped joint part and then

leading a longitudinal conveying device; 3) vertically clamping the green Chinese onion in the longitudinal conveying device, using a soil-shaking device for shaking off the soil on the roots of the green Chinese onion in the conveying process, thereby realizing the secondary removing of the soil on the roots of the green Chinese onion; 4) after the soil is removed, moving the green Chinese onion from the longitudinal conveying device to the horizontal conveying device, and rotating the green Chinese onion through an inclined channel and gradually backward conveying; and 5) when the green Chinese onion is conveyed to the discharging end, correcting to the horizontal state by the guiding mechanism, thereby completing the secondary rotation, and then conveying to a stacking area and completing the packing.According to the method provided by the invention, the shoveling soil volume can be reduced, and meanwhile, the secondary removal for the soil on the roots of the green Chinese onion and the secondary rotation for the green Chinese onion are adopted, so that the stacking and packing operations can be conveniently performed.

Inventors

LIU KAI

YAO RONGDE

LU ZHENGQI

Latest standardized assignees - inventors removed

WOHUA AGRICULTURAL SCIENCE & TECHNOLOGY

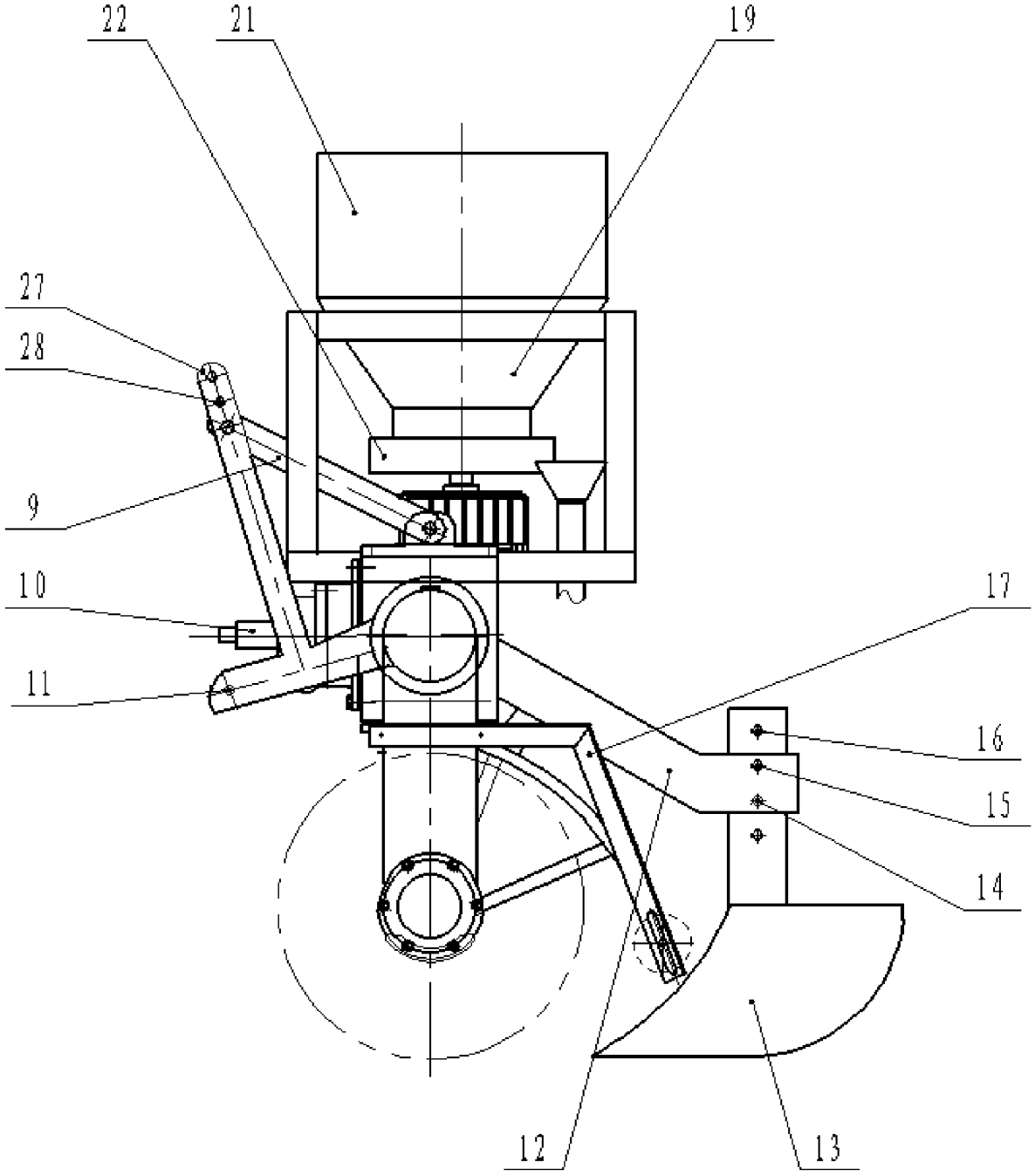
Family 550/667 - FAMPAT - ©Questel

Title

(CN203015474U)

Multifunctional modularized sugarcane combined tillage machine

Images



Publication data including kind & date

CN203015474 U 2013-06-26 CN203015474U

Abstract

(CN203015474U)

The utility model discloses a multifunctional modularized sugarcane combined tillage machine and aims to provide the multifunctional modularized sugarcane combined tillage machine which is capable of achieving various functions of rotary tillage and row-forming, rationing, ridge-breaking, fertilizing and film mulching, intertillage weeding fertilizing and hilling and the like, being suitable for hilly topography sugarcane field operation, and satisfying new agricultural demands.The multifunctional modularized sugarcane combined tillage machine comprises a rack and a speed reduction gear box which is arranged at the lower portion of the rack, wherein extensible arms are arranged on the left side and the right side of the speed reduction gear box, a gear transmission box is arranged on the outer side of each extensible arm, a fixing plate is arranged below the speed reduction gear box, a rotary blade is arranged between the speed reduction gear box and the fixing box, a plough installation rack frame is arranged on the back lower portion of the rack, a hilling row-forming plough is installed on the plough installation rack frame, and the multifunctional modularized sugarcane combined tillage machine further comprises a fertilizing mechanism.The multifunctional modularized sugarcane combined tillage machine is suitable for integrated joint production of deep plough and deep scarification, intertillage, fertilizing and hilling, and rationing,

fertilizing and film mulching and the like of new agriculture of sugarcane planting.

Inventors

TAN ZHENWEI

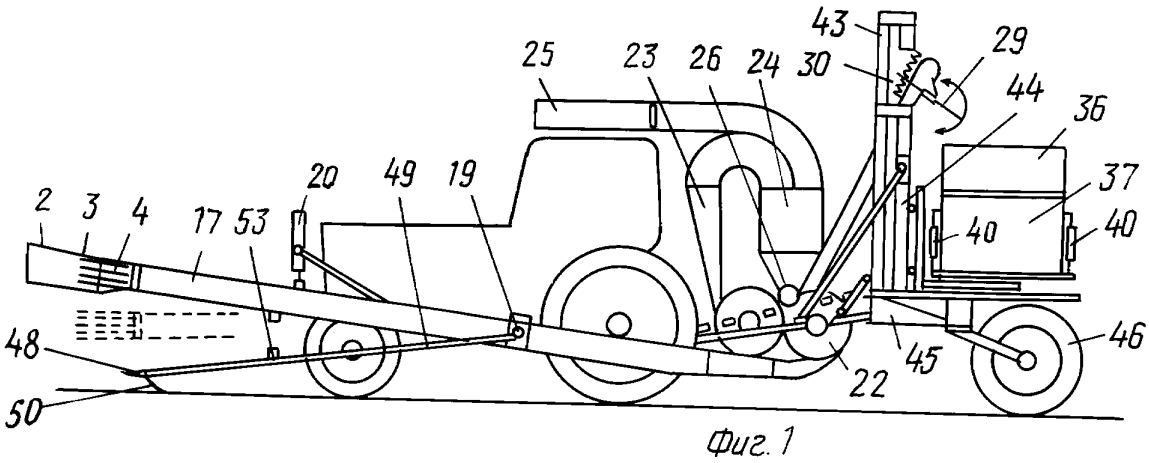
Family 551/667 - FAMPAT - ©Questel

Title

(RU2177682)

Pneumatic grain combine

Images



Фиг. 1

Publication data including kind & date

RU2177682 C2 2002-01-10 RU2177682

Abstract

(RU2177682)

agricultural engineering.SUBSTANCE: grain combine has header with cutterbar, pneumatic conveyors, vortex-type pneumatic thresher, separating pneumatic chamber and grain hopper.Cutterbar has rotors arranged in pairs on vertical shafts for rotation in opposite directions.Horizontal self-sharpening knives are arranged in two tiers on rotors.Rotor vertical shafts are kinematically connected with combine mechanical drive and mounted on frame forward of suction nozzles of pneumatic suction conveyors which are communicated with vortex-type thresher.Threshed fibrous heap is directed via pneumatic delivery conveyor into pneumatic separation chamber and is further delivered into grain hopper.Wastes are spread over field or directed into chaff collector movable laterally of combine.Cutterbar for stalk part of yield is arranged below cutterbar for grain part of yield on frame and is supported by curved gauging skids.Grain combine of such construction provides for effective harvesting of cereal crops combined with threshing and separation operations.EFFECT: increased efficiency and simplified construction. 2 cl, 6 dwg

Inventors

SIDOROV N A

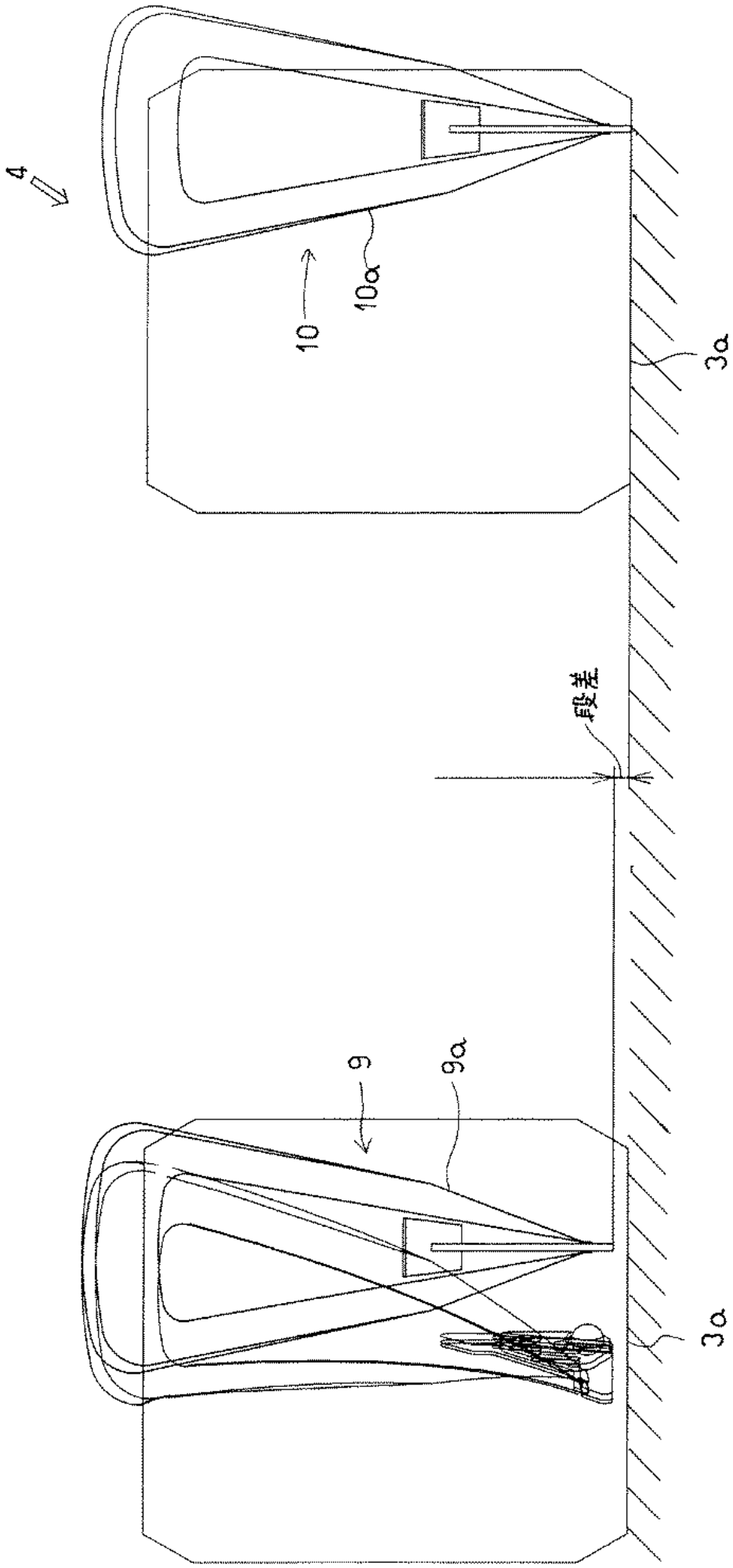
Family 552/667 - FAMPAT - ©Questel

Title

(JP2007166920)

Combine

Images


4
10
10a
3a
段差
9
9a
3a

Publication data including kind & date

JP2007166920	A	2007-07-05	JP2007166920
JP4548330	B2	2010-09-22	JP4548330

Abstract

(JP4548330)

PROBLEM TO BE SOLVED: To solve a problem such that since a grass-divider is installed at the front part of a reaper for reaping and conveying cereal culms, and the grass-divider at right hand side end part is rotatively moving by an operation of a remotely operable lever, and when the reaper is operated as descending and made a contact with the surface of the field, the lower end part of the grass-dividing plate of the right hand side end part grass-divider also makes a contact with the surface of the field, and on operating the rotary movement in that state, the grass-divide guiding plate is sometimes broken.

SOLUTION: This combine is provided with that the grass-divider 9 positioned at the right hand side end part among a multiple number of grass-dividers 9, 10 is constituted as capable of changing its position in left and right direction by a lever 20 installed in the vicinity of a steering seat 18 loaded on a traveling vehicle platform 2, and when the reaper 4 is operated as descending to make a contact with the surface of the field, the lower end part of the grass-dividing plate 9a of the right hand side end part grass-divider 9 is constituted so as not to make a contact with the surface of the field.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

SATOJI HISAYUKI
SAKAMOTO NORIYUKI
UEMOTO ICHIAKI
NAGAI TOSHIRO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

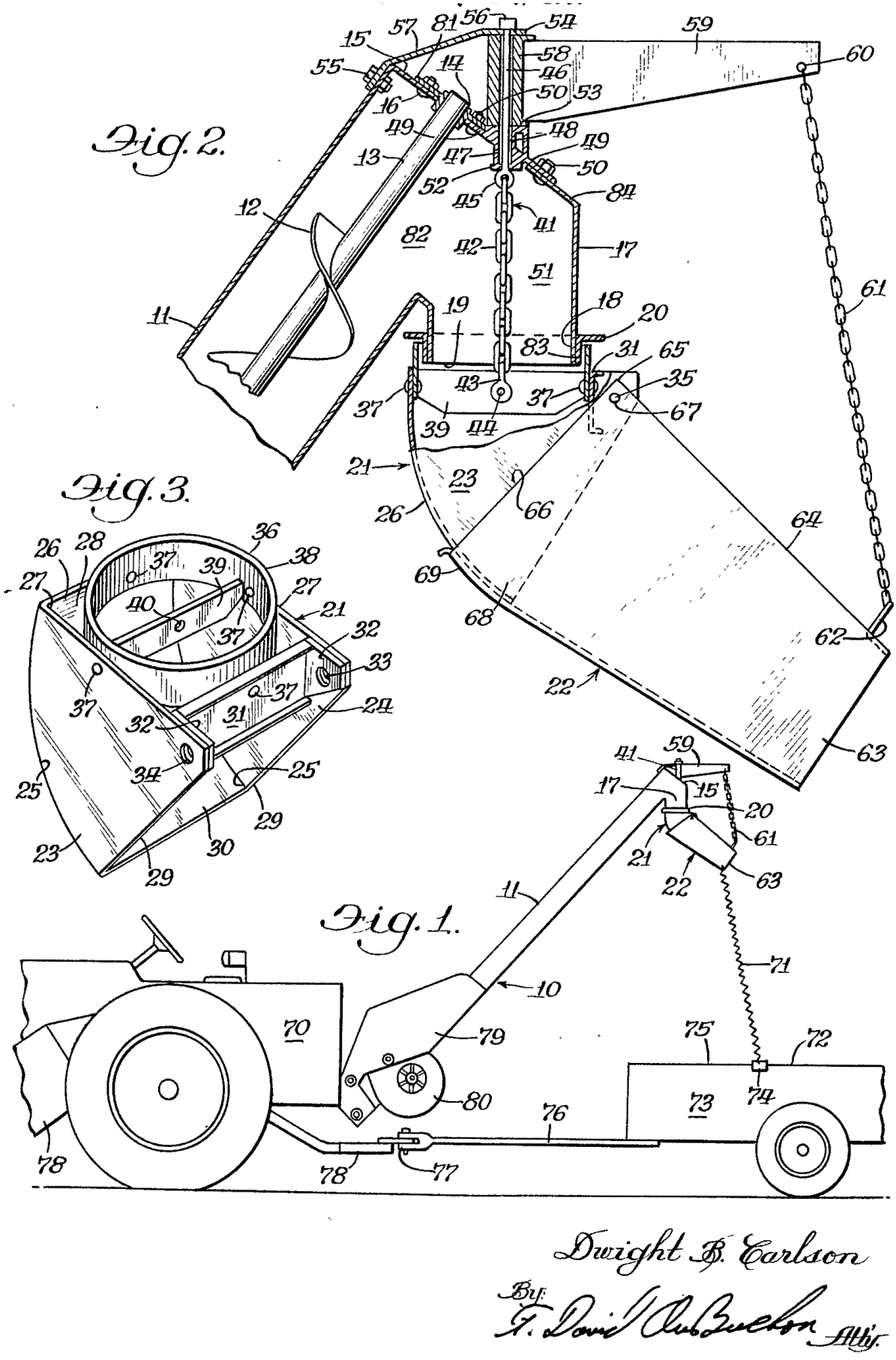
Family 553/667 - FAMPAT - ©Questel

Title

(US3266609)

Rotating elbow construction for discharge spouts and the like

Images



Publication data including kind & date

US3266609 A 1966-08-16 US3266609

Inventors

CARLSON DWIGHT B

Latest standardized assignees - inventors removed

INTERNATIONAL HARVESTER

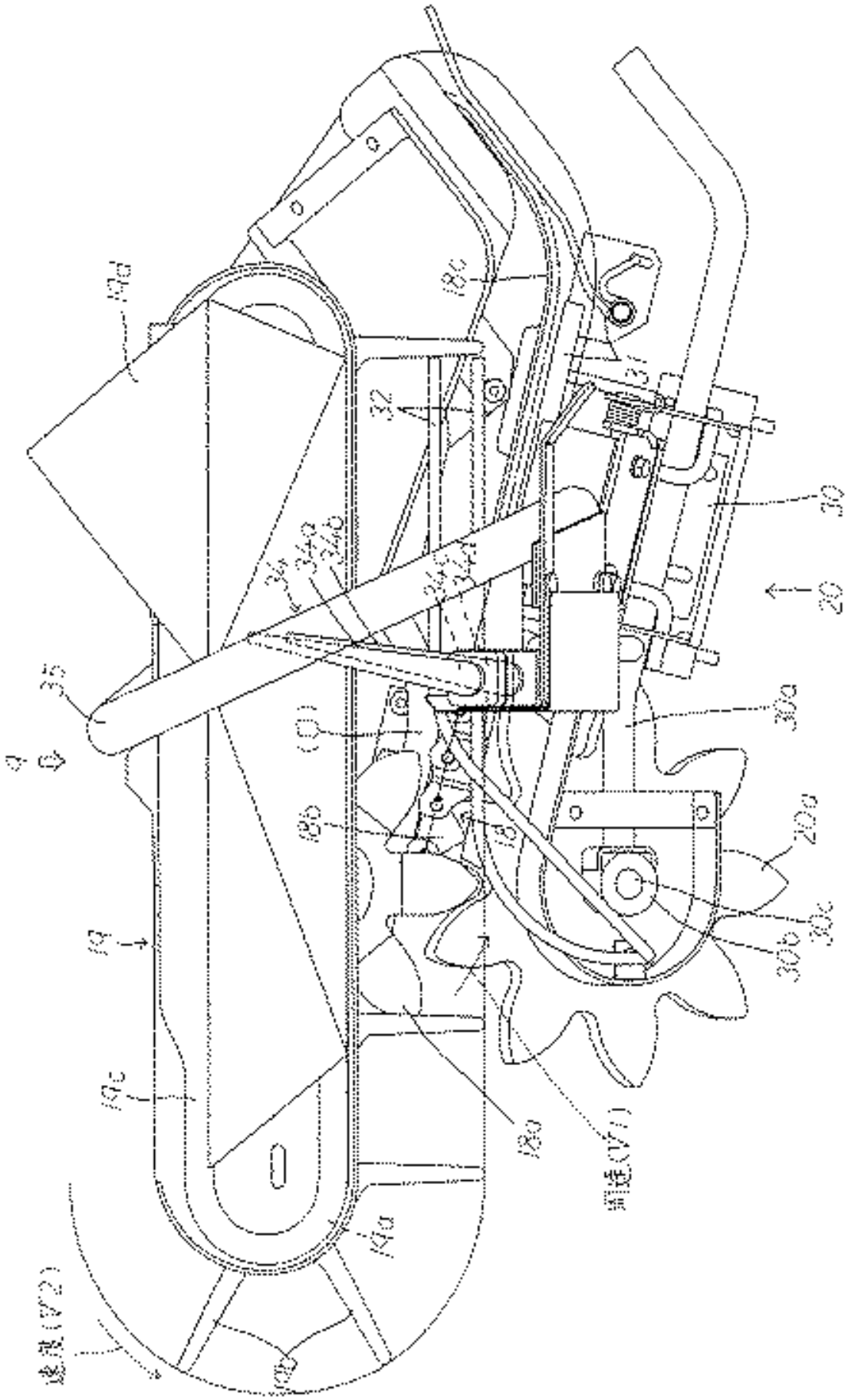
Family 554/667 - FAMPAT - ©Questel

Title

(JP2004208655)

Cereal culm-conveying device of combine

Images



Publication data including kind & date

JP2004208655 A 2004-07-29 JP2004208655

Abstract

(JP2004208655)

PROBLEM TO BE SOLVED: To surely rake and convey the ear side of cereal culms by installing a device for raking and conveying the ear side of the reaped cereal culms at the upper part of a beginning end of conveyance of a root part-conveying device 18 and also by a right driving and conveying star wheel, a left driven and conveying star wheel and an ear part-conveying device installed further at the upper side.

SOLUTION: The root side of the cereal culms reaped by a reaping blade is conveyed by the root part-conveying device 18 and also the ear sides are raked and conveyed by each of conveying lugs 19b of the ear part-conveying device 19, the right side driving and conveying star wheel 18a at the upper side of the beginning end of the conveyance of the root part-conveying device 18, the left driven and conveying star wheel 20a, etc.The peripheral speed (V1) of the outer circumferential part of the right driving and conveying star wheel 18a and the speed (V2) of the ear side lugs 19b are set at a same speed.Also, at the left driven and conveying star wheel 20a, in a plurality of star wheel lugs are installed as freely rotatable, and at its upper side, a driven star wheel cover is installed.

COPYRIGHT: (C)2004,JPO&NCIPI

Inventors

ANAMI MASAYUKI

SATOJI HISAYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

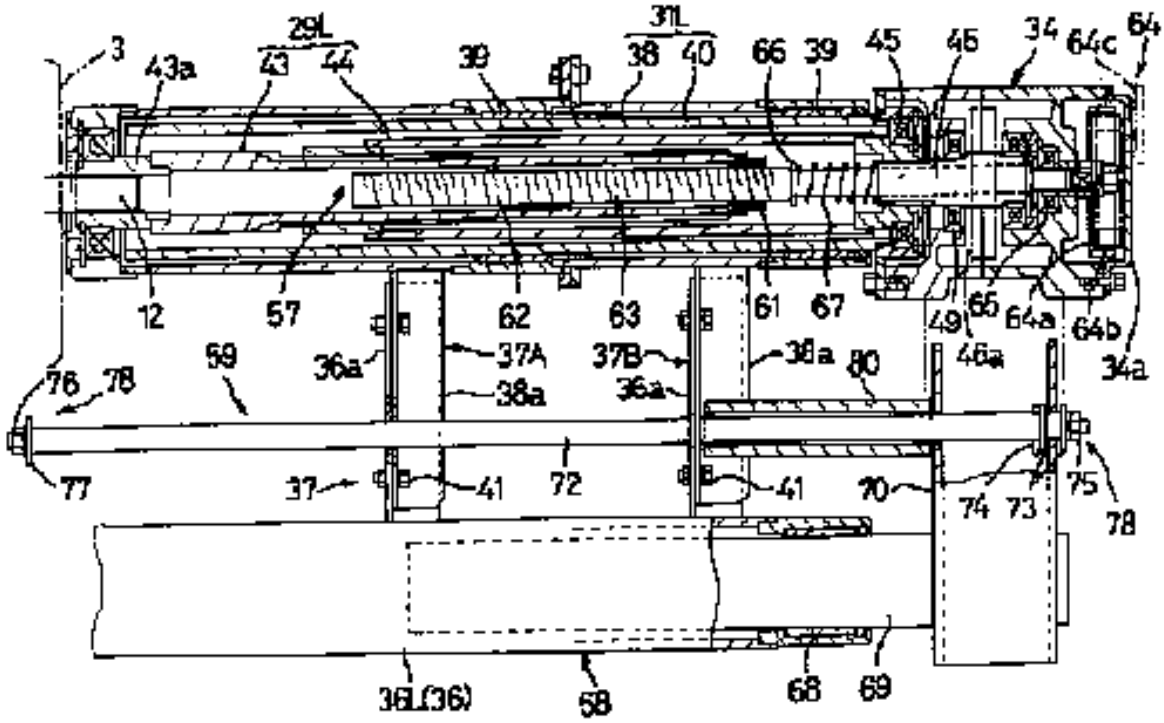
Family 555/667 - FAMPAT - ©Questel

Title

(JP11098908)

Furrow traveling apparatus

Images



Publication data including kind & date

JPH1198908	A	1999-04-13	JP11098908
JP3454686	B2	2003-10-06	JP3454686

Abstract

(JP3454686)

PROBLEM TO BE SOLVED: To obtain a furrow traveling apparatus capable of decreasing the frictional resistance of the ground and adjusting the wheel tread during traveling without using a separate actuator for extension and contraction by providing an extension and contraction driving means to extend and contract a wheel transmission shaft taking advantage of the rotational motion of the shaft.SOLUTION: This furrow traveling apparatus is provided with a pair of right and left wheel transmission shafts connected to an output shaft 12 of a transmission case 3 to transmit the rotational power, a pair

of right and left driving wheels rotated by the transmission of the rotational power of the wheel transmission shaft and an extension and contraction means to adjust the wheel tread of the pair of driving wheels by extending and contracting at least one of the pair of wheel transmission shafts in lateral direction.The extension and contraction mechanism is provided with an extension and contraction driving means 57 to effect the extension and contraction of the wheel transmission shaft by converting the rotational power of the wheel transmission shaft into the extension and contraction power in axial direction.The wheel transmission shaft can be extended or contracted by the extension and contraction driving means under the rotation of the driving wheel by the rotation of the wheel transmission shaft.

Inventors

CHIBA HIROYUKI
ITO TSUKASA
KANAI YOSHIHIDE
TAKAHASHI SADAYUKI

Latest standardized assignees - inventors removed

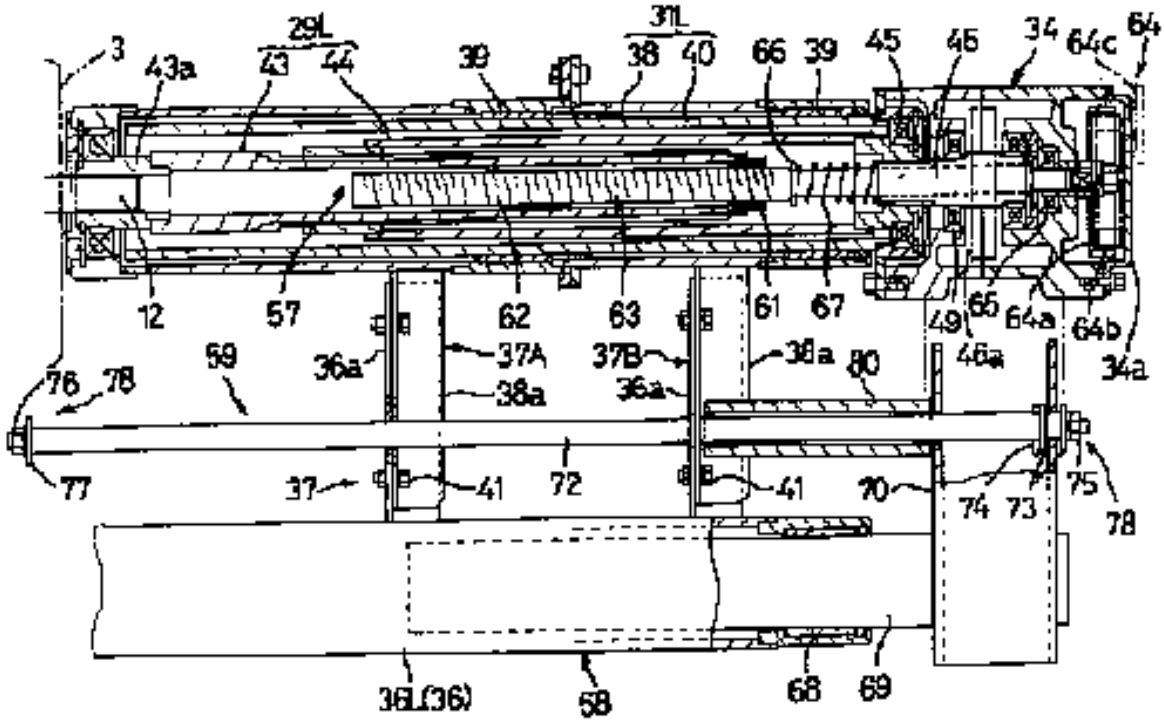
KUBOTA

Family 556/667 - FAMPAT - ©Questel

Title

(JP11089371)
Furrow traveling apparatus

Images



Publication data including kind & date

JPH1189371	A	1999-04-06	JP11089371
JP3454685	B2	2003-10-06	JP3454685

Abstract

(JP3454685)

PROBLEM TO BE SOLVED: To enable the suitable restriction of the limit of contraction in the contraction and extension of a wheel driving shaft of a furrow traveling apparatus traveling in a form striding across a ridge.SOLUTION: This furrow traveling apparatus is provided with a pair of right and left wheel driving shafts connected to the output shaft 12 of a transmission case 3 and receiving the rotational force, a pair of right and left driving wheels driven by the transmission of the rotational force of the wheel driving shafts and an extension and contraction mechanism to adjust the distance between

a pair of driving wheels by extending or contracting the wheel, driving shafts in right and left directions.A contraction limit restricting means of a contraction and extension means for restricting the limit of contraction of the wheel driving shaft is provided with a 1st restriction member 37A fixed to a side of the transmission case 3, a 2nd restriction member 70 placed opposite to the lateral direction of the 1st restriction member 37A and movable in right and left directions according to the extension and contraction of the wheel driving shaft and a 1st distance-keeping member 80 placed between the 1st and the 2nd contacting members and keeping the distance between the 1st and the 2nd contacting members when the wheel driving shaft is contracted to the limit.

Inventors

CHIBA HIROYUKI
ITO TSUKASA
KANAI YOSHIHIDE
OKADA MIKIO

Latest standardized assignees - inventors removed

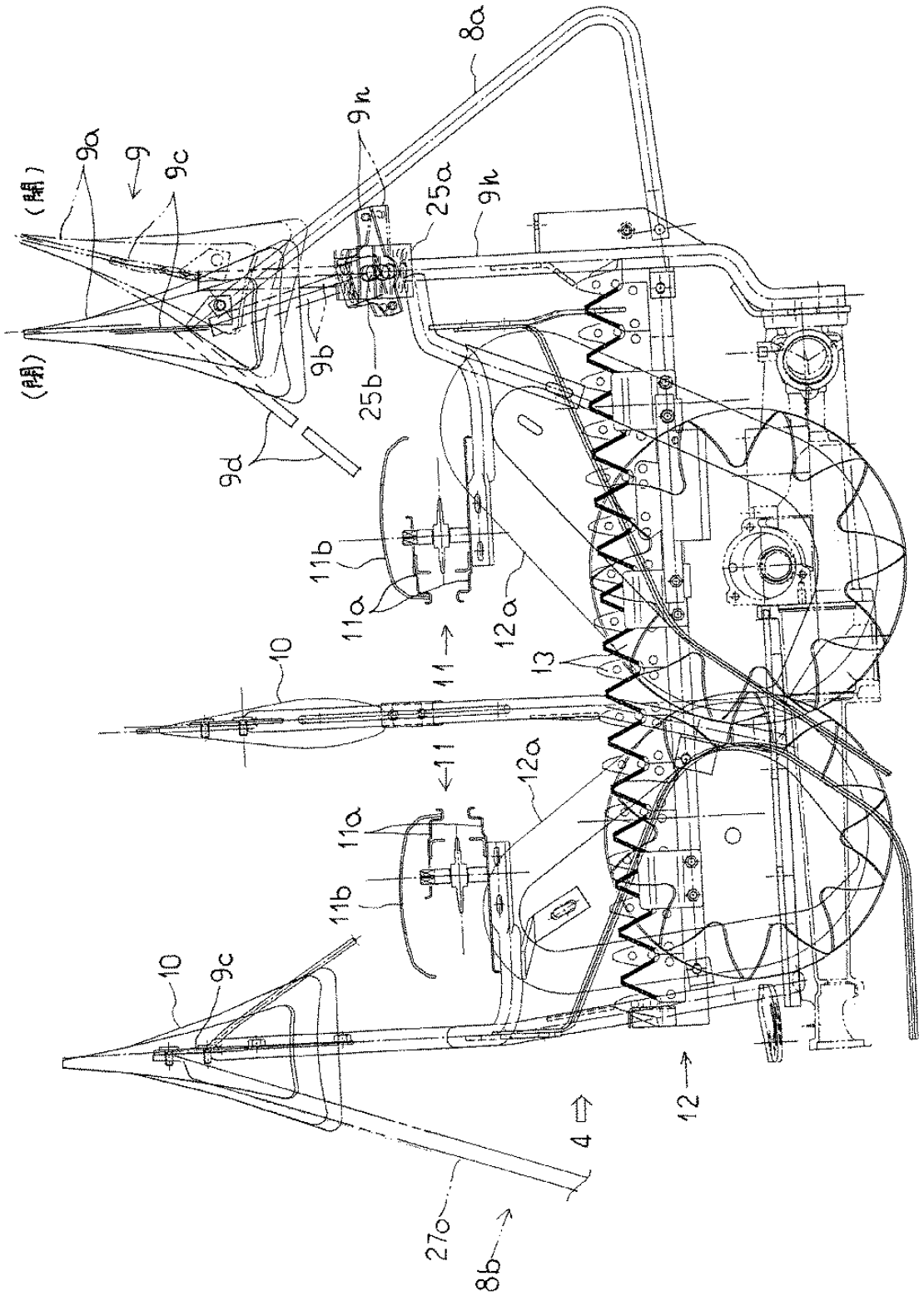
KUBOTA

Family 557/667 - FAMPAT - ©Questel

Title

(JP2008000068)
Combine

Images



Publication data including kind & date

JP2008000068 A 2008-01-10 JP2008000068

Abstract

(JP2008000068)

PROBLEM TO BE SOLVED: To provide a combine capable of easily turning a front-side right outer grass-dividing member to the right and left sides in the reaping work of crop.

SOLUTION: A reaping apparatus 4 to reap a standing crop and transfer the crop upward to the back is placed in front of a traveling body 2, and a plurality of grass dividers 9, 10 to divide the standing crop are placed at the front part of the reaping apparatus 4.At least the grass divider 9 positioned at the right end among the grass dividers 9, 10 can change its position

in lateral direction by a lever 20 positioned near the driver's seat 18 mounted on the traveling body 2.In the combine having the above structure, a grass dividing guide 9d is placed at the tip end of the grass divider 9 and extended from the side of a grass dividing guide 9a to the front side of the pick-up case cover 11b of the pick-up device 11 in a manner dividing the guide 9d into two.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

SATOJI HISAYUKI

SAKAMOTO NORIYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

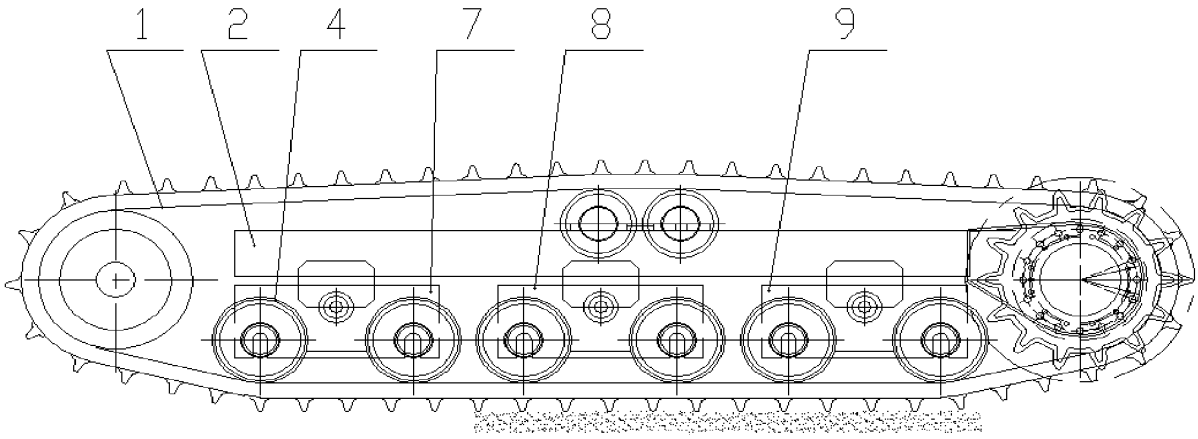
Family 558/667 - FAMPAT - ©Questel

Title

(CN204707502U)

Crawler attachment and cane cutting machine

Images



Publication data including kind & date

CN204707502 U 2015-10-21 CN204707502U

Abstract

(CN204707502U)

The utility model relates to a farm machinery, especially a crawler attachment and cane cutting machine keep the main part steadily to be beneficial to in the time of can walking on the ground that the height fluctuate and reap the operation.Crawler attachment includes: walking frame along the fore -and -aft direction extension, cutting device, it is connected to the walking frame, the track, it erects around the walking and puts to around rotating so that crawler attachment moves ahead with the perpendicular axis of pitch that just extends along the horizontal direction of fore -and -aft direction, a plurality of walking wheel carriers are rotationally installed the walking frame and are in between the inboard of downside and the track of walking frame through rotating the connecting piece respectively to the wheel carrier is walked in preceding in, back row including arranging in proper order backward in the past, installs a plurality of walking wheels with the inboard meshing of track on every walking wheel carrier, wherein, when the effort that receives coming from the track when a walking wheel exceeded the predetermined value, the part of installation this bank travelling wheel of walking wheel carrier was upwards rotated and is made this bank's travelling wheel rise.

Inventors

WANG XIEN

ZHANG LIGONG

CHEN CHUNLEI

AN DONGDONG

Latest standardized assignees - inventors removed

ZOOMLION HEAVY MACHINERY

Family 559/667 - FAMPAT - ©Questel

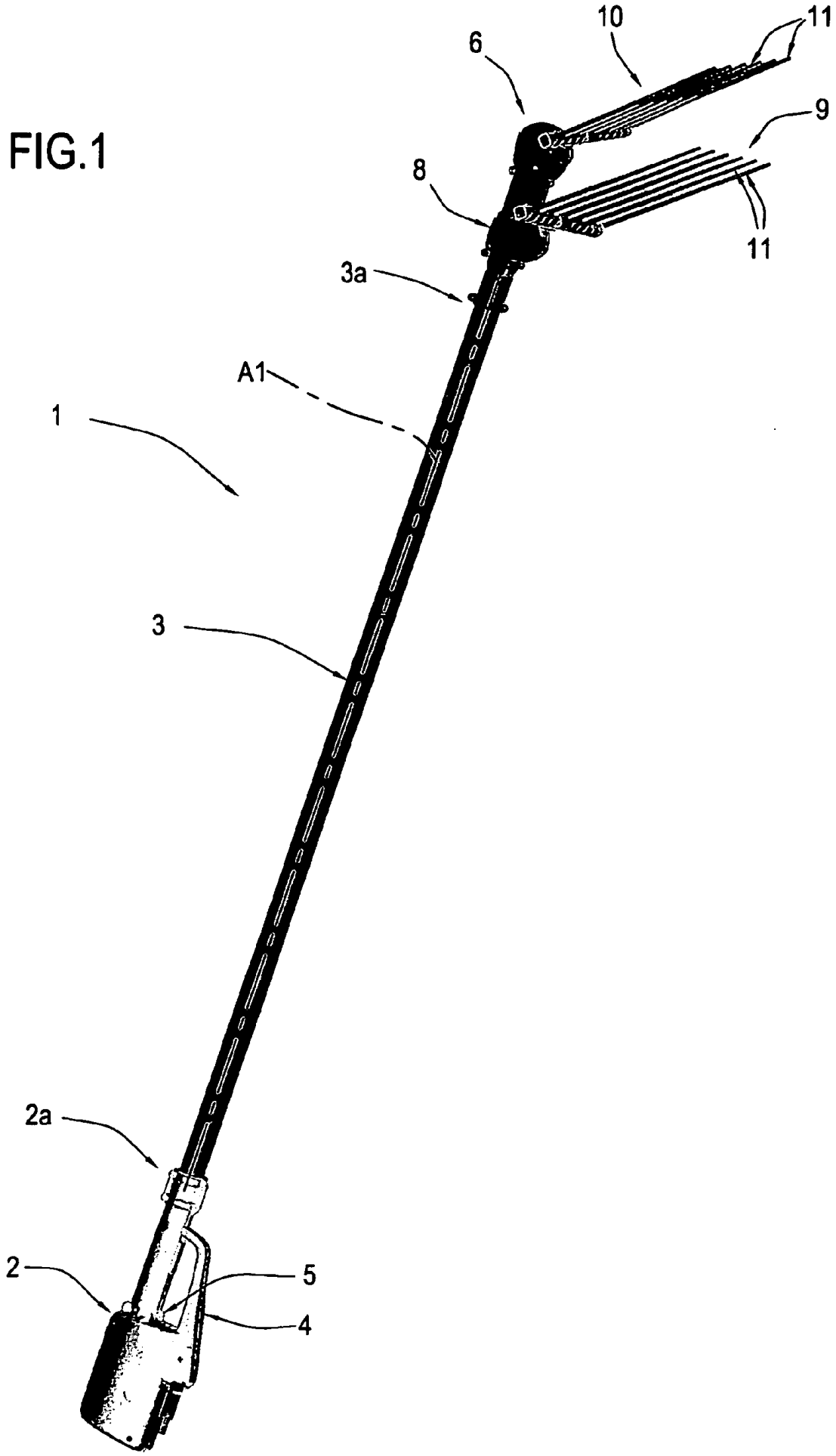
Title

(EP1795064)

Device for harvesting olives, fruit or the like

Images

FIG.1



Publication data including kind & date

EP1795064 A1 2007-06-13 EP1795064

EP1795064	B1	2008-02-13	EP1795064
AT385677	T	2008-03-15	ATE385677
DE602005004800	D1	2008-03-27	DE602005004800
ES2300971	T3	2008-06-16	ES2300971

Abstract

(EP1795064)

The device for harvesting olives, fruit or the like comprises two mobile combs (9, 10) designed to engage with the olives, a support rod (3) for the combs (9, 10), a central structure (2) from one end (2a) of which the rod (3) extends, a grip (4) made on the central structure (2), a motor for moving the combs (9, 10), means (36) for transmitting motion from the motor to the combs (9, 10).

Inventors

FERRETTI PIO VITTORIO

Latest standardized assignees - inventors removed

CAMPAGNOLO

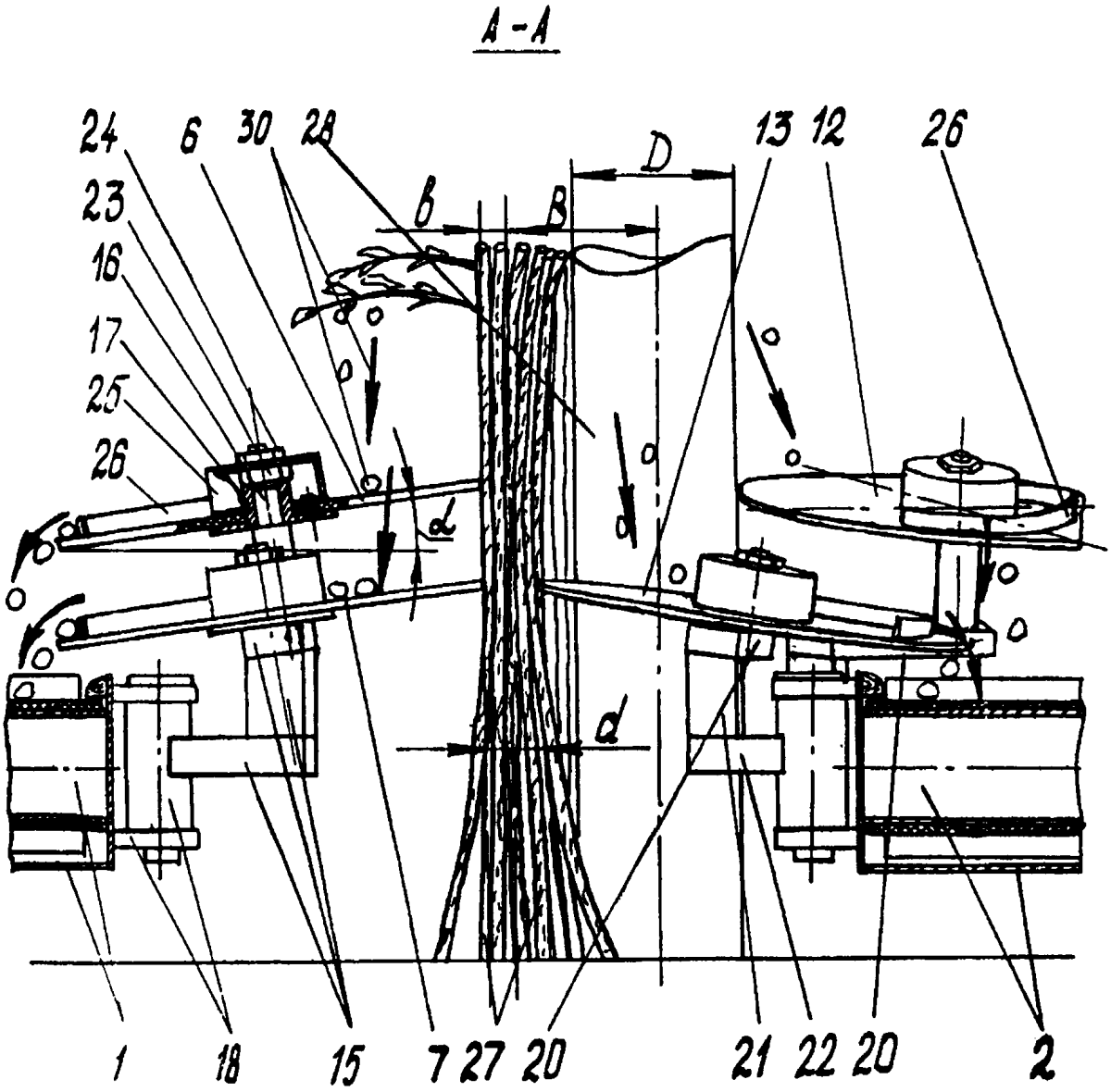
Family 560/667 - FAMPAT - ©Questel

Title

(RU2558181)

Catching device of berry-harvesting machine

Images



Фиг. 2

Publication data including kind & date

RU2558181 C1 2015-07-27 RU2558181

Abstract

(RU2558181)

FIELD: agriculture.SUBSTANCE: invention relates to agricultural machinery industry.The catching device comprises two parallel placed longitudinal conveyors (1 and 2).On the oppositely located sidewalls of the conveyors on the rotary levers (15) two rows of discs (6, 7 and 12, 13) are freely mounted with the ability of free rotation on the axes (16).The surfaces of the discs have a slope towards the outer sidewall of the corresponding conveyor (1 and 2).The discs mounted on each of the conveyors are arranged with overlapping and alternation in height in two tiers, and their rotary levers (15) are spring-loaded.Each rotary lever (15) is made cranked, i.e. consists of three units.The link (20) on which the disc rotation axis is fixed, in the initial position, when the discs of the opposed rows are at a minimum distance from each other, is arranged parallel to the longitudinal-vertical plane of the machine and above the conveyor surface (1 or 2), and the link (22) which is mounted directly on the side of the conveyor (1 or 2) is oriented in a horizontal plane at an acute angle to the longitudinal-vertical plane of the machine and is located below the conveyor surface (1 or 2).The outermost links (20 and 22) of the rotary lever (15) are interconnected by the vertical link (21), and the axes (16) of rotation of the discs of different tiers have different lengths.EFFECT: reduction of the likelihood of the catching device failure is ensured.2 cl, 2 dwg

Inventors

OZHEREL EV VIKTOR NIKOLAEVICH

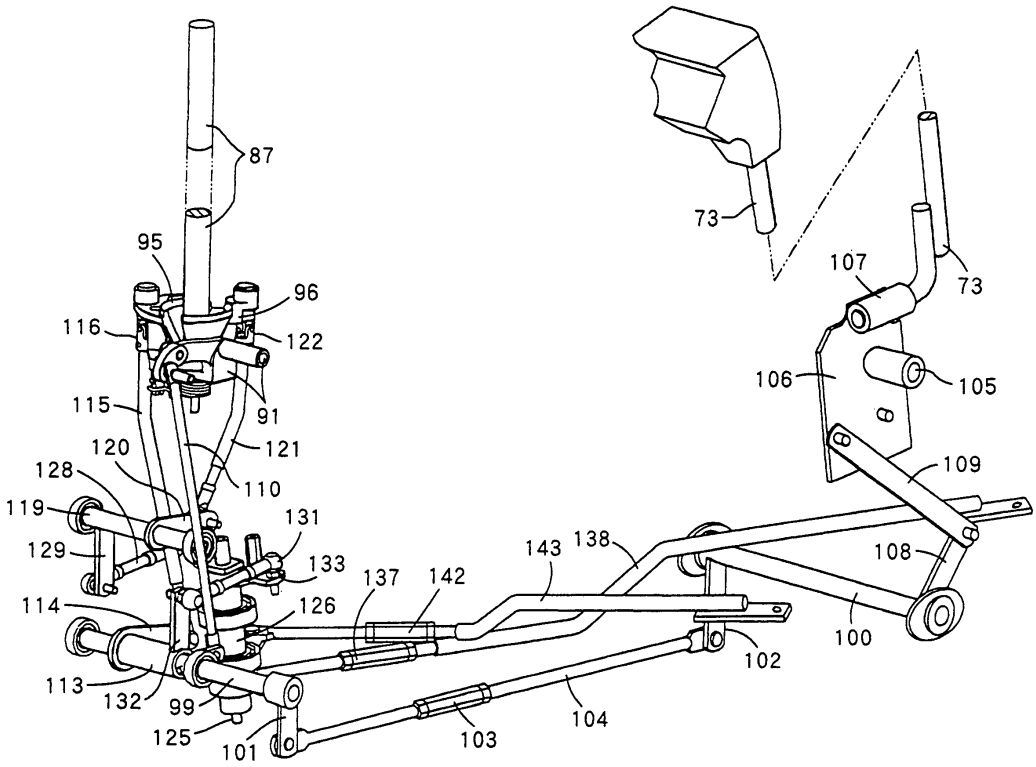
Family 561/667 - FAMPAT - ©Questel

Title

(EP1142775)

Work vehicle

Images



Publication data including kind & date

JP3028481	B1	2000-04-04	JP3028481
WO200035736	A1	2000-06-22	WO200035736
JP2000177620	A	2000-06-27	JP2000177620
JP2000175547	A	2000-06-27	JP2000175547
KR20010086443	A	2001-09-12	KR20010086443
EP1142775	A1	2001-10-10	EP1142775
CN1326409	A	2001-12-12	CN1326409
CN1358639	A	2002-07-17	CN1358639
TW515696	B	2003-01-01	TW-515696
CN1133557	C	2004-01-07	CN1133557C
CN1239343	C	2006-02-01	CN1239343C
KR100584785	B1	2006-05-30	KR100584785
EP1142775	A4	2006-08-02	EP1142775
US7347293	B1	2008-03-25	US7347293
JP4142208	B2	2008-09-03	JP4142208
EP1142775	B1	2009-11-25	EP1142775
AT449532	T	2009-12-15	ATE449532
DE69941727	D1	2010-01-07	DE69941727

Abstract

(EP1142775)

A working vehicle such as a mobile agricultural machine is designed such that it has an improved working efficiency if any spinning turn is not required, and has an improved running property in a wet farm.The vehicle has a pair of right and left crawlers (2), a speed change apparatus (25) for imparting traction force to the crawlers, a speed change lever (73) operable to control the speed change apparatus so as to alter running speed of the vehicle in a step-less manner.The vehicle further has a steering apparatus (28) and a steering wheel (19) operable to control the steering apparatus so as to alter difference in the running speeds between the crawlers (2).The running speed generally determined for each crawler by the speed change lever (73) can be decreased voluntarily and proportionally to an operated angle of the steering wheel (19). <IMAGE>

Inventors

HIDAKA SHIGEMI

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

SEIREI INDUSTRY

Family 562/667 - FAMPAT - ©Questel

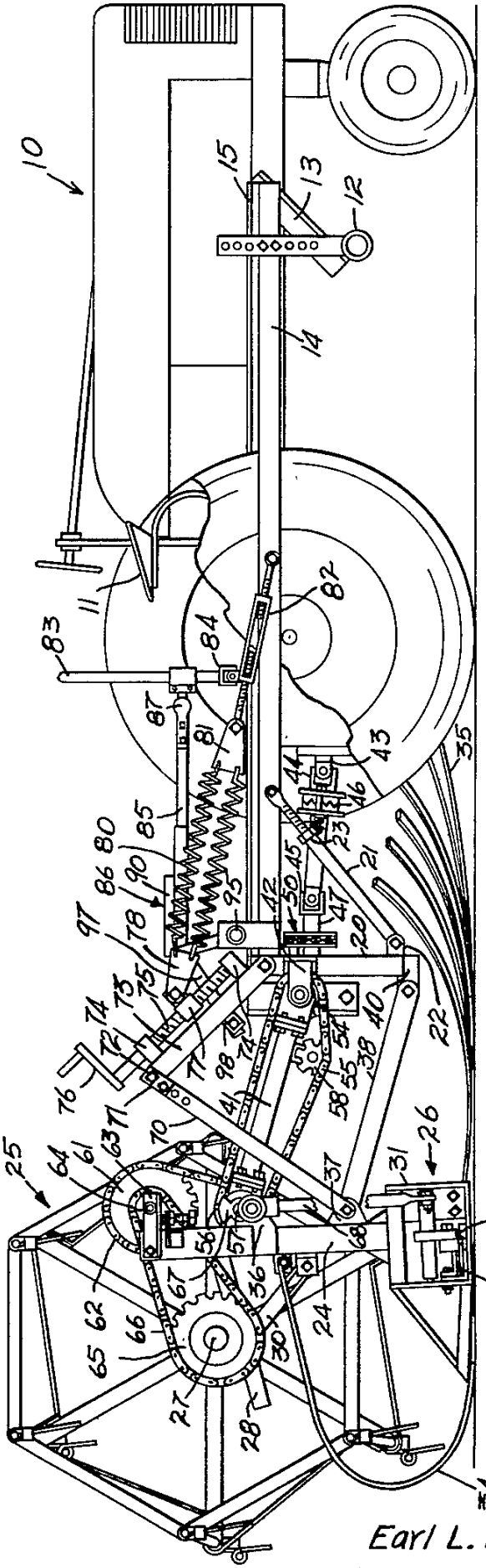
Title

(US3043076)

Windrower support assembly

Images

Fig. 1



INVENTOR.
Earl L. Scheidenhelm
BY
Atty.

Publication data including kind & date

US3043076	A	1962-07-10	US3043076

Inventors

SCHEIDENHELM EARL L

Latest standardized assignees - inventors removed

HORACE D HUME

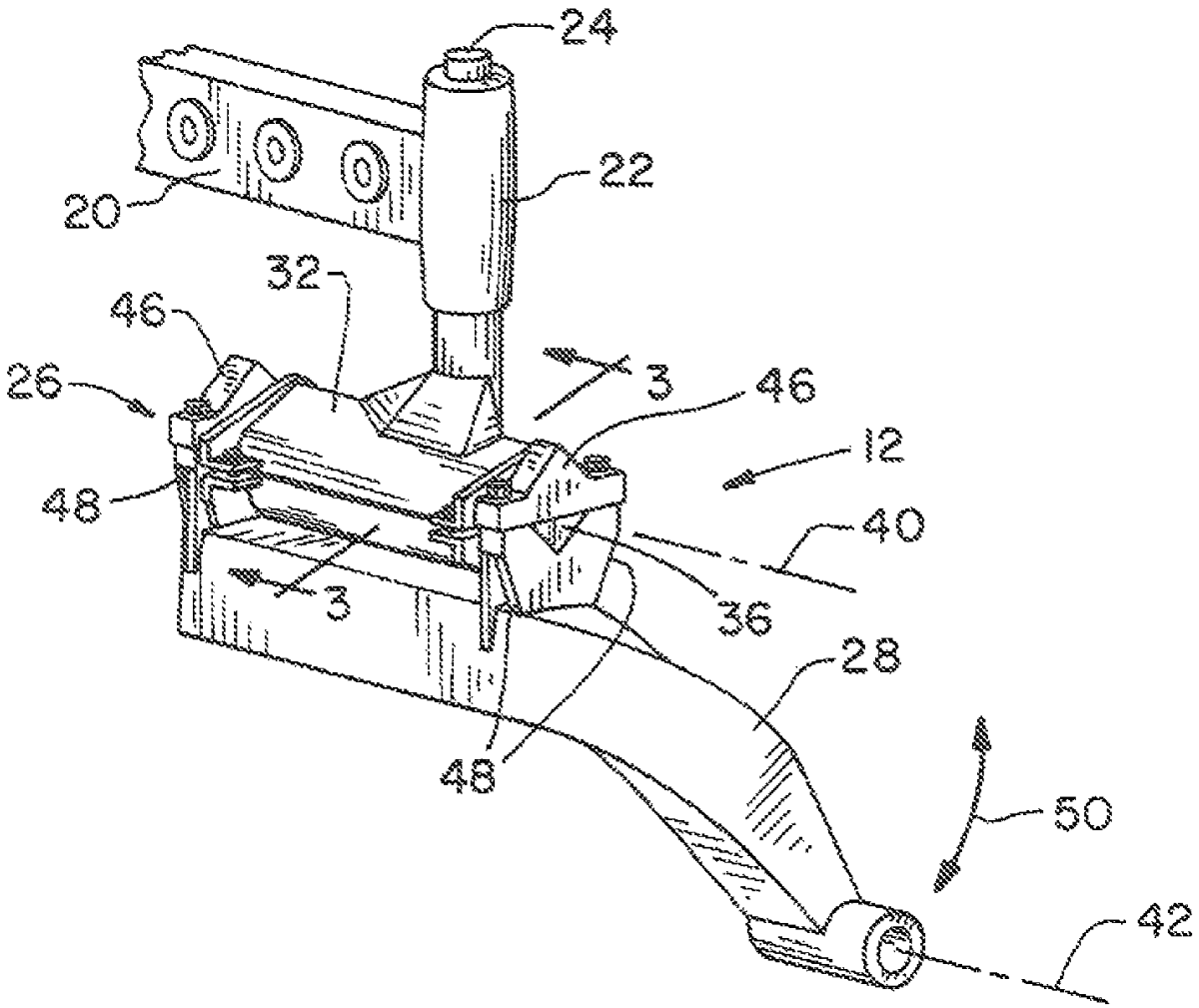
Family 563/667 - FAMPAT - ©Questel

Title

(US8186697)

Suspension arrangement for rear castered wheels on a work machine

Images



Publication data including kind & date

CA2647635	A1	2009-07-03	CA2647635
US20090174166	A1	2009-07-09	US20090174166
RU2008150560	A	2010-06-27	RU2008150560
US20100201095	A1	2010-08-12	US20100201095
US7789408	B2	2010-09-07	US7789408
US8186697	B2	2012-05-29	US8186697
UA98769	C2	2012-06-25	UA--98769
RU2504139	C2	2014-01-20	RU2504139
CA2647635	C	2016-04-26	CA2647635

Abstract

(US8186697)

A work machine is provided having a suspension arrangement between an axle of the machine and a caster wheel assembly.The suspension arrangement comprising a torsion spring assembly.The torsion spring assembly having a first spring housing, a second spring housing, and an inner member.The inner member being integrated directly with a wheel arm of the caster wheel assembly.The first and second spring housings being fastened together around the inner member wherein a plurality of elastomeric members are interposed between the inner member and the first and second spring housings.A torsion spring assembly is provided having a first spring housing, a second spring housing, and an inner member, the first and second spring housings being fastened together around the inner member wherein a plurality of elastomeric members are interposed between the inner member and the first and second spring housings.

Inventors

STEPHENSON ROGER D

SLOAN CHARLES S

PARSONS STEPHEN K

Latest standardized assignees - inventors removed

DEERE

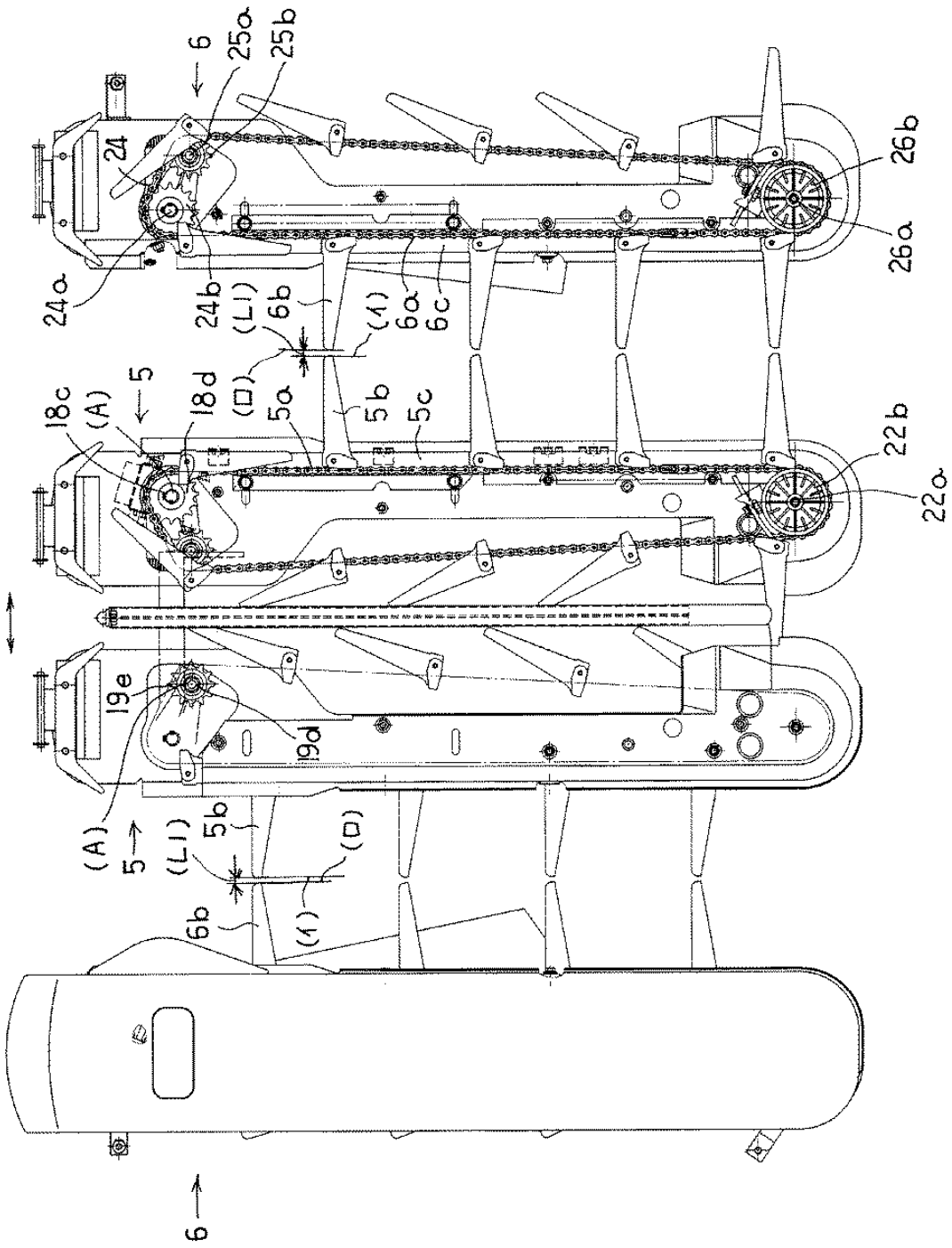
Family 564/667 - FAMPAT - ©Questel

Title

(JP2006204170)

Cereal culm-raising up device of combine

Images



Publication data including kind & date

JP2006204170 A 2006-08-10 JP2006204170

Abstract

(JP2006204170)

PROBLEM TO BE SOLVED: To prevent the generation of abnormal noises caused by the abutment of a multiple number of raising up lugs installed as pairs at the both sides and also to make the gaps between each of the raising up lugs easily adjustable.

SOLUTION: This cereal culm-raising up device is characterized by installing middle raising devices 5, 5 at the both left and right sides of its central part as freely movable in left and right direction and making a gap (L1) between the tip end part (β) of each of the outer raising up lugs 6b installed at a prescribed interval on the outer raising up chains 6a, 6a built at the inside of the outer raising up devices 6, 6 at both sides of its outside part and the tip end part (α) of each of the middle raising up lugs 5b installed at a prescribed interval on the middle raising up chains 5a, 5a built at the inside of the

middle raising up devices 5, 5 of the central part, as freely adjustable.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

SAITO MANABU
TSUJI KENTARO
FUJITA YASUSHI
UEJI YOSHITAKA
HIROSE MASAKAZU
SATOJI HISAYUKI
HIROTA MIKIJI
MIZUMOTO TOSHIHIKO

Latest standardized assignees - inventors removed

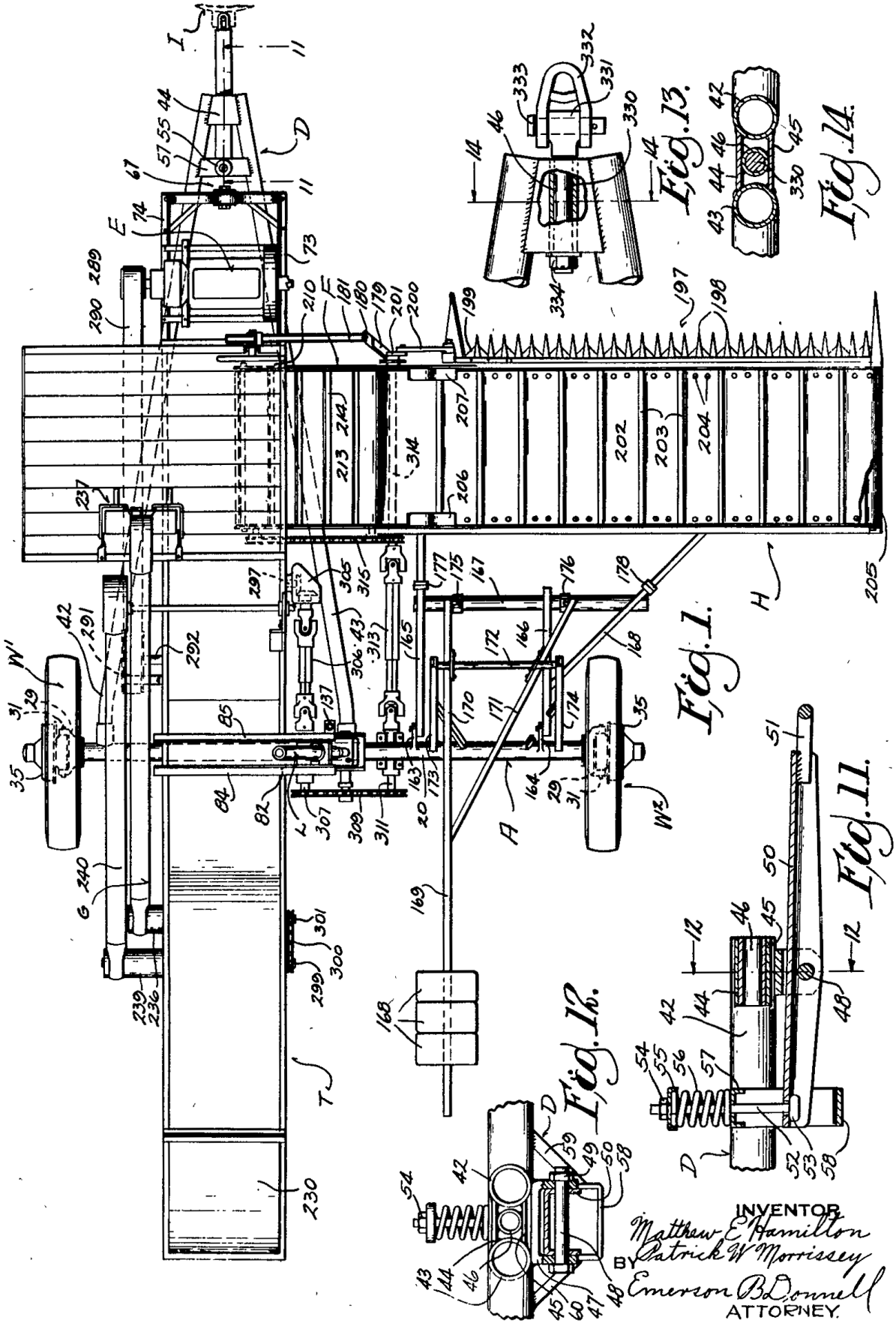
ISEKI AGRICULTURAL MACHINERY

Family 565/667 - FAMPAT - ©Questel

Title

(US2488592)
Combine having sidehill platform adjustments

Images



Publication data including kind & date

US2488592 A 1949-11-22 US2488592

Inventors

HAMILTON MATTHEW E

MORRISSEY PATRICK W

Latest standardized assignees - inventors removed

CNH GLOBAL

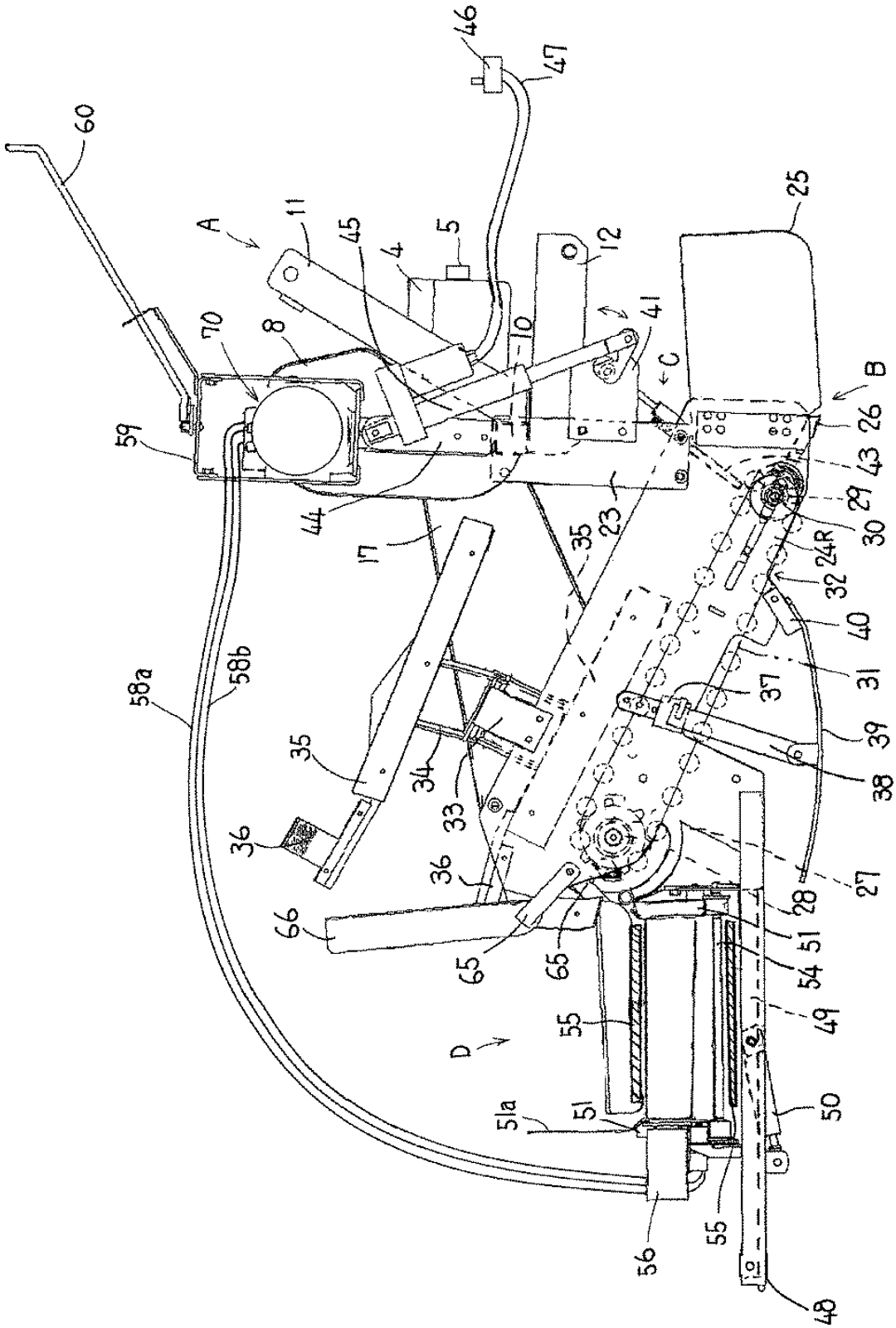
Family 566/667 - FAMPAT - ©Questel

Title

(JP2009017790)

Root vegetable digging and collecting machine

Images



Publication data including kind & date

JP2009017790	A	2009-01-29	JP2009017790
JP5130807	B2	2013-01-30	JP5130807

Abstract

(JP5130807)

PROBLEM TO BE SOLVED: To provide a root vegetable digging and collecting machine that is raised upward when a working vehicle rotates at the end of a ridge and in which root vegetables stored in a conveying device do not fall from the front side of the conveying device even when the root vegetable digging and collecting machine is in a forward downward inclined attitude.

SOLUTION: In the root vegetable digging and collecting machine that is equipped with a digging and collecting member 26 for digging root vegetables from a field, the conveying device 32 for conveying root vegetables dug and collected at the rear part of the digging and collecting member 26, and an unloading device 57 that receives root vegetables at the rear part of the conveying device 32 and unloads the root vegetables to a field in an direction outside a machine body outside, the machine is equipped with a partition member 43 for preventing root vegetables from falling on the conveying start side of the conveying device 32 in a switchable manner from a fall prevention action state to a storage state, and a switching device 46 for switching the dividing member 43 from a fall prevention action state to a storage state.

COPYRIGHT: (C)2009,JPO&INPIT

Inventors

Kazuo Kuroiwa

Hiroyuki Mukai

Yuji Seino

Latest standardized assignees - inventors removed

ISEKI

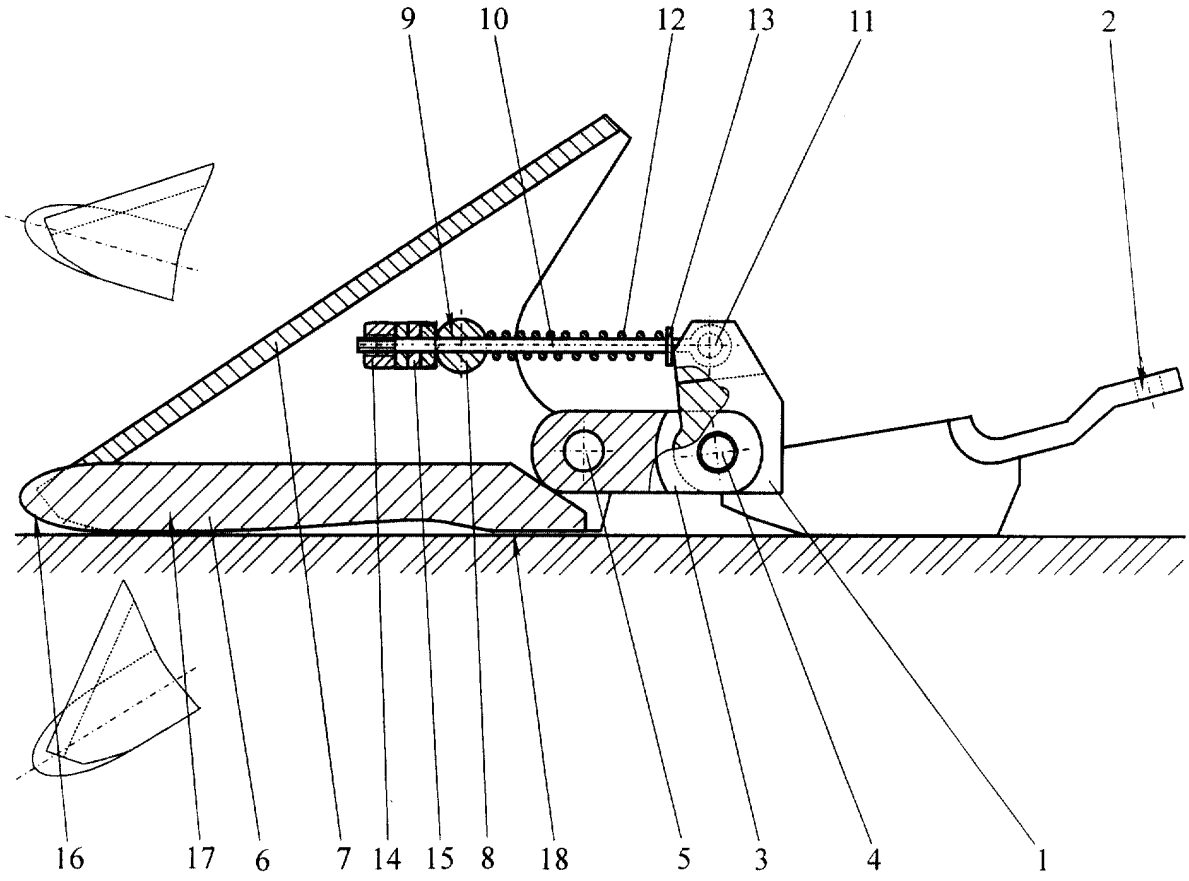
Family 567/667 - FAMPAT - ©Questel

Title

(RU2181536)

Stalk lifter

Images



Publication data including kind & date

RU2181536 C1 2002-04-27 RU2181536

Abstract

(RU2181536)

agricultural engineering.SUBSTANCE: stalk lifter has cutterbar, to which is secured bracket and working tool mounted on bracket through intermediate link.Working tool is additionally connected to bracket by means of axially flexible tie-rod made in the form of rod.Tie-rod is coupled to bracket through cylindrical pivot joint and spring-loaded by compression screw spring.Tie-rod is connected with working tool through attachment member positioned along straight line running in parallel with ground surface and intersecting center of cylindrical pivot joint of axially flexible tie-rod.Stalk lifter follows profile of ground surface.It allows stalk lifter to be prevented from burying into soil.Stalk lifter of such construction is recommended for use in harvesting of lodged and entangled cereal crop stalks.EFFECT: increased efficiency in lifting harvested cereal crop mass and enhanced reliability in operation. 6 cl, 1 dwg

Inventors

BARANOV A A

KUZNETSOV N V

ZAJTSEV A A

Latest standardized assignees - inventors removed

TUL SKIJ KOMBAJ AOOT

NOVYJ ZD

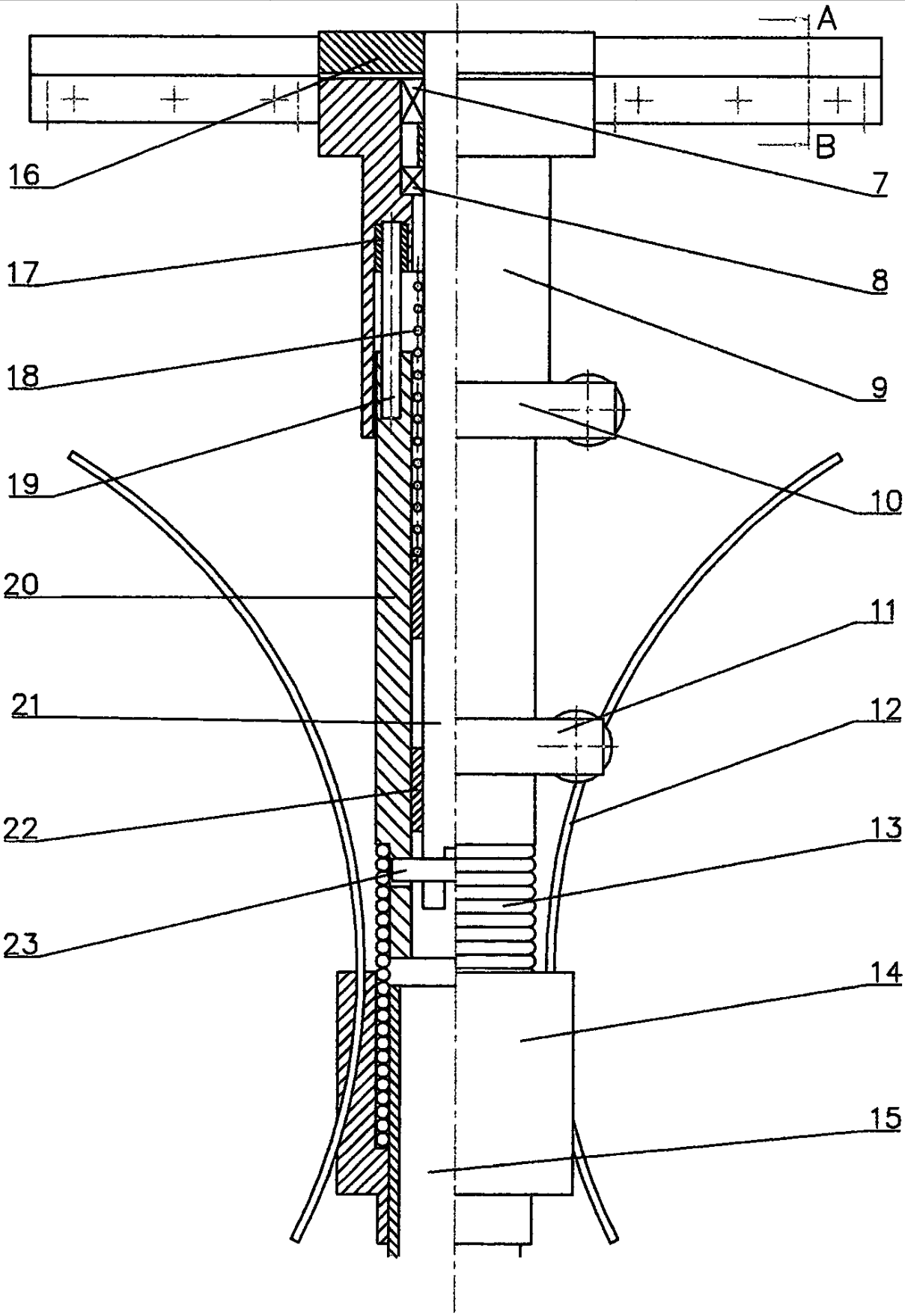
Family 568/667 - FAMPAT - ©Questel

Title

(DE202006013726)

Device for picking all tree fruit comprises a cutting unit, a fruit catching/storing unit, an operating unit and a connector unit

Images



Publication data including kind & date

DE202006013726 U1 2006-11-23 DE202006013726

Abstract

(DE202006013726)

The device for picking all tree fruit comprises a cutting unit, a fruit catching/storing unit, an operating unit and a connector unit.The purpose of the connector unit is to connect the cutter unit to the operating unit.

Latest standardized assignees - inventors removed

MAIDL FRANZ

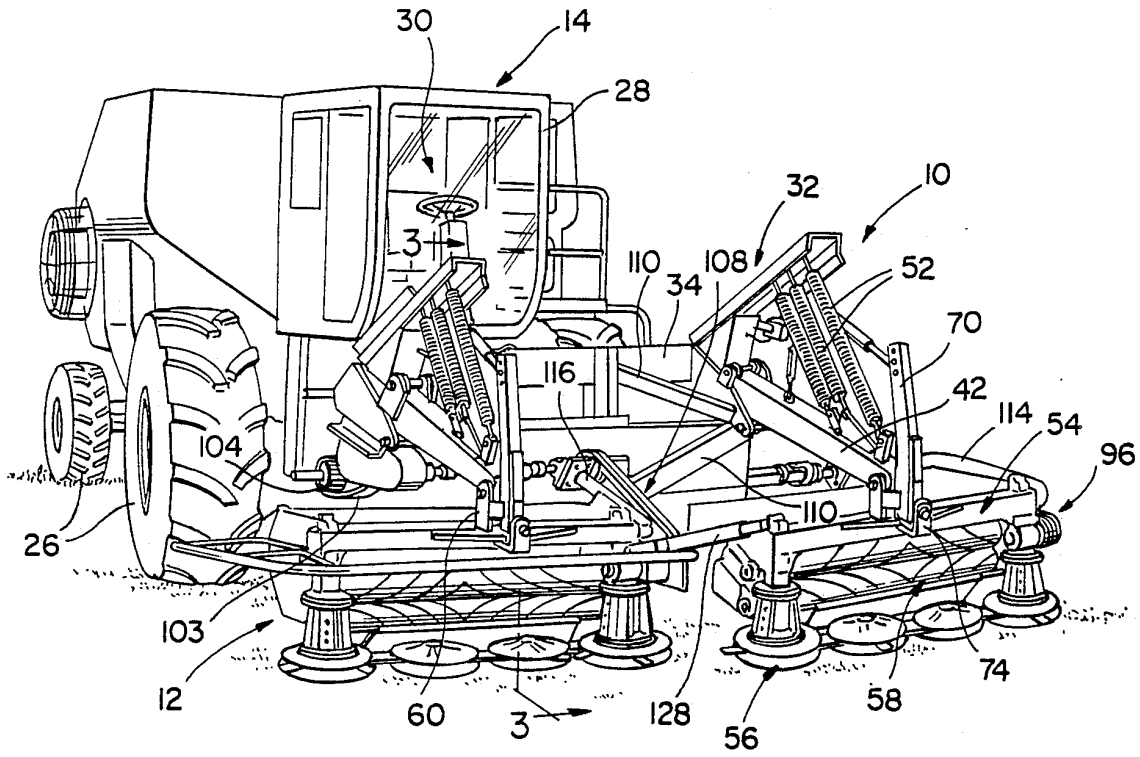
Family 569/667 - FAMPAT - ©Questel

Title

(US4972664)

Combine attachment

Images



Publication data including kind & date

US4972664 A 1990-11-27 US4972664

Abstract

(US4972664)

A combine or power unit attachment by which two disc mower-conditioner units are attached to and driven by a combine with the mower-conditioners being arranged at slight opposing angles and in slightly staggered relation for discharge of the cut material in side-by-side relationship to form a single windrow.The mower-conditioners attached to the combine are in and of themselves a known structure and the combine or power unit in and of itself is a known structure with the attachment enabling the mower-conditions to be connected to, supported from and driven from the feeder housing on the combine with the attachment including a supporting framework that is quickly and easily attached to and removed from the feeder housing, a drive connection extending from each side of the feeder housing and a control mechanism for controlling the attitude of the mower-conditioners.

Inventors

FREY JEFFREY R

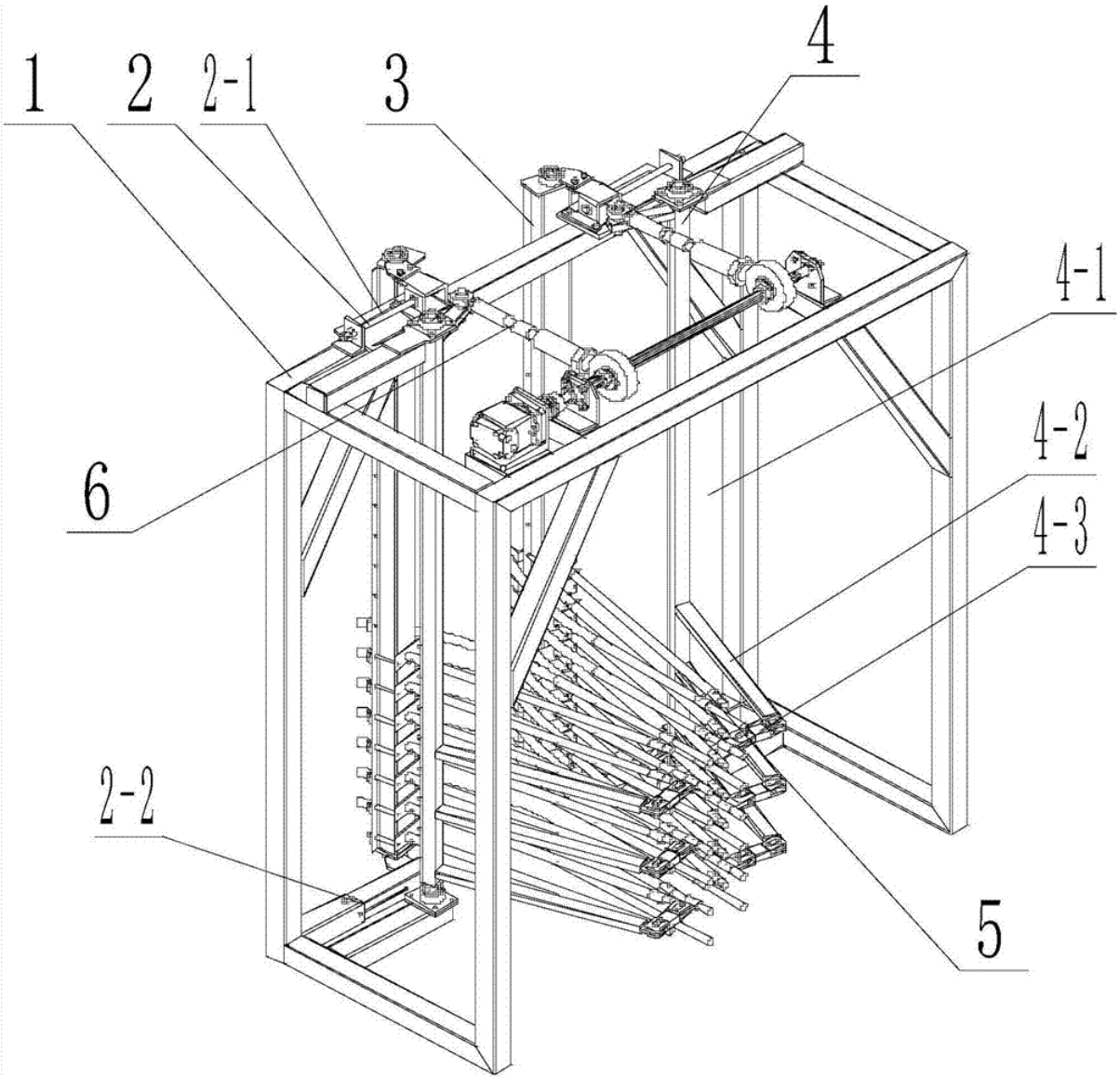
Family 570/667 - FAMPAT - ©Questel

Title

(CN105612926)

Vibration and separation device and grape harvesting machine

Images



Publication data including kind & date

CN105612926	A	2016-06-01	CN105612926
CN105612926	B	2017-08-22	CN105612926B

Abstract

(CN105612926B)

The invention relates to the technical field of agricultural machinery and particularly discloses a vibration and separation device and a grape harvesting machine.The vibration and separation device comprises a rack, active rocker assemblies, driven rocker assemblies, vibration and separation monomer assemblies and drive mechanisms, wherein the active rocker assemblies are rotatably arranged on the rack; the driven rocker assemblies are rotatably arranged on the rack and are parallel to the active rocker assemblies; one end of each vibration and separation monomer assembly is fixedly arranged on the corresponding driven rocker assembly; the vibration and separation monomer assemblies are connected to the active rocker assemblies and driven by the active rocker assemblies to swing so as to vibrate grape vines to separate grape fruits; the drive mechanisms are arranged on the rack and used for driving the active rocker assemblies to rotate.One end of each vibration and separation monomer assembly is fixedly arranged on the corresponding driven rocker assembly and meanwhile further connected with the corresponding active rocker assembly, two-point supporting is achieved, vibration generated in the working process is reduced, and reliability of the grape harvesting machine is improved.

Inventors

LI CHENGSONG
WANG ZHE
JIANG YINGLAN

QINGMIN,KAN MENG
WANG LIHONG
ZHU XINGLIANG
ZHANG YAOU
YANG LANTAO

Latest standardized assignees - inventors removed

SHIHEZI UNIVERSITY

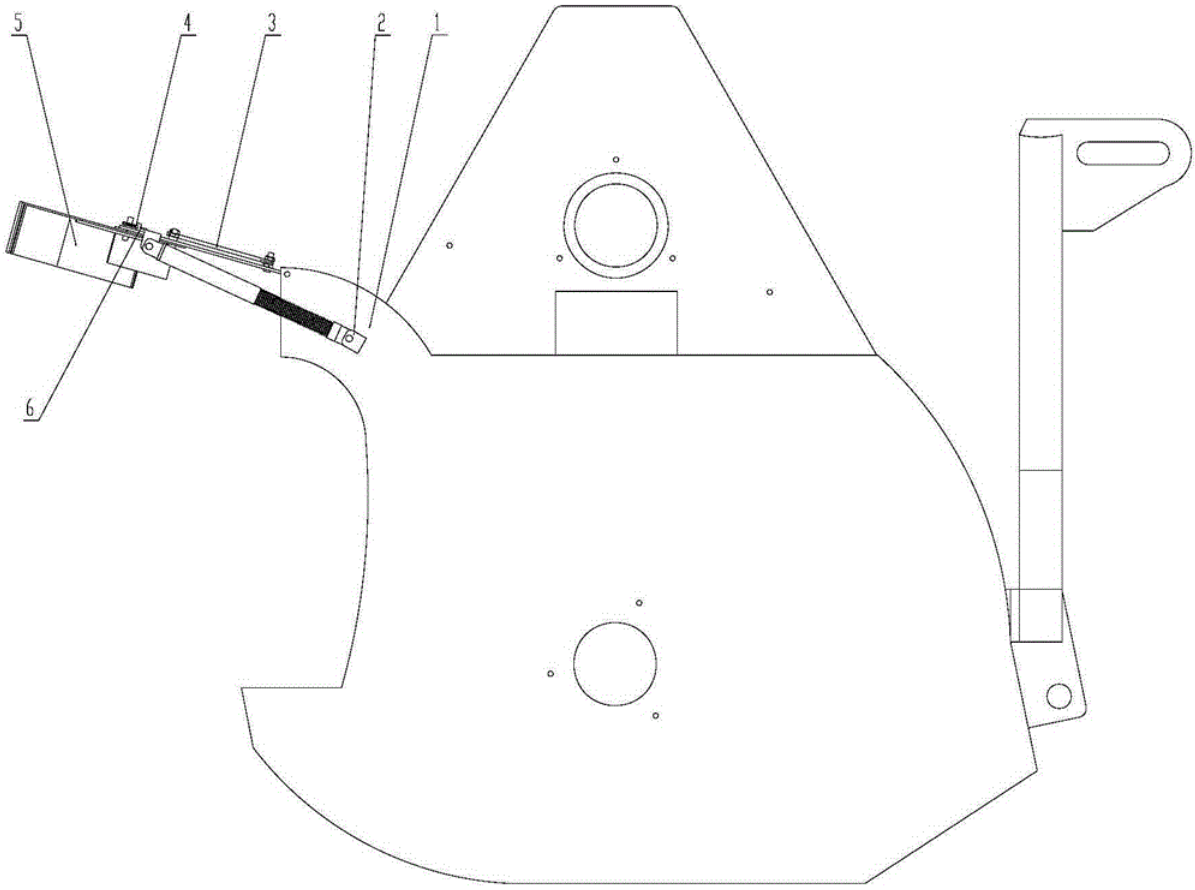
Family 571/667 - FAMPAT - ©Questel

Title

(CN104604444)

Guide vane adjusting device for straw smashing and dispersing returning machine

Images



Publication data including kind & date

CN104604444	A	2015-05-13	CN104604444
CN104604444	B	2016-08-24	CN104604444B

Abstract

(CN104604444B)

The invention belongs to the technical field of agricultural machines, and particularly relates to a guide vane adjusting device for a straw smashing and dispersing returning machine.The guide vane adjusting device comprises up-down synchronous adjusting mechanisms, a left-right synchronous adjusting mechanism and a front-rear synchronous adjusting mechanism.The tail ends of the two up-down synchronous adjusting mechanisms are mounted on a machine shell, the front ends of the two up-down synchronous adjusting mechanisms are connected with the two sides of the front end of a guide plate, and the rear end of the guide plate is connected with the machine shell through a rotating shaft.The up-down synchronous adjusting mechanisms are of an extensible structure.Guide vanes on the guide plate can move up and down by rotating threaded adjusting sleeves, guide vanes in left-right adjusting plates can rotate left and right by moving connecting rod pins up and down, and guide vanes which are fixedly connected with short racks can move front and back

by moving long racks left and right.All the adjusting devices are designed in a modular mode, so that mounting, dismounting and adjusting are easy, the dispersing velocity, the width and the uniformity can be adjusted within a large range, smashed straw can evenly cover the earth surface, and therefore soil organic matter is increased.

Inventors

HE JIN
ZHANG ZHIQIANG
WANG QINGJIE
LI HONGWEN
CHEN WANZHI
WANG XIANLIANG
ZHENG KAN
ZHANG YIFU
SUN SIJIA
NIU QI

Latest standardized assignees - inventors removed

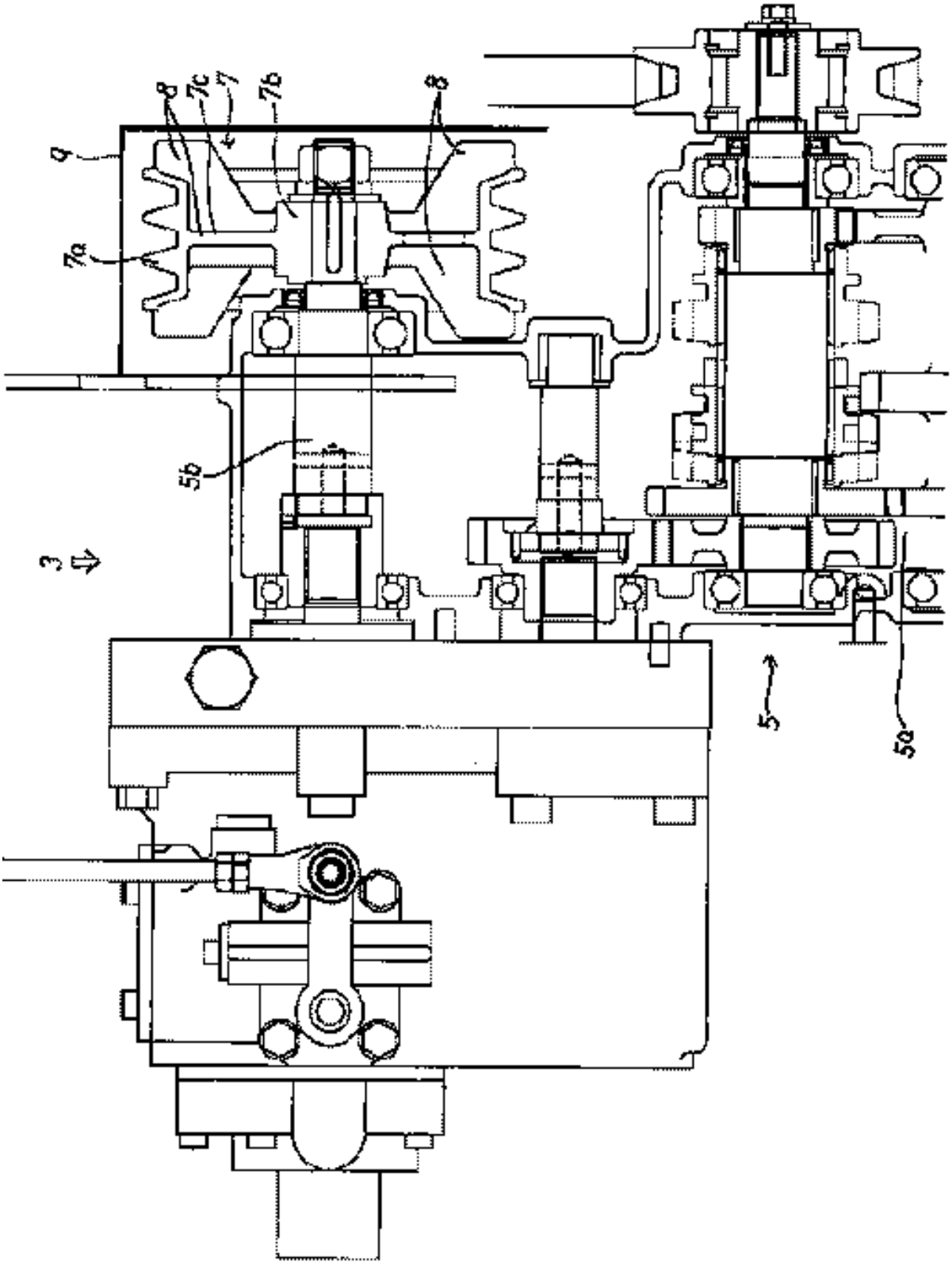
CHINA AGRICULTURAL UNIVERSITY

Family 572/667 - FAMPAT - ©Questel

Title

(JP2002347669)
Traveling device for combine

Images



Publication data including kind & date

JP2002347669 A 2002-12-04 JP2002347669

Abstract

(JP2002347669)

PROBLEM TO BE SOLVED: To dispense with an exclusive oil cooler for cooling a traveling transmission case and to cool the traveling transmission case by an input pulley to which the motive power is inputted.SOLUTION: The input pulley 7 for inputting the motive power to the traveling transmission case 5 for rotating and driving a left and right pair of traveling crawlers on the lower side of a traveling chassis, is provided with plural fins 8 for generating the cooling air for cooling the traveling transmission case 5, and a guide cover 9 is mounted for guiding the generated air.A lower face of the traveling transmission case 5 is located at an upper part with respect to a center of a traveling axle, and an axle sprocket divided into

three, that is, a sprocket part and inner and outer bosses, and integrally connected by means of bolts is journaled to the traveling axle.

Inventors

FUJITA YASUSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

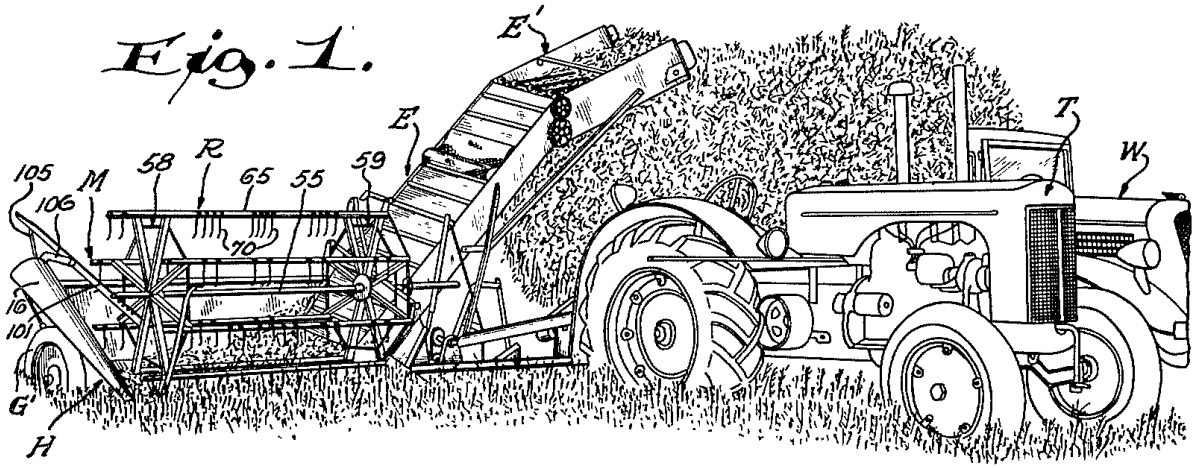
Family 573/667 - FAMPAT - ©Questel

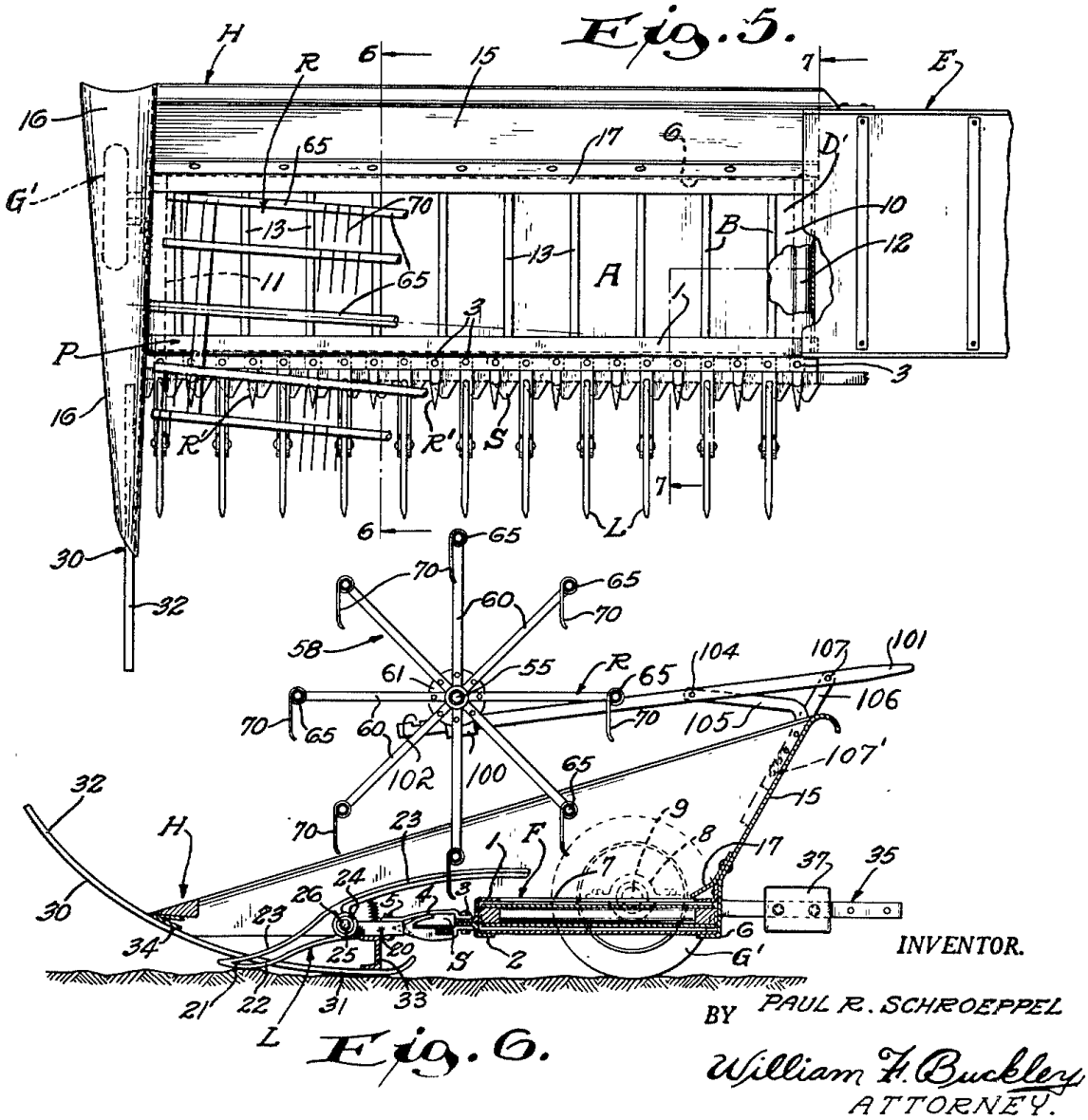
Title

(US2509371)

Machine for harvesting green peas

Images





Publication data including kind & date

US2509371 A 1950-05-30 US2509371

Inventors

SCHROEPPEL PAUL R

Latest standardized assignees - inventors removed

CNH GLOBAL

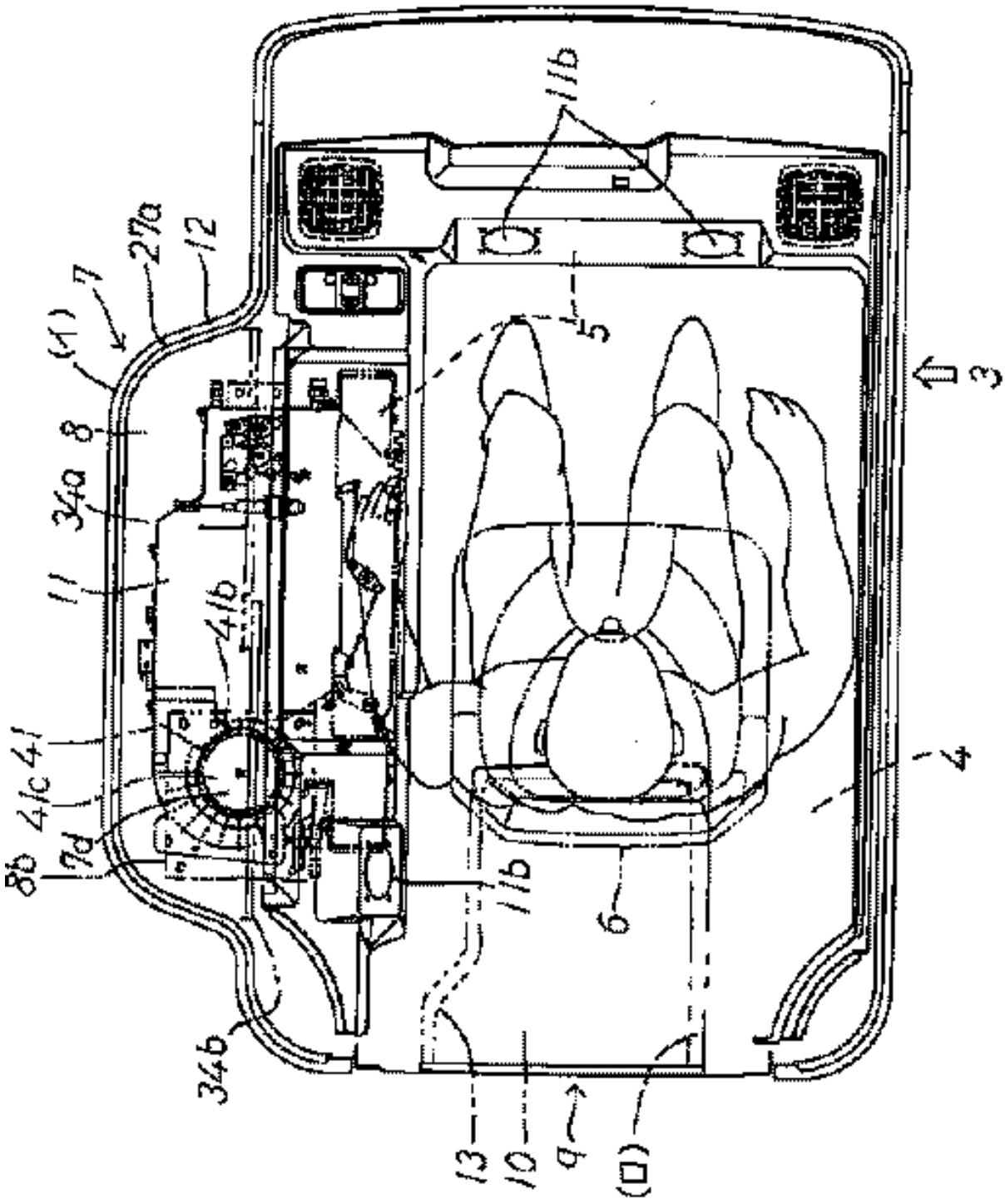
Family 574/667 - FAMPAT - ©Questel

Title

(JP2003182631)

Combine operating cabin device

Images



Publication data including kind & date

JP2003182631 A 2003-07-03 JP2003182631

Abstract

(JP2003182631)

PROBLEM TO BE SOLVED: To expand a overhead clearance of a driving operator carrying out driving operation in an operating cabin formed by an operating cabin frame.

SOLUTION: A projecting portion 8 projecting to a left outer side is provided on a left side of a ceiling portion 7 of an operating cabin frame 3 forming n operating cabin 4, and an air condition device 11 is provided in the projecting portion 8.An L-shaped ceiling opening/closing window 10 is provided between a ceiling plate 7a of the ceiling portion 7 and a rear side portion 9 of the operating cabin frame 3 so as to freely open and close.A protecting member 12 is provided on an upper frame 27 of the operating cabin frame 3 and a joining portion of the ceiling plate 7a, and a sealing member 13 is provided on a fitting portion of the ceiling opening/closing window 10.

COPYRIGHT: (C)2003,JPO

Inventors

DOI KAZUNORI

HAGIYAMA TAKESHI

OCHI KOJI

YOSHINO MASAHIKO

KAJIWARA TAKAYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

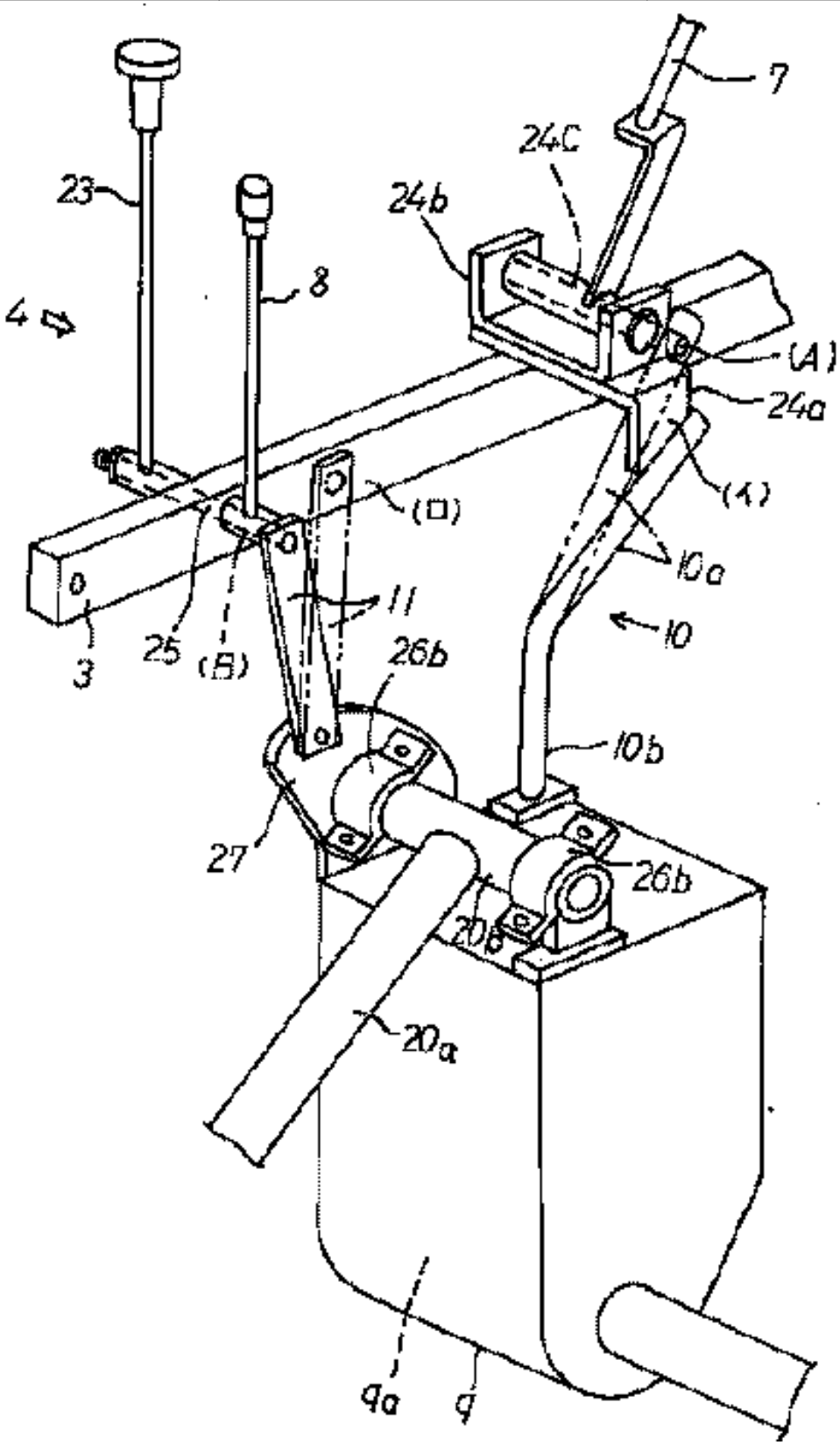
Family 575/667 - FAMPAT - ©Questel

Title

(JP2003159956)

Device for mounting clutch lever of combine

Images



Publication data including kind & date

JP2003159956 A 2003-06-03 JP2003159956

Abstract

(JP2003159956)

PROBLEM TO BE SOLVED: To prevent deflection of an operation frame having an operation clutch lever mounted thereto, when the operation clutch lever is turned 'ON'.

SOLUTION: The device for mounting the clutch lever of combine is so constituted that the rotating bearing point (A) part of a work clutch lever 7 which is mounted to the operation frame 3 of the upper part of a travelling undercarriage 2 or a vicinity part (L-shaped plate connected to (A)) is connected to a travelling mission case 9 with a rear connecting lever 10, while a rotating bearing point (B) of an auxiliary transmission lever 8 mounted to the operation frame 3 or a vicinity part

(rectangular plate connected to (B)) is connected to the travelling mission case 9 with a front connecting lever 11.

COPYRIGHT: (C)2003,JPO

Inventors

SATOJI HISAYUKI

NAGAI TOSHIRO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

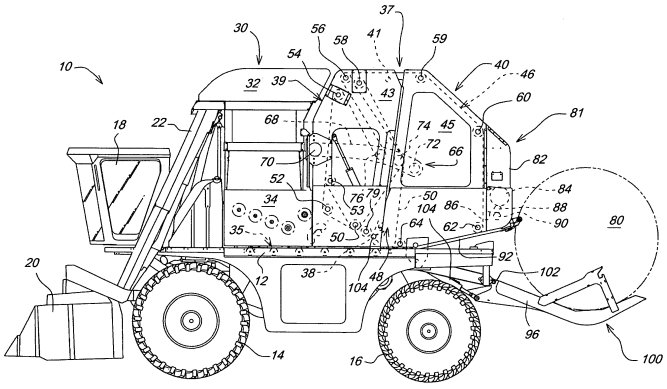
Family 576/667 - FAMPAT - ©Questel

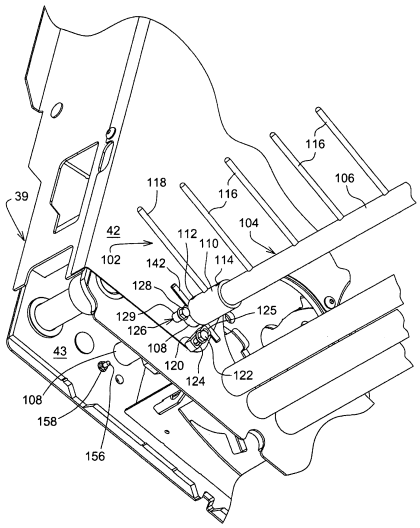
Title

(US8069638)

Bale lump eliminator for a round cotton module baler

Images





Publication data including kind & date

US20100192513	A1	2010-08-05	US20100192513
CN101844627	A	2010-09-29	CN101844627
BRPI1000124	A2	2011-03-29	BR201000124
BRPI1000124	B1	2011-03-29	BRPI1000124
IN0155/MUM/2010	A	2011-11-11	IN2010MU00155
US8069638	B2	2011-12-06	US8069638
CN101844627	B	2013-08-28	CN101844627B

Abstract

(US8069638)

A baler for making large cylindrical modules of cotton includes an expansible module-forming chamber comprising a plurality of module-forming belts that are supported in side-by-side relationship across a plurality of fixed and movable belt support rolls.The module-forming chamber includes a fixed front section and a movable rear section in the form of a discharge gate mounted to an upper rear location of the front section for pivoting between a lowered baling position and a raised discharge position.Located at the bottom of the baling chamber between a bottom fixed belt support roll and a lower front roll of the lowered discharge gate is an inlet through which cotton passes into the module-forming chamber.A module wrapping arrangement is carried on the discharge gate for selectively feeding a length of plastic sheet material into the inlet for being wrapped about the circumference of a cotton module formed in the chamber.Located within the inlet in front of the lower front gate roll is a rake-like cotton bunching eliminator which operates to prevent cotton from bunching prior to being fed onto the circumference of a rotating cotton module during the operation of wrapping the module, thus eliminating the formation of lumps on the circumference of the module.

Inventors

WIGDAHL JEFFREY SCOTT

WEBER SCOTT DAVID

Latest standardized assignees - inventors removed

DEERE

Family 577/667 - FAMPAT - ©Questel

Title

(US2610460)

Paddle wheel reinforcement means

Images

Fig. 1.

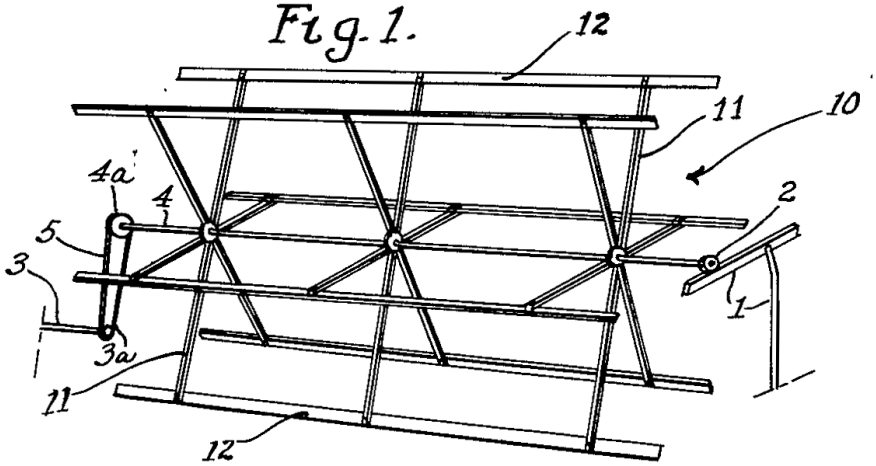


Fig. 2.

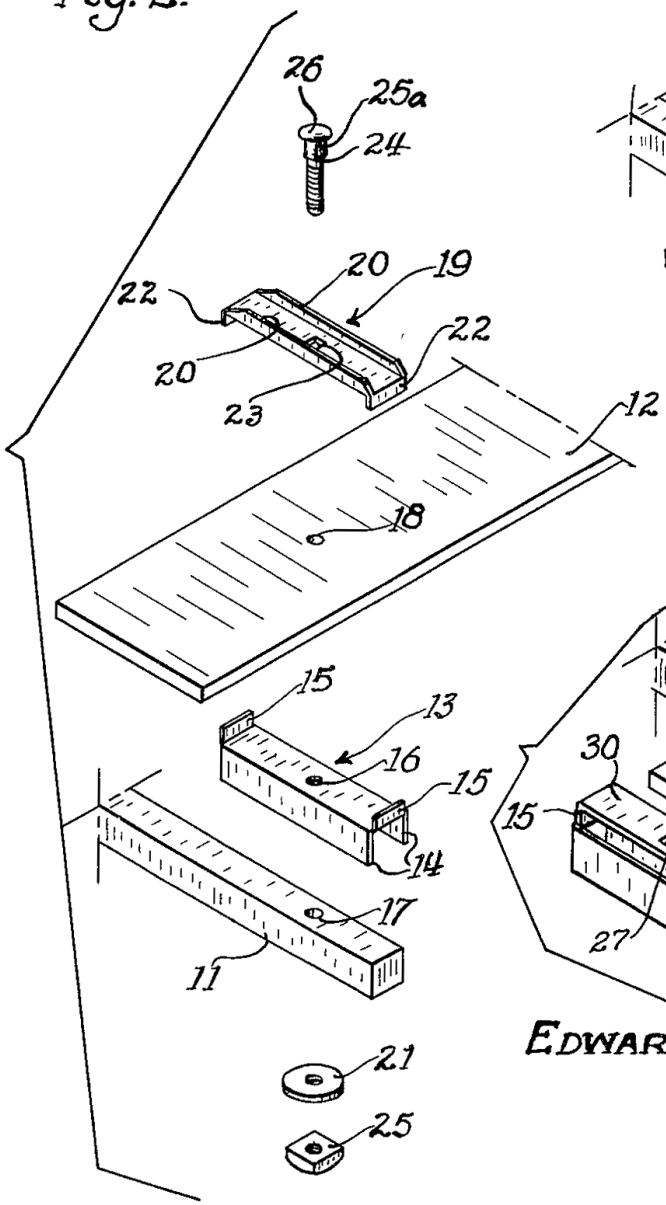


Fig. 3.

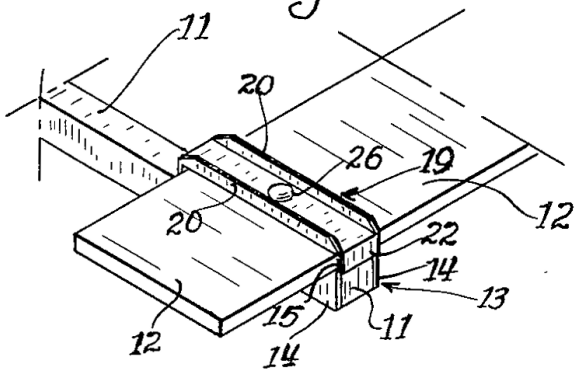


Fig. 4.

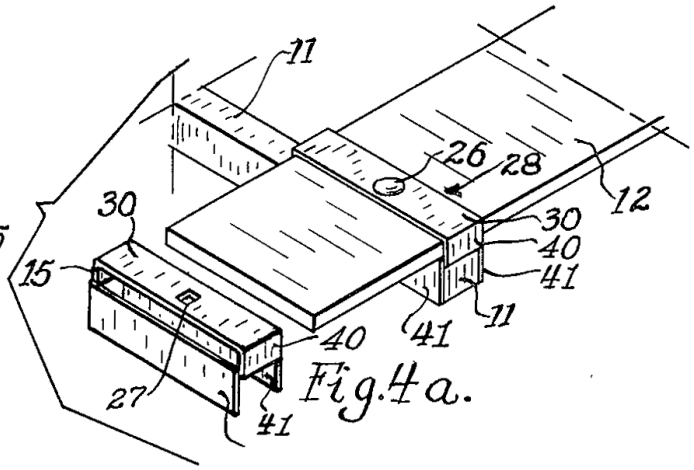


Fig. 4a.

EDWARD O. HENDRICKSON, INVENTOR.

BY Wilbur A. E. Mitchell
Atty.

Publication data including kind & date

US2610460 A 1952-09-16 US2610460

Inventors

HENDRICKSON EDWARD O

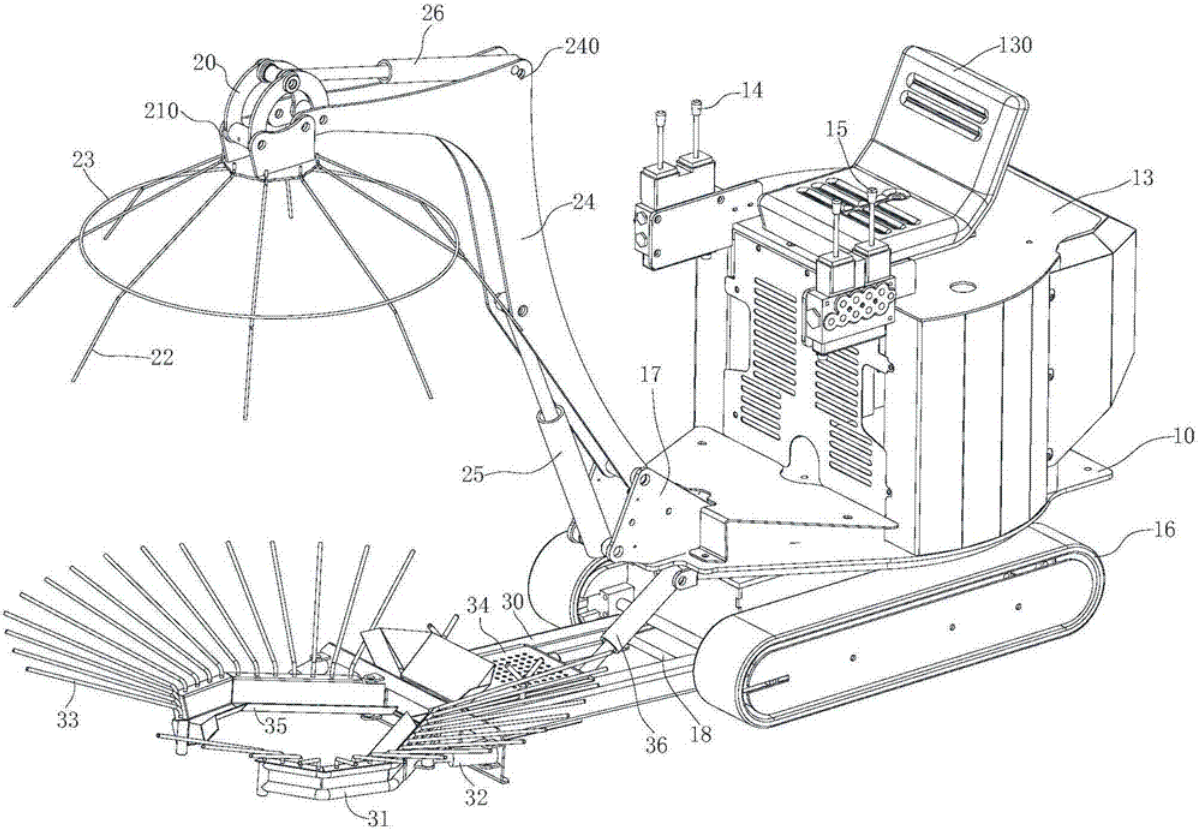
Family 578/667 - FAMPAT - ©Questel

Title

(CN108522019)

Bushy fruit harvesting machine

Images



Publication data including kind & date

CN108522019	A	2018-09-14	CN108522019

Abstract

(CN108522019)

The present invention discloses a bush fruit harvesting machines, including a traveling device; shaking or tapping forces applied to the bushes of the tree cover mechanism, one end of a tree cover coupled to the traveling unit means, as tree cover covered on the other end of the top brush mechanism/or shrubs and the free end of the side part; for encircling a portion of the shrub shrub shaking or slapping on the tree cover around the periphery to tree trunks when the fruit to drop mechanism for collecting the fruit collector, the fruit traveling unit is connected to one end of the collection mechanism, fruit tree cover mechanism is located below the collecting mechanism.The present invention obviates the need for harvesting fruit when the fruit is damaged or injured.

Inventors

GU GUOPING

YUN JIAN

WENG ZHIHUANG

SUN XULIANG

Latest standardized assignees - inventors removed

CHANGZHOU JIA YUN MACHINERY

Family 579/667 - FAMPAT - ©Questel

Title

(FR1106383)

Improvements to combine

Publication data including kind & date

FR1106383	A	1955-12-19	FR1106383

Latest standardized assignees - inventors removed

BAMFORDS

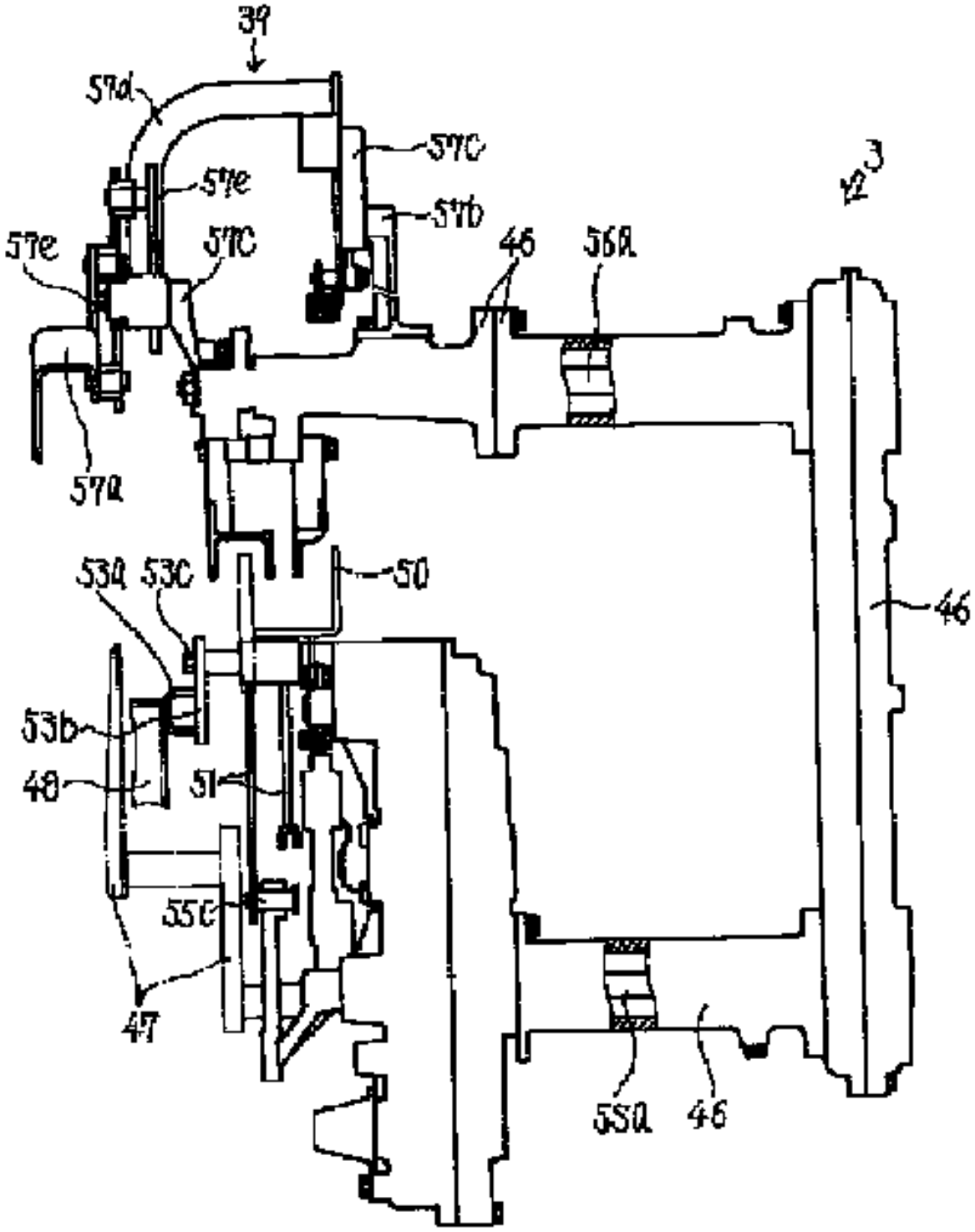
Family 580/667 - FAMPAT - ©Questel

Title

(JP11075482)

Collecting device in bundling machine

Images



Publication data including kind & date

JPH1175482 A 1999-03-23 JP11075482

Abstract

(JP11075482)

PROBLEM TO BE SOLVED: To provide the subject device having heightened strength at a needle- attaching part, and not allowing waste culms to enter from the under part of a waste culm receiver by pivotally supporting one side of a needle shaft for attaching a needle in the interior of a transmission case, fastening the shaft terminal of the other side to a bundling guide board and forming the waste culm receiver so as to form a nearly H-shape in the view from the conveying direction.SOLUTION: The objective device is obtained by forming a needle shaft for installing a needle 51 for winding a bunching string on a bunch of collected grain culms, in the shaft terminal part, a transmission case 46 for pivotally supporting one side of the needle shaft in the interior thereof, a packer 47 attached to the transmission case 46 and conveying and collecting the waste culms, and a bunching guide board 48 for receiving roots of the waste culms, attaching the shaft terminal part of the other side of the needle shaft to one side part of the bundling guide board 48, and installing a waste culm receiver 50 for receiving the conveyed and collected waste culms and stopping the waste culms until achieving a prescribed amount to form a nearly H shape in the view from the conveying direction.

Inventors

OCHI SHOJI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

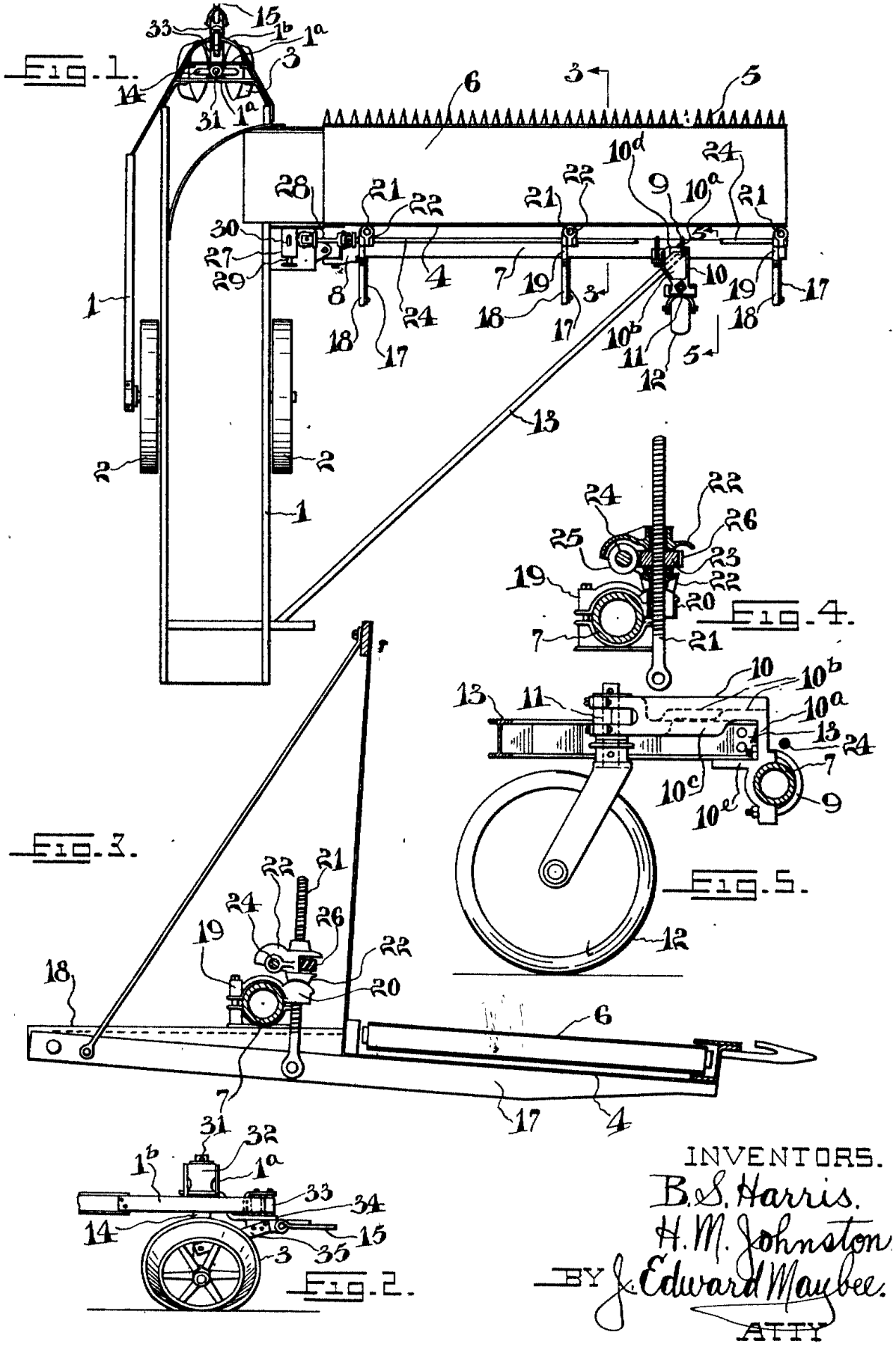
Family 581/667 - FAMPAT - ©Questel

Title

(US1712821)

Reaper thrasher

Images



Publication data including kind & date

US1712821 A 1929-05-14 US1712821

Inventors

HARRIS BURTON S

JOHNSTON HOWARD M

Latest standardized assignees - inventors removed

MASSEY HARRIS

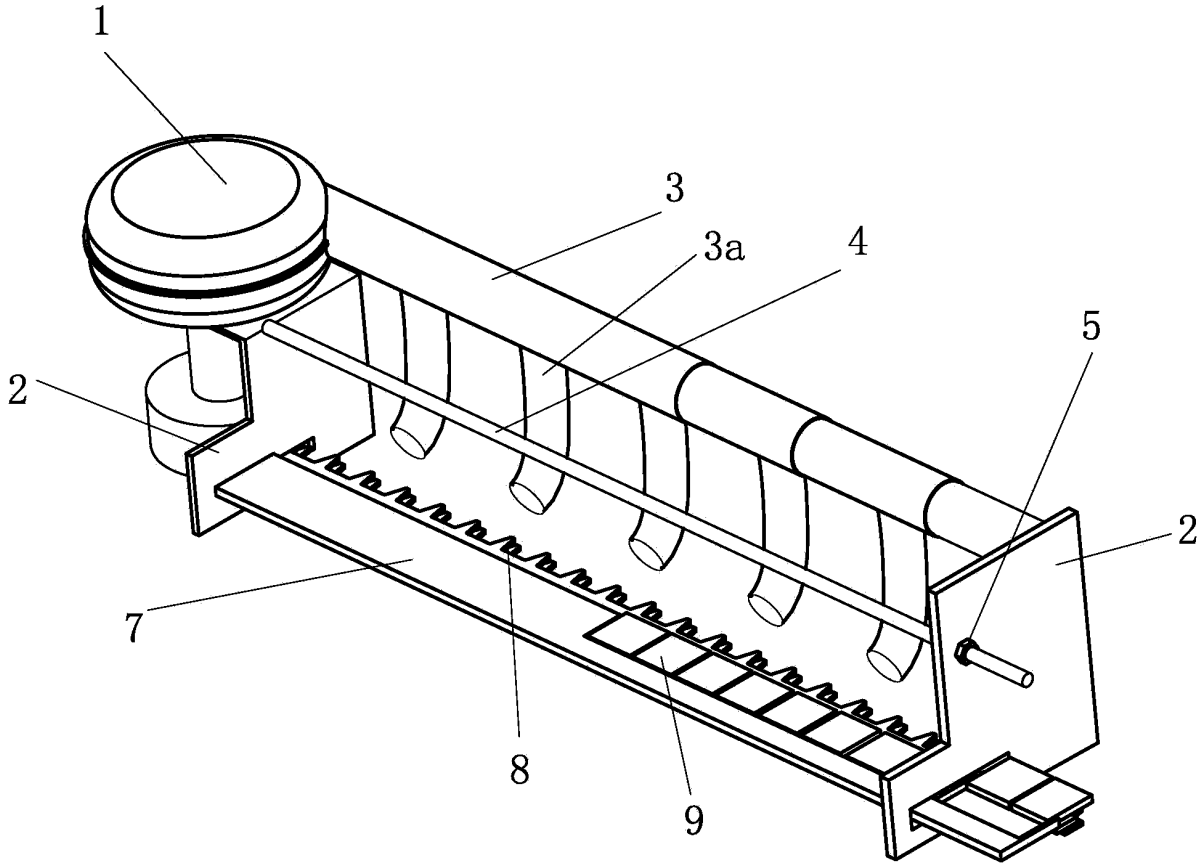
Family 582/667 - FAMPAT - ©Questel

Title

(CN205142898U)

But light -duty tea -leaf picker of roll adjustment

Images



Publication data including kind & date

CN205142898	U	2016-04-13	CN205142898U

Abstract

(CN205142898U)

The utility model provides a but light -duty tea -leaf picker of roll adjustment.The utility model discloses it is including long serrated knife utensil, suction fan and frame, and the frame comprises two curb plates, and long serrated knife utensil spanes two curb plates, forms between two curb plates and cuts the region, is equipped with apneusis pipe and a plurality of branches straw on the suction fan, and branch's straw extends from apneusis pipe, and the mouth of pipe correspondence of branch's straw is in the cutting tooth department that long serrated knife possesses, two curb plates can relative movement to be equipped with spacing adjustment mechanism, apneusis pipe cup joint by the multisection pipe box, when the curb plate removes apneusis pipe follow flexible, long serrated knife utensil is worn out from the curb plate that removes, is equipped with protection device on the long serrated knife utensil, and protection device can cover the cutting tooth part of long serrated knife utensil completely.The the device accessible is adjusted the curb plate and is changed the cutting interval.

Inventors

HU ANGUO

Li Feng

Latest standardized assignees - inventors removed

YONGKANG WEILI GARDEN MACHINERY

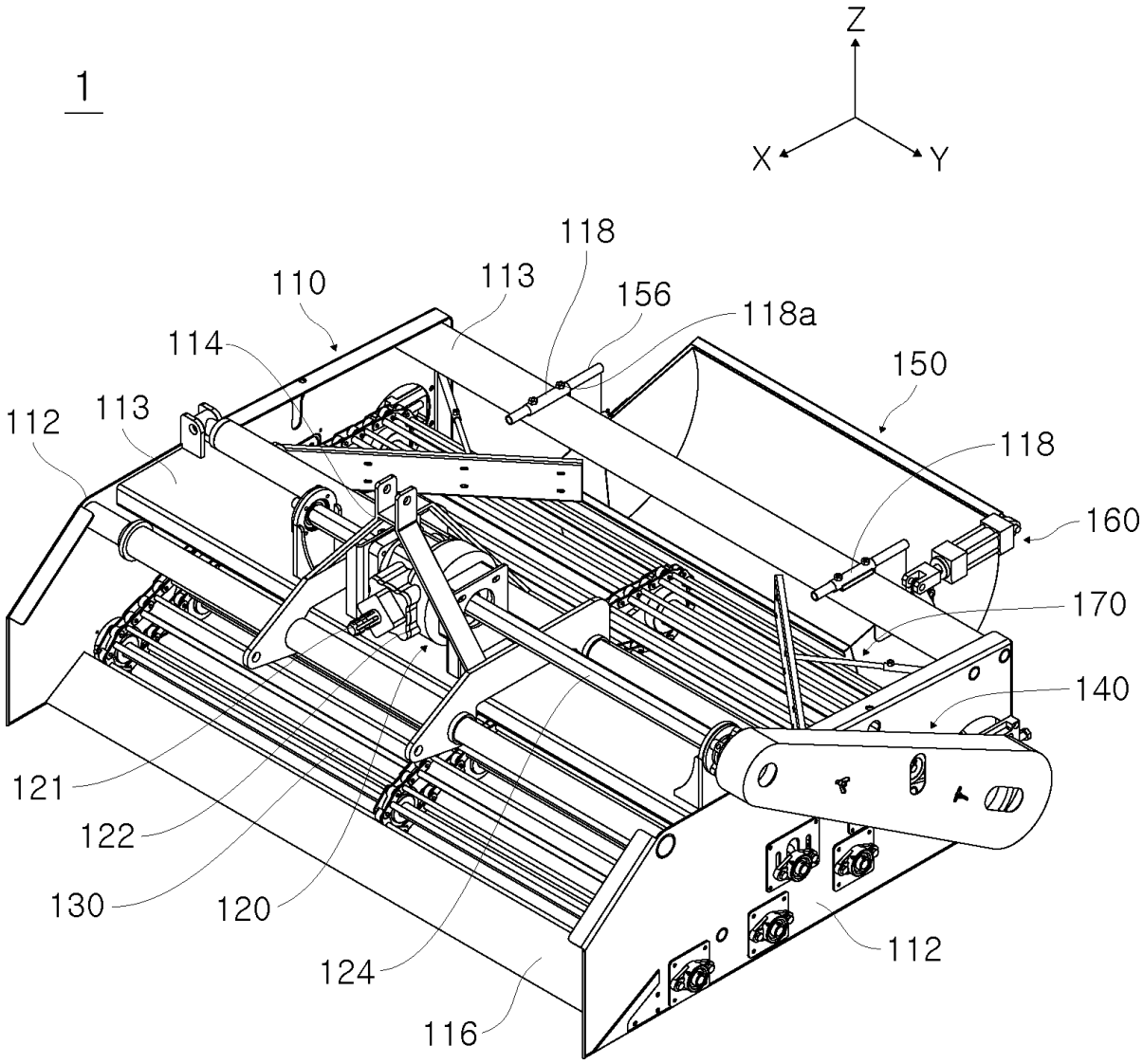
Family 583/667 - FAMPAT - ©Questel

Title

(KR20180080521)

Harvesters for root crop

Images



Publication data including kind & date

KR20180080521 A 2018-07-12 KR20180080521

Abstract

(KR20180080521)

The present invention relates to a root crop harvesting apparatus which is operated to continuously harvest crops from the ground when a bucket is opened to pour out the harvested crops.According to the present invention, the root crop harvesting apparatus comprises: a frame (110) connected to a transport vehicle; a driving unit (120) installed in the frame and rotated by receiving power from the transport vehicle; a conveyor (130) installed inside the frame, rotated in a caterpillar type, and transferring harvested crops to a rear side; and a power transmission unit (140) to transfer rotational power of a driving unit to the conveyor.The root crop harvesting apparatus comprises: a bucket (150) including a body (152) mounted on the rear end part of the frame to contain the crops transferred to the rear side through the conveyor and having an outlet (151) formed on a bottom part, and a door (154) installed in the body to be able to axially rotate so as to open/close the outlet; and a cylinder (160) connecting both end parts to the body and the door, respectively, and controlling the rotation of the door by expansion/contraction action.

Inventors

LIM JU SAENG

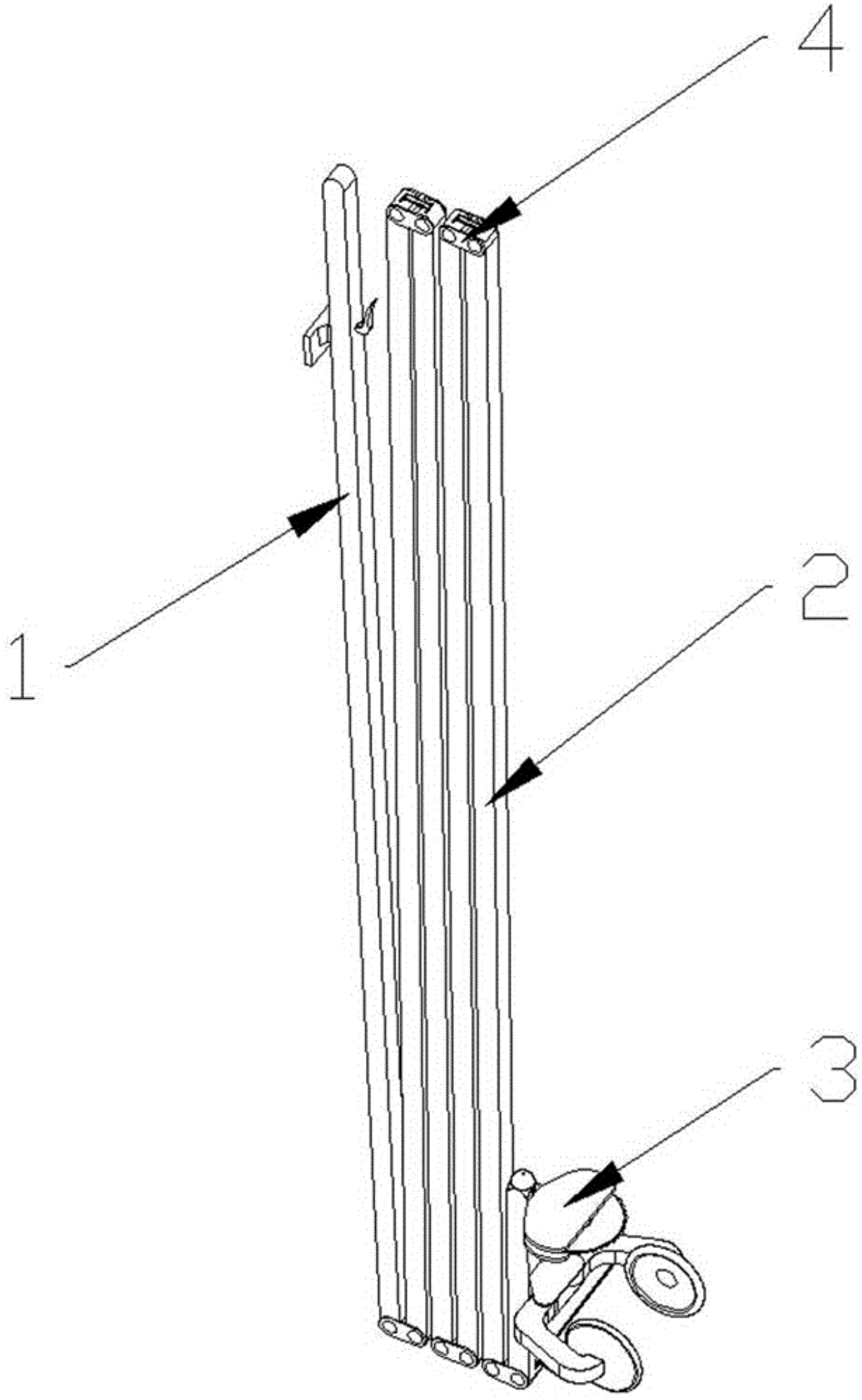
Family 584/667 - FAMPAT - ©Questel

Title

(CN106605496)

Electric fruit collection rod

Images



Publication data including kind & date

CN106605496 A 2017-05-03 CN106605496

Abstract

(CN106605496)

An electric fruit collection rod relates to a manually-operated fruit picking tool.The electric fruit collection rod is capable of clamping fruits in high places.For especially high trees that cannot be seen by the naked eyes of people, the rod can accurately cut off fruits by observing images that are returned by a camera and displayed on a display screen.Moreover, the electric fruit collection rod can be quickly folded so that fruits can be quickly obtained.In this way, safety hidden troubles when people climb trees to pick fruits are avoided, and the quality of fruits is prevented from being affected due to blurred vision of people.

Inventors

LIN ZHONG

Family 585/667 - FAMPAT - ©Questel

Title

(US2924466)

Adjustable draft member

Images

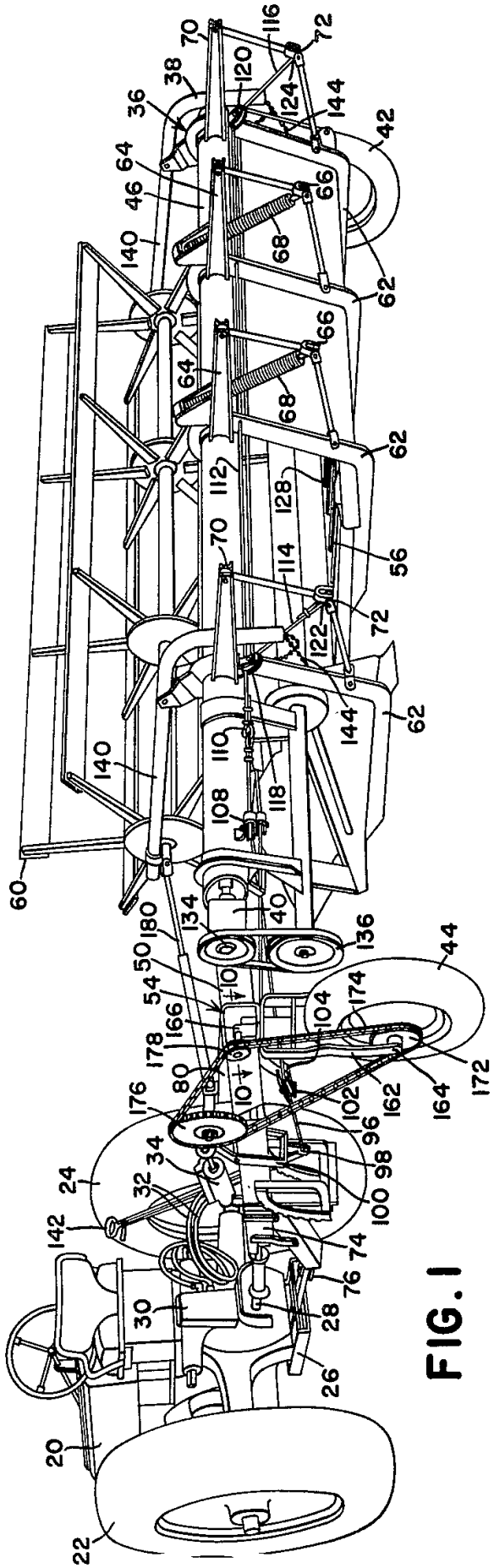


FIG. 1

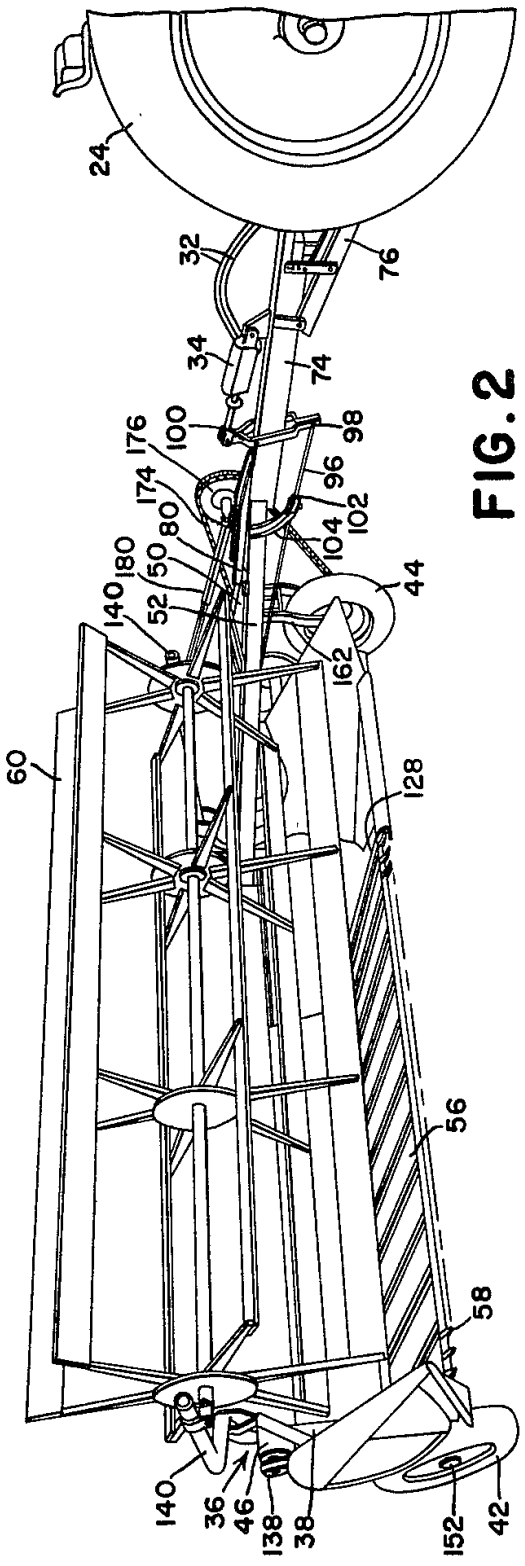


FIG. 2

INVENTOR
E. T. JOHNSON

Publication data including kind & date

US2924466 A 1960-02-09 US2924466

Inventors

JOHNSON ELLSWORTH T

Latest standardized assignees - inventors removed

DEERE

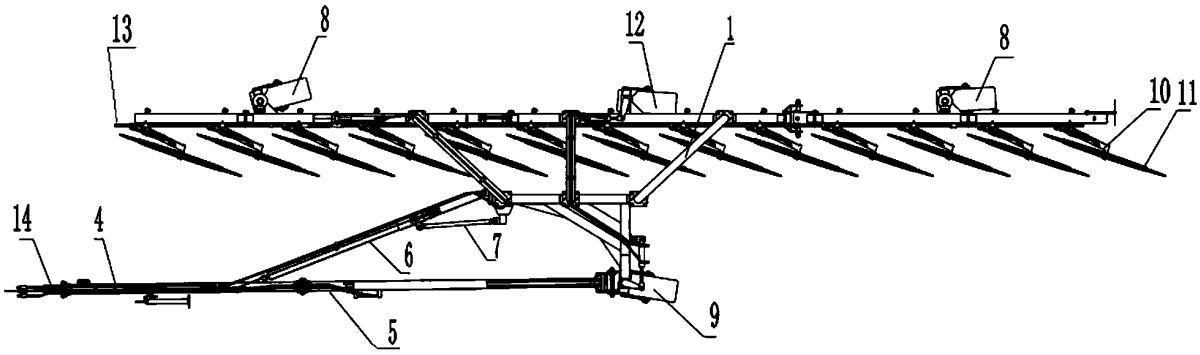
Family 586/667 - FAMPAT - ©Questel

Title

(CN103947384)

Grass raking device

Images



Publication data including kind & date

CN103947384	A	2014-07-30	CN103947384
CN203884237	U	2014-10-22	CN203884237U
CN103947384	B	2016-04-20	CN103947384B

Abstract

(CN103947384B)

The invention discloses a grass raking device which comprises a traction mechanism, a machine frame, a tire group and a plurality of grass raking mechanism; one end of the traction mechanism is connected with external power machinery, and the other end of the traction mechanism is installed on the machine frame; the plurality of grass raking mechanisms are installed on the machine frame and are uniformly distributed on the machine frame in the same direction; and one end of the tire group is fixedly arranged on the machine frame, and the other end of the tire group is in contact with the ground.Therefore, the grass raking device can realize the effect of automatically raking the grass into grass strips.

Inventors

LIU LIQIANG

ZHANG BOYU

YANG XIANTAO

HE GUANJIE

ZHAO JIABIN

JIA YANKUI

Latest standardized assignees - inventors removed

HANGTIAN XINCHANGZHENG ELECTRIC AUTOMOBILE TECHNOLOGY

BEIJING INSTITUTE OF SPACE LAUNCH TECHNOLOGY

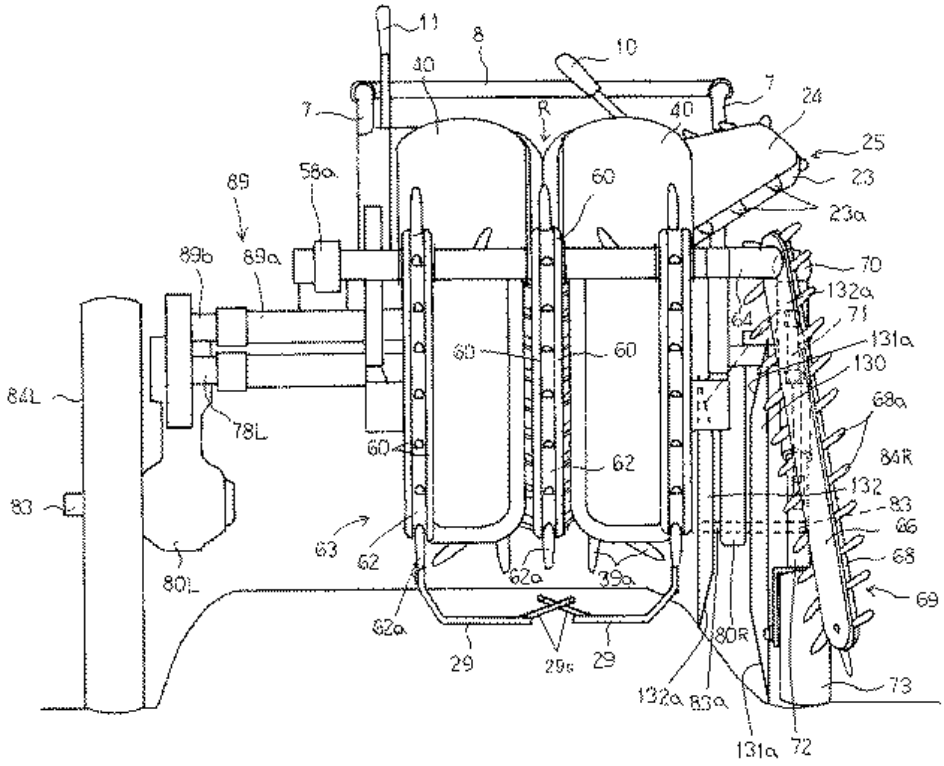
Family 587/667 - FAMPAT - ©Questel

Title

(JP2015073438)

Crop harvesting machine

Images



Publication data including kind & date

JP2015073438	A	2015-04-20	JP2015073438
JP6090097	B2	2017-03-08	JP6090097

Abstract

(JP6090097)

PROBLEM TO BE SOLVED: To provide a crop harvesting machine that guides a foliage part to be discharged to a field to a ridge furrow and can prevent the foliage part from coiling around a travel unit or the like and from falling on a crop plant placed on a ridge.SOLUTION: A crop harvesting machine is provided with: travel units 84L and 84R that travel along a ridge furrow; a pulling-out and conveying unit 20 that holds a foliage part and then pulls a crop plant from a field; a discharged-leave conveying unit 25 that receives the foliage part from the pulling-out and conveying unit 20 and then conveys it; drive units 2 and 3 that are provided at a machine body frame 1; transmission cases 80L and 80R that transmit driving force of the drive units 2 and 3 to the travel units 84L and 84R; a first discharged-leave guiding member 130 that is provided between the transmission cases 80L and 80R and the travel units 84L and 84R; and a second discharged-leave guiding member 132 that is provided between the transmission cases 80L and 80R and the pulling-out and conveying unit 20.The first discharged-leave guiding member 130 and the second discharged-leave guiding member 132 are arranged at an interval.

Inventors

Masami Muramachi
TAKAGI SHINGO
Hideaki Kurose
YUMITATSU TAKESHI
Shinichi Matsuzabu

Latest standardized assignees - inventors removed

ISEKI

Family 588/667 - FAMPAT - ©Questel

Title

(FR1521467)

Apparatus for picking up bales of straw or the like

Publication data including kind & date

FR1521467 A 1968-04-19 FR1521467

Latest standardized assignees - inventors removed

ANCIENS ETABLISSEMENTS EUGENE

Family 589/667 - FAMPAT - ©Questel

Title

(EP3326448)

Agricultural machine with a pickup device

Images

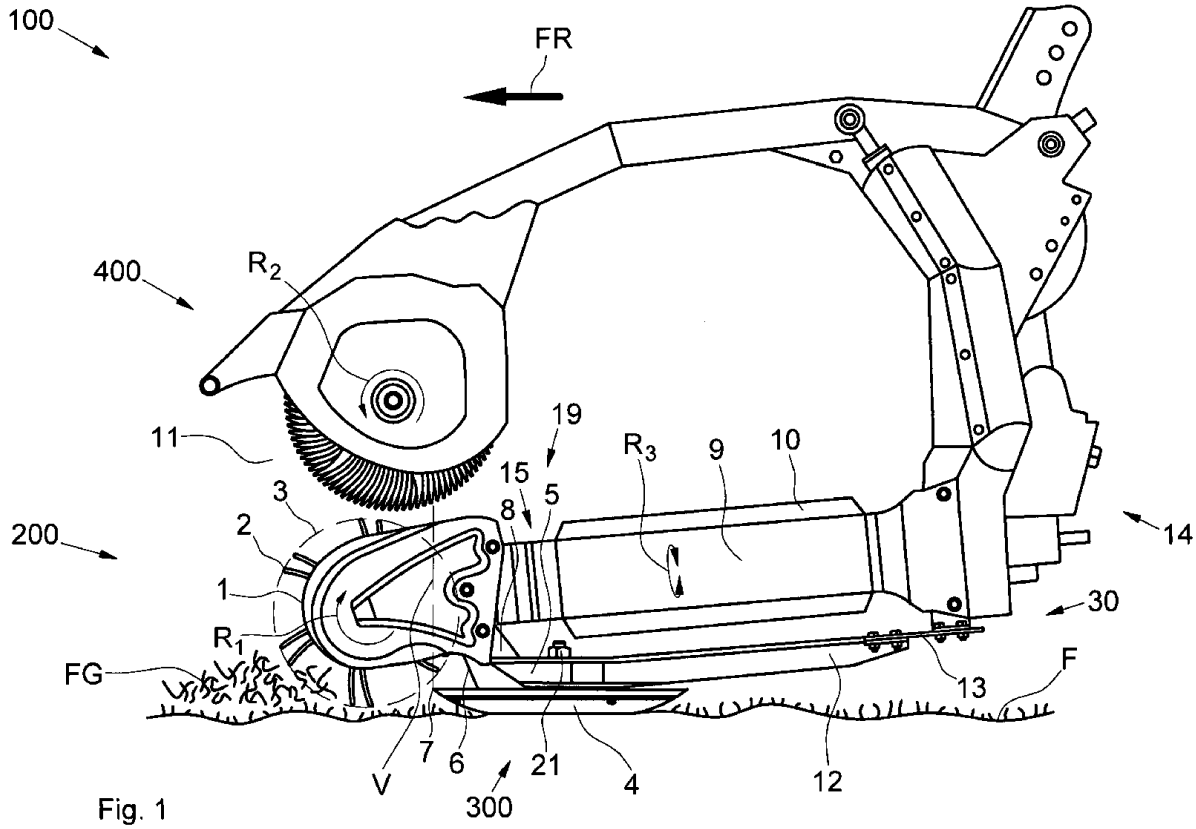


Fig. 1

Publication data including kind & date

EP3326448 A1 2018-05-30 EP3326448

Abstract

(EP3326448)

The invention relates to an agricultural machine comprising at least one (100) pick-up device (200), wherein the pick-up device (200) at least one in rotation (R1) rotatable pick-up roller (1) comprises, or - with prongs (2) for receiving casing straw (FG) of agricultural (F), wherein the pick-up device (200) at least one moving - and support (300) assembly comprises, wherein the running - and supporting apparatus (300, 300a-300i) of the pick-up device comprising at least one (200) sliding plate (4) with an approximately circular or oval, convex edge includes.

Inventors

KNÜSEL JOSEF

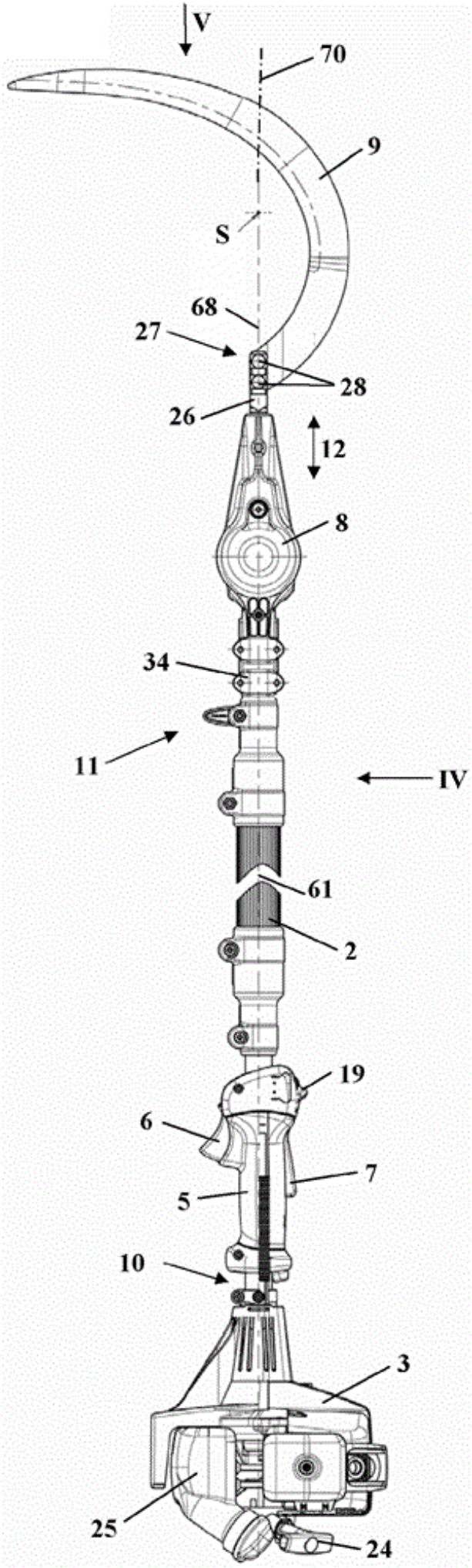
Family 590/667 - FAMPAT - ©Questel

Title

(BR102014003603)

Device of guided work manually

Images


V
70
9
S
68
27
28
26
12
8
34
11
IV
61
2
19
6
7
5
10
3
25
24

Publication data including kind & date

BR102014003603	A1	2014-02-25	BR102014003603
CN104012242	A	2014-09-03	CN104012242
BR102014003603	A2	2014-12-16	BR102014003603
CN104012242	B	2018-02-13	CN104012242B

Abstract

(BR102014003603)

The invention relates to a hand-held working apparatus which has a guiding tube (2).A driving element (23) passes through the guiding tube.A first end (65) of the driving element (23) and a driving motor (14) are in effective connection, and a second end (66) of the driving element (23) and a tool are in effective connection.The driving element (23) has a longitudinal axis (61).The tool is driven back and forth in the direction of the longitudinal axis (61) and contains at least a knife (9).Center of gravity (S) of the tool is on the longitudinal axis (61) of the driving element (23).

(From CN104012242 A)

Inventors

KOHMANN HENRIQUE
WEY CARLOS
DENSBORN GERD
JOEDECKE ALEXANDER
RETHABER ACHIM
KUEBLER CLAUS
MENZEL JOHANNES

Latest standardized assignees - inventors removed

ANDREAS STIHL

Family 591/667 - FAMPAT - ©Questel

Title

(US3664101)

Crop gathering and converging reel

Images

PATENTED MAY 23 1972

SHEET 1 OF 8

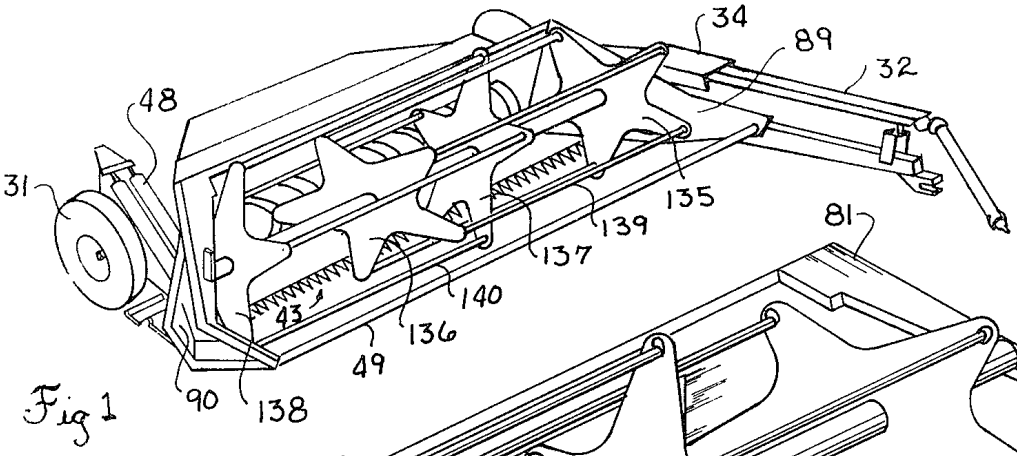


Fig 1

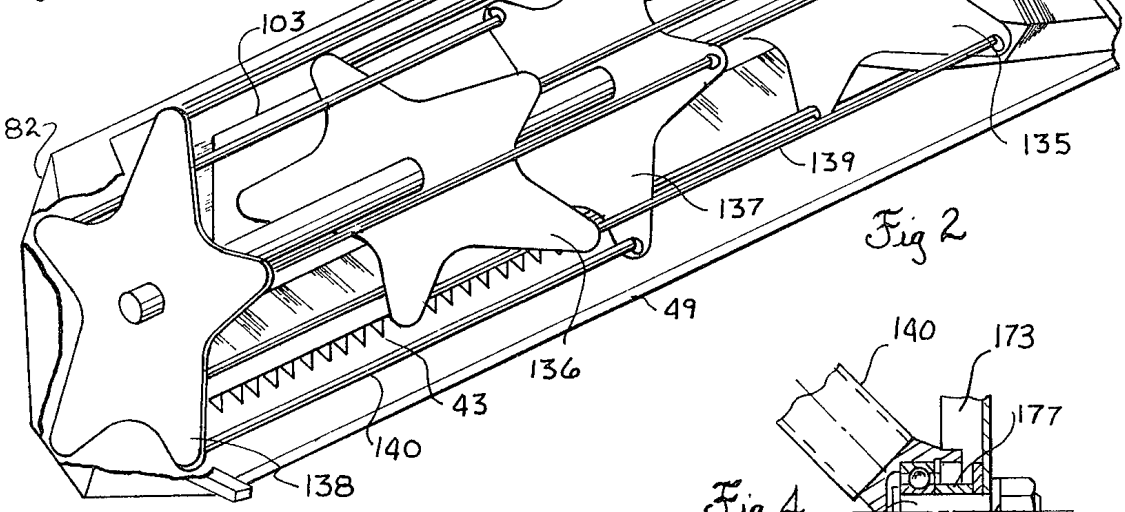


Fig 2

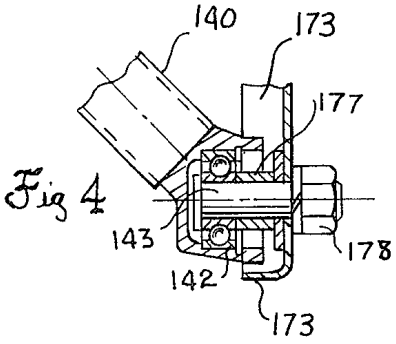


Fig 4

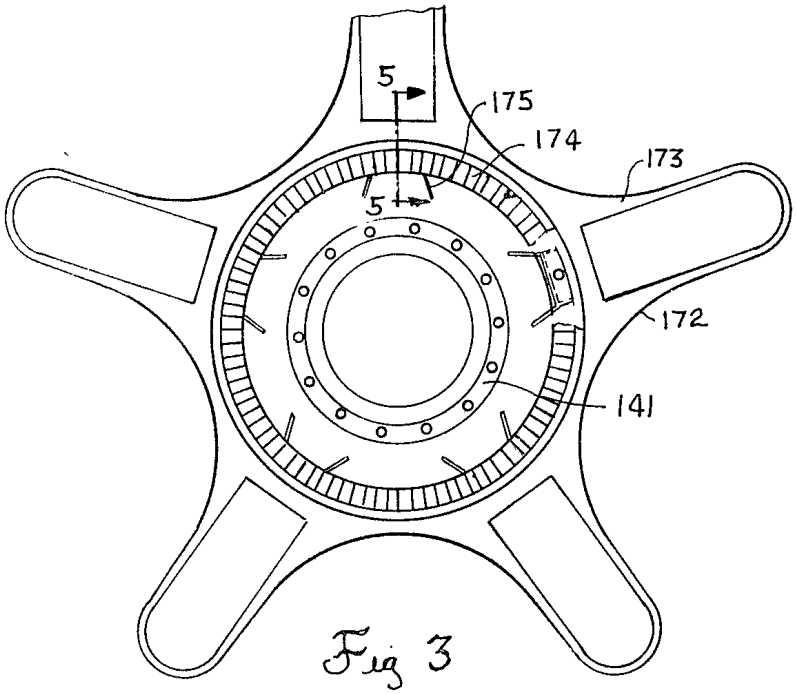


Fig 3

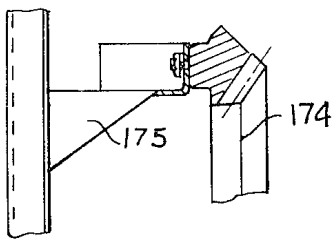


Fig 5

INVENTOR
JOSEPH C. HURLBURT

Publication data including kind & date

DE2144813	A1	1972-03-16	DE2144813
US3664101	A	1972-05-23	US3664101
AU3315071	A	1973-03-15	AU7133150

CA955069	A	1974-09-24	CA-955069
AU453908	B2	1974-10-17	AU-453908
DE2144813	C2	1982-11-11	DE2144813

Abstract

(US3664101)

A crop gathering and converging reel has two reel sections rotatably mounted on a transverse stationary tube with adjacent ends of the reel sections overlapping.The two reel sections have opposite angularities to sweep cut crop rearwardly into the header and laterally towards the center for converging the cut crop to a narrower discharge.

Inventors

HURLBURT JOSEPH C

Latest standardized assignees - inventors removed

FORD NEW HOLLAND

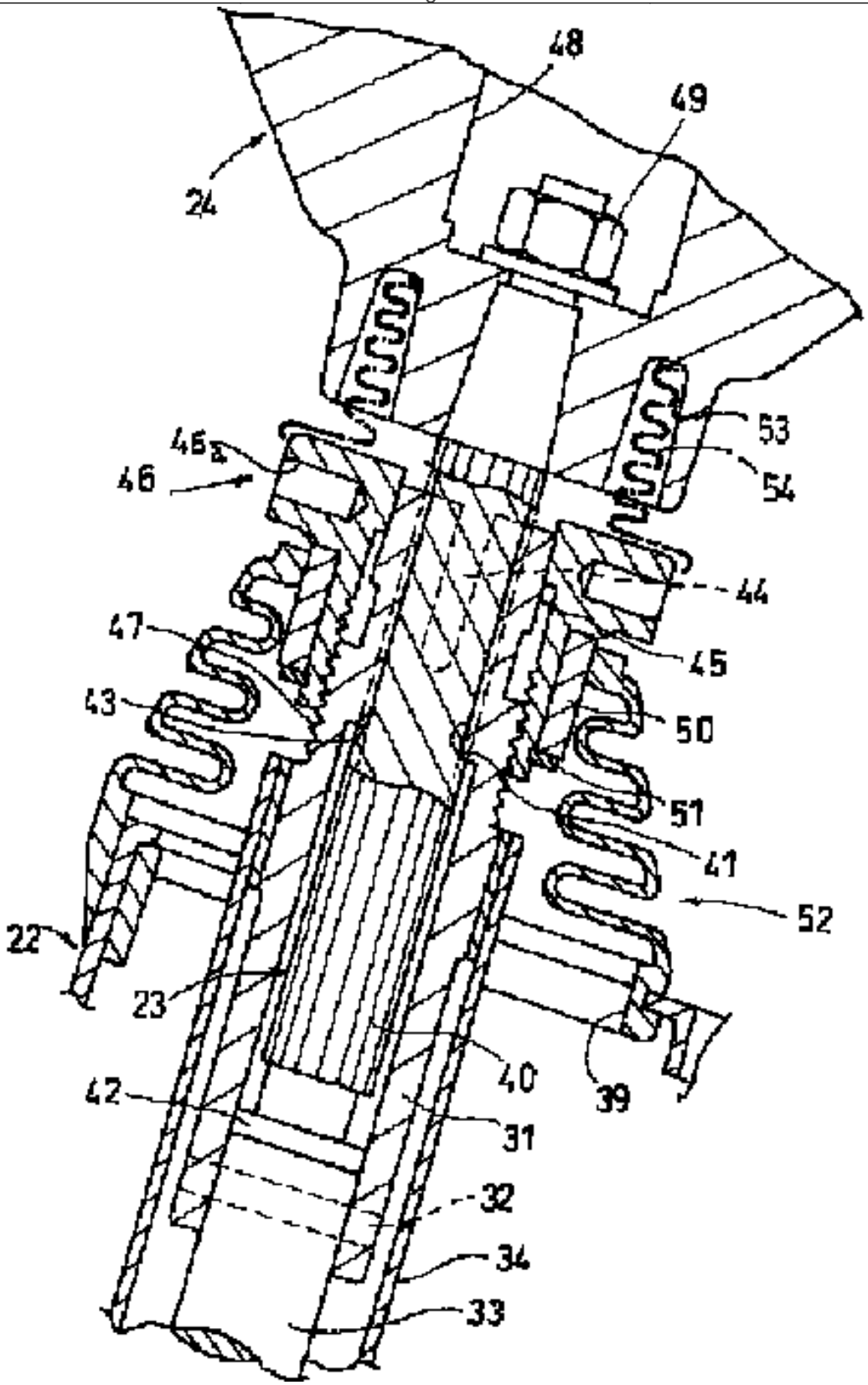
Family 592/667 - FAMPAT - ©Questel

Title

(JP10287249)

Tilt type steering wheel device

Images



Publication data including kind & date

JPH10287249 A 1998-10-27 JP10287249

Abstract

(JP10287249)

PROBLEM TO BE SOLVED: To provide a tilt type steering wheel device wherein a height position of a round handle can be properly adjusted in accordance with physique of a worker.SOLUTION: A cylinder unit 31 connected flexibly through a universal joint to an operating shaft of a steering is arranged capable of rotating and elevating relating to a steering wheel post 22, on the other hand, relating to a spline groove part 41 formed in an internal diametric part of the cylinder unit 31, a spline shaft part 40 in the lengthwise halfway of a steering wheel shaft 23 fixed to a steering wheel 24 can be fitted in only sliding, a flange part 42 in a lower end of the steering wheel shaft 23 is brought into contact with a step difference part 43 in

the cylinder unit 31, with coming off impossible.The cylinder unit 31, by its tip end part cut groove 44, is constituted capable of deflecting in a radial direction, in this tip end part, a lock nut unit 46 for fixing a slide position of the steering wheel shaft 23 is crewed, to be tightened by a tapered part 45.

Inventors

NAKAYA AKIHIKO

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

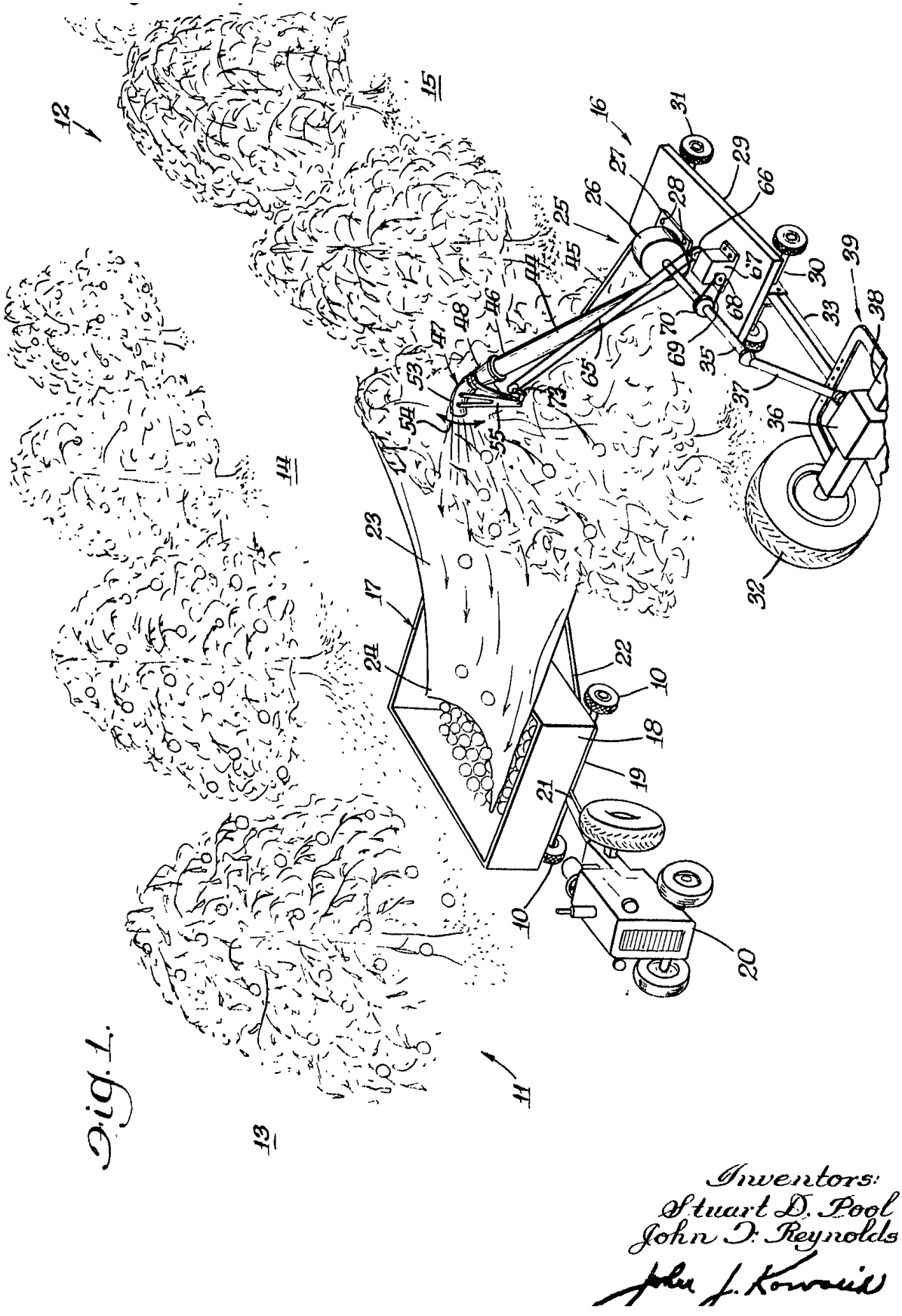
Family 593/667 - FAMPAT - ©Questel

Title

(US3455502)

Fruit picker

Images



Publication data including kind & date

US3455502 A 1969-07-15 US3455502

Inventors

POOL STUART D

REYNOLDS JOHN F

Latest standardized assignees - inventors removed

CNH GLOBAL

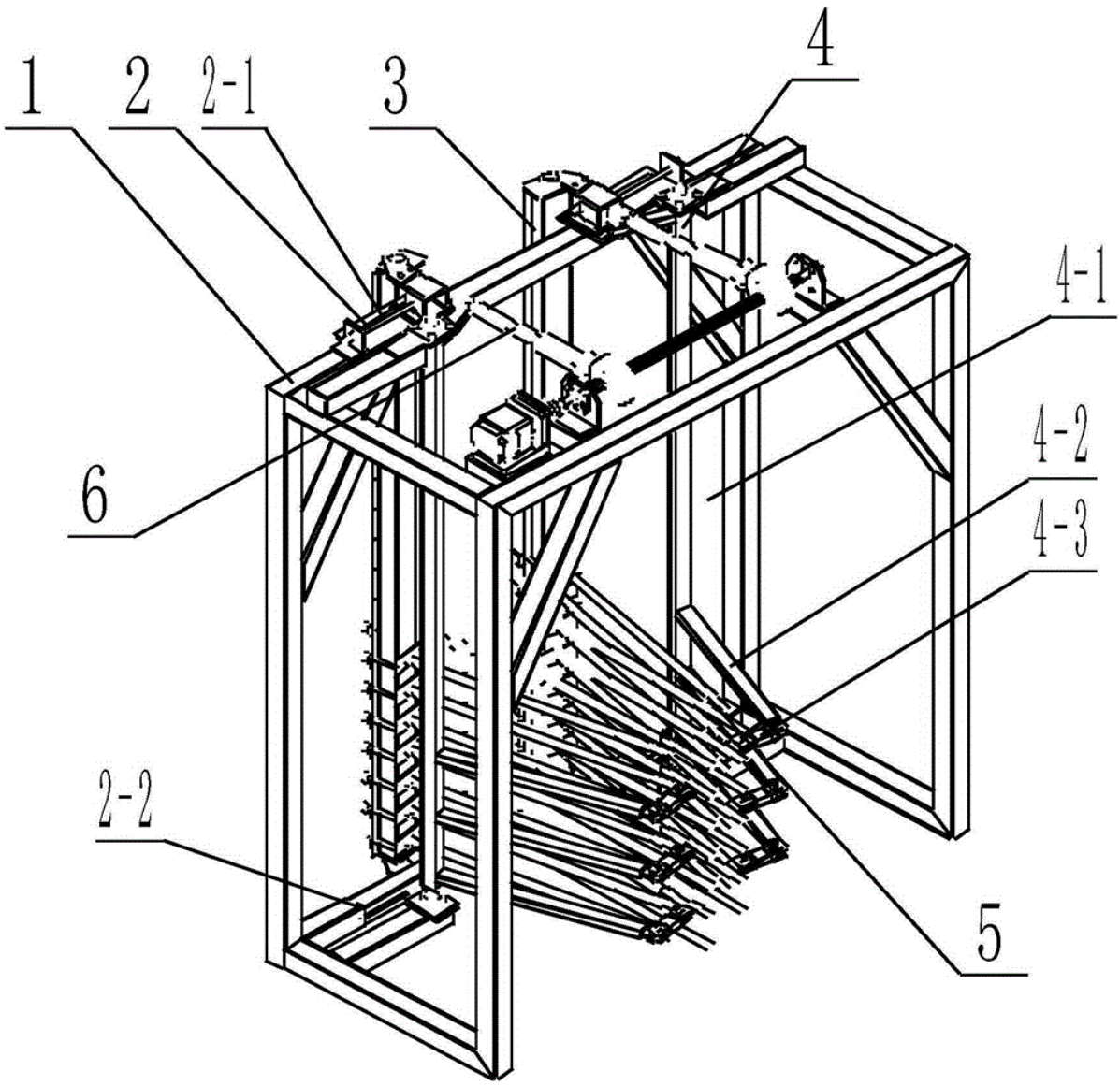
Family 594/667 - FAMPAT - ©Questel

Title

(CN205213435U)

Vibration separating device and grape harvesting machine

Images



Publication data including kind & date

CN205213435 U 2016-05-11 CN205213435U

Abstract

(CN205213435U)

The utility model relates to the technical field of agricultural m achinery, specifically disclose a vibration separating device and grape harvesting machine, vibration separating device includes: a machine support.Initiative rocker subassembly rotationally sets up in the frame, driven rocker subassembly rotationally sets up in the frame, and with initiative rocker subassembly is parallel, vibration isolation monomer subassembly, its one end sets up regularly on the driven rocker subassembly, vibration isolation monomer subassembly is connected on the initiative rocker subassembly, the quilt the drive of initiative rocker subassembly is swung to the vibration grape vine separates the grape fruit, and actuating mechanism, set up in the frame, be used for the drive initiative rocker subassembly rotates.The one end of vibration isolation monomer subassembly sets up regularly on driven rocker subassembly, simultaneously still with initiative rocker subassembly is connected, realizes 2 supports, reduces the vibration of during operation, improves the grape harvesting machine reliability.

Inventors

LI CHENGSONG
WANG ZHE
JIANG YINGLAN
QINGMIN,KAN MENG
WANG LIHONG
ZHU XINGLIANG
ZHANG YAOU
YANG LANTAO

Latest standardized assignees - inventors removed

SHIHEZI UNIVERSITY

Family 595/667 - FAMPAT - ©Questel

Title

(WO201619558)

Combined machine for harvesting stubbles and preparing soil

Images

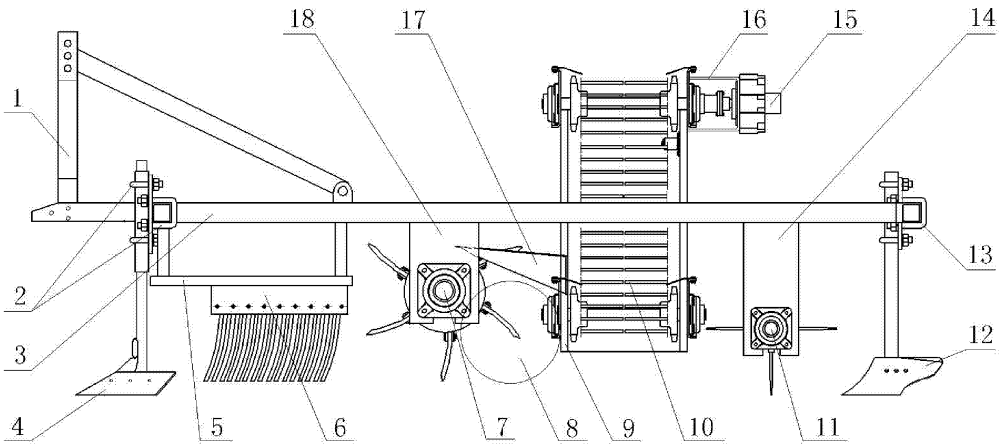


图 1 / Fig. 1

Publication data including kind & date

WO2016019558 A1 2016-02-11 WO201619558

Abstract

(WO201619558)

A combined machine for harvesting stubbles and preparing soil comprises a machine frame (3), a suspension frame (1) and supporting travelling wheels (8).Multiple oblique adjustable digging shovels (4) are disposed on the front end of the machine frame (3) and are used for cutting stubbles of crops.Two bar-type stubble gathering mechanisms (6) are symmetrically disposed at the front part of the machine frame (3), and are used for collecting and pushing the stubbles to a picking and throwing mechanism (7).The picking and throwing mechanism (7) is disposed on the machine frame (3), and is used for picking up and throwing the stubbles into a chain conveying mechanism (10).The chain conveying mechanism (10) is obliquely fixed on the machine frame (3), and is used for conveying the stubbles of the crops to entruck the stubbles.A rotary tillage mechanism (11) is located at the back of the chain conveying mechanism (10), and is used for carrying out rotary tillage on the field.Multiple furrow openers (12) are all disposed on a rear cross beam of the machine frame (3).The combined machine has the advantages: the combined machine integrates functions of digging, picking up, conveying and entrucking stubbles as well as rotary tillage and ridging in one machine, can dig, collect, pick up, convey

and entrucking stubbles of corn, sorghum and other crops, and can ensure that biomass resources of the crops are fully utilized, and at the same time, can implement the work of plowing and ditching; the combined machine has a compact structure, provides multiple functions on one machine, and has high efficiency.

Inventors

WANG JUNFA
MA LIUXUAN
YANG HAI
LI YAQIN
LI XIAOXIA
JIAO RENBAO
ZHUANG TENGFEI

Latest standardized assignees - inventors removed

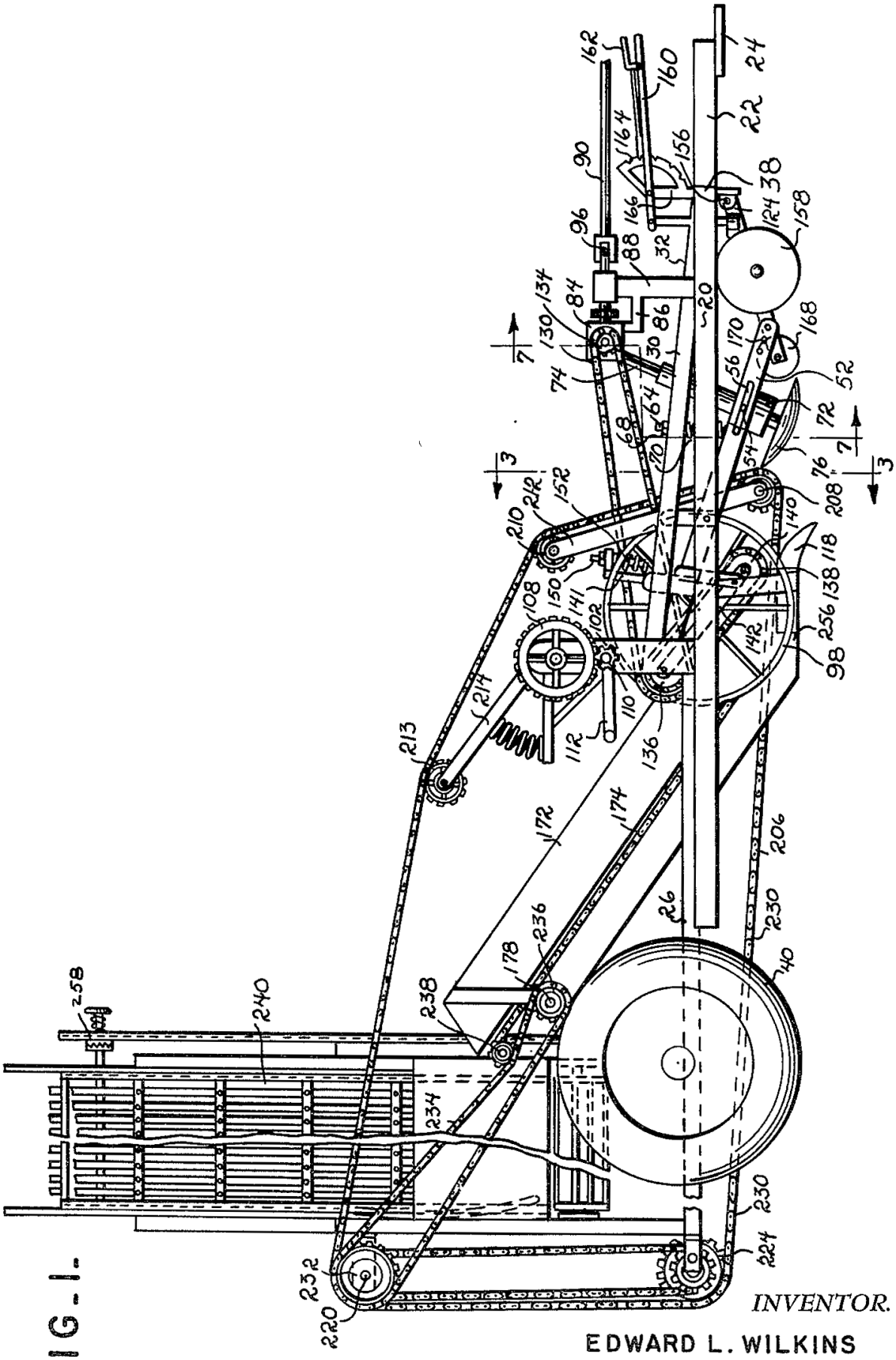
JIAMUSI UNIVESITY

Family 596/667 - FAMPAT - ©Questel

Title

(US2539881)
Topping means for beet harvesters

Images



Publication data including kind & date

US2539881 A 1951-01-30 US2539881

Inventors

WILKINS EDWARD L

Family 597/667 - FAMPAT - ©Questel

Title

(DE202013001236)

Parent corn plant in narrow track vehicle for harvesting maize plant host gate

Publication data including kind & date

DE202013001236 U1 2013-06-20 DE202013001236

Abstract

(DE202013001236)

The narrow track vehicle for harvesting male parent corn plant pathways corn plant, comprising the following components: a. a crawler track drive extending along the longitudinal axis of the low gauge, a conveyor mechanism for cutting off the front of the vehicle body, and crushing the plant including, c. a forward portion disposed along the back of the chopping device, rearward tilting tapering hopper, chaff and chaff hopper to transfer conveyor of the chopped plant of a frame of the chaff hopper and e in the track is disposed on at least one baffle to prevent or at least reduce vehicle is brought into contact with the other components of the crawler marginal between parent corn plant.

Latest standardized assignees - inventors removed

AGENTUR FUER NACHHALTIGE NUTZUNG VON AGRARLANDSCHAFTEN ANNA PARTNERSCHAFT MIT DEN GESELLSCHAFTERN

AVIDOR VALAIS

BADENOVA

BRUCKER RALF

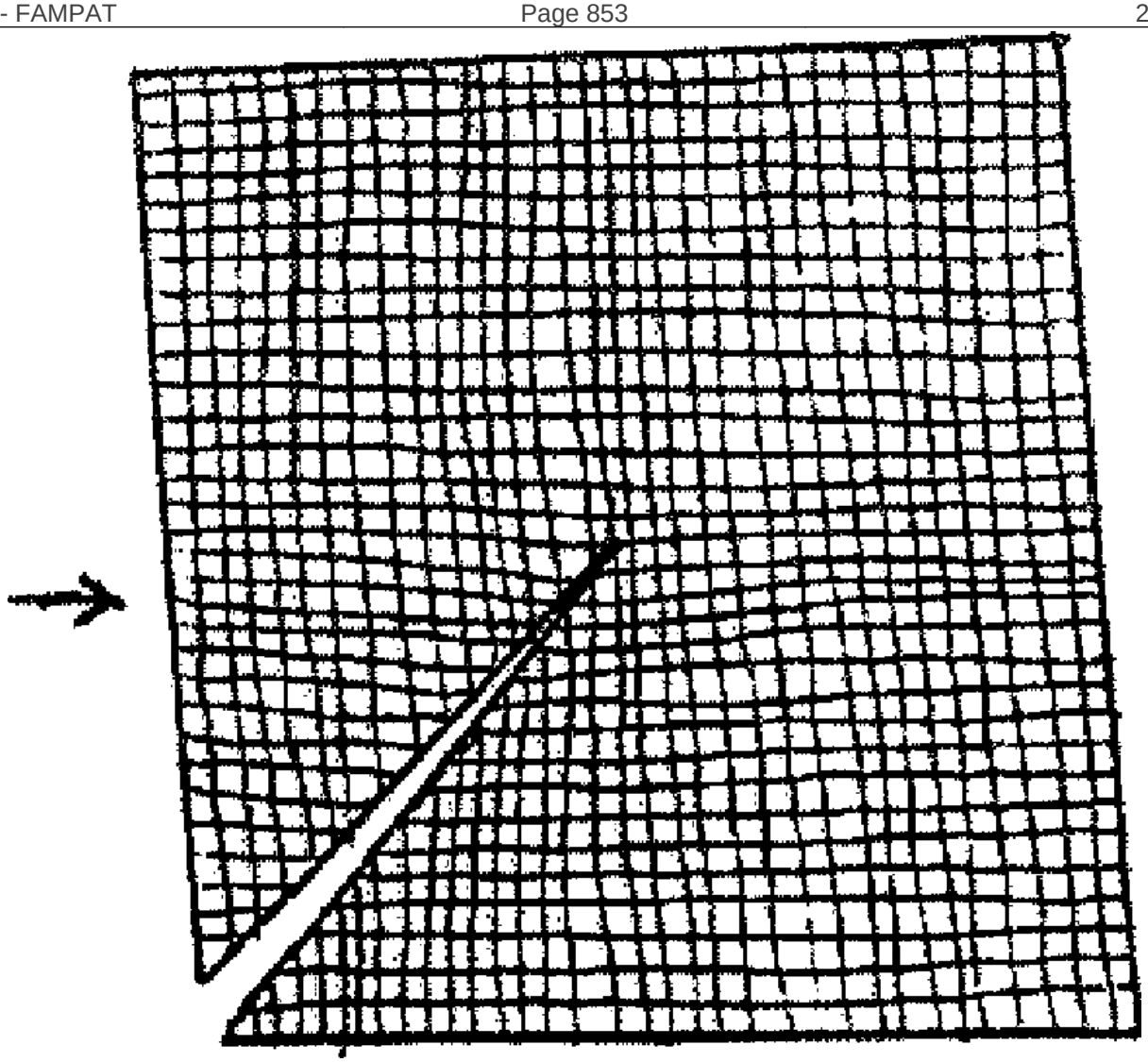
Family 598/667 - FAMPAT - ©Questel

Title

(DE202011107895)

System for harvesting fruit and shaking case

Images



Publication data including kind & date

DE202011107895 U1 2012-02-16 DE202011107895

Abstract

(DE202011107895)

The network for collecting and shaking fruit comprises the case, that an edge, and a center side is, cut to the center line has [1].

Latest standardized assignees - inventors removed

GRUBER MICHAEL

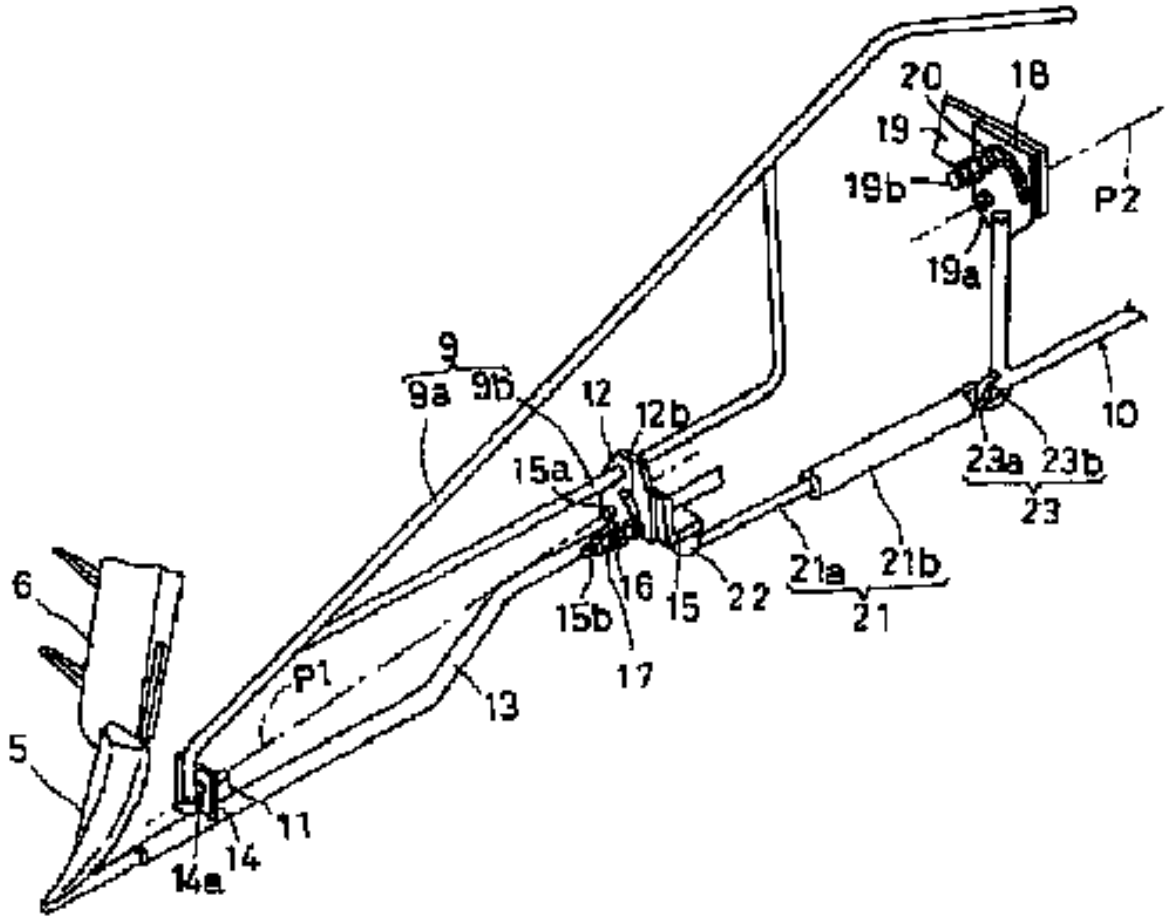
Family 599/667 - FAMPAT - ©Questel

Title

(JP10117558)

Grass dividing structure for combine

Images



Publication data including kind & date

JPH10117558	A	1998-05-12	JP10117558
JP3418071	B2	2003-06-16	JP3418071

Abstract

(JP3418071)

PROBLEM TO BE SOLVED: To perform an excellent grass dividing operation regardless of the degree of the entanglement, height or hardness and softness of grain culms and to excellently transfer a non cutting object grain culm from a front part grass dividing rod to a rear part grass dividing rod in a combine provided with the front part grass dividing rod and the rear part grass dividing rod on the side part of a cutting pre-processor and the side part of a crawler traveling device.SOLUTION: The front part grass dividing rod 9 freely turnable and fixable around a machine body front-to-back

shaft center P1 is provided on the side part of the cutting pre-processor and the rear part grass dividing rod 10 freely retractable and fixable to/from a machine body side outer side is provided on the side part of the crawler traveling device.A freely extendible and contractible intermediate grass dividing rod 21 for preventing the non cutting object grain culm from entering between the terminating end part of the front part grass dividing rod 9 and the starting end part of the rear part grass dividing rod 10 while allowing the relative turning around the machine body front-to-back shaft center P1 of both is disposed over the front part grass dividing rod 9 and the rear part grass dividing rod 10.

Inventors

NAKAMURA KUNISUKE

NAGANO FUMIO

IKEJIMA KATSUO

Latest standardized assignees - inventors removed

KUBOTA

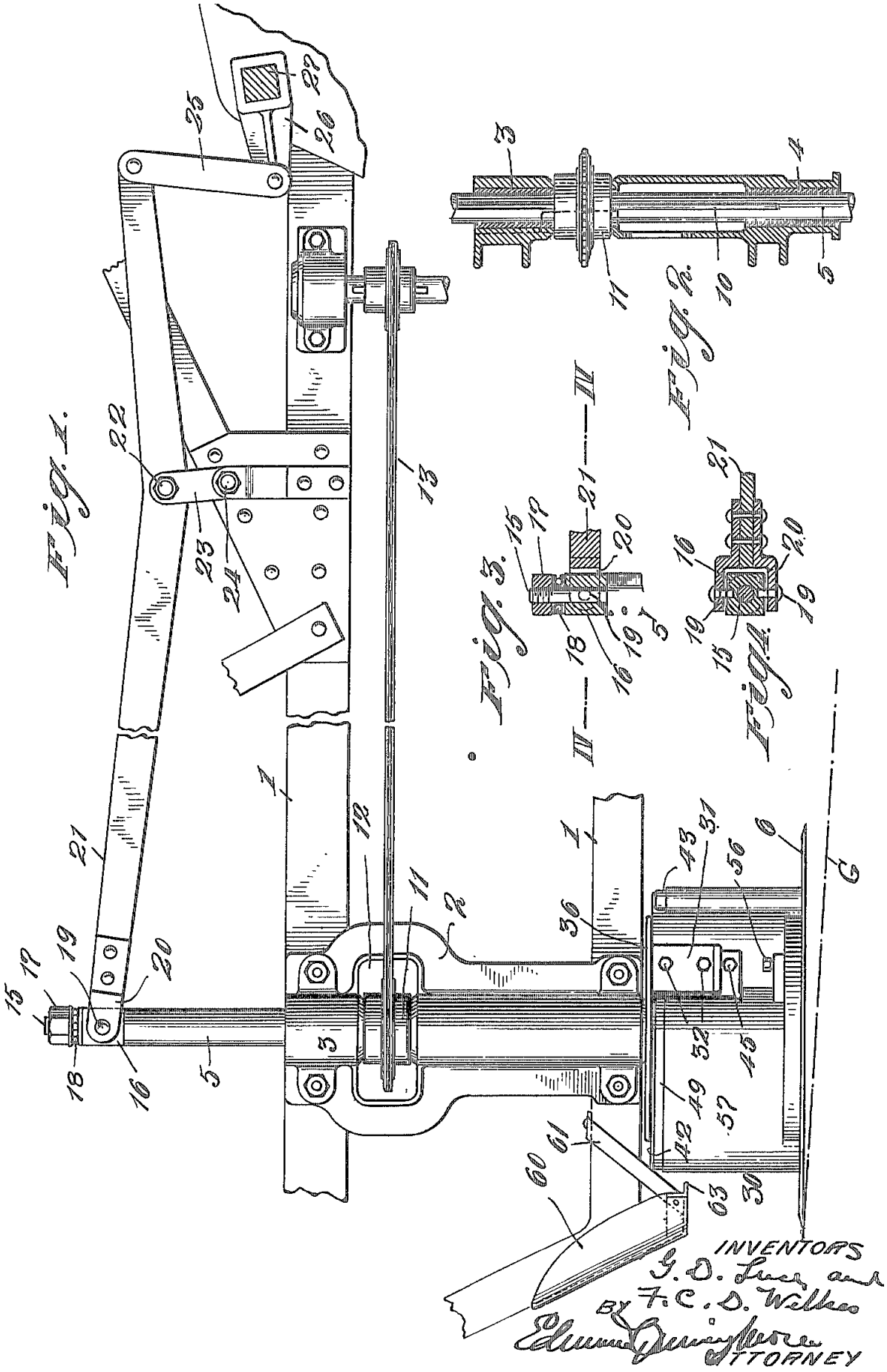
Family 600/667 - FAMPAT - ©Questel

Title

(US1442032)

Bottom-cutting and trash-impelling means

Images



Publication data including kind & date

US1442032 A 1923-01-09 US1442032

Inventors

LUCE GEORGE D

DOUGLAS WILKES FREDERICK C

Latest standardized assignees - inventors removed

LUCE CANE HARVESTER

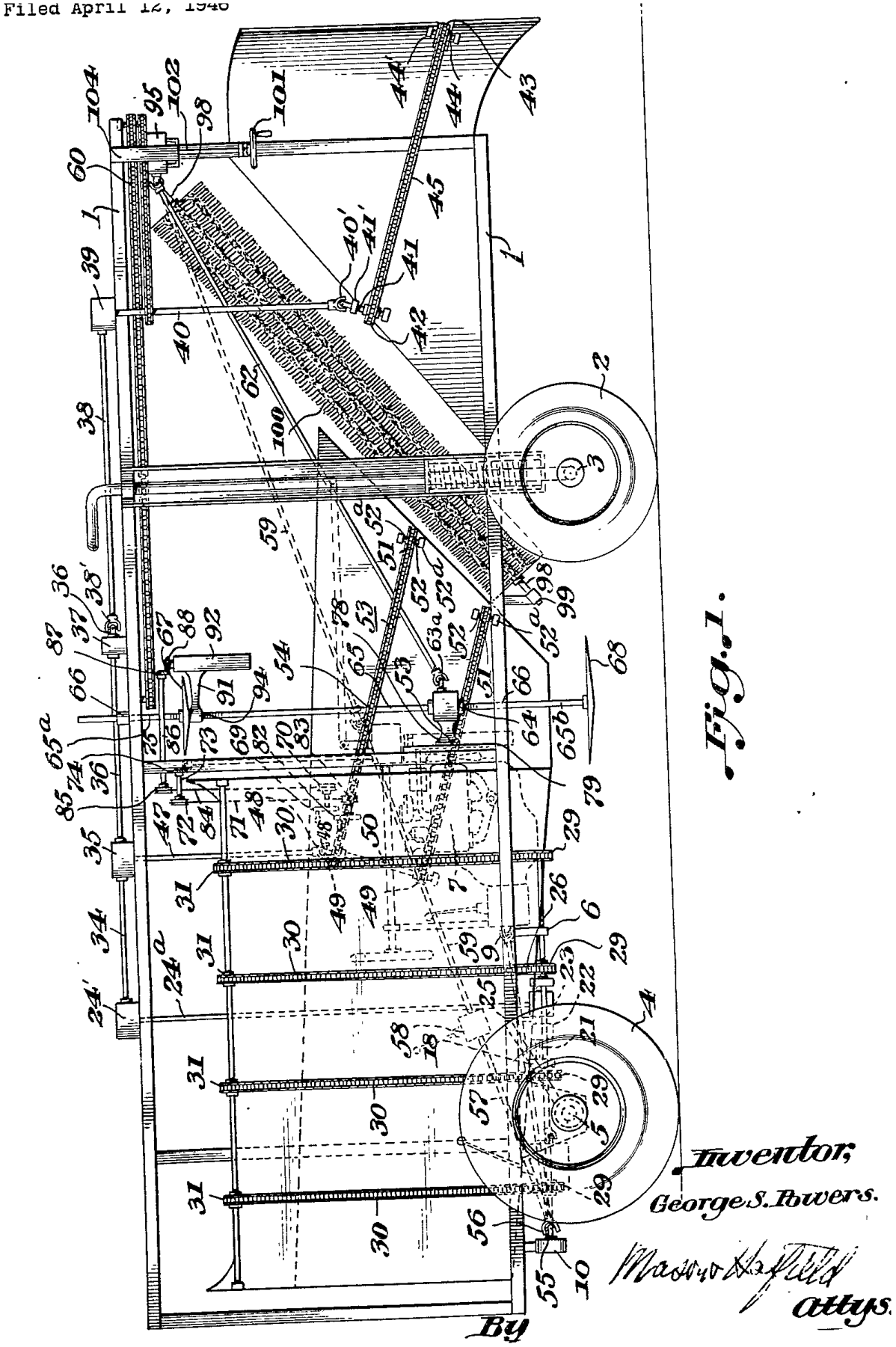
Family 601/667 - FAMPAT - ©Questel

Title

(US2458299)

Cane harvesting machine

Images



Publication data including kind & date

US2458299 A 1949-01-04 US2458299

Inventors

POWERS GEORGE S

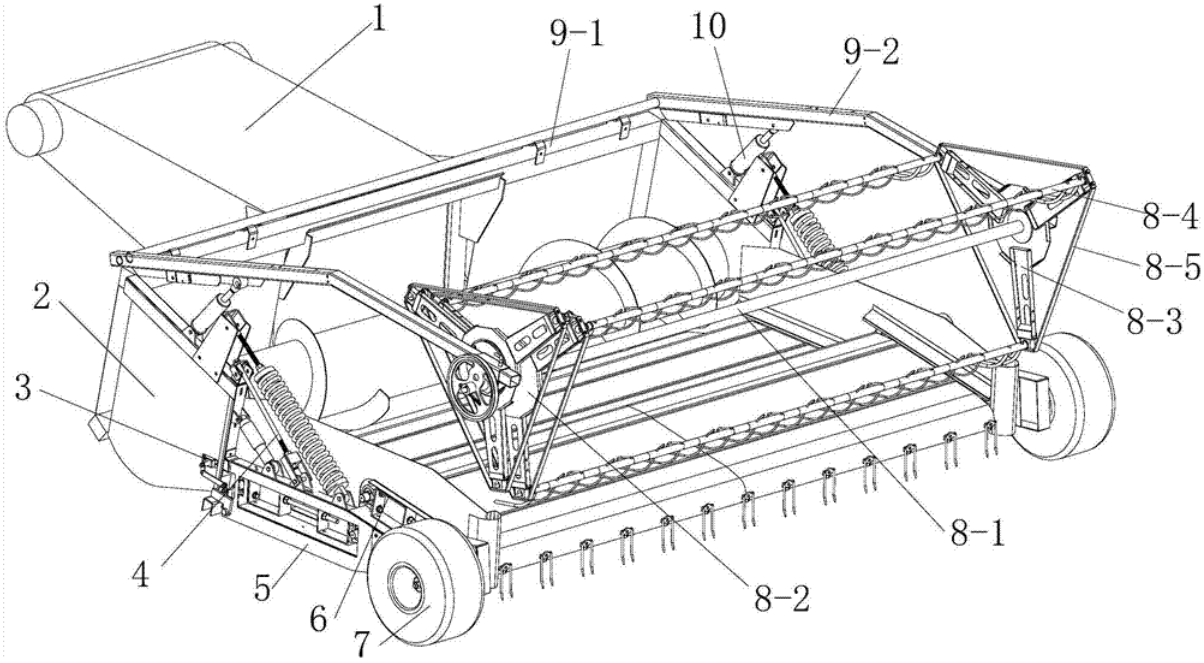
Family 602/667 - FAMPAT - ©Questel

Title

(CN107509468)

Oilseed rape picking-up device

Images



Publication data including kind & date

CN107509468	A	2017-12-26	CN107509468

Abstract

(CN107509468)

The invention relates to an oilseed rape picking-up device.The oilseed rape picking-up device comprises a conveying trough, the inlet of the conveying trough is connected with an auger volute, a transverse conveying auger is installed in the auger volute, an angle sensor system is arranged on the auger volute, a rack is arranged at the inlet of the auger volute, a two-segment pickup is arranged on the rack and is connected with the auger volute through a pickup connecting rotating shaft and a profiling system, land wheels are arranged at the front end of the rack, an auxiliary feeding device is hung on the auger volute through a hanging device and is located above the toothed belt segment of the two-segment pickup, and a hydraulic cylinder is hinged to the hanging device.The oilseed rape picking-up device has the advantages of being ingenuous in concept and reasonable in design; by adopting the two-segment pickup, the problem that a single-segment pickup can not meet the picking-up requirement is effectively solved; meanwhile, by adopting the automatic profiling system, the picking-up angle of the pickup can be controlled to be within a certain required range according to the change of terrain.

Inventors

JIANG TAO
LIANG SUNING
WU CHONGYOU
YONGSHENG,XIAO CHEN
WANG GANG
GUAN ZHUOHUAI
JIN MEI

Latest standardized assignees - inventors removed

NANJING RESEARCH INSTITUTE OF AGRICULTURAL MECHANIZATION MINISTRY OF AGRICULTURE OF THE PEOPLE S REPUBLIC OF CHINA

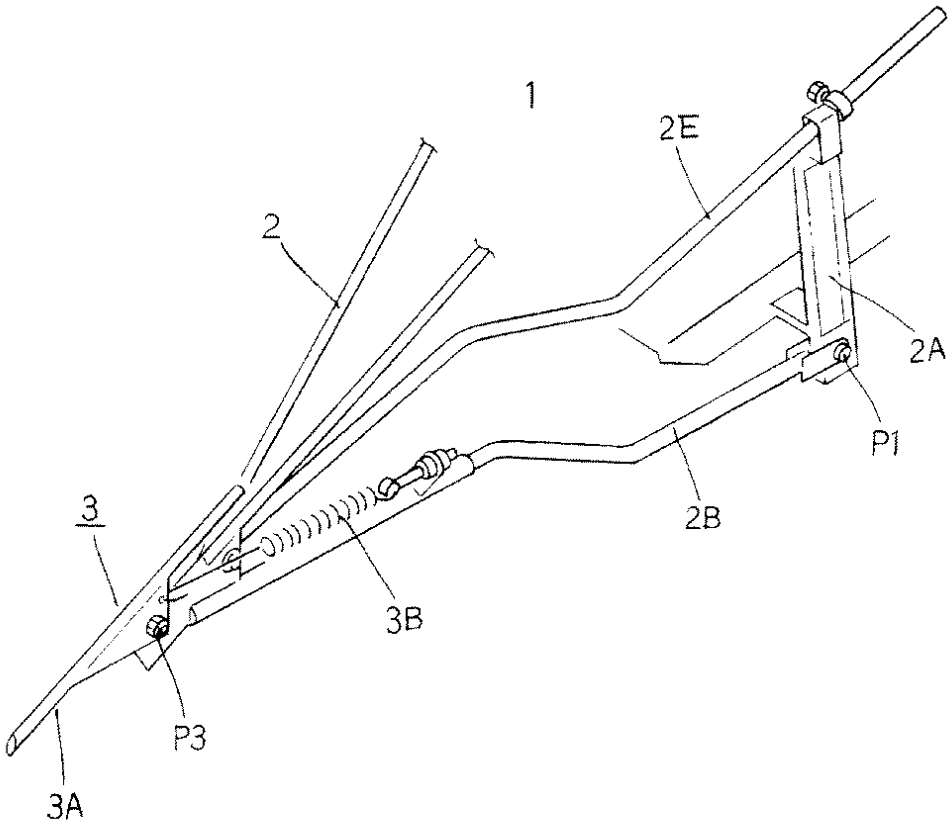
Family 603/667 - FAMPAT - ©Questel

Title

(JP2002253030)

Safeguard of grass-separating rod in reaper of planted stem and calm crop

Images



Publication data including kind & date

JP2002253030	A	2002-09-10	JP2002253030
JP3683819	B2	2005-08-17	JP3683819

Abstract

(JP3683819)

PROBLEM TO BE SOLVED: To solve the problem that a grass-separating rod does not follow the upper and lower movement and sticks into the ground at the position having many unevenness in a field but the grass-separating rod is freely turnable in the upper and lower direction, although conventionally the grass-separating rod becoming a grounding body is attached to a reaper corresponding to each ridge of vertical stems and culms so as to be freely turning upper and lower.SOLUTION: This safeguard of the grass-separating rod has a spinning bar attached to the tip of the grass-separating rod through a fulcrum and grounding just on the surface of the ground in normal times, and constantly directed in the front direction by an extension coil spring, and is constituted so that when the tip part of the grass-separating rod is just stuck into the ground, the spinning bar may be reversed and fixed to form a dog-leg shape.

Inventors

TOUZAKI KENICHI

Latest standardized assignees - inventors removed

HOKKAI NOKI

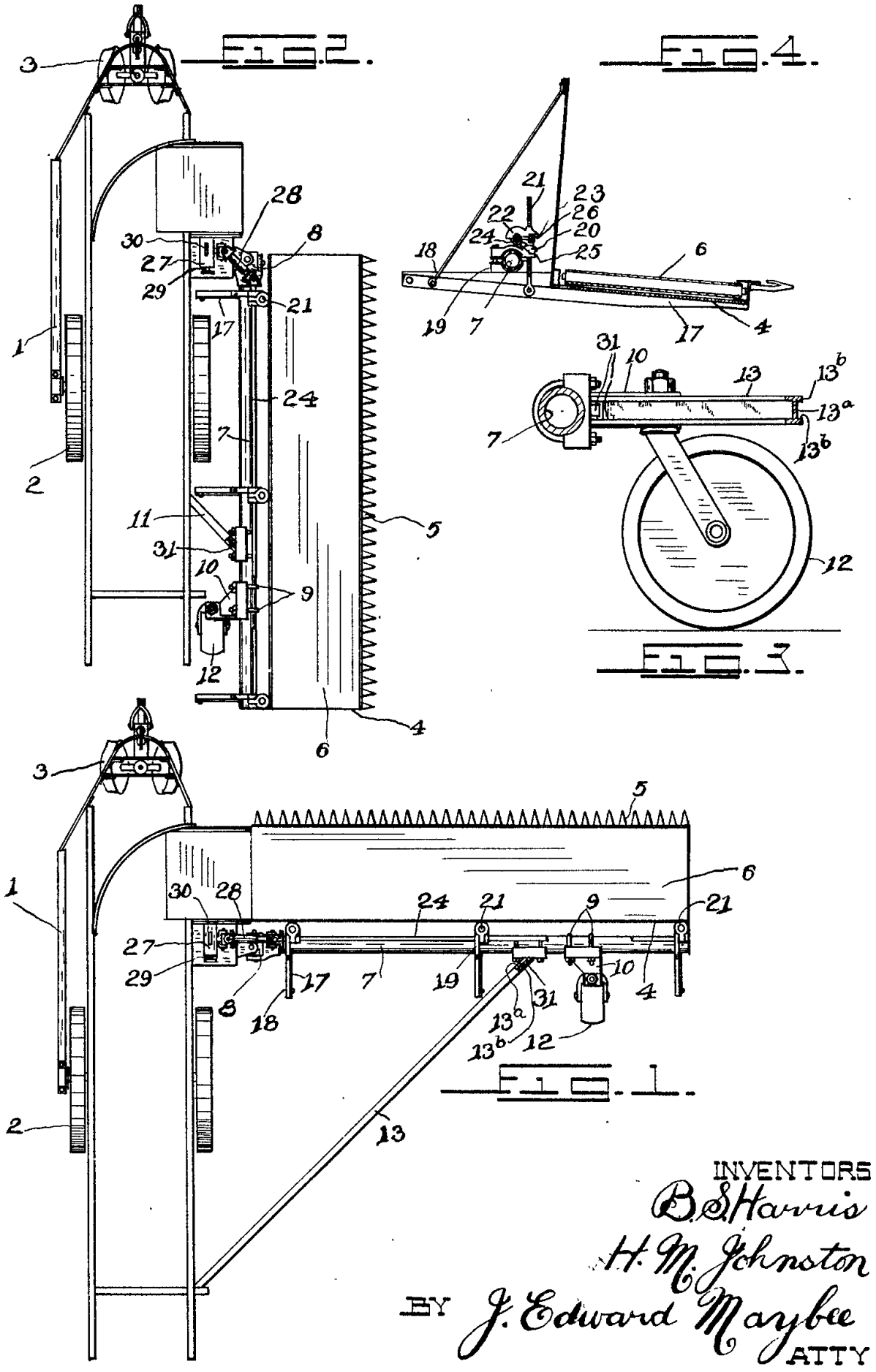
Family 604/667 - FAMPAT - ©Questel

Title

(US1761265)

Reaper thrasher

Images



Publication data including kind & date

US1761265 A 1930-06-03 US1761265

Inventors

HARRIS BURTON S

JOHNSTON HOWARD M

Latest standardized assignees - inventors removed

MASSEY HARRIS

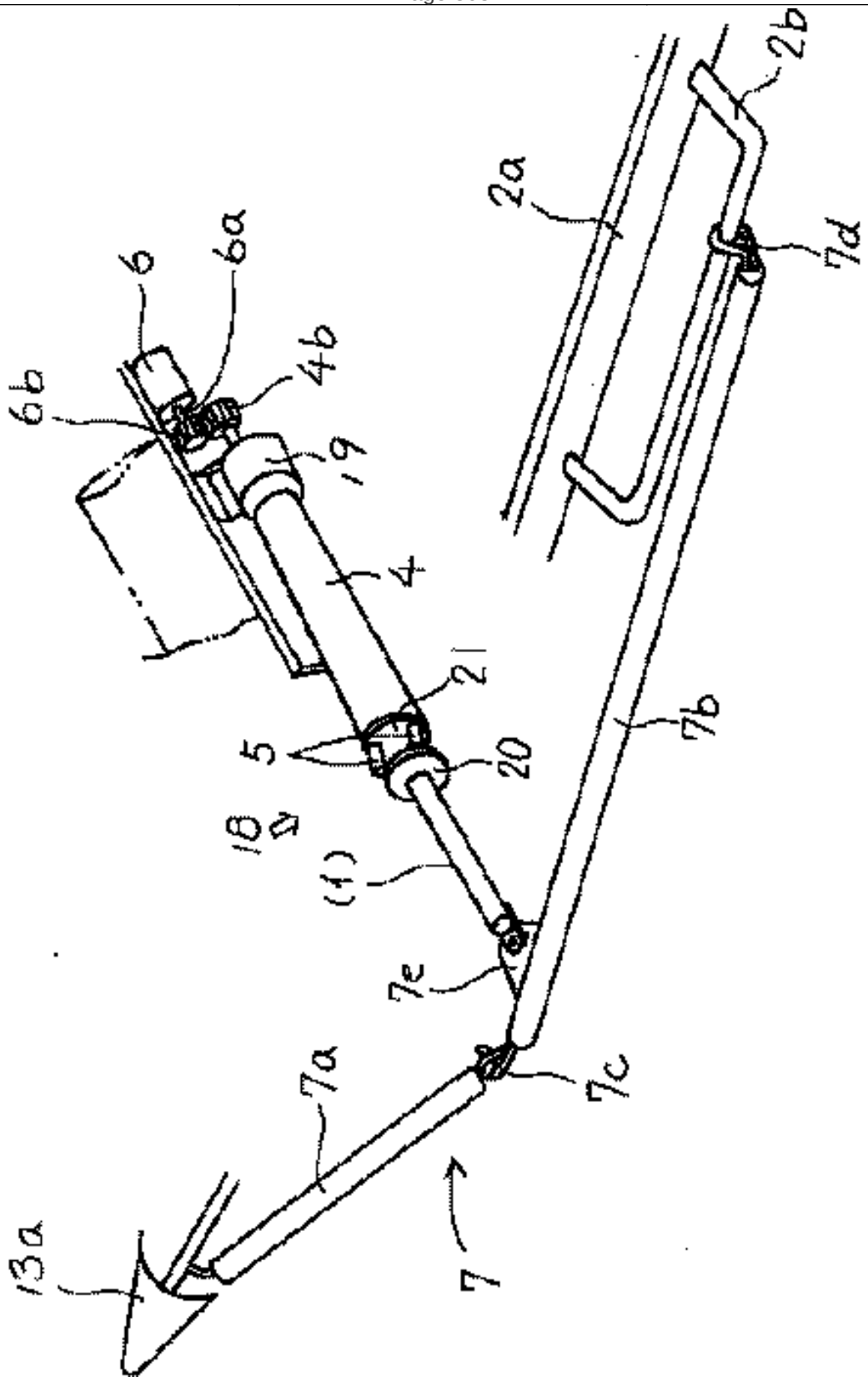
Family 605/667 - FAMPAT - ©Questel

Title

(JP2003125632)

Culm-separating unit of combine, etc.

Images



Publication data including kind & date

JP2003125632 A 2003-05-07 JP2003125632

Abstract

(JP2003125632)

PROBLEM TO BE SOLVED: To provide an automatic adjustment of a narrow guide for solving problems such that since the protruding amount of the narrow guide for protruding to the outside of the machine is adjusted by stopping a combine once in accordance with the falling state of the culms, but since even in one field, the unevenness of the falling state is high, the number of adjustments becomes many and it takes labor and a long time for the adjustments.SOLUTION: This culm-separating unit is constituted by installing multiple rollers 5 making a contact with an outer circumferential part of an inner shaft 3 for moving and compressing a rotary driving cylinder 4 installed with the inner shaft 3 for moving, rotationally

driving the rotary driving cylinder 4 with a motor 6 for the narrow-guide, installing the inner shaft 3 as freely movable by rotationally driving the rotary driving cylinder 4 through each of the rollers, and also installing a motor switch for the ON-OFF operation of the motor 6 for the narrow guide in the vicinity of an operating seat.At the one side of the end part of the inner shaft 3 for moving, e.g. a narrow guide 7 for separating growing culms is installed for automatically adjusting the protruding amount of the narrow guide 7 to the outside of the machine in accordance with the falling state of the culms.

Inventors

MIZUMOTO TAKESHI
KIKUZAWA HIROMASA
SUZUKI KOJI
SAKAI AKIRA

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

Family 606/667 - FAMPAT - ©Questel

Title

(SU-801782)
Vegetable harvesting machine

Publication data including kind & date

SU801782	A1	1981-02-07	SU-801782

Inventors

SHERSTNEV ANATOLIJ
ZEMLYANOV LEONID S
KRUTKOV ANATOLIJ F
ORLOV VIKTOR A
GORODKOV VASILIJ P

Latest standardized assignees - inventors removed

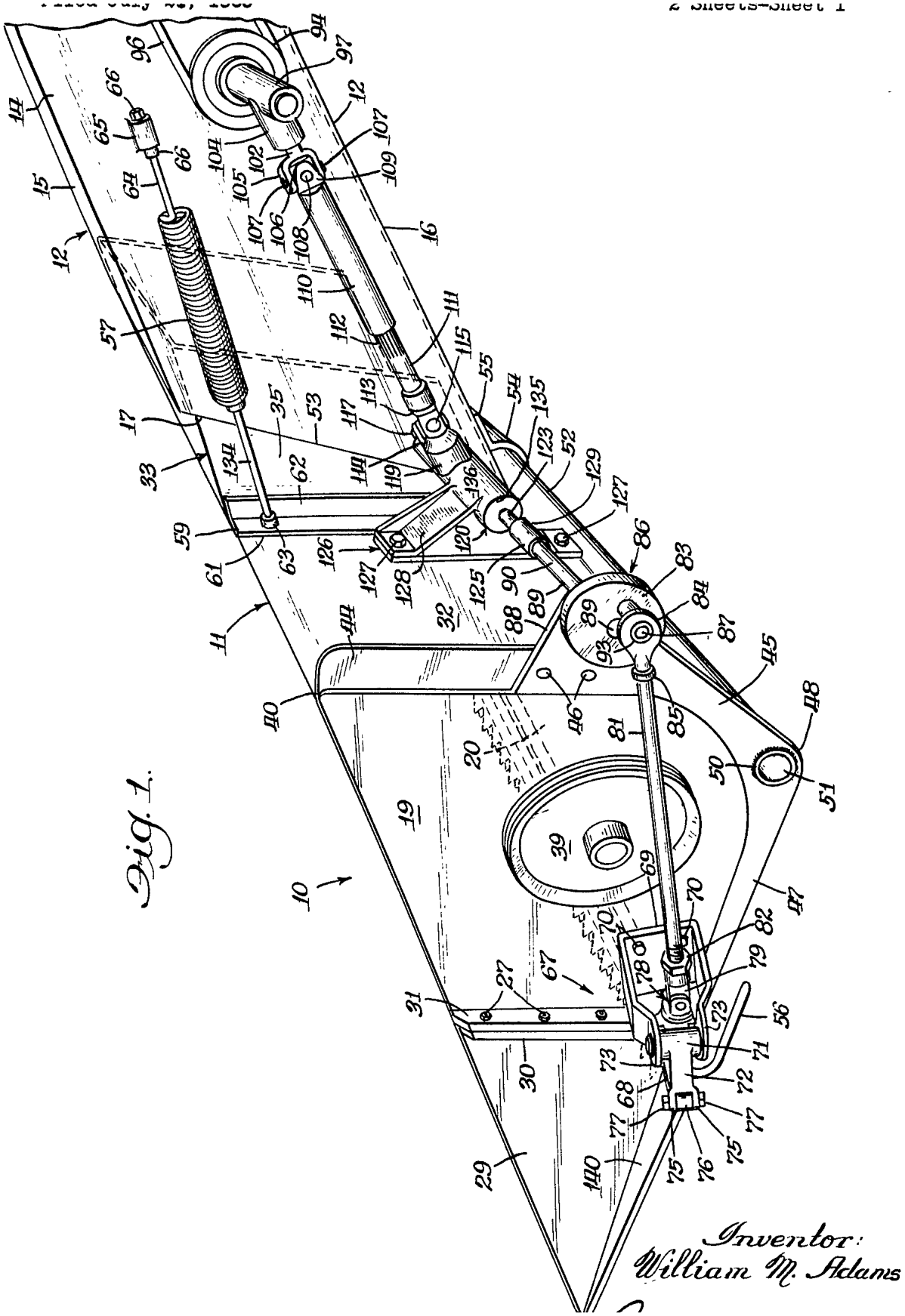
GOL SP MASHINAM DLYA OVOSH

Family 607/667 - FAMPAT - ©Questel

Title

(US3535859)
Header construction for combines and the like

Images



Publication data including kind & date

US3535859 A 1970-10-27 US3535859

Inventors

ADAMS WILLIAM M

Latest standardized assignees - inventors removed

CNH GLOBAL

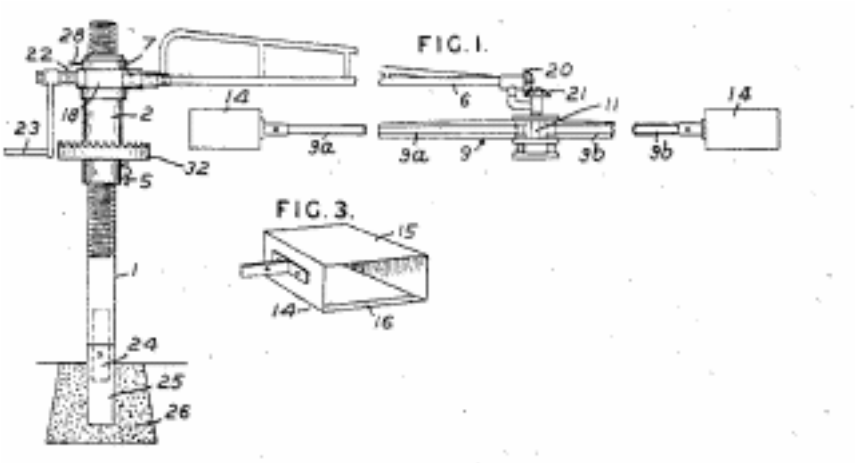
Family 608/667 - FAMPAT - ©Questel

Title

(GB-724997)

Cropping and pruning machine

Images



Publication data including kind & date

GB724997 A 1955-03-02 GB-724997

Abstract

(GB-724997)

724,997. Harvesting tea.GLEED, H.E.March 3, 1953 [March 7, 1952], No. 5862/53.Classes 6 (2) and 6 (3).A harvesting machine for use in tea-plantations comprises, a post 1 mountable upright on the ground and an arm 6 rotatable about the post and carrying harvesting or pruning tools.As shown, the post carries a spigot 24 at its lower end insertable into any one of a series of sockets 25 mounted in concrete blocks 26 at intervals around the plantation.On the post a sleeve 2 is slidable vertically and is fixed by a pin 5.The arm 6 is mounted on a bearing 7 slidable up and down the sleeve 2 and located by a pin 28.The arm 6 is hollow and accommodates a shaft passing through a bearing 18 and terminating in a worm 22 and handle 23.The opposite end of the shaft carries a bevel-gear 20 which engages a bevel-gear 21 on a shaft 11 rotatable on the arm 6 and carrying a sub-frame 9.The sub-frame comprises equal arms 9a, 9b carrying harvesting tools 14 (Fig. 3).Rotation of the handle 23 rotates the arms and the spindle 11, but by lowering the bearing 7 on the sleeve 2 until the worm 22 engages a worm-wheel 32, the arm 6 is also rotated.The tools 14 each comprise an open box 15 having a blade 16 at its forward lower edge.The box may be slotted longitudinally to allow it to be swept by a fixed wiper plate during rotation, the wiper being mounted on the arm. 6 so as to sweep the cut crop into a receptacle adjacent to the post 1.The boxes are detachable and replaceable by other cutting tools.In a modification, using driven tools, the arms 9a, 9b, which are non- rotary and tubular, house shafts by which the drive is transmitted to the tools at their ends, these shafts being driven by the gearing 20, 21.The arm 6 and the tools may also be driven by a motor (not shown).In a further modification, the sub-frame extends asymmetrically from the outer end of the arm and a stop is provided, so that when the arm is arrested the sub-frame swings in an arc about the end of the arm.For transport, the arms 9a, 9b may be folded together and the arm 6 may be detached from the post.The post may be mounted on a portable frame or may have a spike for insertion directly into the soil.

Latest standardized assignees - inventors removed

HAROLD EDGAR GLEED

Family 609/667 - FAMPAT - ©Questel

Title

(US2610560)

Hitch for implements and vehicles

Images

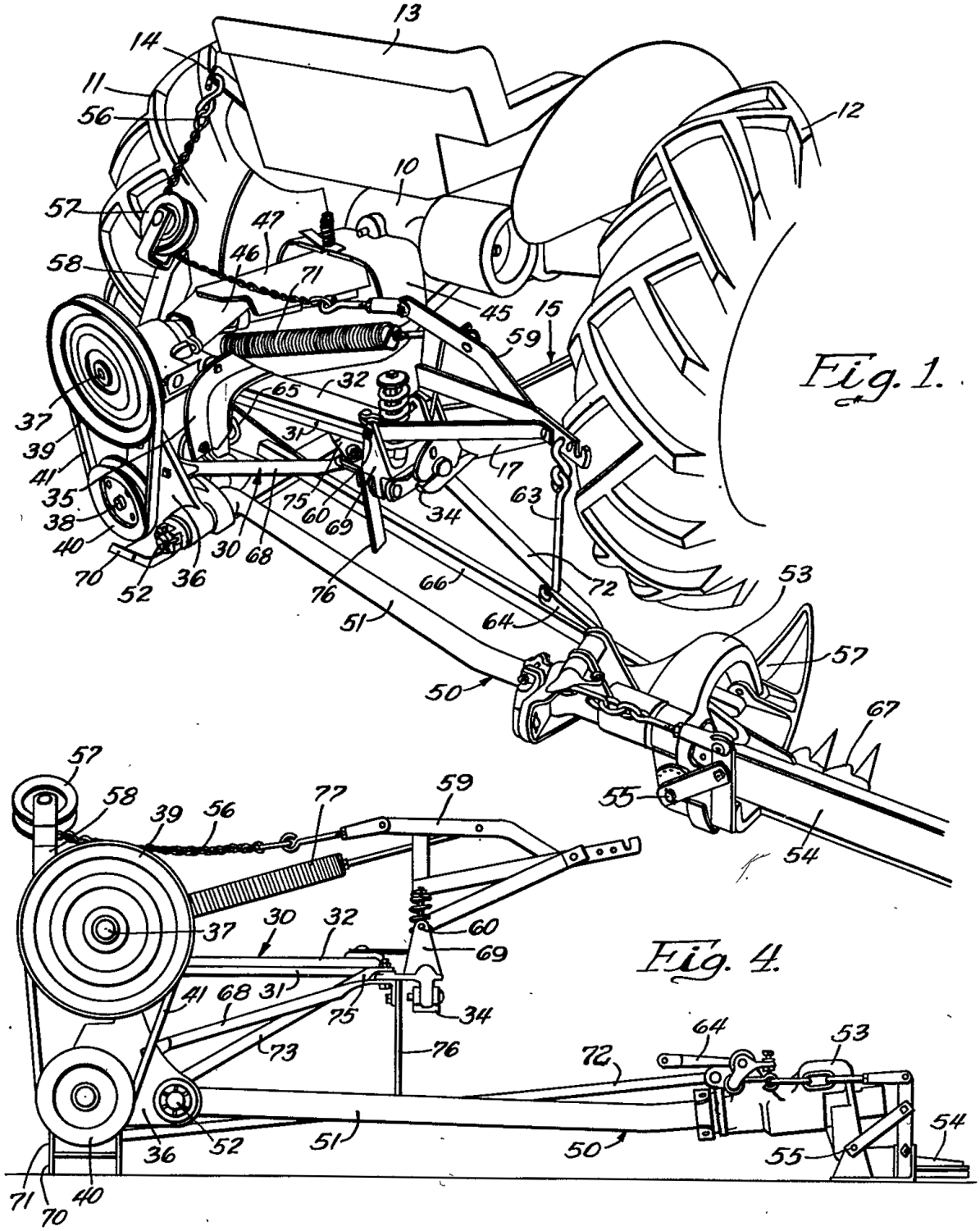


Fig. 1.

Fig. 4.

Inventors:
Wilbur J. Coultas,
Nolan D. Colvin,
William B. Palmer
By C. R. Parker and [signature]
Attys.

Publication data including kind & date

US2610560	A	1952-09-16	US2610560

Inventors

COULTAS WILBUR J

COLVIN NOLAN D

PALMER WILLIAM B

Latest standardized assignees - inventors removed

DEERE

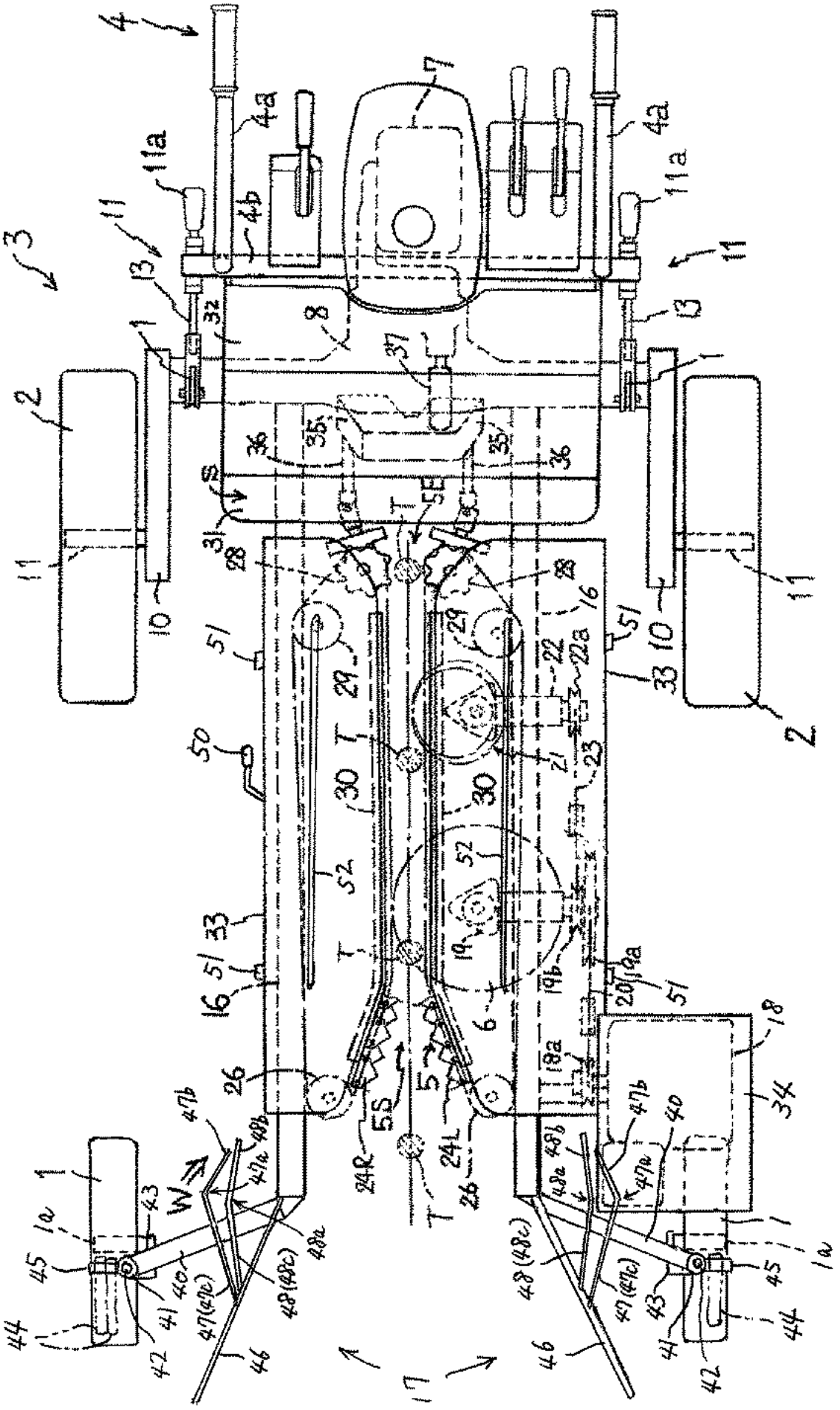
Family 610/667 - FAMPAT - ©Questel

Title

(JP2014036586)

Crop stem mower and plant-dig out machine

Images



Publication data including kind & date

JP2014036586	A	2014-02-27	JP2014036586
CN203482588	U	2014-03-19	CN203482588U

Abstract

(JP2014036586)

PROBLEM TO BE SOLVED: To provide a crop stem mower in which transportation of crops is not obstructed and balance weights are placed in rational positions where the longitudinal weight balance of a machine body is improved.SOLUTION: A crop stem mower is configured as follows: A traveling machine body is provided with right and left front wheel (1) between which is disposed a transportation passage for transporting crop stems.The transportation passage comprises: a hold-transportation device (5) for hold-transporting the crop stems backward with respect to the machine body; and a cutting device (6) for cutting root sides of the crop stems hold-transported by the hold-transportation device (5).Provided forward of the hold-transportation device (5) are right and left guide bodies (17) for guiding crops of a farm field to the transportation passage.Outside the right and left guide bodies (17), respective right and left balance weights (44) are disposed.

Inventors

TAKAGI SHINGO

Hideaki Kurose

Latest standardized assignees - inventors removed

ISEKI

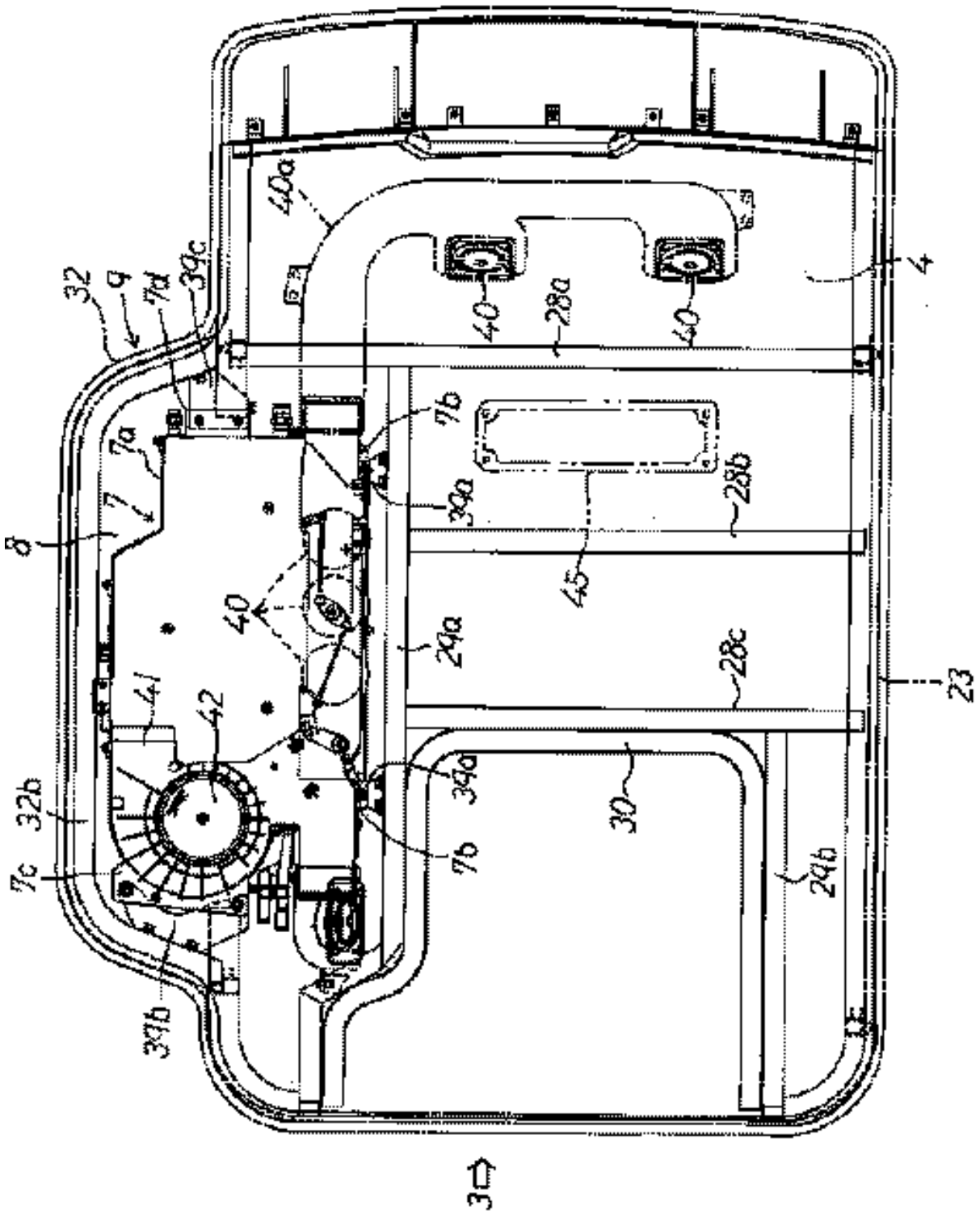
Family 611/667 - FAMPAT - ©Questel

Title

(JP2003158911)

Operation cabin of combine

Images



Publication data including kind & date

JP2003158911 A 2003-06-03 JP2003158911

Abstract

(JP2003158911)

PROBLEM TO BE SOLVED: To solve the problems of conventional air-conditioning system for an operation cabin causing the lowered air-conditioning efficiency and the low effective utilization of the cabin space owing to the long distance from the air-conditioner to the cabin and the necessity to use an air pipe for sending cold air or hot air through the long distance. SOLUTION: A bulged part 9 protruding outward to the left is formed at the left side of a ceiling 8 of a cabin frame 3 to form an operation cabin 4, the bulged part 9 is provided with an air-conditioner 7 to perform the air- conditioning of the cabin 4 and a blower motor 42 and the conditioned air is directly blown into the cabin 4 through a blowing port 40 placed in the

cabin 4.

COPYRIGHT: (C)2003,JPO

Inventors

DOI KAZUNORI

HAGIYAMA TAKESHI

OCHI KOJI

KAJIWARA TAKAYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

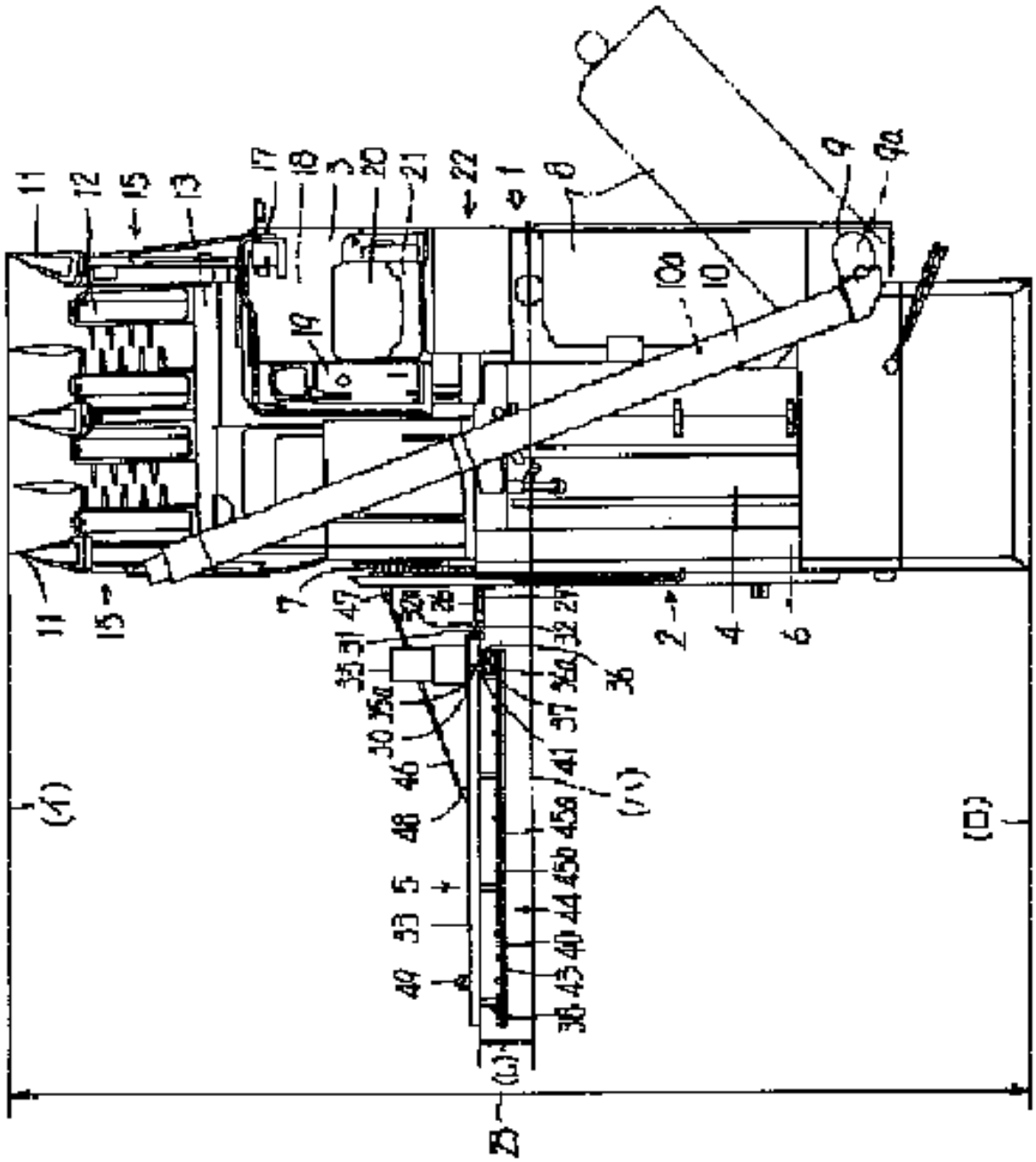
Family 612/667 - FAMPAT - ©Questel

Title

(JP2001045837)

Apparatus for attaching dew shake-off of combine

Images



Publication data including kind & date

JP2001045837 A 2001-02-20 JP2001045837

Abstract

(JP2001045837)

PROBLEM TO BE SOLVED: To solve the problem of the generation of an area failed in performing dew-shaking-off work in the case of gyrating a combine at an end of a working row.SOLUTION: A reaping machine 15 for reaping a standing culm is placed at the front side of a mobile vehicle 3 and a thresher 4 to thresh a reaped culm is placed at the back of the reaping machine 15.A dew shake-off apparatus 15 to remove dew drops from an unreaped standing culm is placed at a side of the thresher 4 at a position displaced forward by a prescribed distance L from the center of a combine body 23 formed between the front end of the reaping machine 15 and the rear end of the thresher 4.

Inventors

TAKEUCHI KENICHIRO

MIZUSHIMA ATSUSHI

TOYODA KAZUO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

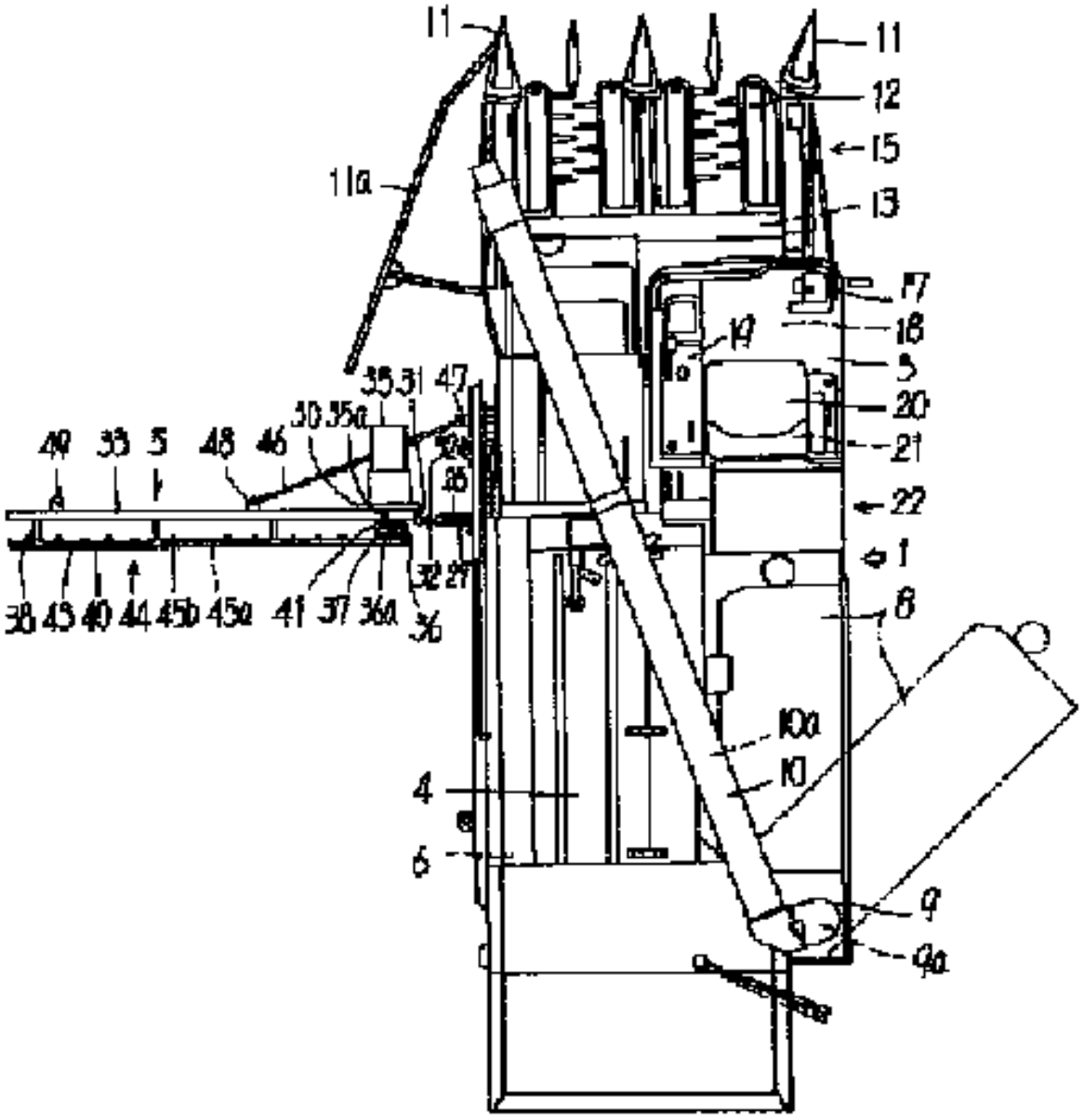
Family 613/667 - FAMPAT - ©Questel

Title

(JP2001045838)

Apparatus for attaching dew shake-off motor of combine

Images



Publication data including kind & date

JP2001045838 A 2001-02-20 JP2001045838

Abstract

(JP2001045838)

PROBLEM TO BE SOLVED: To provide a dew shake-off motor for rotating a removing tool of a dew-wiping apparatus to remove the dew drops of unreaped standing culm and placed at a position free from interference with a side machine wall even in a working state and a housed state by placing the motor at the outside of a side machine wall of a thresher in a state turnable in working state and housed state.SOLUTION: A dew-shake-off motor 35 to rotate a removing tool 44 of a dew wiper 5 for removing dew drops of unreaped standing culm and turnably attached to the outside of the left machine wall 29 of a thresher 4 for threshing reaped culm and placed on a mobile vehicle 3 is placed at a position free from

interference with the left machine wall 29 in working state as well as housed state.

Inventors

TAKEUCHI KENICHIRO

TOYODA KAZUO

YAMAMOTO SHOICHI

ICHIMARU TOMOYUKI

MIZUSHIMA ATSUSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

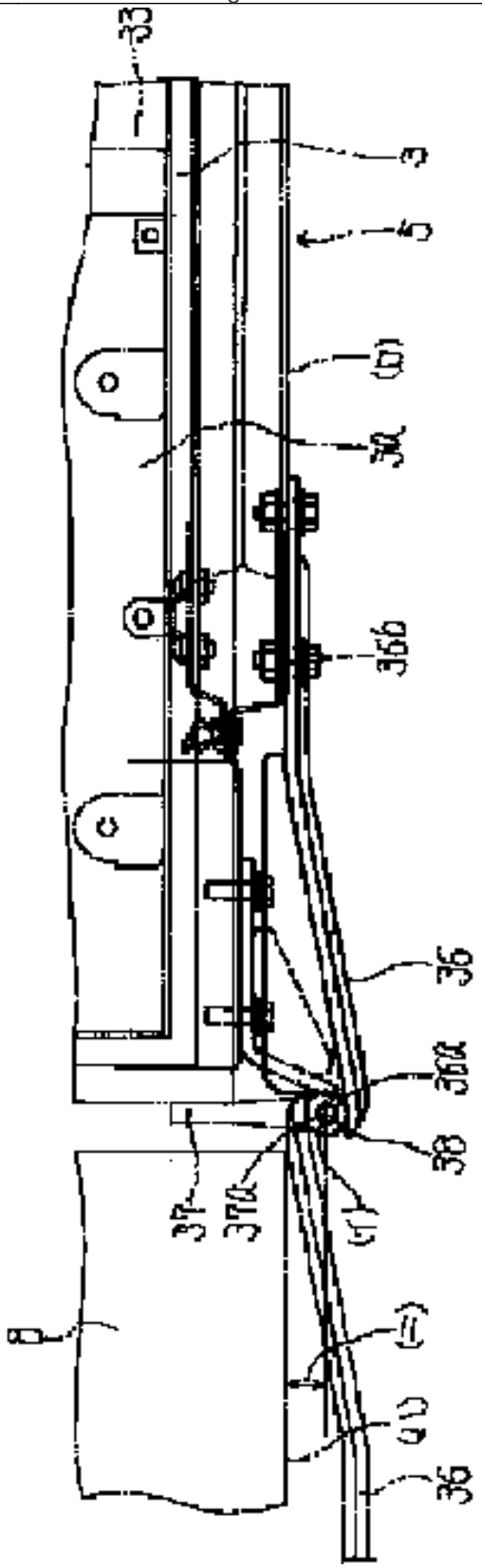
Family 614/667 - FAMPAT - ©Questel

Title

(JP2000043568)

Cabin door fitting device for combine and the like

Images



Publication data including kind & date

JP2000043568 A 2000-02-15 JP2000043568

Abstract

(JP2000043568)

PROBLEM TO BE SOLVED: To provide an easy access of a worker in an operation room formed by a cabin by providing a turning support point position for opening/closing a door which is opened/closed when the worker enters/leaves from the cabin on the outer position of an external surface of a grain storage tank and on an external surface of the door.SOLUTION: A cabin 3 to form an operation room 3a of a combine comprises a box-like main box 33, an openable/closable cabin door 5 provided on an access part when a worker enters, and a plurality of turning metals on upper and lower parts.The turning support point position (a) of the turning metal 36 is located outside by a specified

distance from an external surface (b) of the cabin door 5 and an external surface (c) of a grain storage tank 8.When the cabin door 5 is opened/closed, the external surface (b) of the cabin door 5 is not abutted on the external surface (c) of the grain storage tank 8, and the cabin door 5 is opened by approximately 180 deg. or over.The worker can easily enter the operation room 3a thereby.

Inventors

HAGIYAMA TAKESHI
YOSHINO MASAHIKO
TAKEUCHI KENICHIRO
DOIHARA JUNJI
TAKAHASHI HAKURO
SHIRAKATA MIKIYA
NISHIZAKI HIROSHI

Latest standardized assignees - inventors removed

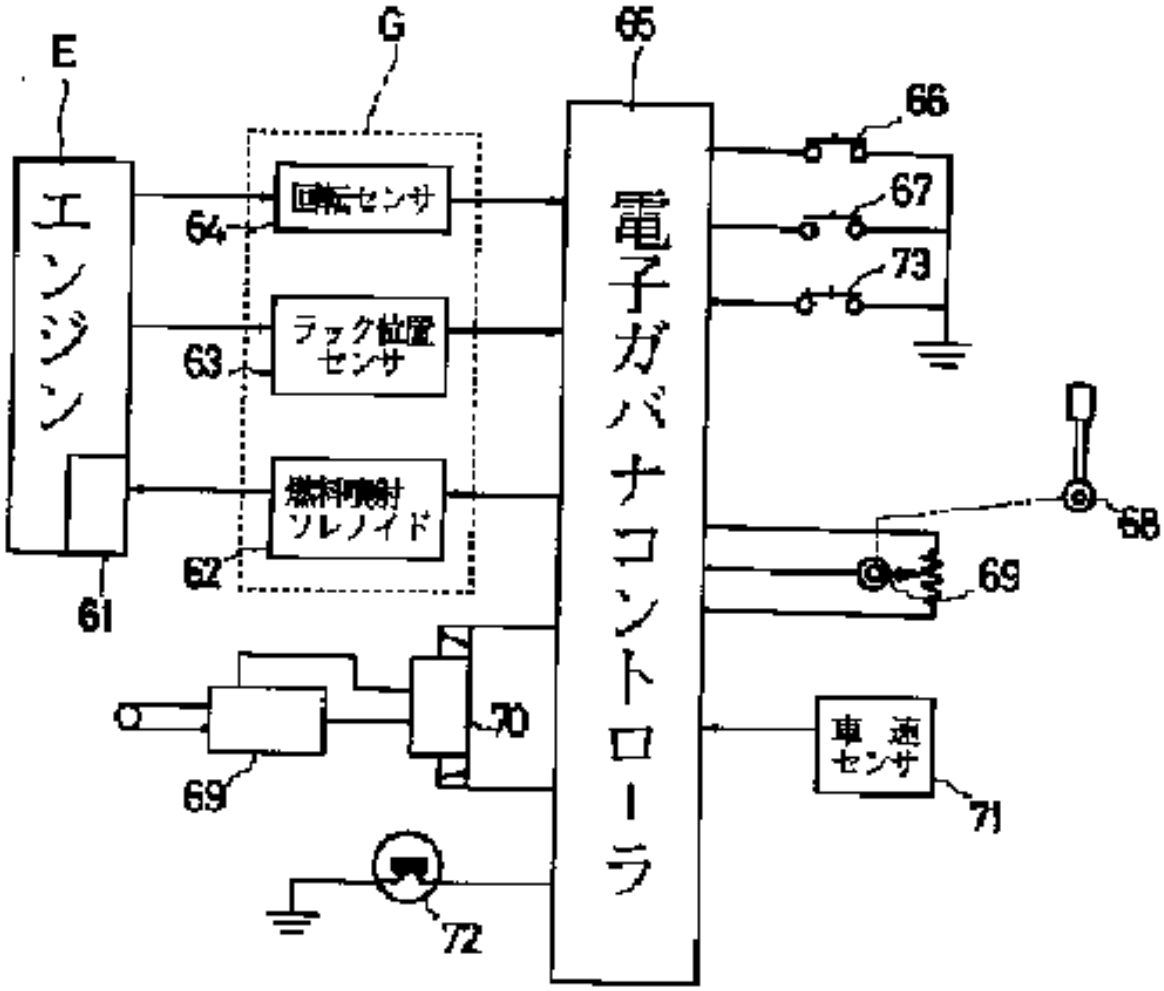
ISEKI AGRICULTURAL MACHINERY

Family 615/667 - FAMPAT - ©Questel

Title

(JP10313658)
Threshing device of combine

Images



Publication data including kind & date

JPH10313658 A 1998-12-02 JP10313658

Abstract

(JP10313658)

PROBLEM TO BE SOLVED: To provide a threshing device of combine for improving the reaping workability without clogging with grain culms by moving a crimp net for cover ing the lower part of a threshing cylinder downwards in the overload state of an engine, and reducing the driving loads of a threshing cylinder.SOLUTION: In the combine mounting the engine E for controlling a fuel jetting amount by an electronic governor G, driving the power part of a traveling part, a reaping part and this threshing device, etc., and performing reaping work, an automatic control state for keeping the output of the engine E to fixed rotation is attained at the time of the reaping work, the overload state that overloads are applied to

the power part and the output of the engine E can not be kept constant is detected, the crimp net for covering the lower part of the threshing cylinder is moved downwards in the overload state and the driving loads of the threshing cylinder are reduced.

Inventors

KAMIKUBO KEITA

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

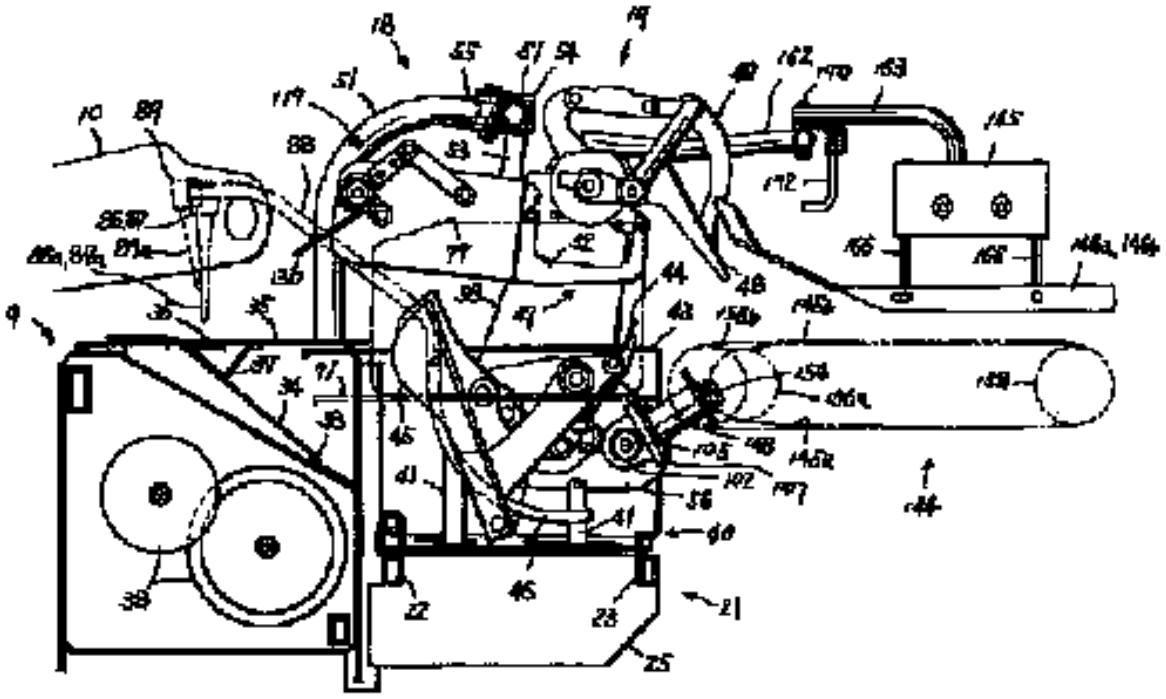
Family 616/667 - FAMPAT - ©Questel

Title

(JP10150836)

Waste straw binding device for combine

Images



Publication data including kind & date

JPH10150836 A 1998-06-09 JP10150836

Abstract

(JP10150836)

PROBLEM TO BE SOLVED: To prevent a binding machine from being swung and moved during binding operation, to maintain the fixed relative position relation of a knotting part and needle of the binding machine and to prevent damage of the knotting shaft due of bending of the binding machine when the clopping of waste straws or the like is generated in a binding part.SOLUTION: In this waste straw binding device for combine in which the binding machine 19 for binding the waste straws carried out from a threshing part is provided freely movably in the culm body direction of the waste straws, a lower front binding frame 22, a lower rear binding frame 23 and an upper binding frame 51 horizontally disposed parallelly

to the culm body direction of the waste straws are provided and the lower part front and rear and upper part of the binding machine 19 are freely slidably connected to the respective binding frames 22, 23 and 51.Also, the connection position of the binding machine 19 to the respective binding frames 22, 23 and 51 is set near the binding part of the binding machine 19.

Inventors

ODA MASAAKI

MIZOBUCHI NORIO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

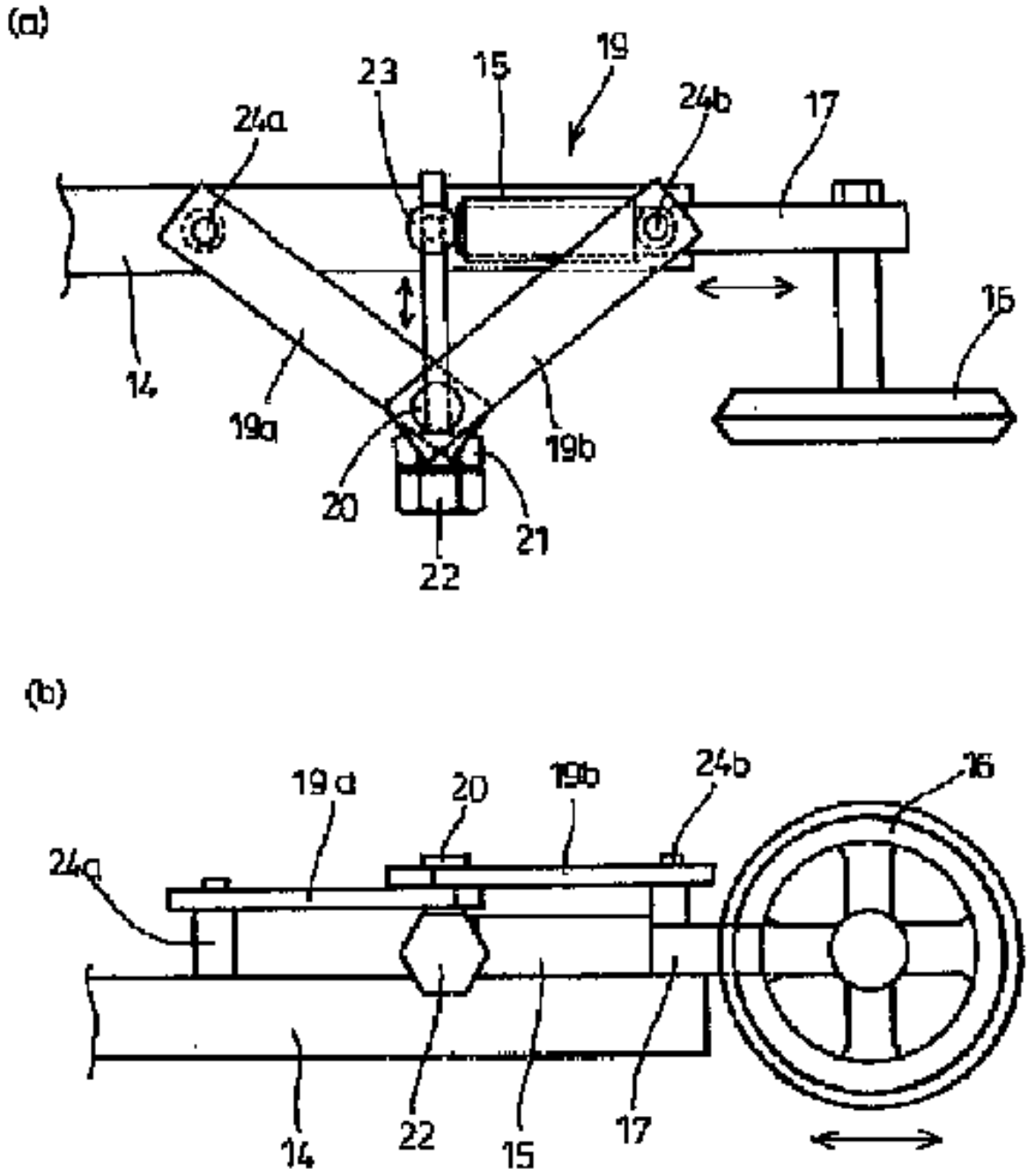
Family 617/667 - FAMPAT - ©Questel

Title

(JP11079018)

Crawler travel device for movable agricultural machine

Images



Publication data including kind & date

JPH1179018 A 1999-03-23 JP11079018

Abstract

(JP11079018)

PROBLEM TO BE SOLVED: To adjust the tension of an elastic crawler on an undercarriage frame and attach or detach the crawler to or from the frame being assembled or dissembled quickly, by varying the axle distance between a driving wheel and an idler wheel easily through expansion or contraction of a toggle joint mechanism coupling the undercarriage frame and a support frame journalling the idler wheel.SOLUTION: A crawler travel device for a movable agricultural machine has an elastic crawler extended round a driving wheel and an idler wheel 16 arranged at the forward and backward ends of an undercarriage frame 14.The undercarriage frame 14 is mounted on its backward end loosely with a

support frame 17 journalling the idler wheel 16.The undercarriage frame 14 and support frame 17 are coupled together by means of a toggle joint mechanism 19 projecting from the body of an associated agricultural machine, the expansion or contraction of which mechanism telescopes the support frame 17.

Inventors

GOTO HIDEO

ISHIBASHI SHINZO

Latest standardized assignees - inventors removed

MITSUBISHI AGRICULTURAL MACHINERY

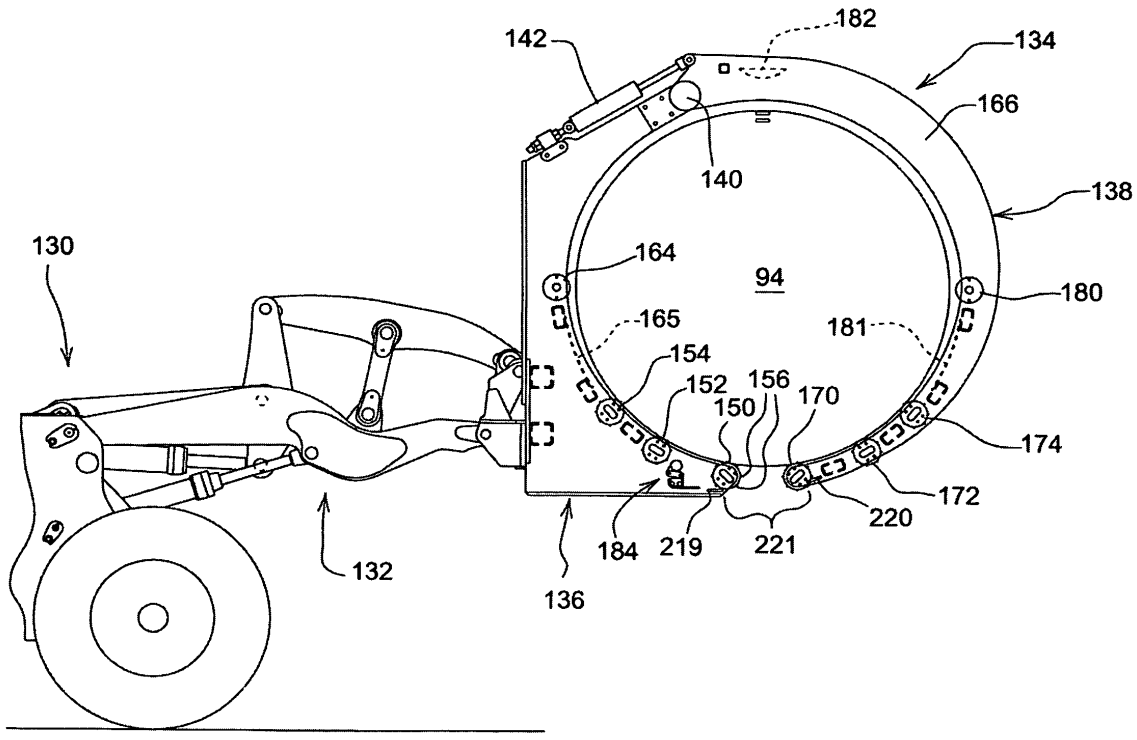
Family 618/667 - FAMPAT - ©Questel

Title

(US7785057)

Grapple attachment for handling wrapped round modules and including a wrap cutter

Images



Publication data including kind & date

BRPI0804340	A1	2009-02-17	BR200804340
US20090108606	A1	2009-04-30	US20090108606
CN101423130	A	2009-05-06	CN101423130
AU2008229665	A1	2009-05-14	AU2008229665
IL194445	A	2009-08-03	IL-194445
BRPI0804340	A2	2010-01-19	BR200804340
US7785057	B2	2010-08-31	US7785057
IL194445	B	2011-11-30	IL-194445
CN101423130	B	2012-11-28	CN101423130B

Abstract

(US7785057)

A grapple attachment is equipped with driven rollers for selectively turning a wrapped round module about its axis so as to position it for having the wrapping slit at the bottom side of the module.When the module is properly located for having the wrapping slit, a powered cutting blade is caused to move into engagement with the wrapping and slit it across the length of

the module.An interlock is provided for preventing operation of the grapple cylinders and driven roller motors unless the cutting blade assembly is located in a standby position wherein it is removed from a zone normally occupied by the round module when the latter is supported by the fixed and moveable grapple sections of the grapple attachment.

Inventors

NOONAN JAMES THOMAS

ERVIN JACOB EDWARD

Latest standardized assignees - inventors removed

DEERE

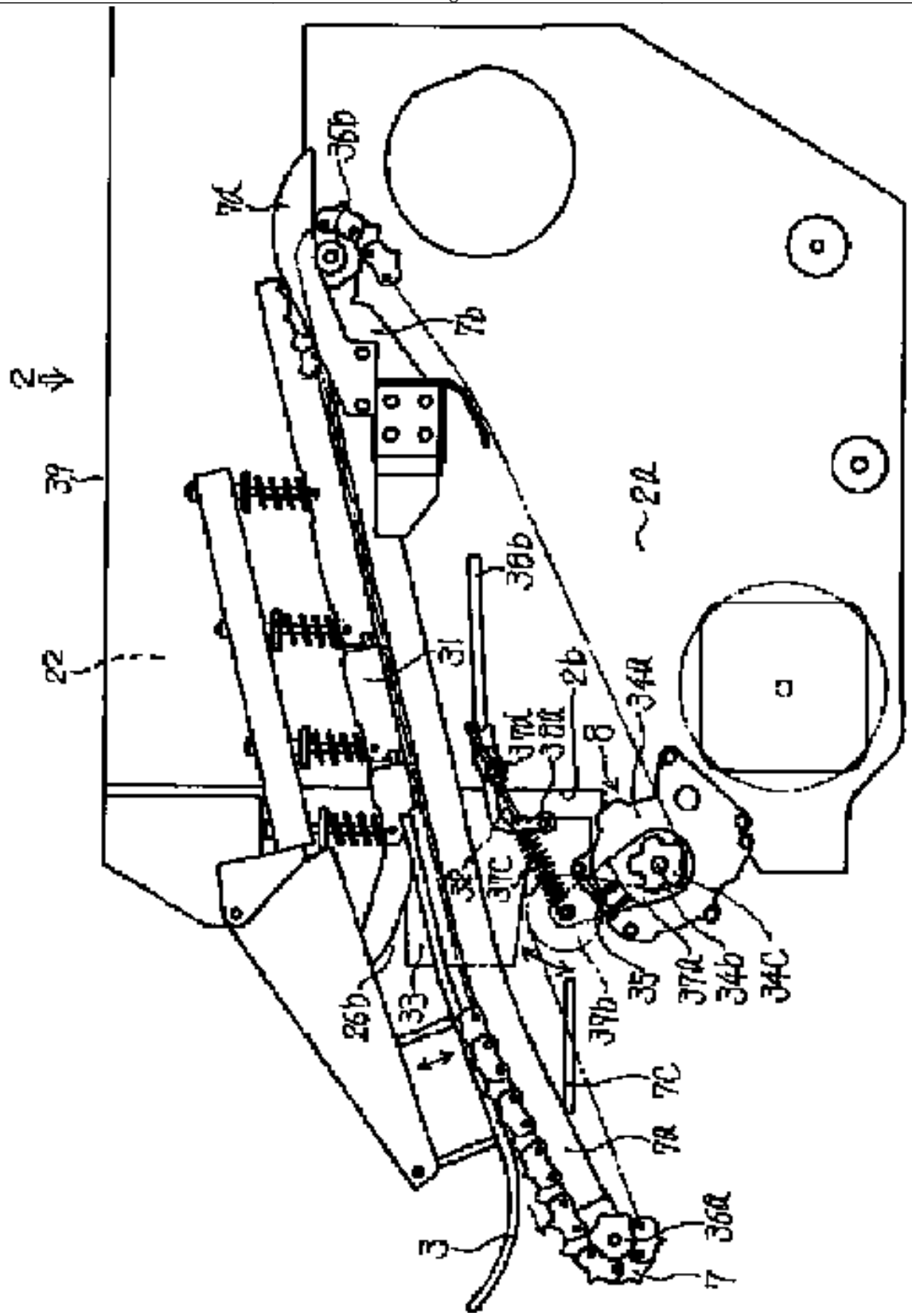
Family 619/667 - FAMPAT - ©Questel

Title

(JP2000166362)

Culm-nipping and conveying device of threshing machine

Images



Publication data including kind & date

JP2000166362 A 2000-06-20 JP2000166362

Abstract

(JP2000166362)

PROBLEM TO BE SOLVED: To prevent the fall down of dust, etc., in the vicinity of an oil feeding port of a feed chain-driving device for rotationally driving the feed chain.SOLUTION: This culm-nipping and conveying device in a threshing machine is provided by installing an entrance funnel 33 protruding to the outside at the downward side of a supplying port 32 of a threshing chamber 22 for threshing cereal culms, and a feed chain-driving device 8 for rotationally driving a feed chain 7 for nipping and conveying the cereal culms to the threshing chamber 22 and also positioning an oil feeding port 35 of the feed chain-driving device 8 at the downward side of the entrance funnel 33.

Inventors

MIZUMOTO TAKESHI

DOIHARA JUNJI

IZUMI KOJI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

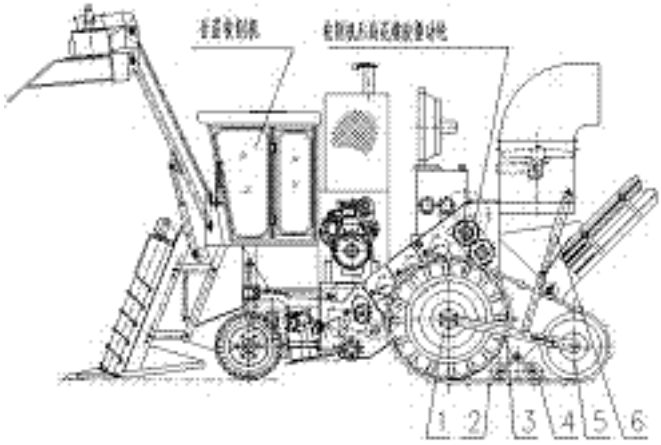
Family 620/667 - FAMPAT - ©Questel

Title

(CN106976488)

Wheel-crawler walking device for sugarcane harvester

Images



Publication data including kind & date

CN106976488 A 2017-07-25 CN106976488

Abstract

(CN106976488)

Disclosed is a wheel-crawler walking device for a wheeled walking sugarcane harvester improved by a rear rubber changing to crawler walking through installation.The wheel-crawler walking device comprises a sugarcane harvester rear drive wheel connection disc, a high-profile crawler, a crawler support rod device, a crawler riding wheel device, a crawler support wheel and a crawler lift hydraulic rod; and the wheel-crawler walking device for the sugarcane harvester combines advantages of a tire and a crawler walking mechanism and is a novel walking mechanism suitable for sugarcane cultivation and production, road walking and field operation walking.The wheel-crawler walking device has the characteristics that 1, wheeled walking adapts to road transfer walking, and the radius of a turning circle is small; and 2, crawler field operation walking has the advantages of being small in ground pressure, high in passage capacity and the like.The wheel-crawler walking device is simple in structure and convenient to operate, application and popularization of the sugarcane combine harvester in the sugarcane area in China are easily, the development of sugarcane mechanization in China is promoted, and the application prospect is good.

Inventors

HUANG JINGJIAN

LIANG ZHAOXIN

NONG JIGUANG

SU FAN

Latest standardized assignees - inventors removed

GUANGXI TIANHUA HIGH TECHNOLOGY

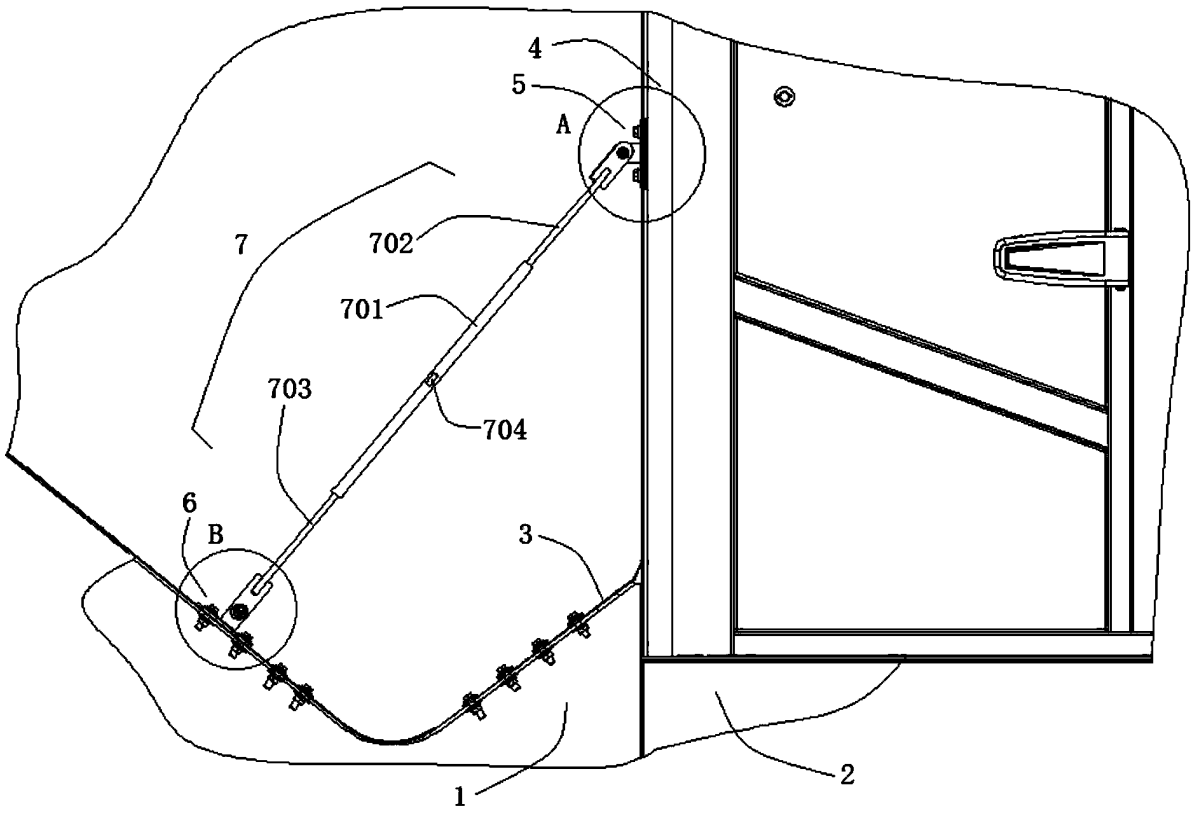
Family 621/667 - FAMPAT - ©Questel

Title

(CN203958346U)

Fixing device of cab and combine harvester with fixing device

Images



Publication data including kind & date

CN203958346	U	2014-11-26	CN203958346U

Abstract

(CN203958346U)

The utility model relates to a fixing device of a cab.The fixing device of the cab is characterized in that first fastening connecting pieces, second fastening connecting pieces and a telescopic connecting rod are included, the first fastening connecting pieces enable adjacent cab side walls and grain box side walls to be fixedly connected, the second fastening connecting pieces enable a grain box bottom plate and a rack to be fixedly connected, the telescopic connecting rod is arranged in a grain box, one end of the telescopic connecting rod is connected with the first fastening connecting pieces, and the other end of the telescopic connecting rod is connected with the second fastening connecting pieces.The utility model further relates to a combine harvester.The fixing device is used as the fixing connecting mode of the cab, and therefore the combine harvester can be more safe and stable in the working process.

Inventors

DING ZHENGYAO
WANG CONG
LI SHUBO
JIANG SHOUSHENG

Latest standardized assignees - inventors removed

CHERY HEAVY INDUSTRY

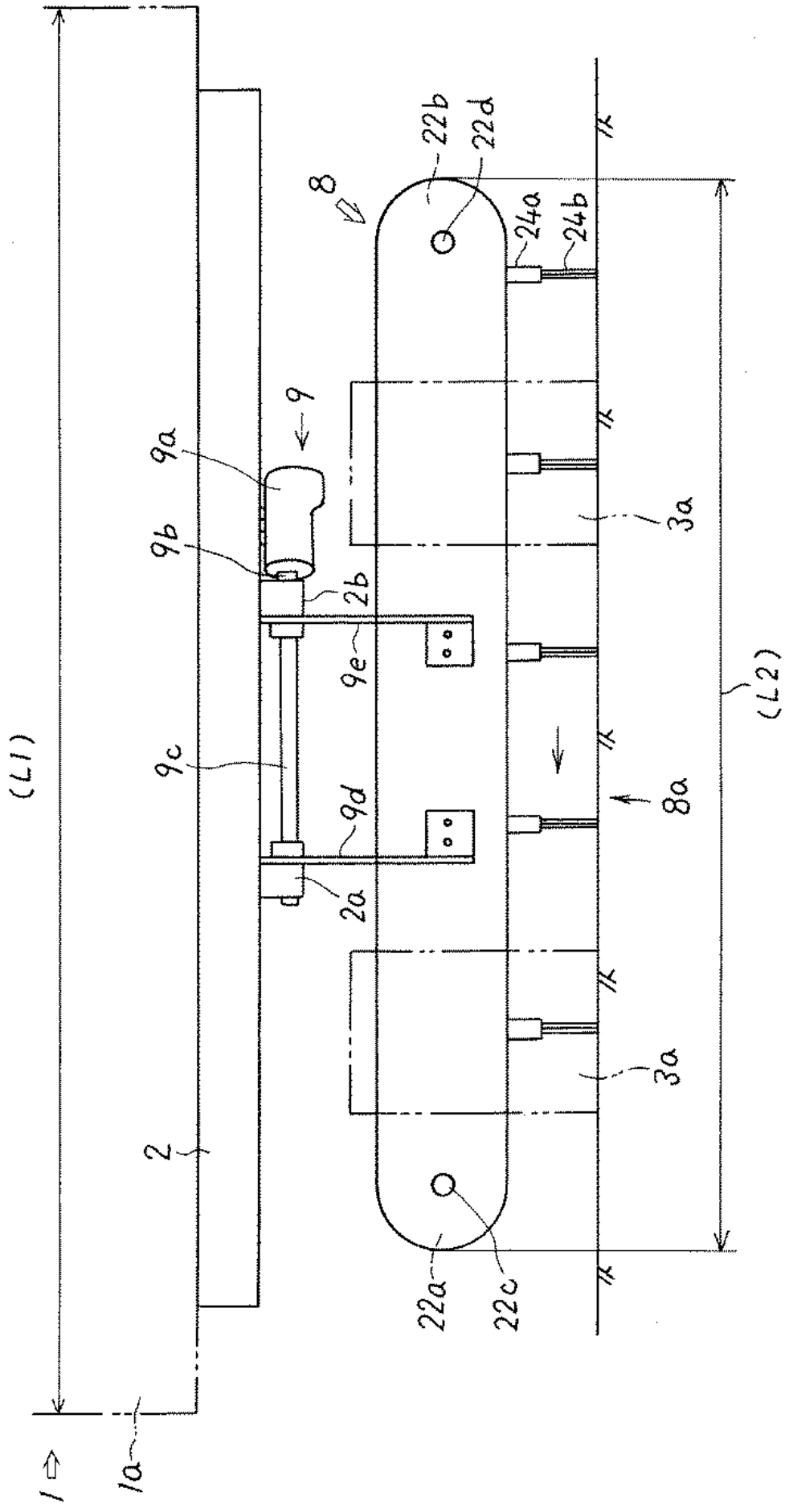
Family 622/667 - FAMPAT - ©Questel

Title

(JP2005263163)

Fallen mud cleaning device for combined harvester and thresher

Images


(L1)
(L2)
1
1a
2
2a
2b
3a
3a
8
8a
9
9a
9b
9c
9d
9e
22a
22b
22c
22d
24a
24b

Publication data including kind & date

JP2005263163	A	2005-09-29	JP2005263163
JP4449520	B2	2010-04-14	JP4449520

Abstract

(JP4449520)

PROBLEM TO BE SOLVED: To prevent damage by providing a road cleaner device for removing and cleaning fallen mud or the like although the mud or the like deposited on a traveling crawler falls on a road when the traveling crawler of a traveling device provided on a lower side of a traveling vehicle base of a combined harvester and thresher is raised from a field onto the road and is traveled on the road.

SOLUTION: When the traveling crawler 3a of the traveling device provided on the lower side of the traveling device 2 of the combined harvester and thresher is raised from the field onto the road and is traveled on the road, the road cleaner device 8 for removing and cleaning the fallen mud or the like is provided and the whole width (L2) of the road cleaner device 8 becomes the whole width (L1) or less of a machine body 1a of the combined harvester and thresher.The road cleaner device 8 is provided between a rear end of the traveling crawler and a falling position where the cut waste straw cut by a cutter device falls, a support device 9 for supporting the road cleaner device 8 is provided between the traveling crawlers 3a and a turning motor 9a for returning the support device 9 is provided on one side of the support device 9.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

KONO KENJI

OKAZAKI HIDENORI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

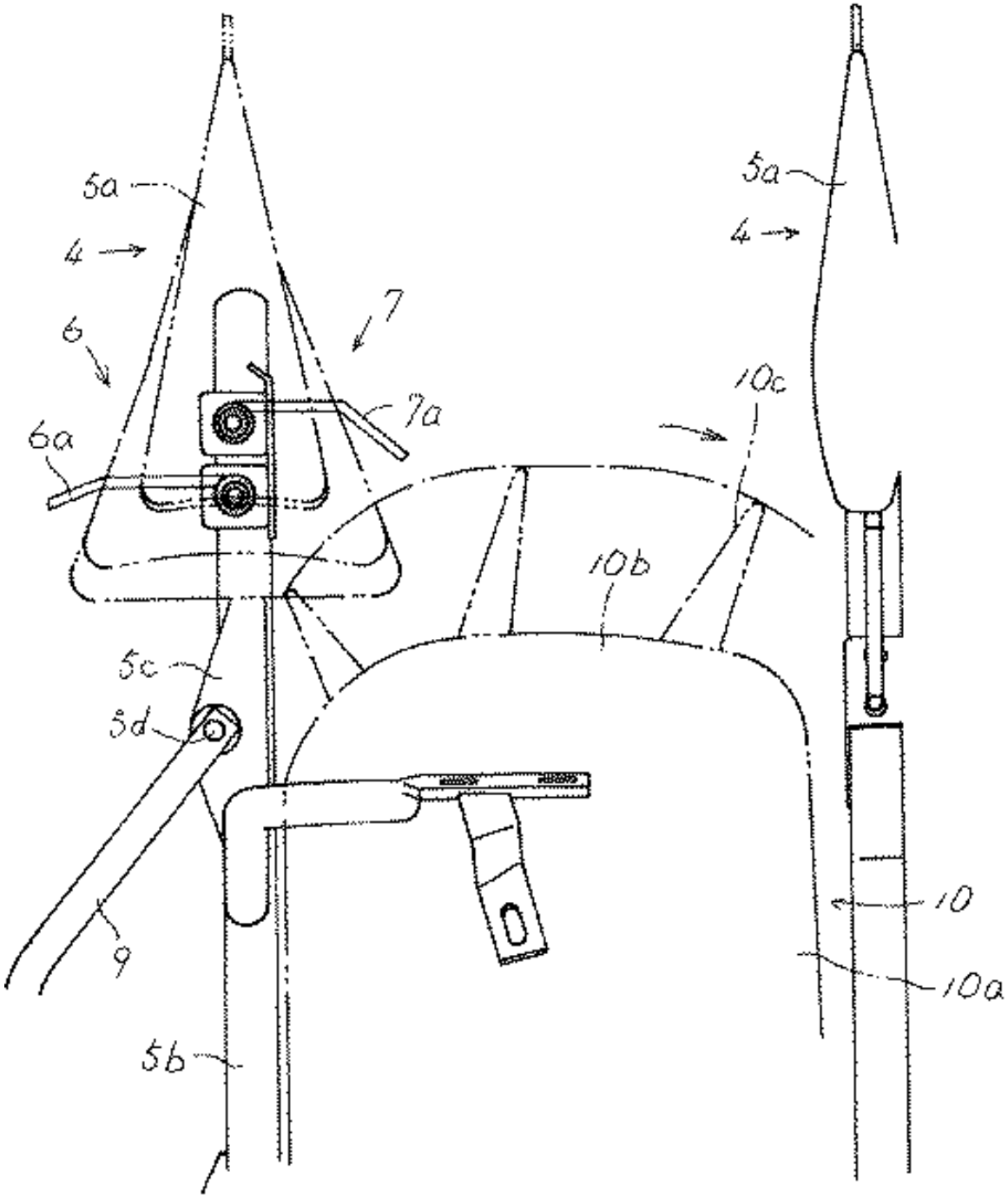
Family 623/667 - FAMPAT - ©Questel

Title

(JP2005000012)

Direction controller for combine harvester or the like

Images



Publication data including kind & date

JP2005000012 A 2005-01-06 JP2005000012

Abstract

(JP2005000012)

PROBLEM TO BE SOLVED: To compact the shape of left/right detecting rods of left/right direction sensors in relation to a direction controller of a combine harvester, etc.

SOLUTION: The apparatus is equipped with the left/right detecting rods 6a and 7a arranged in the front and the rear for detecting grain culms from the left/right direction sensors 6 and 7 detecting both the left and the right sides of an interrow space of the grain culms planted in rows, steering a machine body 1a left and right and controlling the straight advance thereof.The left detecting rod 6a is provided in a position on the side opposite to raising up lugs 10c of a raising up apparatus 10 and overlapping with a rotation locus of the raising up lugs 10c.The right detecting rod 7a is installed on the side of the raising up lugs 10c and located at the front of the rotation locus.Each harness of the left/right direction sensors 6 and 7 is arranged in the lower side of a plate 5c provided in a frame pipe 5b of each grass divider 4.A narrow guide 9 is

installed on the outside of each harness and in the plate 5c.

COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

IIIZUMI KIYOSHI

ANAMI MASAYUKI

OKUMOTO KOJI

SAITO MANABU

KIYASU KAZUHARU

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

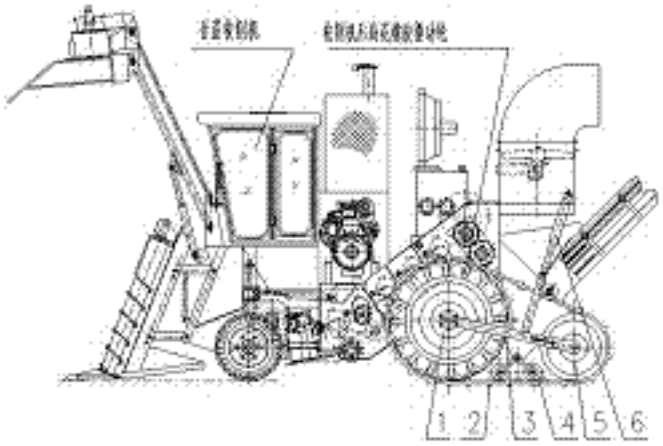
Family 624/667 - FAMPAT - ©Questel

Title

(CN207208239U)

Cane cutting machine wheel -track running gear

Images



Publication data including kind & date

CN207208239 U 2018-04-10 CN207208239U

Abstract

(CN207208239U)

The utility model provides a cane cutting machine wheel -track running gear that the rubber wheel installs additional and to promote transform crawler behind the wheeled walking cane cutting machine of, main behind the cane cutting machine drive wheel connection pad, high flower profile modeling track, track vaulting pole device, the carrier roller device, the track supporting wheel, the track promotes the hydraulic stem, the advantage that this cane cutting machine wheel -track running gear has fused tire and crawler attachment is applicable to the novel running gear that sugarcane planting production reaped road walking and farm work walking, its characteristics: 1.Wheeled walking adaptation highway shifts the walking, and turning radius is little, 2.It is little that track farm work walking has a ground contact pressure, and the trafficability characteristic can high advantage.The device simple structure, convenient operation distinguishes china's sugarcane in sugarcane combine and popularizes and applies, is favorable to promoting the development of china's sugarcane harvester tool.And has a better application foreground.

Inventors

HUANG JINGJIAN

LIANG ZHAOXIN

NONG JIGUANG

SU FAN

Latest standardized assignees - inventors removed

GUANGXI TIANHUA HIGH TECHNOLOGY

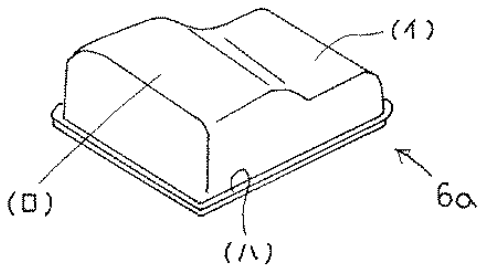
Family 625/667 - FAMPAT - ©Questel

Title

(JP2007216703)

Combine harvester

Images



Publication data including kind & date

JP2007216703	A	2007-08-30	JP2007216703
JP4923606	B2	2012-04-25	JP4923606

Abstract

(JP4923606)

PROBLEM TO BE SOLVED: To simply and inexpensively manufacture a fuel tank storing a fuel supplied to an engine.

SOLUTION: The combine harvester comprises a reaper 3 for reaping and conveying standing cereal culm in front of a traveling undercarriage 2, a threshing machine 4 for receiving a reaping cereal culm and threshing during nipping and transporting on the upper side of the traveling undercarriage 2, an engine 5, and the fuel tank 6 storing the fuel supplied to the engine 5.The fuel tank 6 is constituted by vertically overlapping two parts 6a, 6b for the fuel tank which are the same shaped box shape made by one mold and composed of a bottom part having upper and lower two stages of a shallow part A and a deep part B.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

Hitoshi Watanabe
Masami Matsui
Tomoyuki Ichimaru
Takahiko Uemura
KITAGAWA TOMOSHI
Kentaro Tsuji

Latest standardized assignees - inventors removed

ISEKI

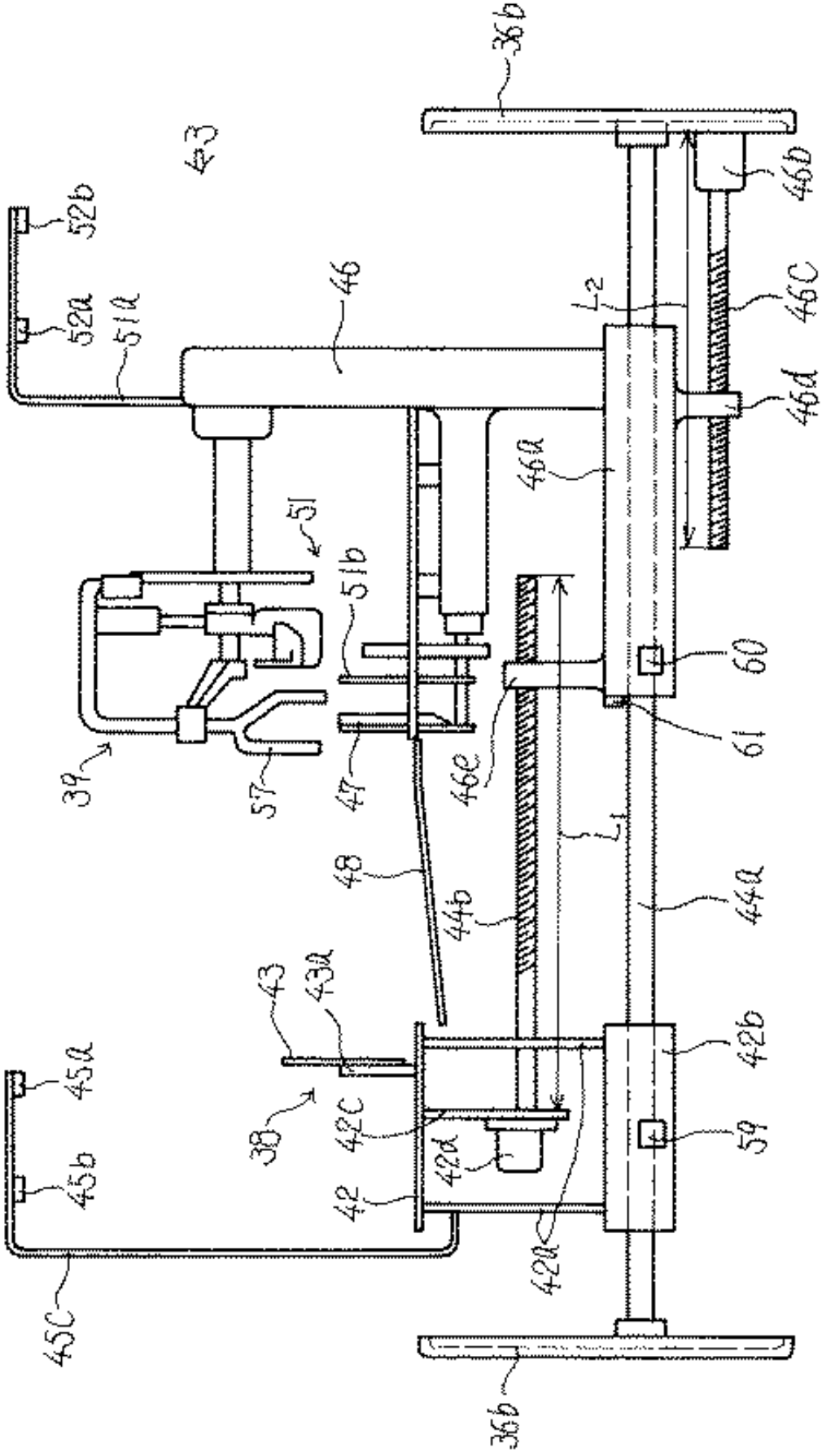
Family 626/667 - FAMPAT - ©Questel

Title

(JP11113373)

Binding machine of combine harvester or the like

Images



Publication data including kind & date

JPH11113373	A	1999-04-27	JP11113373
JP3849256	B2	2006-11-22	JP3849256

Abstract

(JP3849256)

PROBLEM TO BE SOLVED: To eliminate problems in occurrence of the misbinding or defective plant alignment due to a short or a long waste culm to be bound.SOLUTION: This binding machine of a combine harvester or the like is composed by installing plant foot sensors 45a and 45b and ear tip sensors 52a and 52b for detecting the plant foot and ear tip of each fed waste culm and is capable of moving a binding device 51 for binding the waste culm to a position where the ear tip is detected with the ear tip sensor 52a or 52b by the presence or absence of the detection with the plant foot sensor 45a or 45b and further moving a device 38 for plant alignment to a position where the plant foot is detected with the plant foot sensor 45a or 45b.

Inventors

OCHI SHOJI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

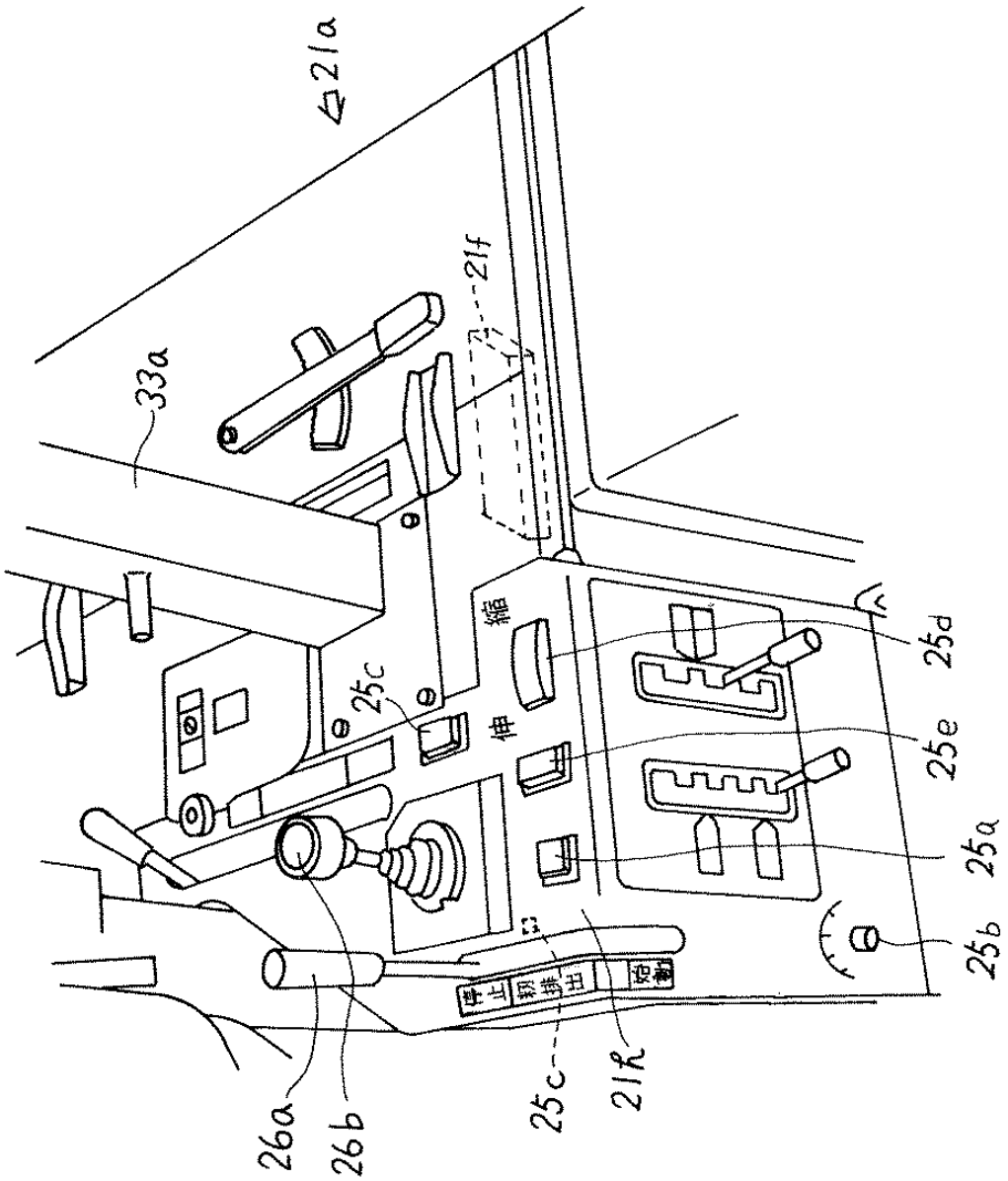
Family 627/667 - FAMPAT - ©Questel

Title

(JP2005287460)

Grain unloading apparatus of combine harvester or the like

Images



Publication data including kind & date

CN1679387	A	2005-10-12	CN1679387
JP2005287460	A	2005-10-20	JP2005287460
KR20060044384	A	2006-05-16	KR20060044384
KR100694652	B1	2007-03-13	KR100694652
CN1321558	C	2007-06-20	CN1321558C
JP4228147	B2	2009-02-25	JP4228147

Abstract

(JP4228147)

PROBLEM TO BE SOLVED: To rotate and move the grain unloading port of an unloading cylinder to the top position by operation of a stretchable transport cylinder for movement in a contracted state, comprising the unloading cylinder having the grain unloading port for unloading grain to the outside of a machine at the tip part.

SOLUTION: The unloading cylinder having the grain unloading port, which is attached to the stretchable transport column for movement of a grain transporting and unloading cylinder apparatus for transporting and unloading grain, is controlled in upward rotation and movement by operating an automatic extension and contraction switch 25d for contracting and operating the transport column for movement to contraction by a controller 21f.When the absence of grain in a grain

storage tank is detected by a grain sensor 4f, the unloading cylinder 14 is rotated upward.When the unloading cylinder is manually rotated by the operation of a manual rotation switch 25b, a motor for rotation is controlled by a pulse waveform.When the unloading cylinder is rotated by external force except the motor for rotation by a fixed angle or more, an unloading clutch lever 26a is controlled in disengagement and unloading operation is stopped.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

KONO KENJI

OKAZAKI HIDENORI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

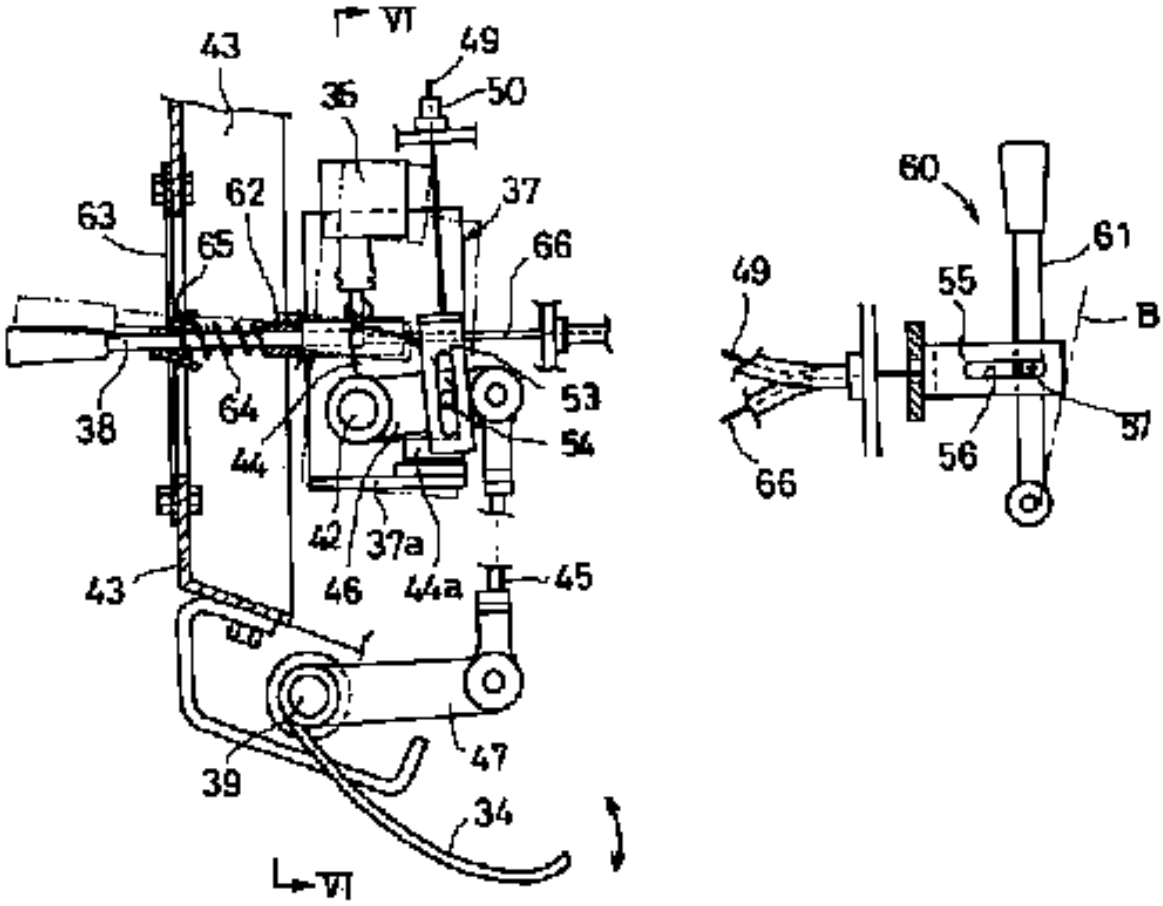
Family 628/667 - FAMPAT - ©Questel

Title

(JP06030623)

Reaping height detector for combine harvester

Images



Publication data including kind & date

JPH0630623	A	1994-02-08	JP06030623
JP3183955	B2	2001-07-09	JP3183955

Abstract

(JP3183955)

PURPOSE:To prevent the damage of a reaping-height detection grounding member of a combine harvester caused by the hard contact of the member with the ground in the backward motion of the combine harvester.CONSTITUTION:A rotary supporting member 37 having a firmly fixed detector 35 is rotatably attached to a lateral shaft 42 and the vertical displacement of a grounding member 34 is transmitted to the detector 35 with a displacement- transmission means 36 attached to the machine frame 43 of a reap-pretreating apparatus at the front part of the mobile machine body of a combine

harvester in such a manner as to be movable relative to the rotary supporting member 37.The displacement transmission means 36 is connected to a speed-change lever 61 for changing the running direction between forward and backward through a wire 49 to enable the change of the posture of the grounding member 34 to be largely lifted from the ground when the moving direction changing means is switched to backward motion.The turning posture of the rotary supporting member 37 is made to be changeable with an operation lever 38.

Inventors

FURUTA HARUJI

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

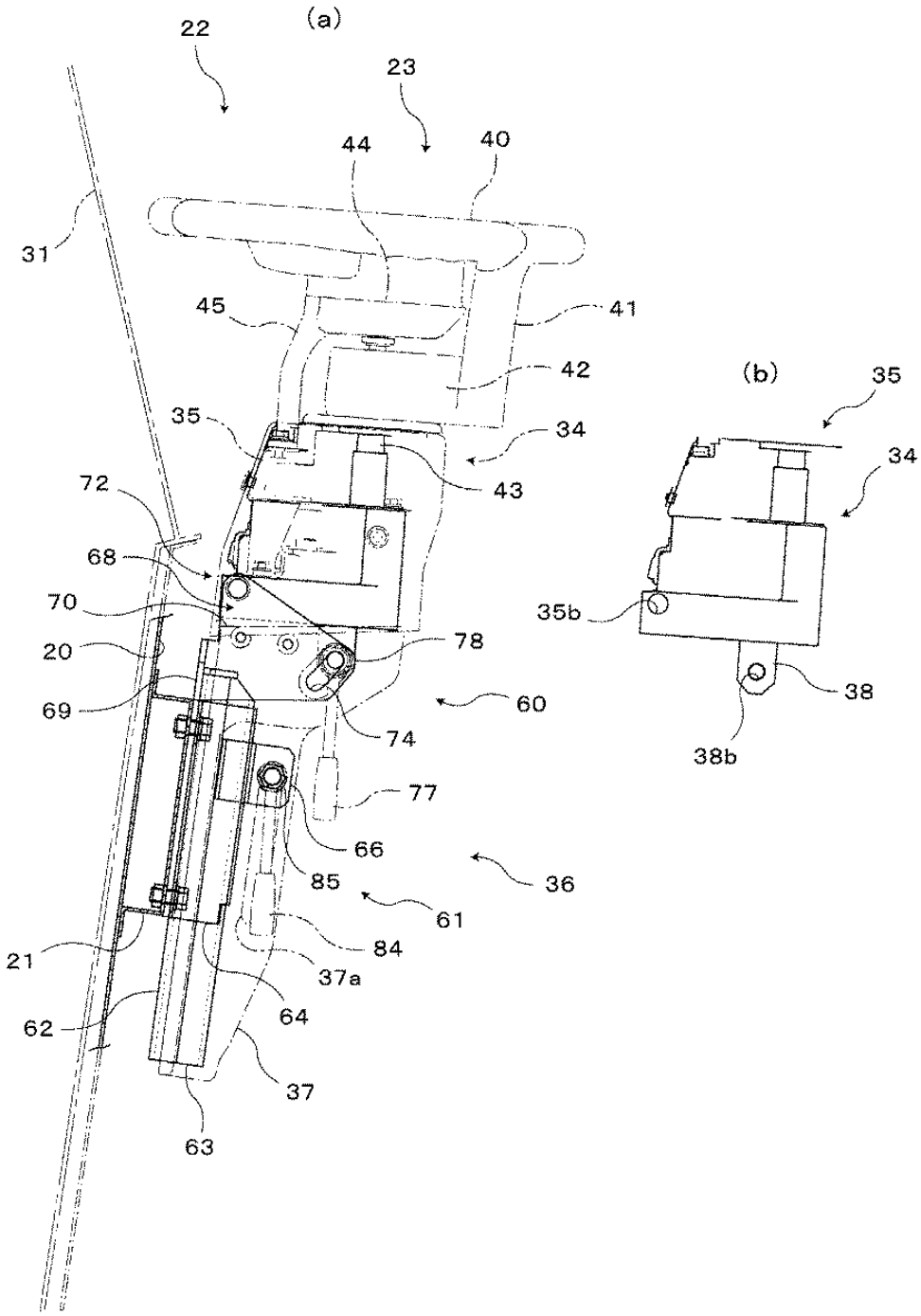
Family 629/667 - FAMPAT - ©Questel

Title

(JP2011079498)

Combine

Images



Publication data including kind & date

JP2011079498 A 2011-04-21 JP2011079498

Abstract

(JP2011079498)

PROBLEM TO BE SOLVED: To provide a combine with a large legroom in its operation part which has a steering unit equipped with a steering mechanism, and a tilt adjustment function and a telescopic adjustment function therein.

SOLUTION: The steering unit is constituted of a steering wheel provided at its upper end, a steering mechanism connected and interlocked with the steering wheel, an almost box-shaped steering wheel body for storing the steering mechanism, and a tilt telescopic mechanism which is disposed below the steering wheel device and has the tilt adjustment function and the telescopic adjustment function for the steering wheel.In addition, the steering unit is arranged as to rise upward from the lower portion of a cabin front wall.

COPYRIGHT: (C)2011,JPO&INPIT

Inventors

KADOTA HIROSHI

Latest standardized assignees - inventors removed

YANMAR

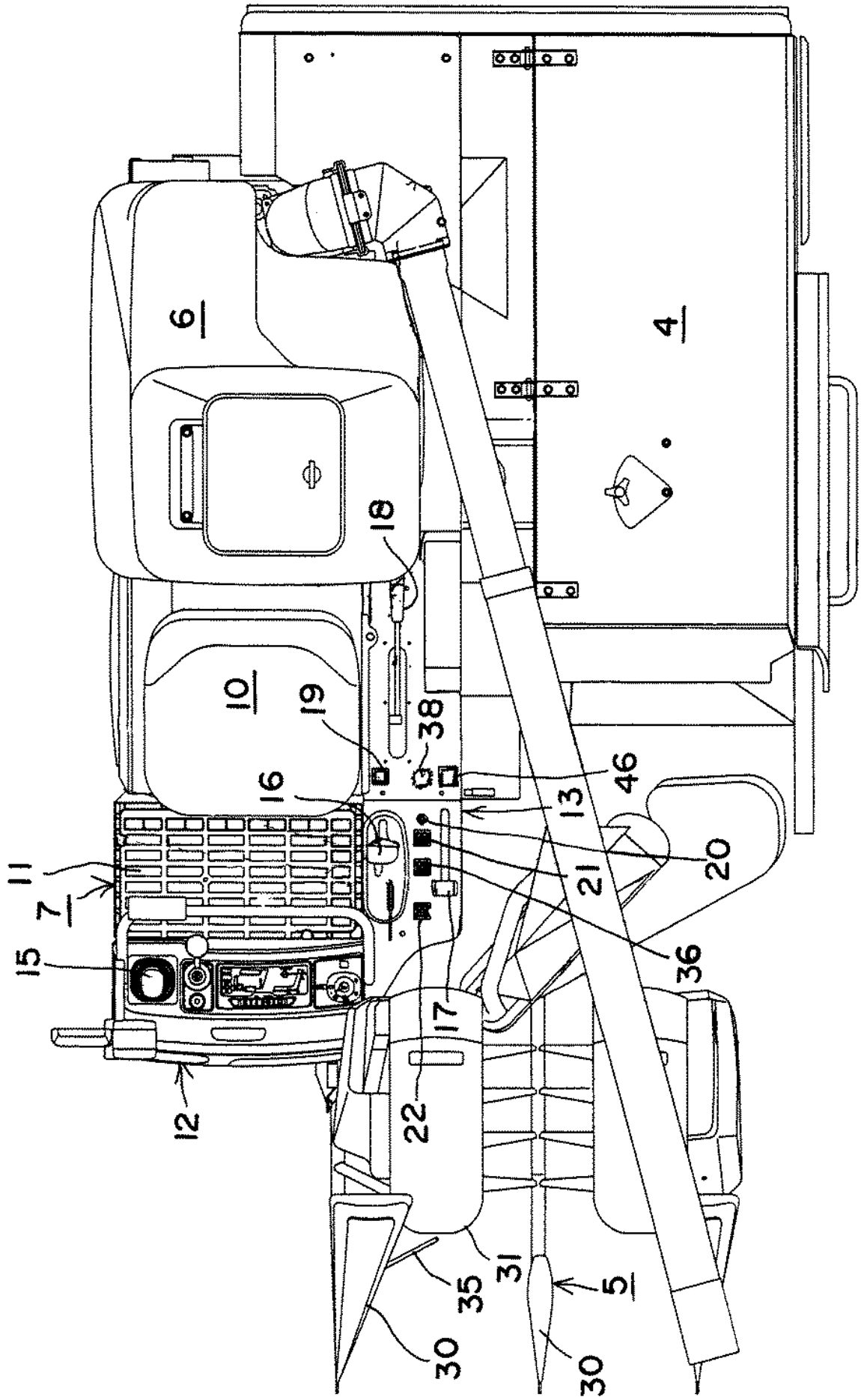
Family 630/667 - FAMPAT - ©Questel

Title

(JP2008154556)

Combine harvester

Images



Publication data including kind & date

JP2008154556 A 2008-07-10 JP2008154556

Abstract

(JP2008154556)

PROBLEM TO BE SOLVED: To improve workability by solving complicated operation for interruption and resumption of automatic direction control during automatic direction control.

SOLUTION: The combine harvester has a pair of left and right traveling devices 2 in which the traveling direction is operated by a steering lever 15, and a reaping part 5 provided in front of the traveling devices 2.In the combine harvester, the traveling device 2 is controlled in an automatic direction by signals of grain culm-sensing sensor 35 sensing planted grain culms so that each grass-dividing body 30 of the reaping part 5 can pass through an intrarow space between adjacent grain culm rows and the automatic direction control is constituted so that the automatic direction control is invalidated when the steering lever 15 is steered during practice of the automatic direction control and the automatic direction control is automatically validated without operating other manual switch when reaping operation is carried out without steering the steering lever 15 over a predetermined time or longer thereafter.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

NAGAI TOSHIRO

AKIYAMA TAKAFUMI

KAMIMURA TAKAHIKO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

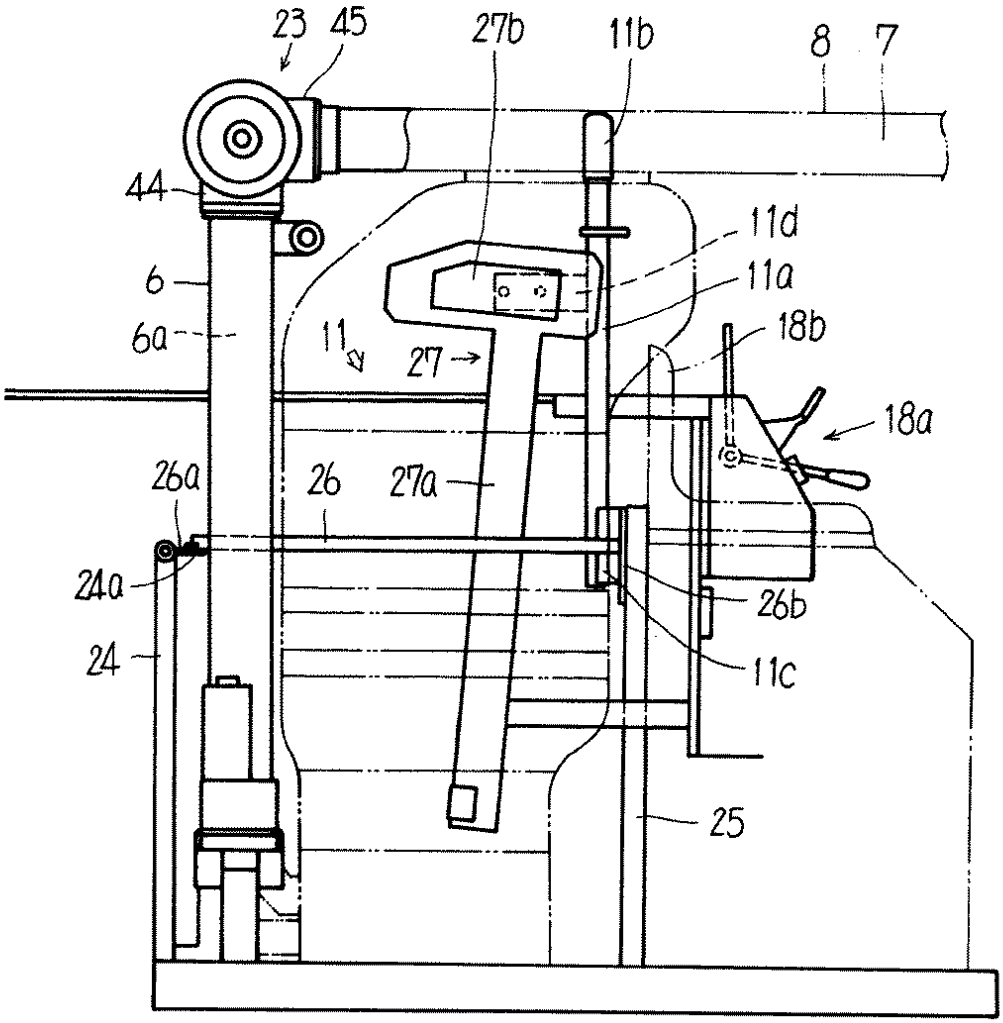
Family 631/667 - FAMPAT - ©Questel

Title

(JP2001320947)

Cereal grain exhauster in combine harvester

Images



Publication data including kind & date

JP2001320947	A	2001-11-20	JP2001320947
JP3956580	B2	2007-08-08	JP3956580

Abstract

(JP3956580)
PROBLEM TO BE SOLVED: To increase the strength of a holding frame for holding a rear cereal grain conveying cylinder.SOLUTION: The cereal grains are conveyed through the rear grain conveying cylinder 8 and the front conveying cylinder that is foldably set on the front side of this rear grain conveying cylinder, the holding frame 11a that holds the rear grain conveying cylinder 8 is supported with the top end of the grain lifter 27 made of a part of high strength, the vertical frame 24 and the front end of the longitudinal frame formed by connecting the vertical frame 24 and the operation frame 25.When the front conveying cylinder 10 is folded, the cylinder is guided as it is supported by the guide 36 attached to the supporter receiver.

Inventors

DOIHARA JUNJI
IZUMI KOJI
FUTAGAMI SHIN

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

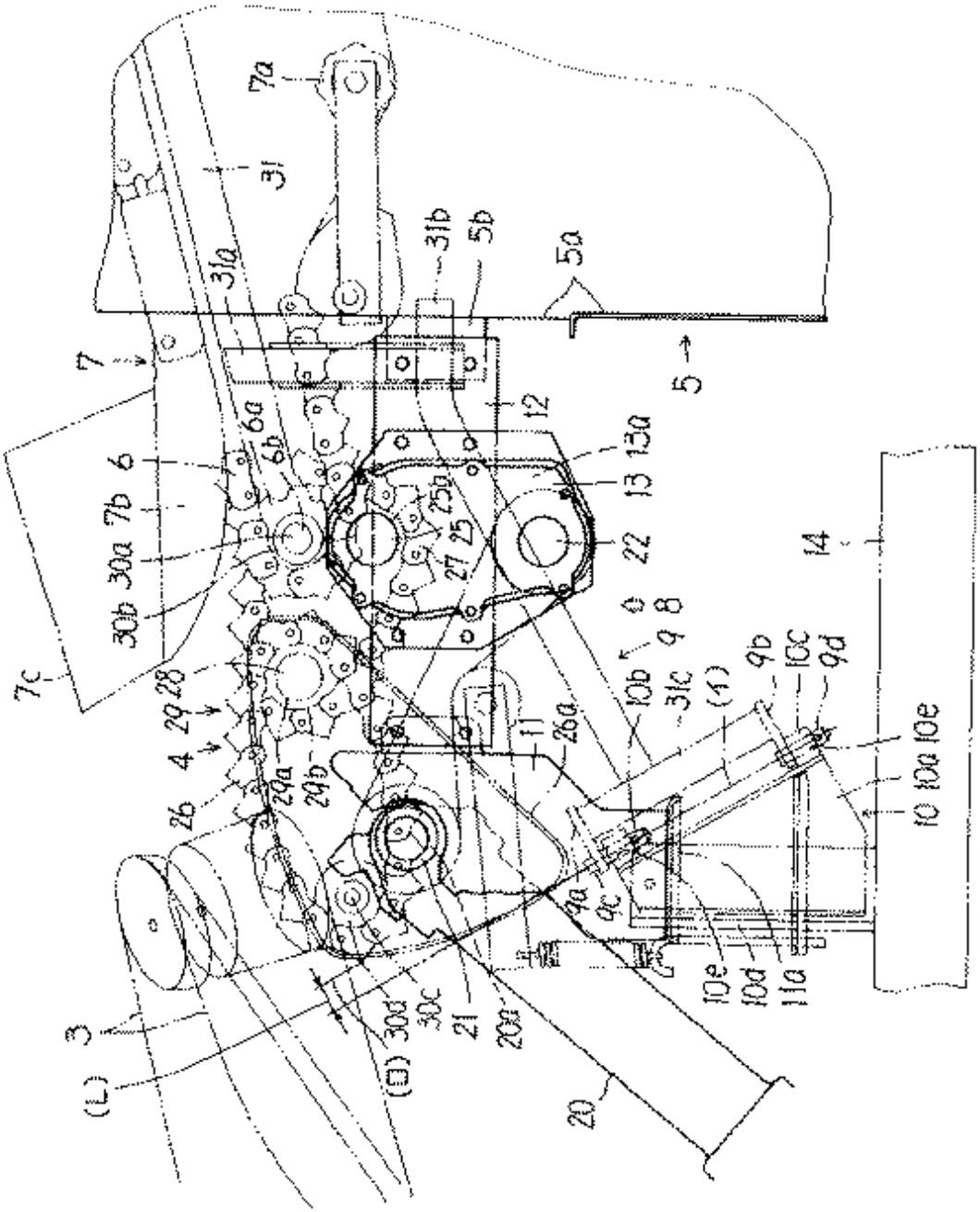
Family 632/667 - FAMPAT - ©Questel

Title

(JP2001145416)

Apparatus for transporting grain culm for combined harvester

Images



Publication data including kind & date

JP2001145416	A	2001-05-29	JP2001145416
JP4126829	B2	2008-07-30	JP4126829

Abstract

(JP4126829)

PROBLEM TO BE SOLVED: To enlarge an open state position by an opening operation of a feed chain and to make a rotary part detachable.SOLUTION: A thresher 5 in which grain culms from an auxiliary transportation apparatus 4 for

transporting the grain culms installed ahead the thresher 5 placed above a traveling undercarriage 14 are delivered by a feed chain 6 and a nipping cylinder and are threshed during transportation is laid.A supporting apparatus 10 arranged at the upper side of the traveling undercarriage 14 is rotatably and detachably furnished with a rotation supporting apparatus 9 for rotatably supporting the feed chain 6 while placing the rotation center position (a) of the rotation supporting apparatus ahead the transportation starting end position (b) of the auxiliary transportation apparatus 4.

Inventors

SATOJI HISAYUKI
OCHI SHOJI
NAGAKI KAZUO
OKADA TOSHIHIKO
OKUMOTO KOJI
IHARA YASUSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

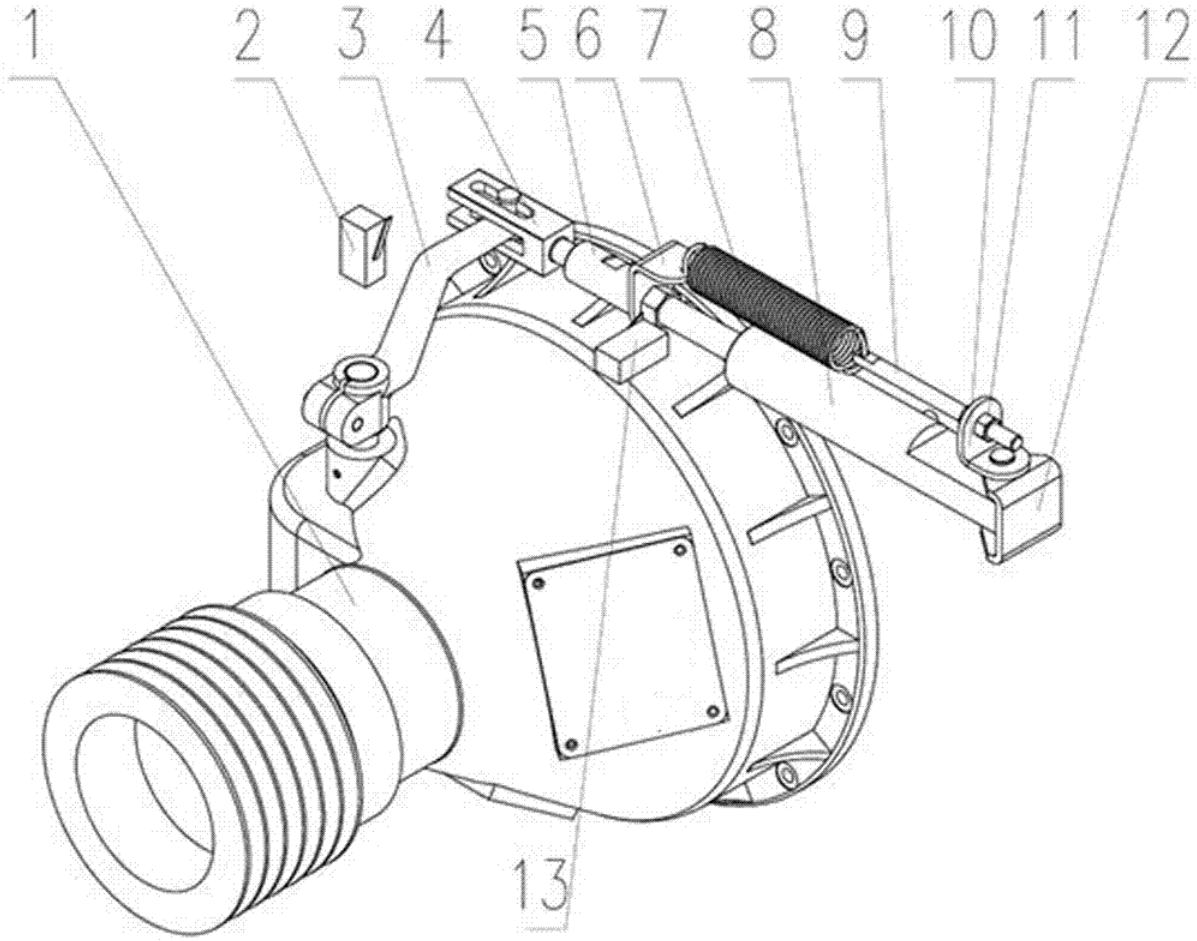
Family 633/667 - FAMPAT - ©Questel

Title

(CN206439319U)

Automatically controlled hydraulic control mechanism of traction clutch for harvester

Images



Publication data including kind & date

CN206439319	U	2017-08-25	CN206439319U

Abstract

(CN206439319U)

The utility model provides an automatically controlled hydraulic control mechanism of traction clutch for harvester, includes traction clutch, and traction clutch realizes combining to pass through the hinge joint of connecting device and main

separation and reunion hydro -cylinder with the rocking arm of separation, and this connecting device connects fork and intermediate junction spare including the rocking arm of connecting each other, and the jaw processing of pitching one end is connected to the rocking arm has the rocking arm of confession male to open shelves to be equipped with relative slot hole on the curb plate of opening the shelves both sides respectively, the rocking arm tip can remove in the slot hole through the round pin axle, be equipped with the extension spring on the main separation and reunion hydro -cylinder, the both ends of extension spring respectively with the cylinder body and the hinge joint of main separation and reunion hydro -cylinder, set up respectively at the both ends that the rocking arm rotated the stroke and combine electric control switch and separation electric control switch, be equipped with automatically controlled button at the driver's cabin, automatically controlled button is connected with magenetic exchange valve in the hydraulic control return circuit of controlling main separation and reunion hydro -cylinder, is equipped with one -way throttle valve between magenetic exchange valve and main separation and reunion hydro -cylinder.The utility model discloses simplify the connecting piece of complete machine, improve zero reliability of parts, greatly reduced tractor driver's intensity of labour.

Inventors

LU ZHENGHONG
WEI ZHISONG
LIU HOUXIAN
SONG HUA
LIANG XIAOJIAN
ZHAO JINGXU
LI GUANGWEN
GUO PEILONG
JIAO YIBING

Latest standardized assignees - inventors removed

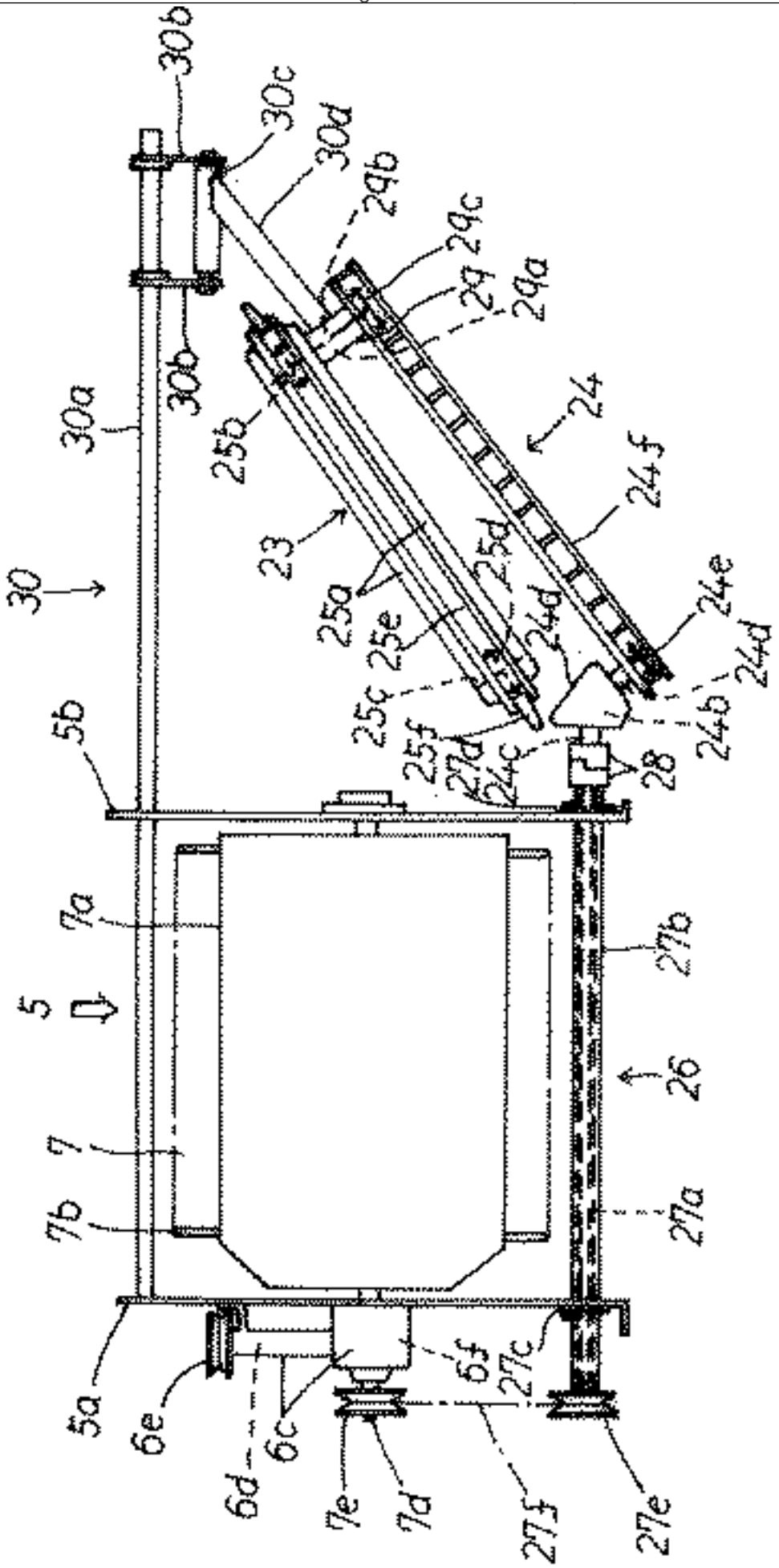
LUOYANG FERGUSON MECHANICAL EQUIPMENT

Family 634/667 - FAMPAT - ©Questel

Title

(JP2004357579)
Waste straw conveying apparatus for combine harvester

Images



Publication data including kind & date

JP2004357579	A	2004-12-24	JP2004357579
JP4449346	B2	2010-04-14	JP4449346

Abstract

(JP4449346)
PROBLEM TO BE SOLVED: To provide a waste straw conveying apparatus solving the problem that a conventional waste straw conveying apparatus for conveying waste straw threshed in a threshing chamber is set in between the right side of a thresher and a threshed grain reserving tank, therefore leading to hard maintenance, lack in mechanical strengths, and impossibility of vertically turning the waste straw conveying apparatus.
SOLUTION: This apparatus works as follows: The waste straw of threshed grain culms after threshing by the respective threshing teeth of a threshing cylinder 7a while nipping and conveying grains inside a threshing chamber 7 through a feed chain 6a and a nipping rod 6b of a thresher 5 is delivered by the apparatus 23 undergoing turning drive by a transmission unit 26 and conveyed out of the machine.In this apparatus, a transmission unit 26 is installed on the left side of the threshing cylinder 7a and above the feed chain 6a.A connective pipe 27b is provided outside of the outer circumference of the transmission shaft 27a of the transmission unit 26 and between front and rear side plates 5a and 5b.Further, a connective tool 28 is provided so as to be connectable/disconnectable between the transmission shaft 27a and this apparatus 23.
COPYRIGHT: (C)2005,JPO&NCIPI

Inventors

TAKEUCHI KENICHIRO
Tomoyuki Ichimaru
TAGAMI KAZUNARI

Latest standardized assignees - inventors removed

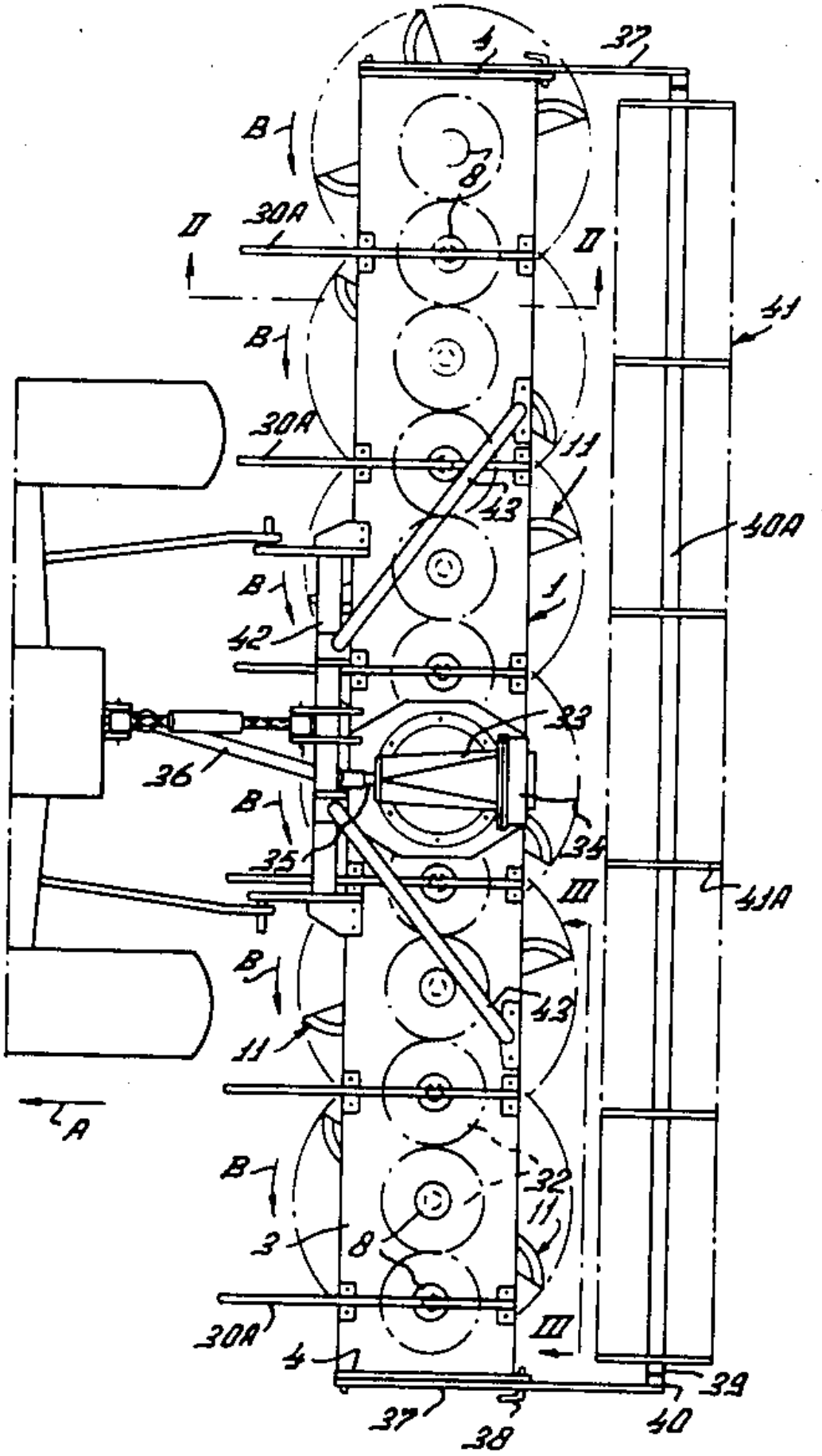
ISEKI

Family 635/667 - FAMPAT - ©Questel

Title

(US3931859)
Convertible agricultural implements and machines

Images



Publication data including kind & date

NL7303531	A	1974-09-17	NL7303531
DE2411892	A1	1974-09-19	DE2411892

FR2221065	A1	1974-10-11	FR2221065
US3931859	A	1976-01-13	US3931859
IT1007464	B	1976-10-30	IT1007464
GB1469342	A	1977-04-06	GB1469342
FR2221065	B1	1978-09-08	FR2221065

Abstract

(US3931859)

An agricultural implement is convertible from a soil tilling cultivator having a row of detachable soil working members having rotatable supports by removing some or all of the soil working tools and attaching mowing or cutting tools having one or more horizontally extending blades, to only some of the rotatable supports, at spaced apart intervals along the row.The bladed tools have detachable carriers and each of the tools has at least one group of blades with leading edges that are rotated in circular paths which overlap the paths of those blades on adjacent tools.The rotary tools can have spaced apart groups of blades at different vertical levels and guide surfaces or further cutting or mowing elements mounted between adjacent tools.Also, the bladed tools can be fastened to alternate supports or every third support to rotate in the same or opposite directions from adjacent bladed tools.

Inventors

VAN DER LELY CORNELIS

Latest standardized assignees - inventors removed

C VAN DER LELY

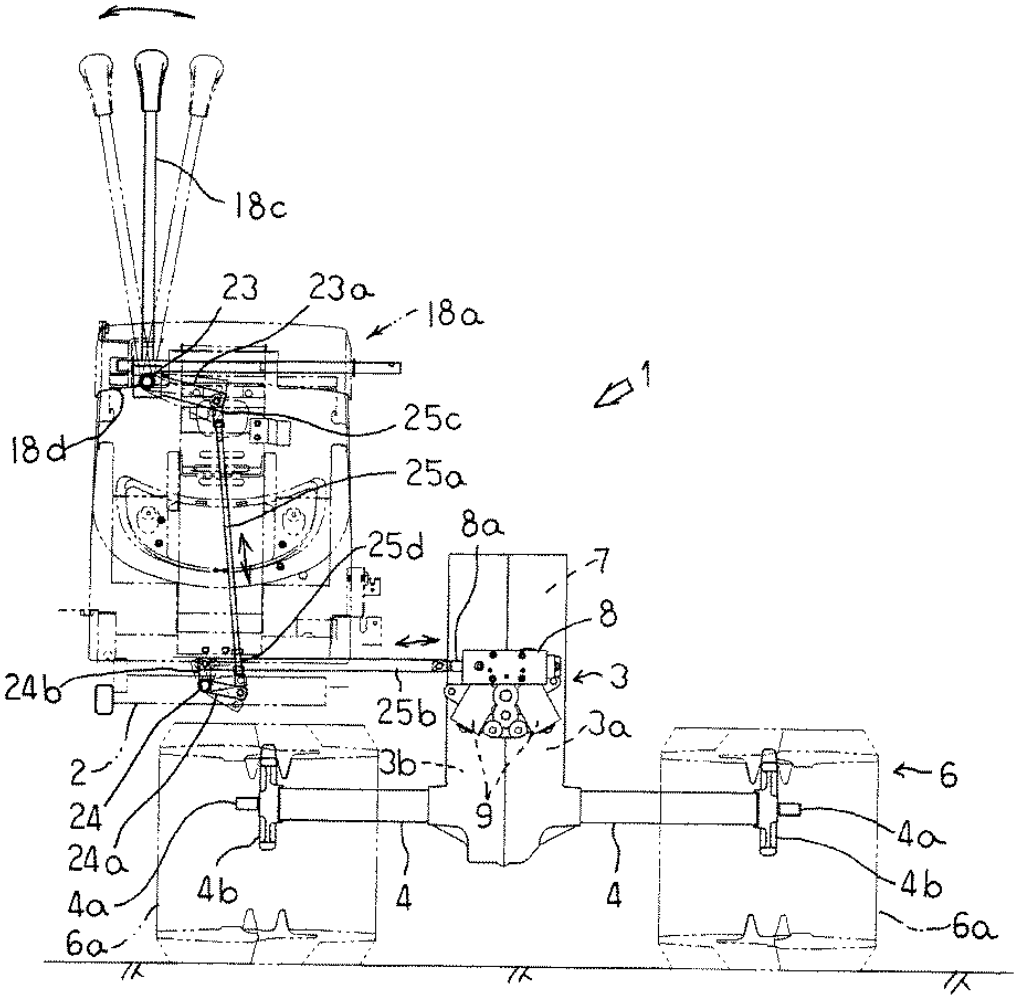
Family 636/667 - FAMPAT - ©Questel

Title

(JP2007055437)

Combine harvester

Images



Publication data including kind & date

JP2007055437 A 2007-03-08 JP2007055437

Abstract

(JP2007055437)

PROBLEM TO BE SOLVED: To solve the problem that an electric trouble occurs, since an electric solenoid spool is used for the switching of a push cylinder, or operational impossibility occurs due to dust clogging.

SOLUTION: A manual spool 8 provided on a transmission case 3 is moved to the right and left direction by a manual operation of a main gearshift lever 18c operating in switching in the traveling direction, and pressure to each push cylinder 9 is changed by switching an oil flow.

COPYRIGHT: (C)2007,JPO&INPIT

Inventors

IWAMOTO HIROSHI

GOSHIMA KAZUMI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

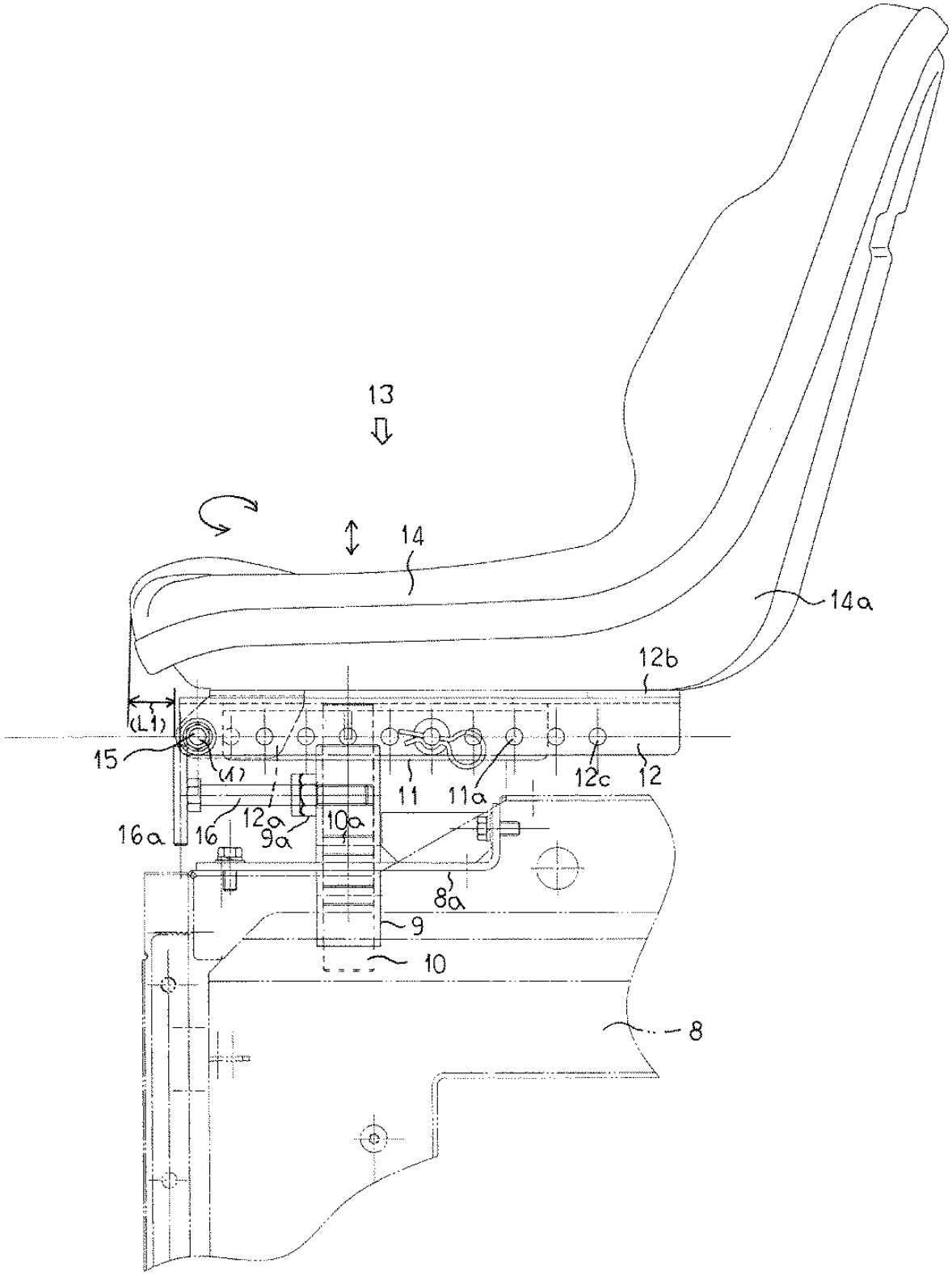
Family 637/667 - FAMPAT - ©Questel

Title

(JP2010006228)

Seat support structure of combine harvester

Images



Publication data including kind & date

JP2010006228 A 2010-01-14 JP2010006228

Abstract

(JP2010006228)

PROBLEM TO BE SOLVED: To facilitate driving operation by facilitating the longitudinal adjustment and turning adjustment of the seat.

SOLUTION: The seat support structure is provided with a vertical attitude support cylinder body (9) on the top of an engine cover (8), a vertically slidable support member (10) on the support cylinder body (9), a support receiving plate (11) on the upper end of the support member (10), and a moving support plate (12) for mounting the seat (14) on the upper side of the

support receiving plate (11) so as to be slidably overlapped in the longitudinal direction.The seat (14) is pivotally mounted to a shaft in a vertically turnable manner at the front end of the moving support plate (12) with an axis center (a) of a support shaft (15) provided in the horizontal direction as a center.

COPYRIGHT: (C)2010,JPO&INPIT

Inventors

NAGAI TOSHIRO

SHIRAKATA MIKIYA

FURUKAWA HIROSHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

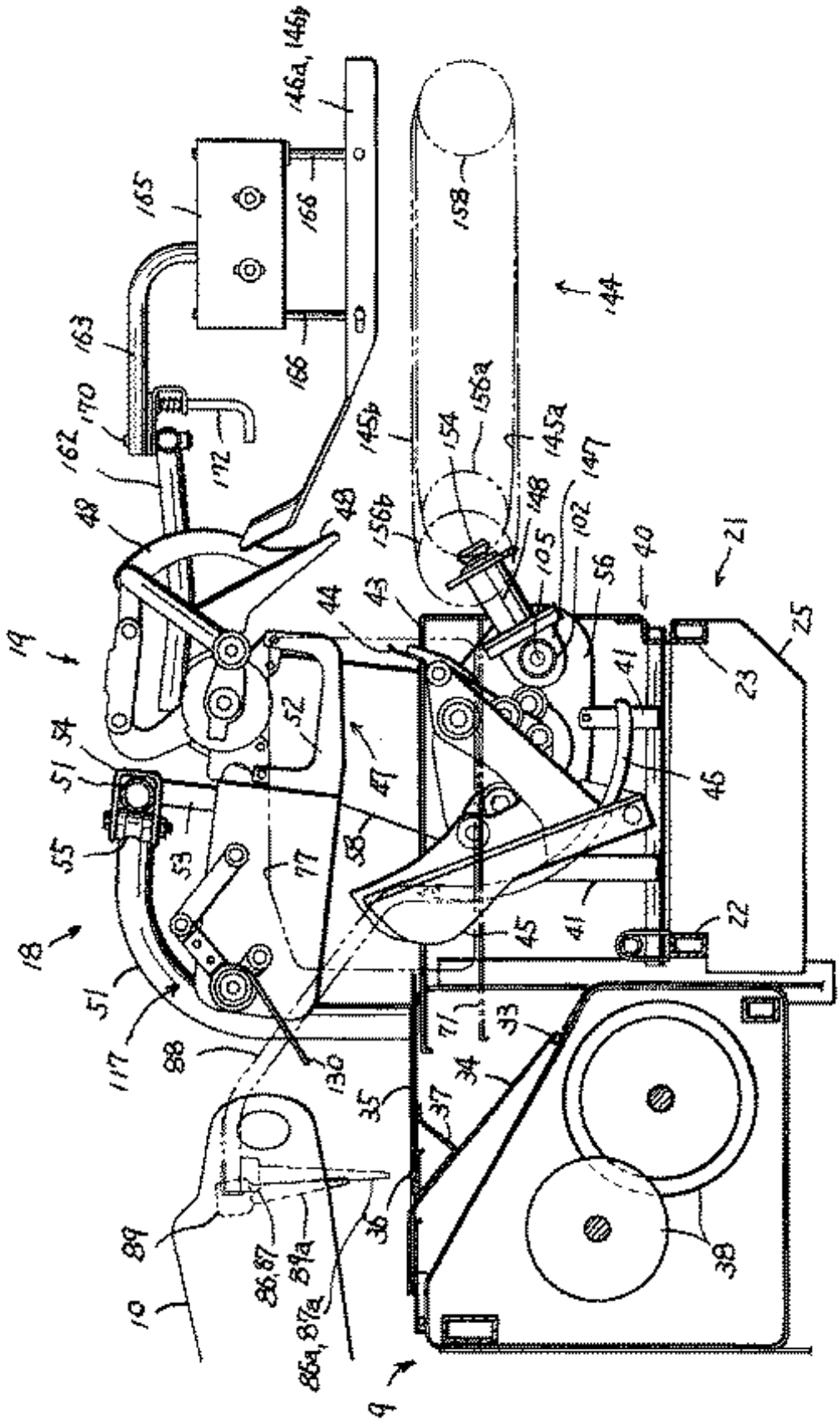
Family 638/667 - FAMPAT - ©Questel

Title

(JP10150835)

Waste straw binding device for combine

Images



Publication data including kind & date

JPH10150835	A	1998-06-09	JP10150835
JP3977886	B2	2007-09-19	JP3977886

Abstract

(JP3977886)

PROBLEM TO BE SOLVED: To prevent a carrying and discharging body from being abutted on other pieces of equipment

and structures and damaged by storing the carrying and discharging body at the time of not being used.SOLUTION: This device is provided with the carrying and discharging body 144 for taking over straw bundles discharged from a binding machine 19 and carrying and discharging the straw bundles to an already cut rear part further from the discharge position of the binding machine 19 on the rear part of the binding machine 19 for binding waste straws carried out from a threshing part.In this case, the carrying and discharging body 144 is made freely storable so as to turn the feed terminating end part of the carrying and discharging body 144 to be at the almost same front-to-back position as a feed starting end part.

Inventors

ODA MASAAKI

MIZOBUCHI NORIO

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

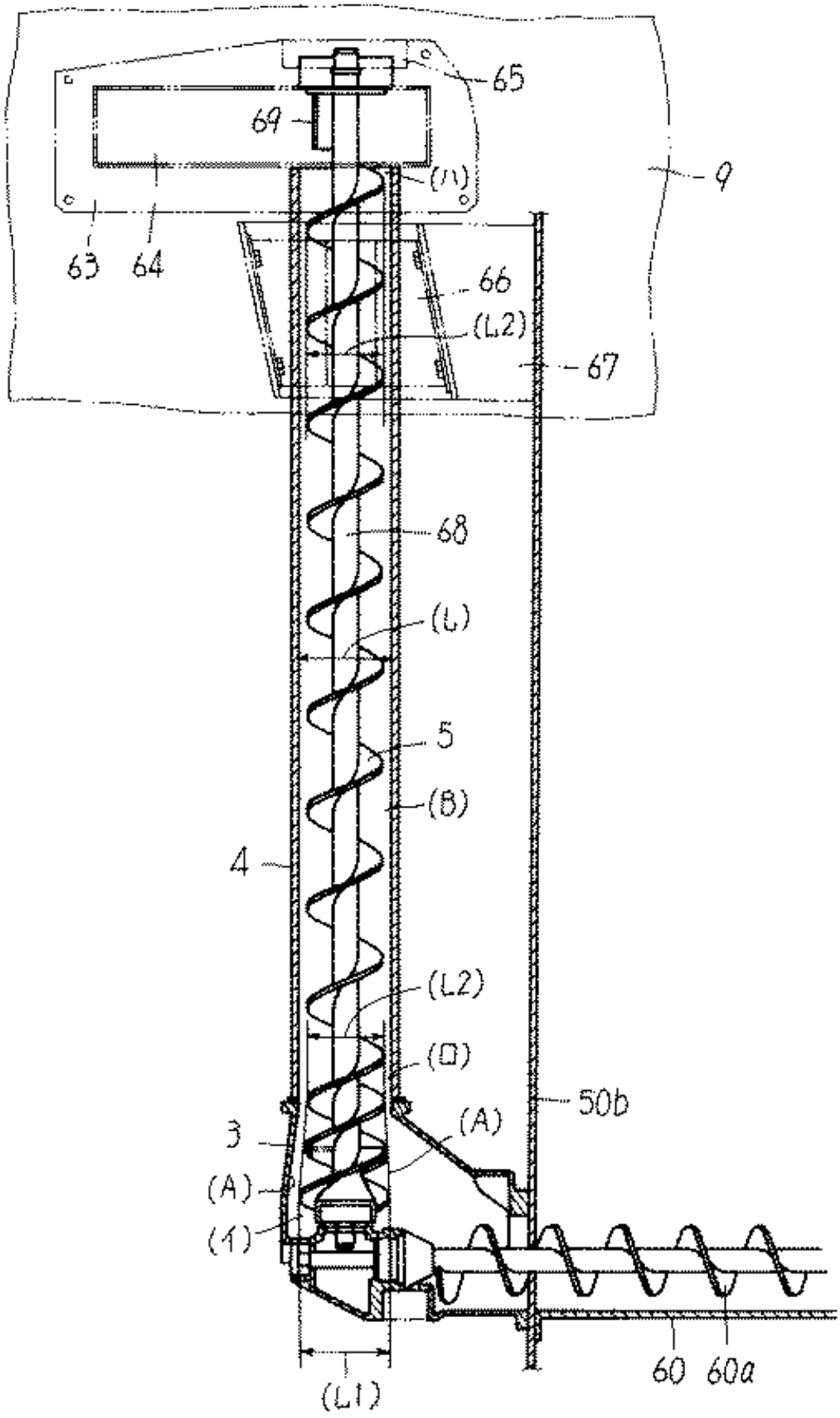
Family 639/667 - FAMPAT - ©Questel

Title

(JP2001037324)

Grain transportation apparatus for thresher

Images



Publication data including kind & date

JP2001037324 A 2001-02-13 JP2001037324

JP4013411 B2 2007-11-28 JP4013411

Abstract

(JP4013411)
PROBLEM TO BE SOLVED: To provide a grain transportation apparatus for a thresher capable of preventing grain from stagnating in a grain elevating spiral metal and the grain elevating spiral metal from clogging with the grain.SOLUTION: A grain elevating spiral metal 3 at the lower part and a grain elevating and transportation cylinder 4 at the lower part have a built-in outer diameter part of a grain elevating spiral 5 for elevating and transporting grain.A tapered shape A having a small outer diameter at the upper part and a large outer diameter at the lower part is formed in the grain elevating spiral metal 3.A straight shape B having a small outer diameter is formed in the grain elevating and transporting cylinder 4.

Inventors

TAKEUCHI KENICHIRO
IMAMURA HIDEKAZU
MIZUSHIMA ATSUSHI
TOYODA KAZUO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

Family 640/667 - FAMPAT - ©Questel

Title

(GB-988160)
A coupling device for connecting a tractor with an agricultural implement

Images

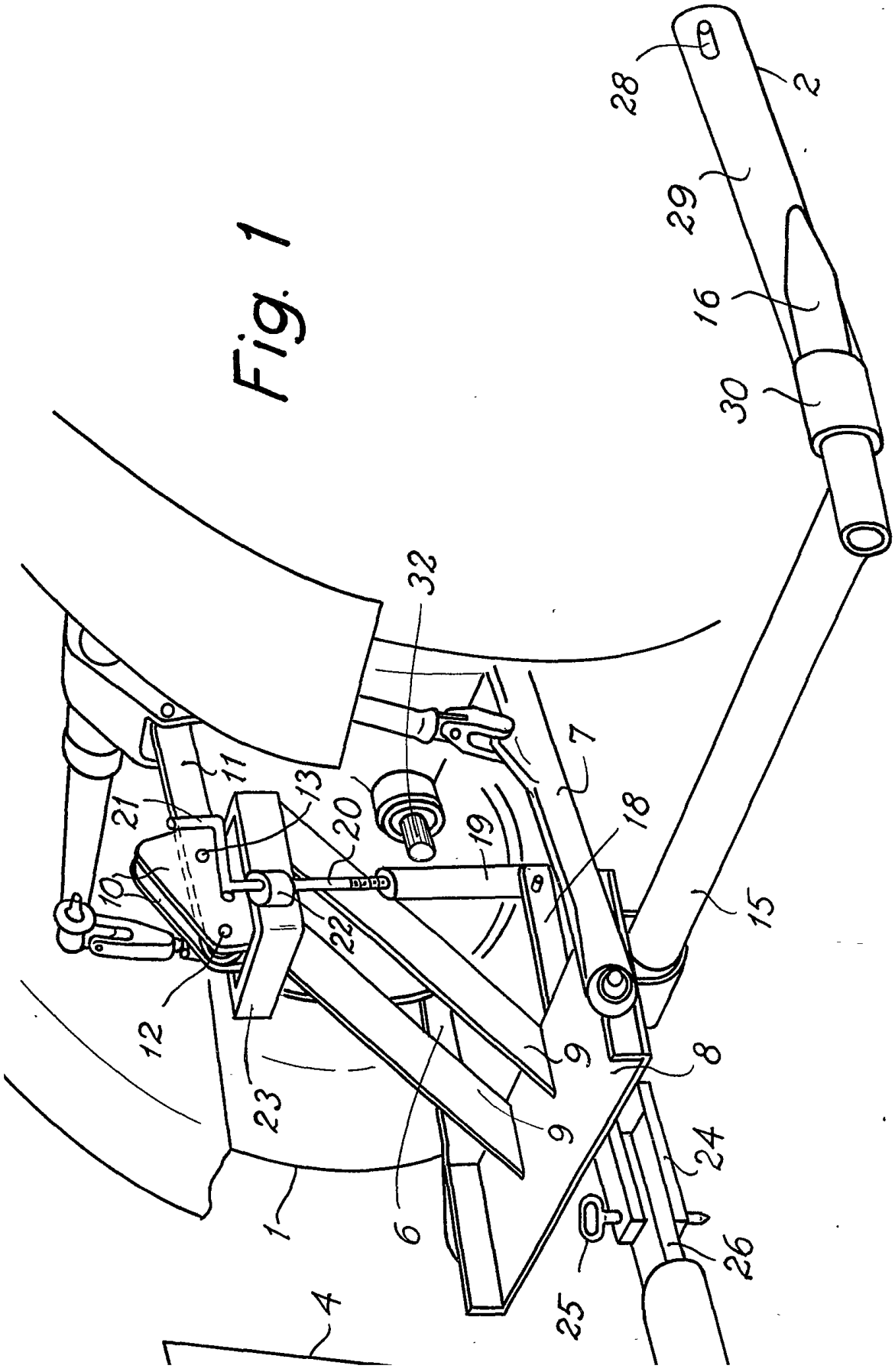


Fig. 1

Publication data including kind & date

GB988160	A	1965-04-07	GB-988160
CH399810	A	1965-09-30	CH-399810
DK104378	C	1966-05-09	DK-104378C
AT248777	B	1966-08-10	AT-248777

DE1482224	A1	1969-05-29	DE1482224
SE227130	C1	1969-08-05	SE-227130

Abstract

(DE1482224)

988,160. Tractor/implement hitches.L.SVERREGAARD, and V.PEDERSEN.March 21, 1963 [March 23, 1962], No. 11213/63.Heading B7T.A forage harvester 2 has a draw bar 29 provided with a socket 30 adapted to be engaged by a mandrel 16 fixed at right angles to a telescopically adjustable tube 15 carried by plates 8, 10 and stiffeners 9 from lift links 6, 7, 11.The tube 15 and mandrel 16 may be turned and angularly adjusted by a handle 21 screw connected to an arm 18 attached to the tube The drawbar 29 is pivoted at 28 to a bar 27 rigid with the implement and a spring 31 connects the two bars.Coupling is effected by simply driving the tractor towards the implement so that the mandrel 16 slides into the socket 30.Holes 12 and 13 in the plates 10 and the link 11 are provided with through pins, and the pin through the hole 13 may be removed to permit the arms 6, 7 and 11 to raise or lower.A trailer 4 having a coupling member 26, Fig. 1, may be connected by a pin 25 to means 24 on the plate 8.

(From GB988160 A)

Inventors

PEDERSEN VAGN

Latest standardized assignees - inventors removed

UGERLOSE MASKINFABRIK V LILLY

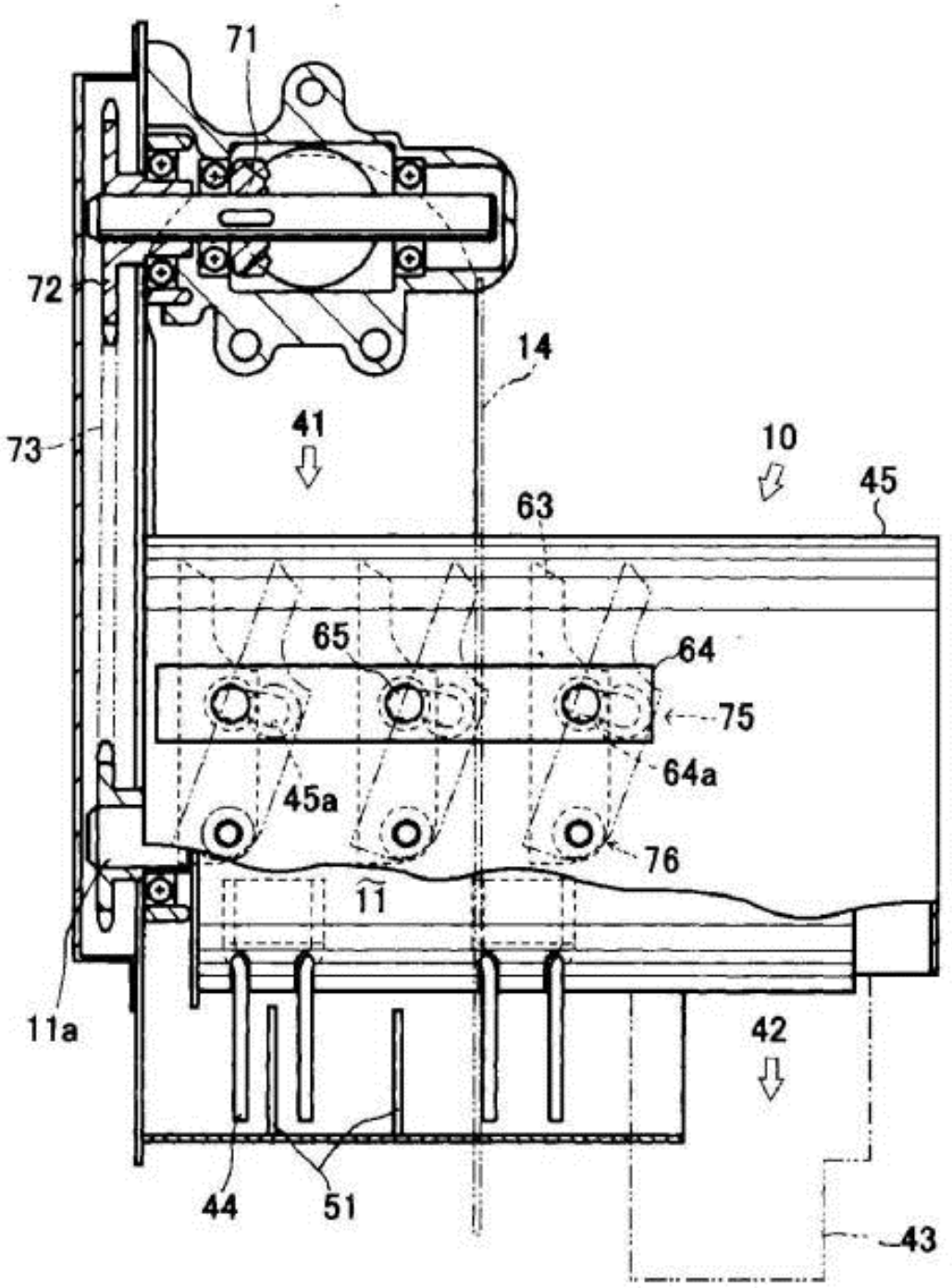
Family 641/667 - FAMPAT - ©Questel

Title

(JP2006136337)

Screening device of combine harvester

Images



Publication data including kind & date

KR20020091757	A	2002-12-06	KR20020091757
CN1389092	A	2003-01-08	CN1389092
JP2003092919	A	2003-04-02	JP2003092919
TW558415	B	2003-10-21	TW-558415
JP2006136337	A	2006-06-01	JP2006136337
JP2006136336	A	2006-06-01	JP2006136336
JP3814198	B2	2006-08-23	JP3814198
CN1283137	C	2006-11-08	CN1283137C
JP3927587	B2	2007-06-13	JP3927587
JP3927586	B2	2007-06-13	JP3927586
KR100900010	B1	2009-05-29	KR100900010

Abstract

(JP3927587)

PROBLEM TO BE SOLVED: To provide a screening device capable of increasing screening ability and product quality,

suitably performing "finely selecting classification", increasing a second return cycling amount and effectively performing rachis branch treatment when a threshing amount is much and in the case that the opening is large.

SOLUTION: The screening device of a combine harvester, formed to automatically control the opening of a swinging screening device according to a threshing amount controls so that the opening amount of a chaff sheave 55 to be small when the threshing amount is small and to be large when the threshing amount is large, and the change of the opening corresponding to increase of threshing amount is controlled so as to parabolically increase corresponding to increase of the threshing amount.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

SAMURAGI HITOSHI

MIYAMOTO AKIRA

KIRIHATA TOSHINORI

YAMANAKA TOSHIO

ODA MASAAKI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

YANMAR AGRICULTURAL EQUIPMENT

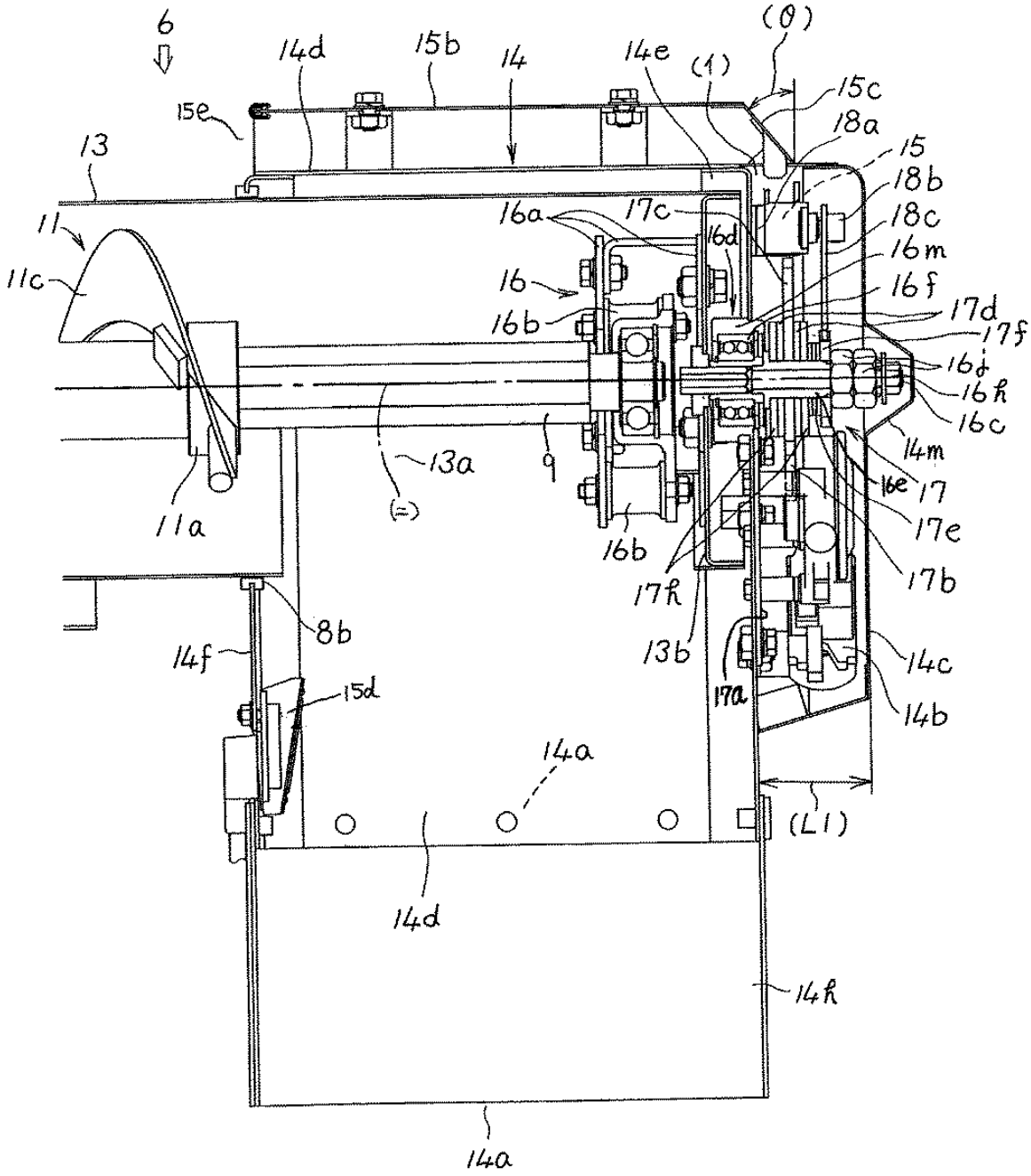
Family 642/667 - FAMPAT - ©Questel

Title

(JP2006000014)

Apparatus for transporting granule

Images



Publication data including kind & date

JP2006000014	A	2006-01-05	JP2006000014
JP4367252	B2	2009-11-18	JP4367252

Abstract

(JP4367252)

PROBLEM TO BE SOLVED: To expand, contract and move a moving transfer cylinder of a transfer unloading cylinder apparatus for transferring and unloading granules to the outside of the machine in the longitudinal direction and to install an unloading cylinder having a grain unloading port for unloading the granules to the outside of the machine so as to freely rotate and move in the circumferential direction in the moving transfer cylinder.

SOLUTION: The subject apparatus for transporting the granules is composed as follows.The moving transfer cylinder of the transfer unloading cylinder apparatus for transferring and unloading the granules to the outside of the machine is installed so as to freely expand, contract and move in the longitudinal direction with an expanding, contracting and moving apparatus.The unloading cylinder having the grain unloading port for unloading the granules to the outside of the machine is installed at the tip of the moving transfer cylinder so as to freely rotate and move in the circumferential direction with a rotating apparatus.The movement of the moving transfer cylinder and the rotation of the unloading cylinder are performed by operation of one rotating switch lever.Furthermore, the rotating switch lever and an operation switch lever for performing

turning operation of a vertical transfer cylinder are installed in a same operation surface at an angle of nearly 45 degrees in the front and rear directions.The transfer unloading cylinder apparatus, and the like, are started with an unloading switch and stopped with the unloading switch or an emergency stop switch or either one thereof.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

KONO KENJI

OKAZAKI HIDENORI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

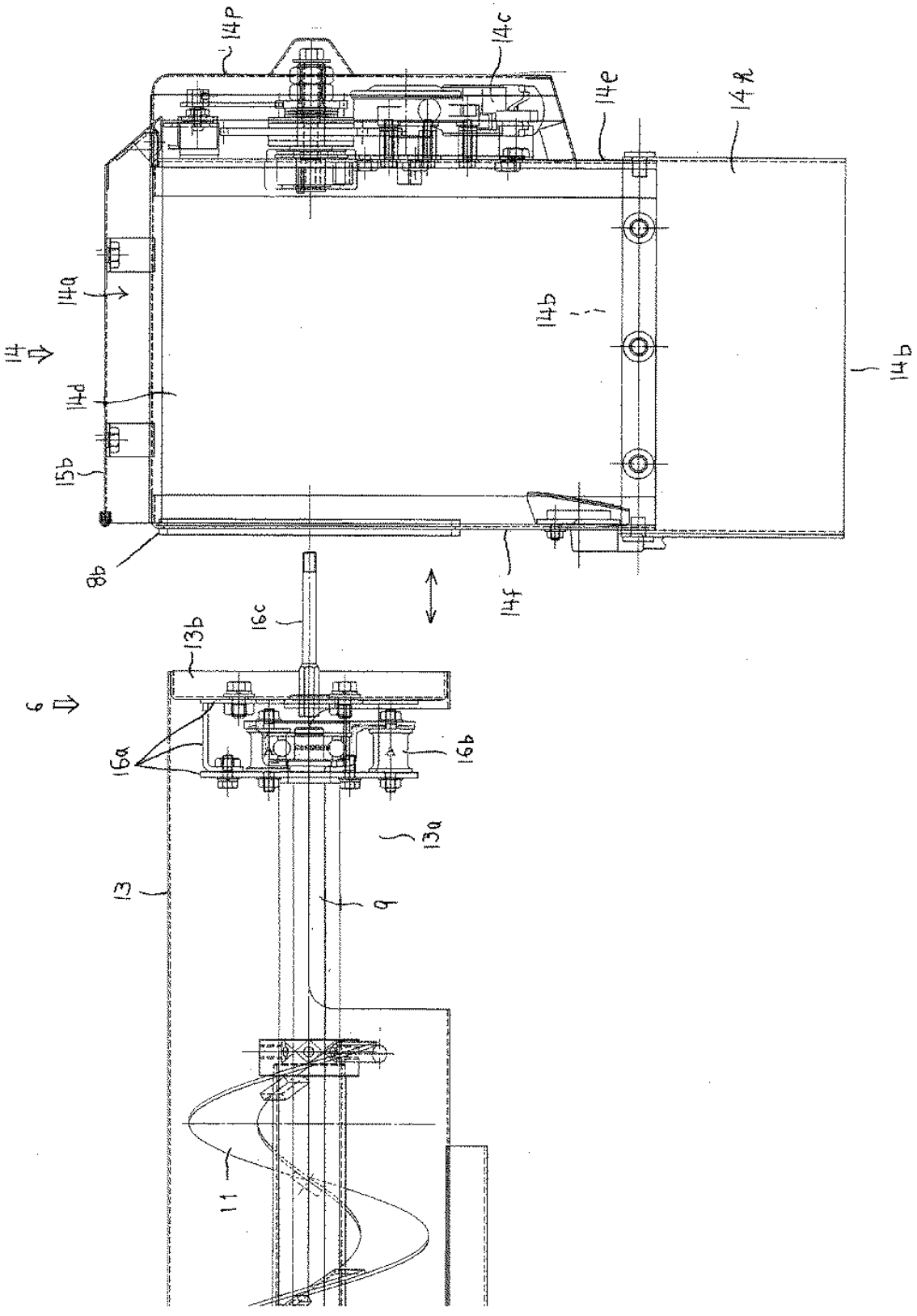
Family 643/667 - FAMPAT - ©Questel

Title

(JP2006094777)

Powder and grain conveyer

Images



Publication data including kind & date

JP2006094777	A	2006-04-13	JP2006094777
JP4396469	B2	2010-01-13	JP4396469

Abstract

(JP4396469)

PROBLEM TO BE SOLVED: To provide a powder and grain conveyer unloading grains to the outside of a machine body from an opening of a mobile conveying cylinder even in happening of a problem and detaching the unloading cylinder with

a grain unloading port of the unloading cylinder device installed on the end part of conveying part of the mobile conveying cylinder of the conveyer which receives powders and grains and conveys and unloads to the outside of the machine, and set to turn by a turning device.

SOLUTION: The invention relates to the powder and grain conveyer comprising the unloading cylinder 14a installed as turnable in circumferential direction by a turning device 17, having an unloading opening 14b which unloads grains to the outside of the machine body, installed on the tip part of the mobile conveying cylinder 13 telescopically installed in the longitudinal direction on the mobile unloading cylinder device 6 for unloading grains to the outside of the machine body, and the conveyer is set to unload the grains to the outside of the machine body from the opening 13a of the mobile conveying cylinder 13 even in happening of a problem on the turning device, etc., and detaching the unloading cylinder device 14.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

KONO KENJI
SATOJI HISAYUKI
OKAZAKI HIDENORI
YAGI KAZUO
TOKI HARUMITSU

Latest standardized assignees - inventors removed

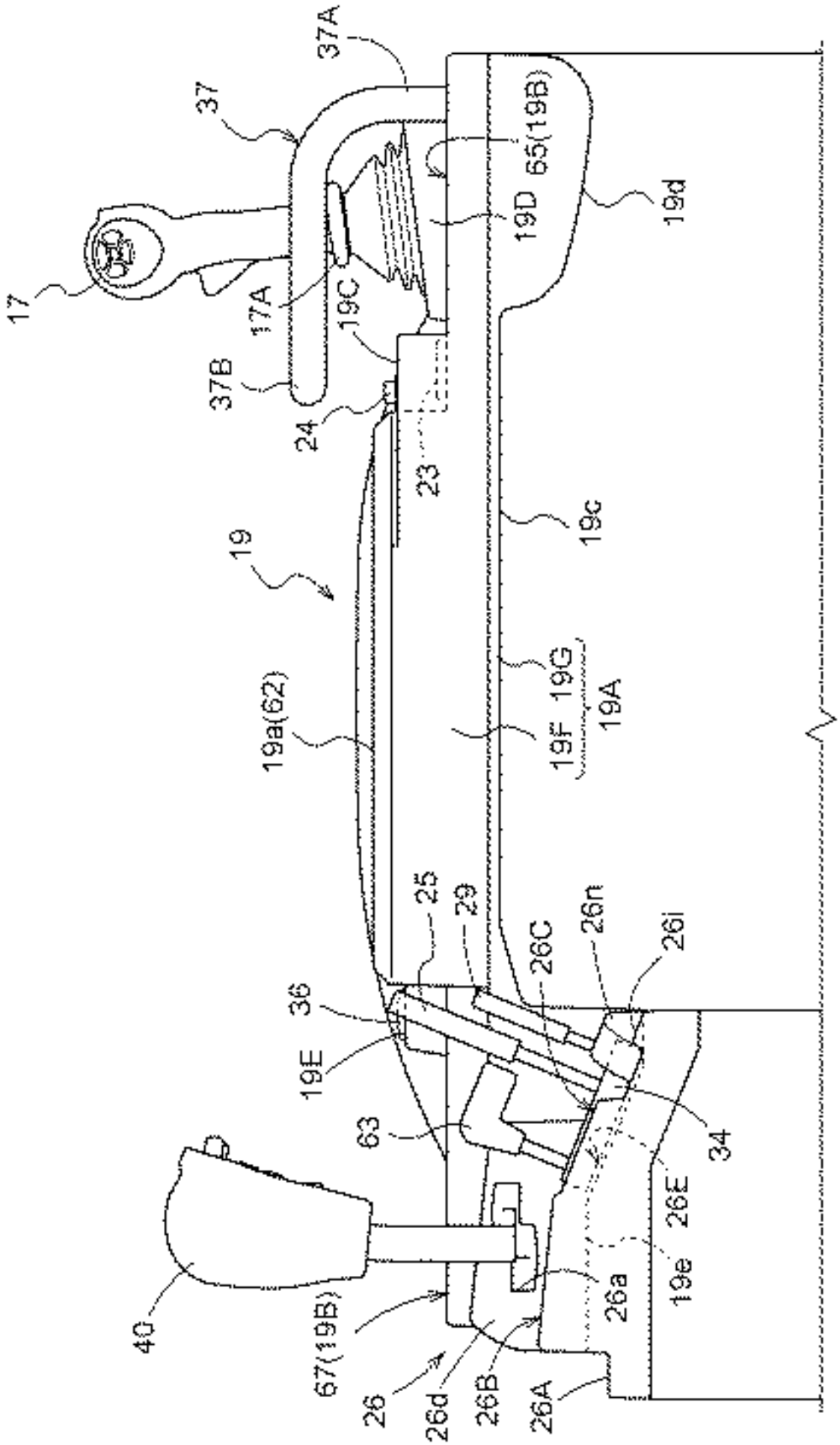
ISEKI AGRICULTURAL MACHINERY

Family 644/667 - FAMPAT - ©Questel

Title

(JP2011024517)
Grain dispensing device

Images



Publication data including kind & date

KR20100105452	A	2010-09-29	KR20100105452
JP2010215058	A	2010-09-30	JP2010215058
JP2011019480	A	2011-02-03	JP2011019480
JP2011024517	A	2011-02-10	JP2011024517
JP2011092034	A	2011-05-12	JP2011092034
JP5101573	B2	2012-12-19	JP5101573
JP5222268	B2	2013-06-26	JP5222268
JP5443879	B2	2014-03-19	JP5443879
KR101718542	B1	2017-03-21	KR101718542

Abstract

(JP5443879)

PROBLEM TO BE SOLVED: To provide a grain dispensing device hardly forming a gap between a grain dispensing port and an dispensing changeover member, and preventing leakage of grains even when the position of the dispensing changeover member is bent slightly downward.

SOLUTION: The dispensing changeover member 90 is composed so as to freely shake and change over to an dispensing-permitting posture for opening the grain dispensing port 15 and an dispensing-preventing posture directed upward from the dispensing-permitting posture to close the grain dispensing port 15.Surface parts 51 and 90a are provided on the inner surface of the grain dispensing port 15 and at the end of the dispensing changeover member 90, and are configured so that the surface part 51 of the grain dispensing port 15 comes into surface contact with the surface part 90a of the dispensing changeover member in the dispensing-preventing posture to prevent the dispensing of the grains from the grain dispensing port 15.

COPYRIGHT: (C)2011,JPO&INPIT

Inventors

MAKIZONO HARUMICHI

Yasuda Kazuo

OTOMUNE TAKUYA

Latest standardized assignees - inventors removed

KUBOTA

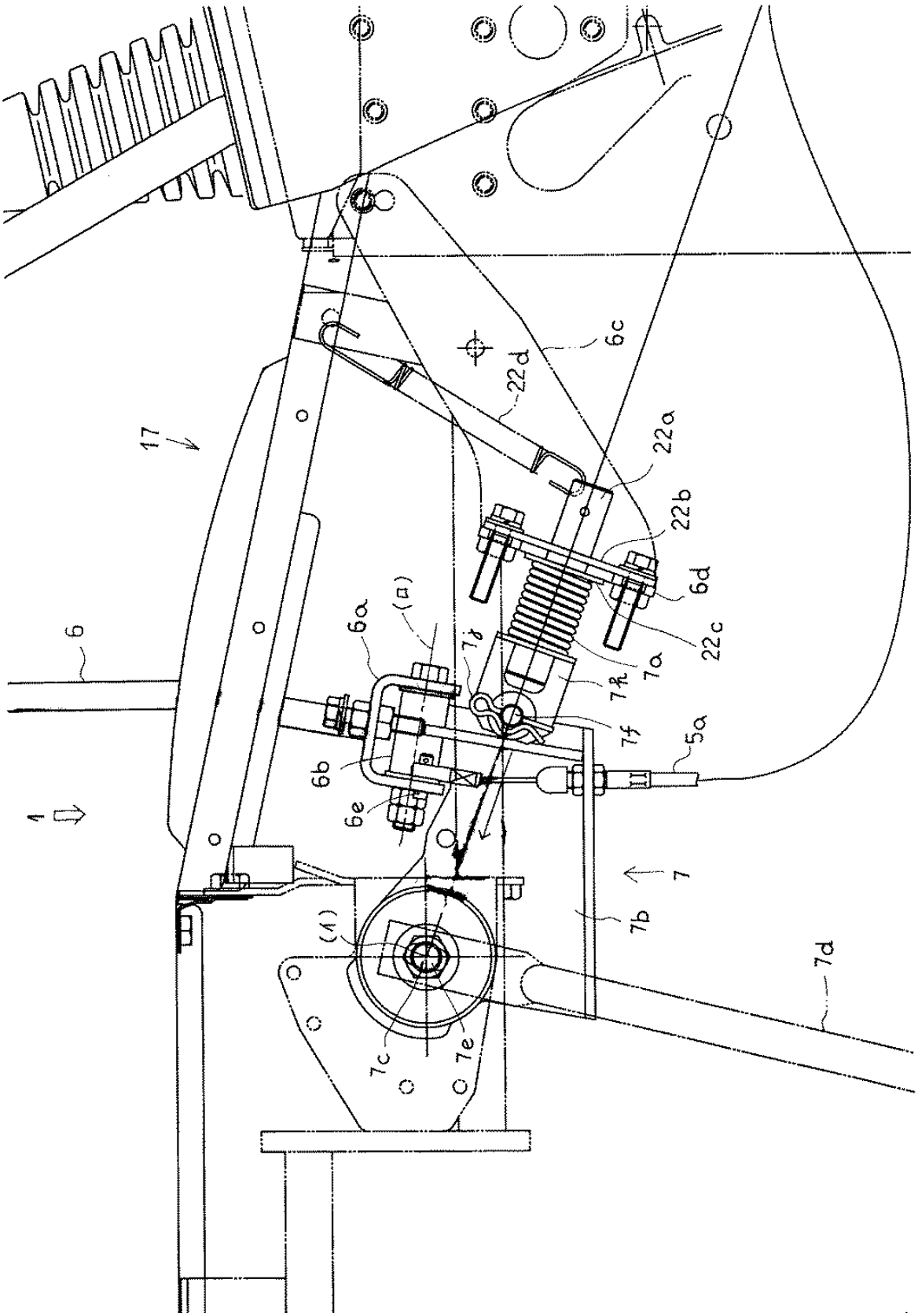
Family 645/667 - FAMPAT - ©Questel

Title

(JP2008049962)

Running system of working vehicle

Images



Publication data including kind & date

JP2008049962	A	2008-03-06	JP2008049962
JP4793173	B2	2011-10-12	JP4793173

Abstract

(JP4793173)

PROBLEM TO BE SOLVED: To reduce an operation load of a main shift lever for shifting running speed, and to prevent natural movement of the main shift lever from a set operating position.

SOLUTION: The running system of a working vehicle comprises a running transmission case 4, a hydraulic continuously variable transmission 5 provided in the transmission case 4, the main shift lever 6 for operating the hydraulic continuously

variable transmission 5, and a main shift arm 7 turnable forward and backward in which the main shift lever 6 is installed freely to turn right and left.The center B of a turn right and left of the main shift lever 7 is provided in front of the center A of a turn forward and backward of the main shift arm 7, and an assist spring 7a is provided in front of the main shift lever 6 so that elastic force of the assist spring 7a is applied to the center A of a turn forward and backward of the main shift lever 7.

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

SATOJI HISAYUKI
GOSHIMA KAZUMI
DOIHARA JUNJI
SAKAMOTO NORIYUKI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

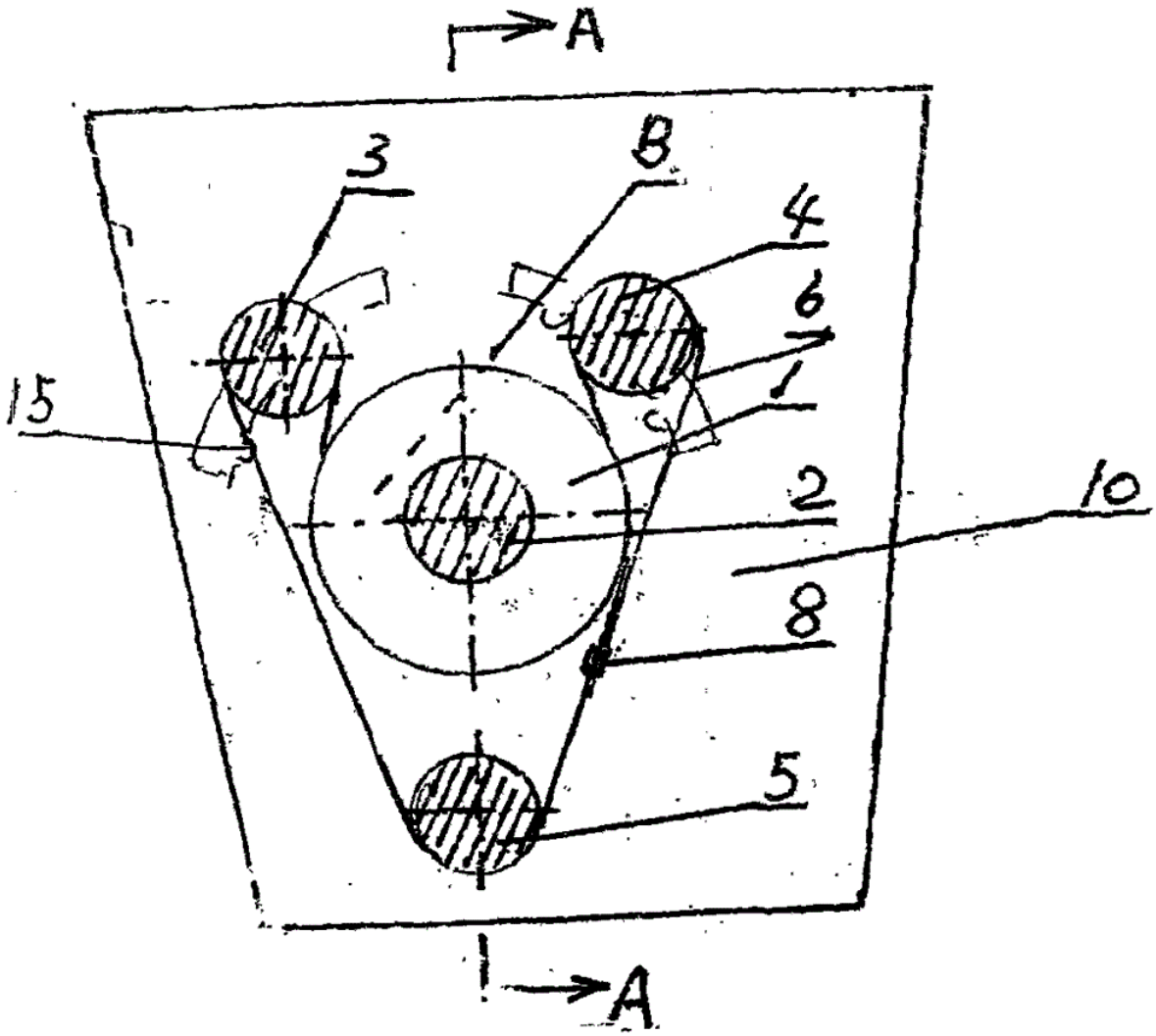
Family 646/667 - FAMPAT - ©Questel

Title

(CN105706592)

High-speed collection and removal precision and fine seeding machine, remote-control seeding machine, collection screening machine, integration harvesting machine, harvesting and seeding machine, vermicelli baking machine and product

Images



Publication data including kind & date

CN105706592 A 2016-06-29 CN105706592

Abstract

(CN105706592)

The invention relates to a high-speed super collection and removal precision and fine seeding machine, a remote-control seeding machine, a collection screening machine, an integration harvesting machine, a harvesting and seeding machine, a vermicelli baking machine and a product.Seed cases or screening cases or vermicelli dripping cases of the machines comprise concave belts and angle-wrapped grooves of pressing wheels, the concave belts are wound on the pressing wheels, front shafts, rear shafts or lower shafts, quantifying machines or screening rakes are arranged on the belts, and holes or eyelets or grooves are formed in the belts.Particles in the cases can be driven by the belts to be continuously turned over when an optional one of the shaft rotates, the particles smaller than the holes are screened out, the particles larger than the holes are raked by the rakes or flow into the quantifying machines in the same directions, a thin vermicelli layer can be formed by vermicelli slurry in each vermicelli dripping case under the effects of the corresponding heated belt and is adhered on the belt, and the thin vermicelli layers can run to reach upper horizontal planes of the front shafts along with ascending of the belts and then are discharged by turning lips.The high-speed super collection and removal precision and fine seeding machine, the remote-control seeding machine, the collection screening machine, the integration harvesting machine, the harvesting and seeding machine, the vermicelli baking machine and the product have the advantages of simple structure, complete functions and capability of obviously improving the productivity.

Inventors

LIANG CHENGYONG

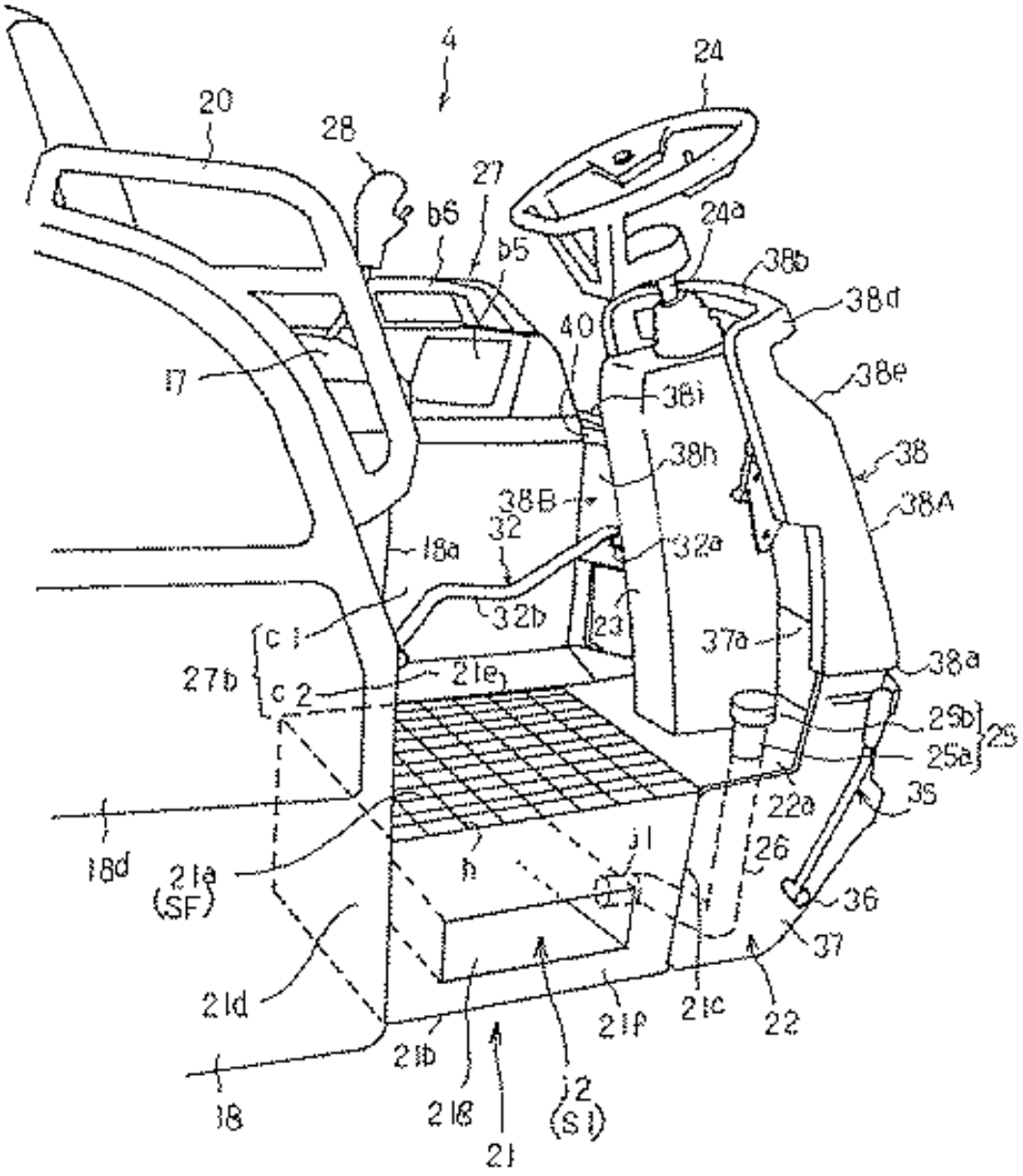
Family 647/667 - FAMPAT - ©Questel

Title

(JP2006056392)

Moving vehicle

Images



Publication data including kind & date

JP2006056392 A 2006-03-02 JP2006056392

Abstract

(JP2006056392)

PROBLEM TO BE SOLVED: To reduce fuel consumption and manufacturing cost by changing a structure at a periphery of a step floor.

SOLUTION: A fuel tank 21 integrally molded by a synthetic resin material is arranged at a front lower part of a driver's seat and the step floor SF blow-molded such that a recession/projection pattern is formed on an upper wall part 21a of the fuel tank is constituted.Recession is formed on a side surface wall part of the fuel tank and is made to an auxiliary step S1S.

COPYRIGHT: (C)2006,JPO&NCIPI

Inventors

IKEDA NAOYA

SATO SHOICHI

ABE MASAZUMI

HIDA HIROSHI

KUBOZOE HISASHI

Latest standardized assignees - inventors removed

SEIREI INDUSTRY

Family 648/667 - FAMPAT - ©Questel

Title

(GB2185872)

Agricultural implement and method of cropping

Images

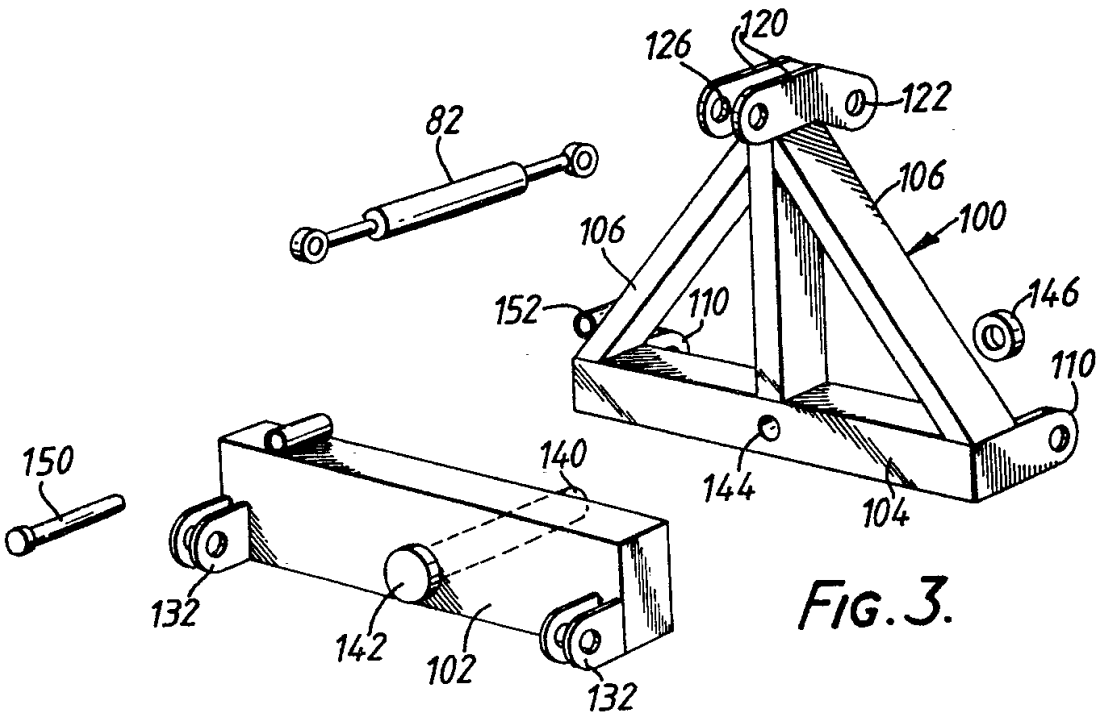


FIG. 3.

Publication data including kind & date

GB8602699	D0	1986-03-12	GB8602699
GB2185872	A	1987-08-05	GB2185872

Abstract

(GB2185872)

A method of cropping by the bed system, for example for cropping sugarbeet, wherein spaced rows of crops are grown with predetermined spacings therebetween, the crops being grown in groups of a predetermined number of rows with a standard spacing between the rows and each adjacent pair of groups being separated by a further space, or tram-line, and wherein virtually all traverse of the ground by implements up to a predetermined stage avoids any contact with, or compaction of, the soil between adjacent rows of any group, and including subsequently carrying out a plant treatment or harvesting step, utilising a tractor and a drawn or pushed implement for that step, wherein the tractor wheels run in said tram-lines but the implement is at least partially supported, e.g. by wheels or skids, running on the ground between pairs of rows of the group, such that the wheels or skids traverse relatively unimpacted ground, whilst the implement is connected to the tractor by a horizontal and forwardly extending pivotal connection which permits the implement to remain relatively horizontal on the bed whilst tilting movements of the tractor occur, as necessary, due to unevenness of the tram- lines.The implement and tractor are connected by a first part 102 connectable to the tractor lower links and a second part 100 connectable to the implement, the two parts being coupled in use by a single fore-and-aft pivot pin 140.Part 100 may be connected to the upper link 82 of the tractor and a locking pin 150 locks the parts together during transport. <IMAGE>

Inventors

MOUNTAIN DAVID JOHN

Latest standardized assignees - inventors removed

HARPLEY ENGINEERING

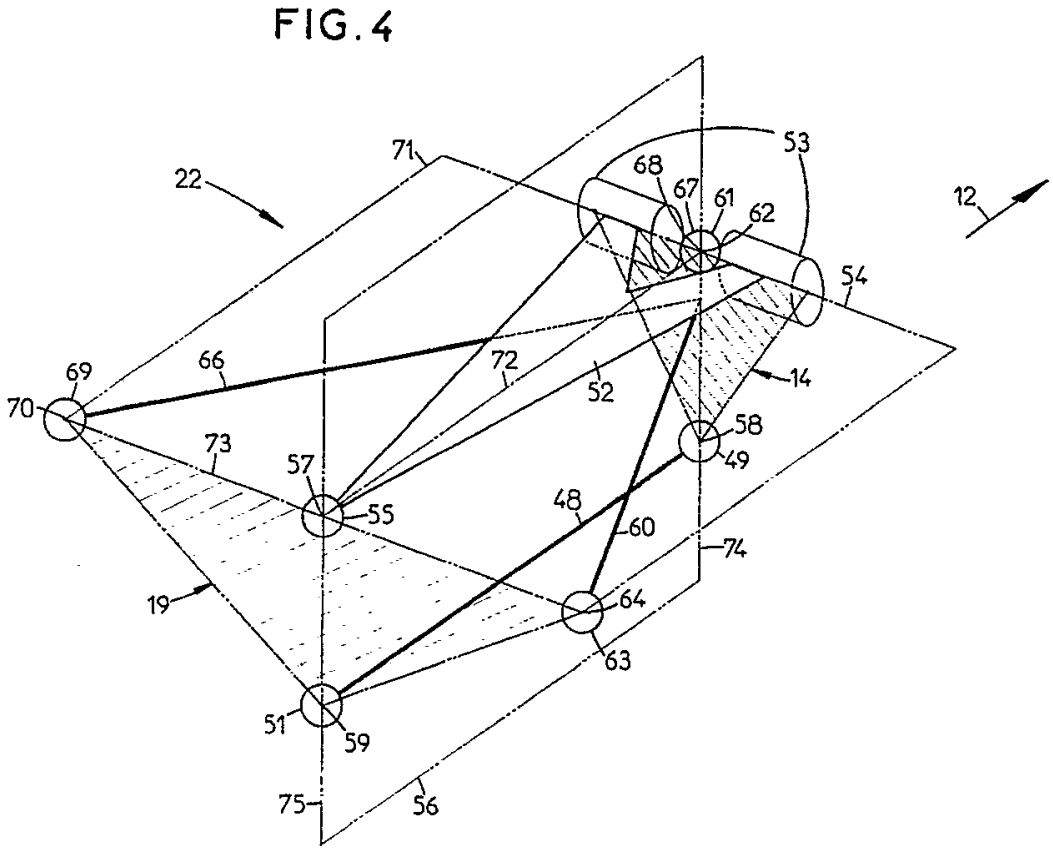
Family 649/667 - FAMPAT - ©Questel

Title

(EP-429381)

Farm machine having a deformable suspension mechanism.

Images



Publication data including kind & date

CA2030765	A1	1991-05-25	CA2030765
EP0429381	A1	1991-05-29	EP-429381
AU6687890	A	1991-05-30	AU9066878
FR2654893	A1	1991-05-31	FR2654893
JPH03180105	A	1991-08-06	JP03180105
FR2654893	B1	1992-02-21	FR2654893
US5107663	A	1992-04-28	US5107663
AU630006	B2	1992-10-15	AU-630006
EP0429381	B1	1995-03-01	EP-429381
AT118966	T	1995-03-15	ATE118966
DE69017362	D1	1995-04-06	DE69017362
ES2070300	T3	1995-06-01	ES2070300
DK0429381	T3	1995-07-10	DK-429381T
DE69017362	T2	1995-10-26	DE69017362
RU2048718	C1	1995-11-27	RU2048718
SU2048718	C1	1995-11-27	SU2048718
CA2030765	C	2000-10-24	CA2030765
JP3204396	B2	2001-09-04	JP3204396

Abstract

(EP-429381)

The present invention relates to an agricultural machine comprising at least one group of working members (19) and a structure (14), to which said group (19) is connected by means of a suspension device (22).The latter is structured in such a way that the group of working members (19) can: - shift upwards and downwards in relation to the structure (14) as a result of the deformation of the deformable quadrilateral formed by the suspension members (48, 52) with said structure (14) and the group of working members (19); - pivot about the straight line (72) <??>In contrast, because of the lateral suspension members (60, 66), the group of working members (19) cannot pivot about the straight line (75).In the invention, it is also possible to ensure the pivoting of the group of working members (19) about the straight line (74) is prevented or at least limited. <IMAGE>

Inventors

WATTRON BERNARD

HELFER ROLAND

Latest standardized assignees - inventors removed

KUHN

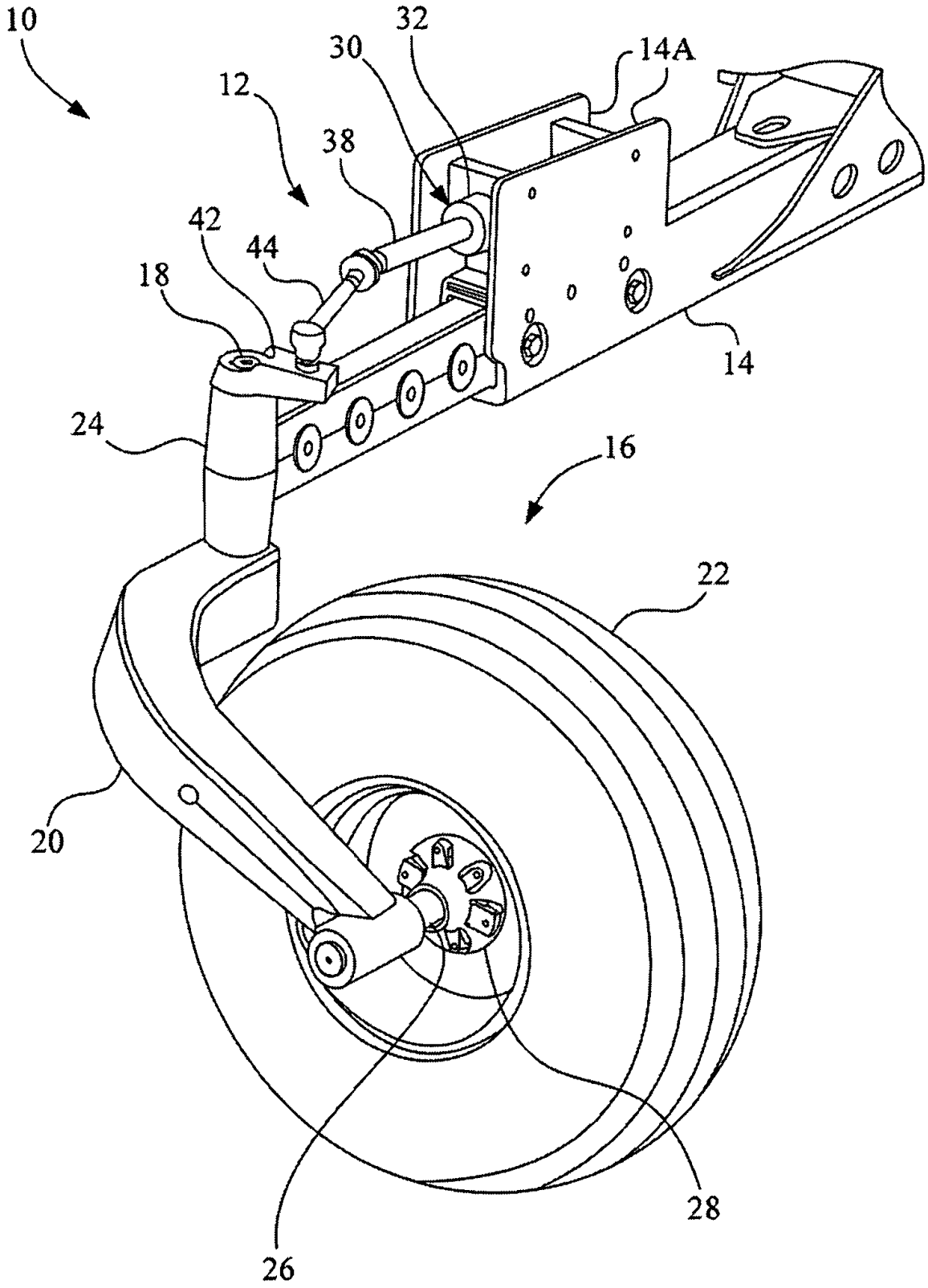
Family 650/667 - FAMPAT - ©Questel

Title

(US8496256)

Steering assist for a rear caster wheel on a work machine

Images



Publication data including kind & date

CA2645693	A1	2009-06-17	CA2645693
US20090152828	A1	2009-06-18	US20090152828
RU2008149648	A	2010-06-27	RU2008149648
UA98619	C2	2012-06-11	UA--98619
RU2488261	C2	2013-07-27	RU2488261
US8496256	B2	2013-07-30	US8496256
CA2645693	C	2016-05-17	CA2645693

Abstract

(US8496256)

A work machine includes a frame, at least one drive wheel carried by the frame, at least one caster wheel assembly carried by the frame, and at least one turn assist arrangement.Each turn assist arrangement is coupled between the frame and a corresponding caster wheel assembly.Each turn assist arrangement is configured to bias the corresponding caster wheel assembly during an operator commanded turn, and to be overridden by forces applied by the ground to the caster wheel assembly.

Inventors

BEBERNES THOMAS DARYL
LANG ERIC RYAN
ROTOLE DAVID VINCENT
DREGER TIMOTHY K

Latest standardized assignees - inventors removed

DEERE

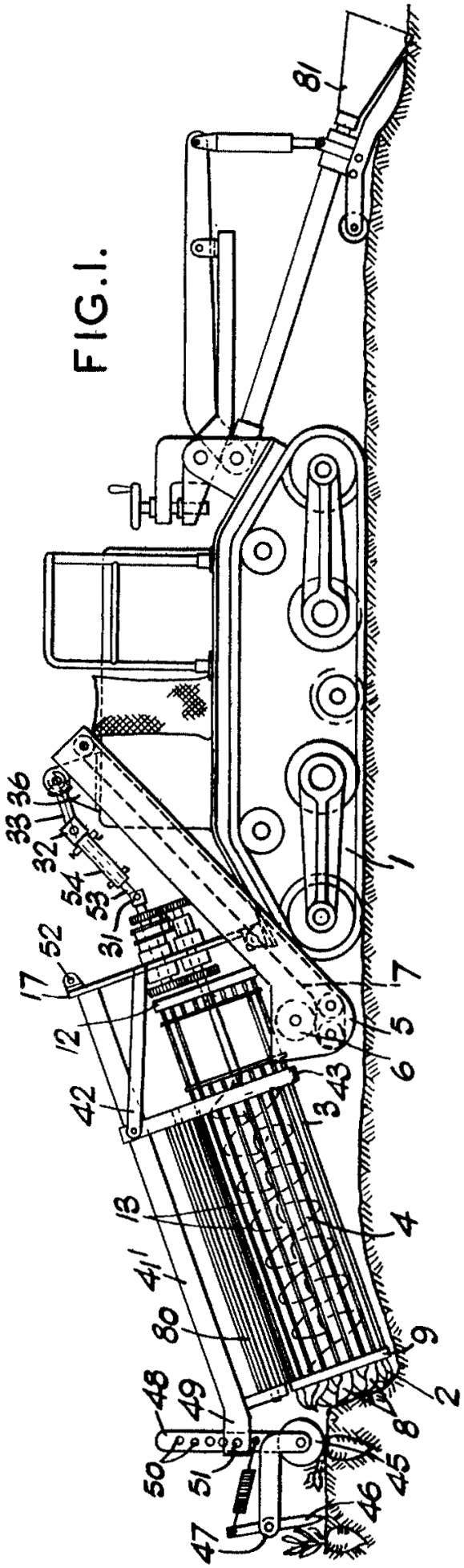
Family 651/667 - FAMPAT - ©Questel

Title

(US2533793)
Rotary plow and screen

Images

FIG. 1.



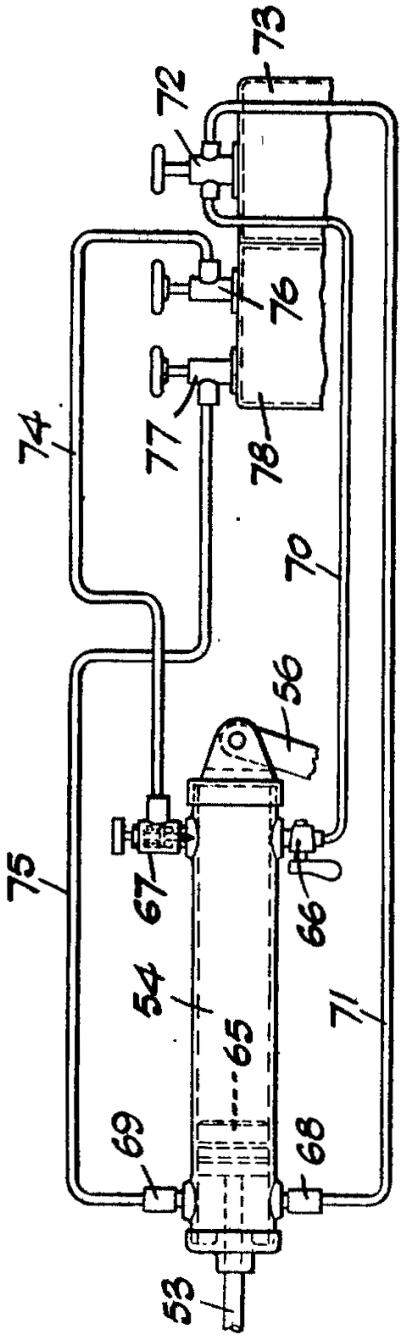


FIG. 4.

Inventor
Harry W. Hamlett
By
Atty.

Publication data including kind & date

US2533793 A 1950-12-12 US2533793

Inventors

WILLIAMS HAMLETT HARRY

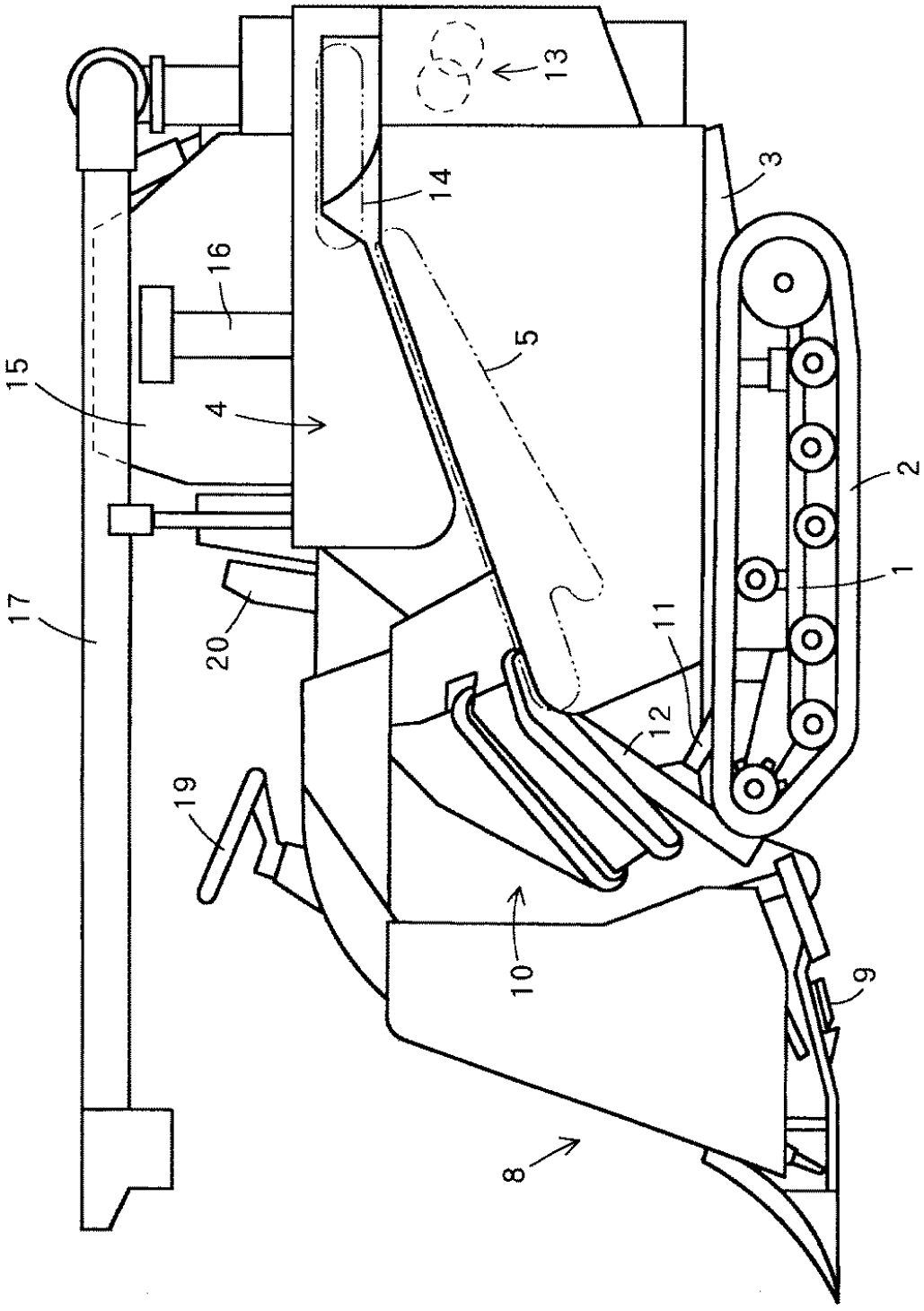
Family 652/667 - FAMPAT - ©Questel

Title

(JP2001161110)

Crawler traveling car

Images



Publication data including kind & date

JP2001161110	A	2001-06-19	JP2001161110
JP4065362	B2	2008-03-26	JP4065362

Abstract

(JP4065362)

PROBLEM TO BE SOLVED: To produce an improvement, etc., in both the steering functions and the driving operating efficiency.SOLUTION: This crawler traveling car is characterized as internally installing a speed changing mechanism (124) and a steering mechanism (118) for controlling a speed changing member (25) and a steering member (28) in the same case (71) and further providing a single steering lever (19) in the case (71) in the crawler traveling car equipped with the speed change member (25) for driving a left and a right traveling crawlers (2) at the same speed in the same direction and the steering member (28) for driving the left and right traveling crawlers (2) at the same speed in the opposite directions.

Inventors

HIDAKA SHIGEMI

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

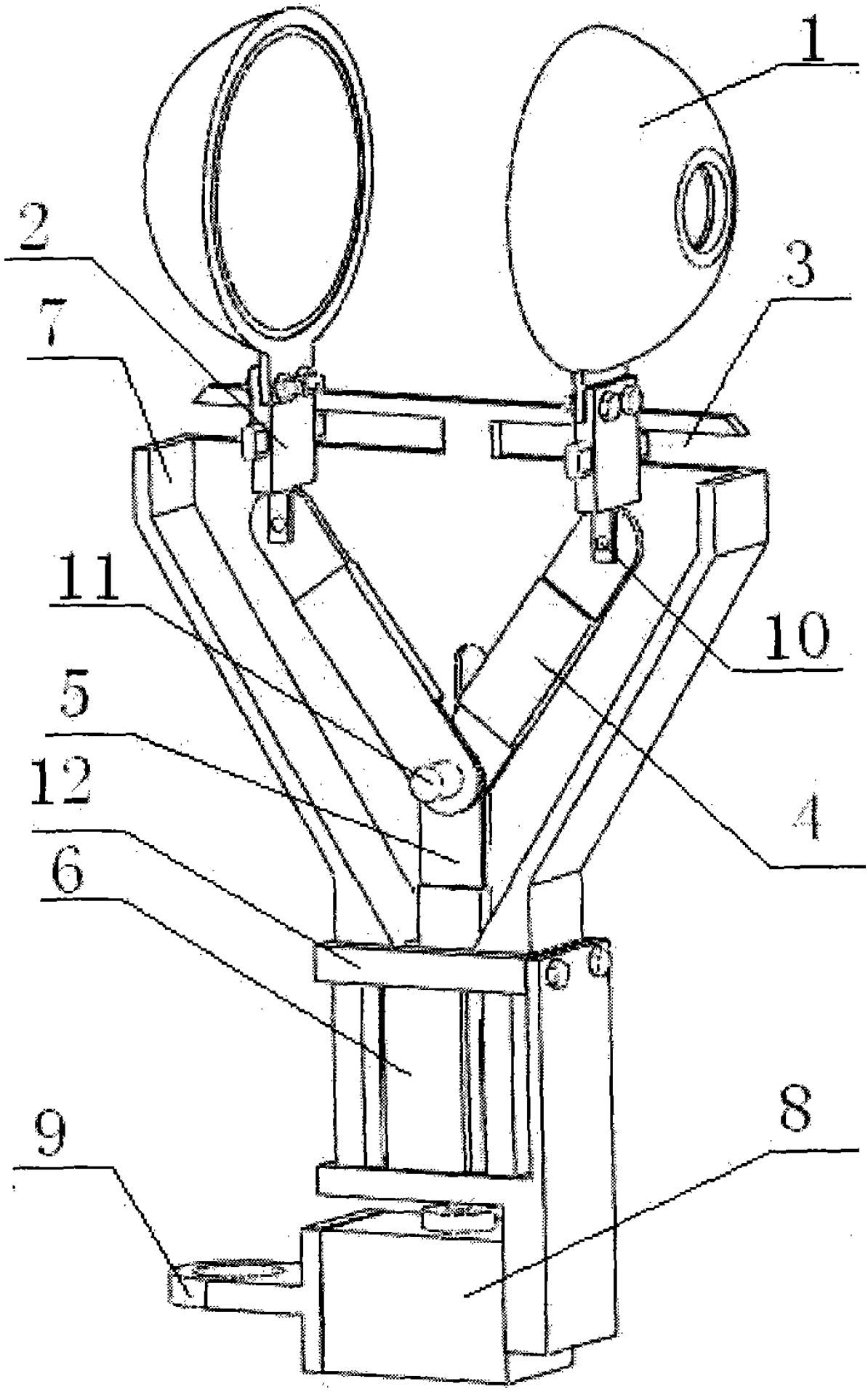
Family 653/667 - FAMPAT - ©Questel

Title

(CN103029132)

Tail end executing mechanism and picking method for spherical fruit automatic picker

Images



Publication data including kind & date

CN103029132	A	2013-04-10	CN103029132
CN103029132	B	2016-03-16	CN103029132B

Abstract

(CN103029132B)

The invention discloses a tail end executing mechanism and a picking method for a spherical fruit automatic picker.The tail end executing mechanism mainly comprises a pneumatic clamping mechanism, a sensor and a control switch, wherein the sensor is used for monitoring and controlling in real time; and a pressure sensor and a sponge and rubber elastic material are arranged in a bowl-shaped clamping finger of the pneumatic clamping mechanism.A piston shaft of a double-action micro cylinder drives a rotating shaft II through a push rod to linearly reciprocate along a vertical chute on the side surface of a bracket in the vertical direction, and then a pulling fork is driven to move and drives a slide block to linearly reciprocate in a horizontal chute in the top of the bracket, so that spherical fruits are grasped and released.Meanwhile, due to the retraction of a pneumatic slide table along the axial direction of a mechanical arm, the micro cylinder and the mechanism on the micro cylinder can linearly reciprocate as a whole along the direction of the mechanical arm, and then the spherical fruits are picked.By the tail end executing mechanism, the spherical fruits can be automatically grasped, and the operation efficiency of picking the spherical fruits can be improved.The tail end executing mechanism has relatively high popularization and application value.

Inventors

ZHAO YOULIANG
PAN GUANTING
WANG ZHUANWEI
CHEN JUN
HE SHAONAN
LIU ZHIJIE

Latest standardized assignees - inventors removed

NORTH WEST AGRICULTURE & FORESTRY UNIVERSITY

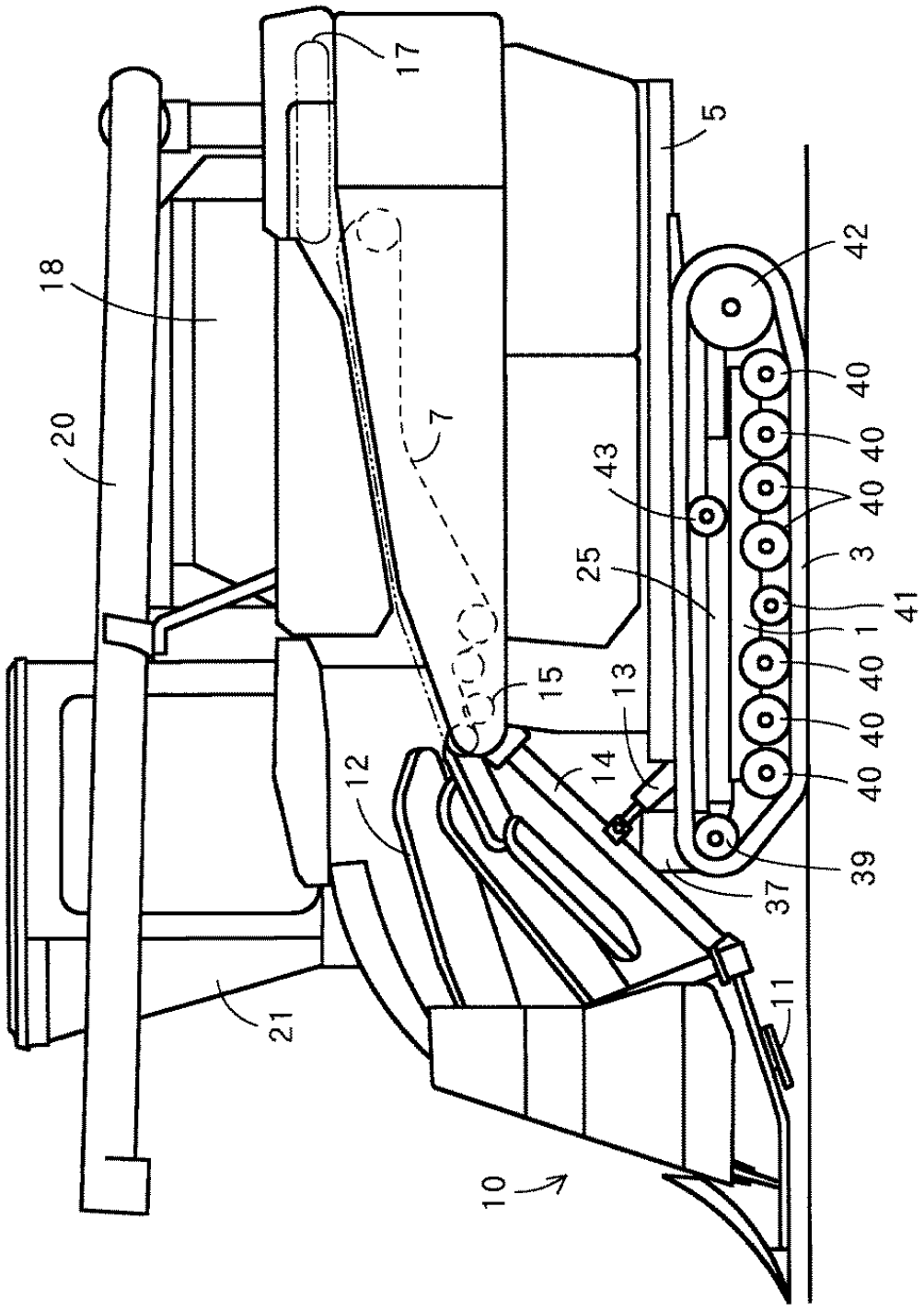
Family 654/667 - FAMPAT - ©Questel

Title

(JP2003040158)

Moving agricultural machine

Images



Publication data including kind & date

JP2003040158	A	2003-02-13	JP2003040158
JP4727854	B2	2011-07-20	JP4727854

Abstract

(JP4727854)

PROBLEM TO BE SOLVED: To stably keep a function of a hoisting control mechanism by improving maintainability property in a combine having the hoisting control mechanism for modifying lateral tilting of a moving agricultural machine.SOLUTION: In the combine, right and left truck frames 1 and 2 are liftably supported on the moving agricultural

machine via hoisting arms 31 and 32, and a tension roller 42 having stretched running crawlers 3 and 4 is supported adjustably in tension by the truck frames 1 and 2 via idler links 47 and 48.An idler frame 46 having the tension roller 42 is telescopically connected to a tension frame 44, and is indirectly connected to the tension frame 44 via a tension bolt 45 and a nut 58.

Inventors

KAJIWARA KOICHI

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

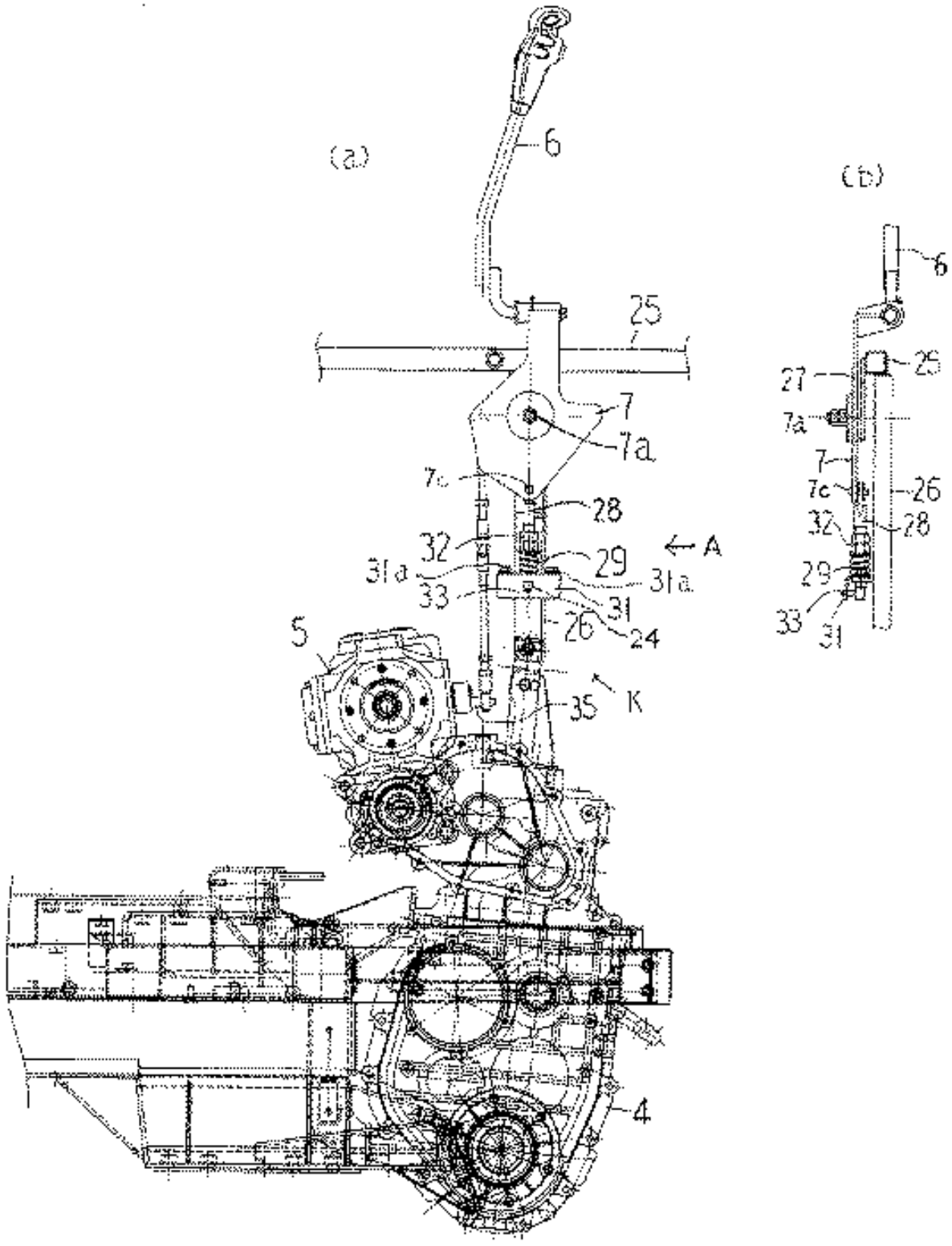
Family 655/667 - FAMPAT - ©Questel

Title

(JP2011230622)

Working vehicle

Images



Publication data including kind & date

JP2011230622 A 2011-11-17 JP2011230622

Abstract

(JP2011230622)

PROBLEM TO BE SOLVED: To provide a traveling transmission of a working vehicle, such as a combine, equipped with an assisting device of shift lever operation power for safely assisting the operation power to a shift lever without reducing a spring load.SOLUTION: A movable body 7, a braking device 29, and the like of a shift lever 6 are mounted on the body of the working vehicle so that the support shaft 7a of the movable body 7, the working position of the braking device 29 on the movable body side, and the working positions of the body of a working vehicle 1 on the sides of the fixing members 25 and 26 are aligned in a line when the shift lever 6 is at the neutral position, thereby preventing the neutral position of the shift

lever 6 from being displaced from the position where the compression spring 29 exhibits the maximum pressing force.In addition, return to the neutral position can be prevented as far as the middle position of the full stroke range of the shift lever 6 by the braking device 29 or the like, and no pressing force to return the shift lever 6 to the neutral position is generated when the shift lever 6 moves beyond the middle position, so that the shift lever 6 can be operated in a free state.

Inventors

MORIMOTO HIROYUKI

AKIYAMA TAKAFUMI

KOBAYASHI ISAO

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

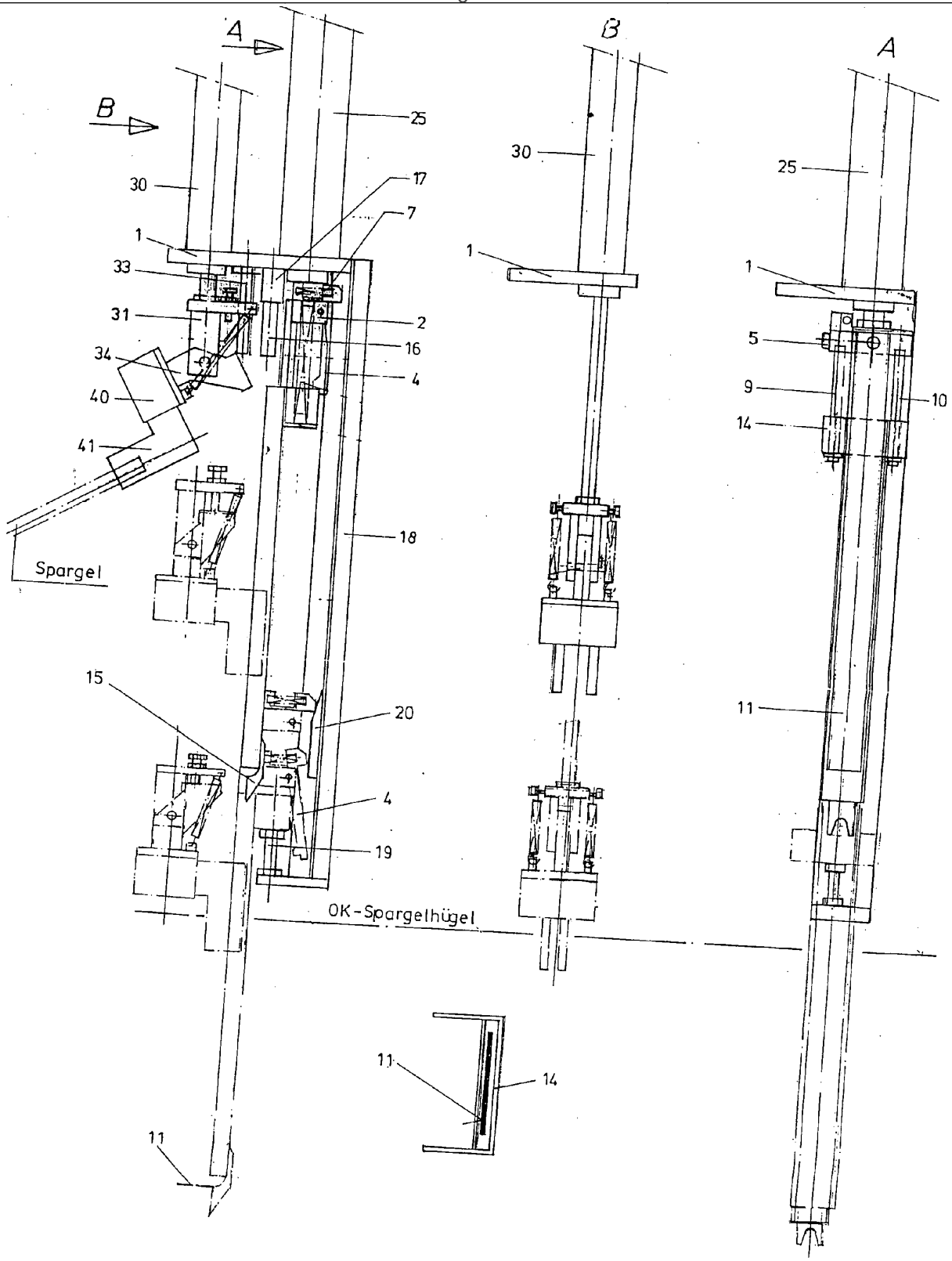
Family 656/667 - FAMPAT - ©Questel

Title

(DE102005051032)

Asparagus harvesting unit has laser pointer mounted under plate, on which piston and cylinder units are mounted, pointer being used to locate and swiveling blade on harvesting unit to cut base of stem, gripper then lifting it out of earth

Images



Publication data including kind & date

DE102005051032	A1	2007-04-26	DE102005051032
DE102005051032	B4	2009-04-16	DE102005051032
DE202005021701	U1	2009-08-13	DE202005021701

Abstract

(DE102005051032)

The asparagus harvesting unit is tractor mounted and controlled by the driver.It has a laser pointer (16) mounted under a plate (1), on top of which piston and cylinder units (25, 30) are mounted.The pointer is used to locate the plants and a harvesting unit pushed into the earth.A swiveling blade (11) then cuts the base of the stem and a gripper (40, 41) lifts it out of the earth.

Inventors

SCHMIDT HEINZ

SCHMIDT DETLEF

Latest standardized assignees - inventors removed

SCHMIDT HEINZ

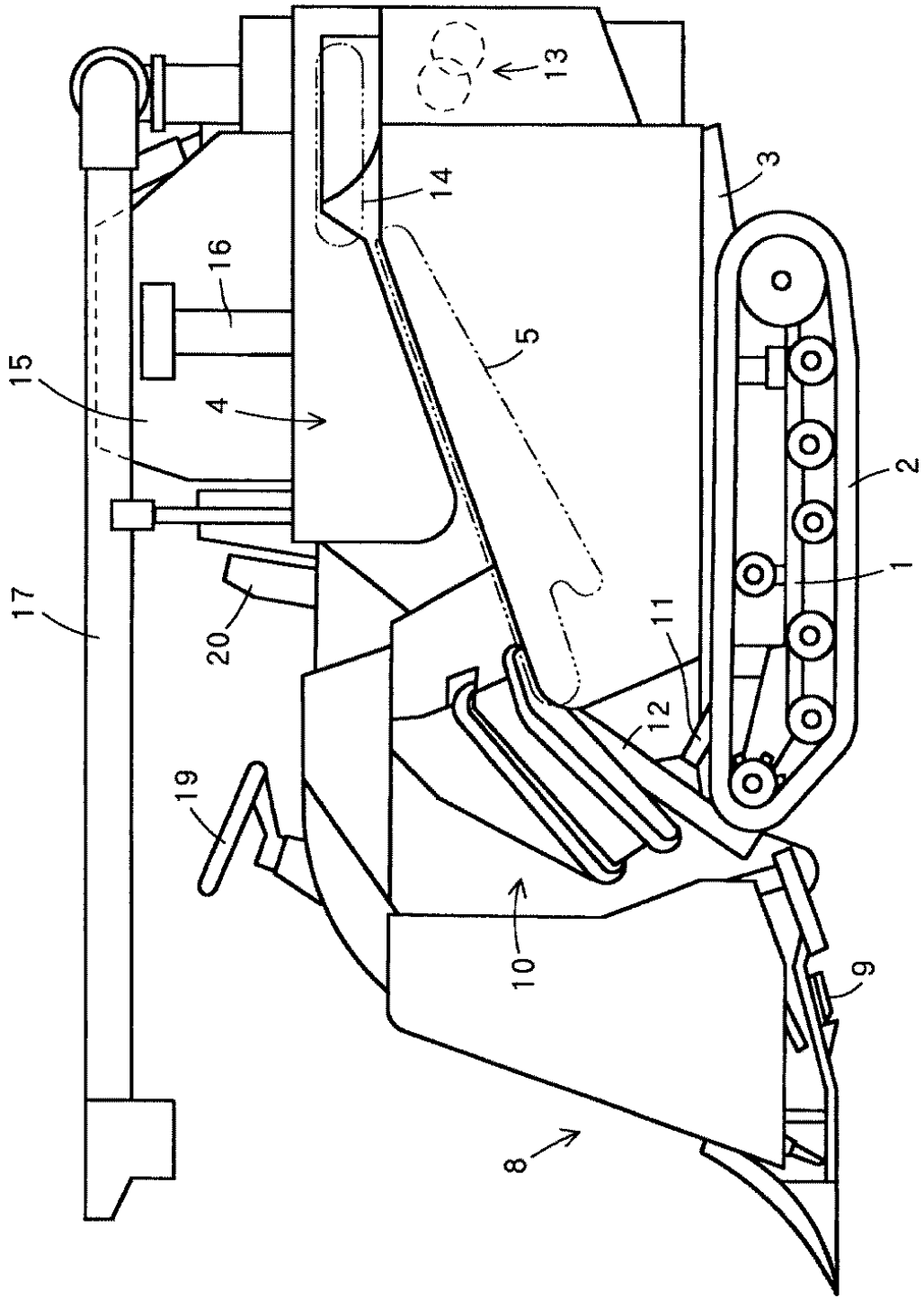
Family 657/667 - FAMPAT - ©Questel

Title

(JP2000177619)

Movable agricultural machinery

Images



Publication data including kind & date

JP3028482 B1 2000-04-04 JP3028482

JP2000177619	A	2000-06-27	JP2000177619
JP2000175546	A	2000-06-27	JP2000175546
JP4065359	B2	2008-03-26	JP4065359

Abstract

(JP4065359)

PROBLEM TO BE SOLVED: To quickly perform a turn and improve the turning performance by providing such a structure as to be capable of freely selecting the control for interlocking each mechanism and the control for independently actuating it.SOLUTION: In this movable agricultural machine, a driving force is transmitted to lateral traveling crawlers through a speed change member capable of continuously varying the traveling speed by the operation of a main gear shift lever that is a traveling speed change lever, and a steering member is operated by a steering wheel to continuously vary the difference in driving speed between the lateral traveling crawlers.In this agricultural machine, the speed change member is connected to the main gear shift lever through a deceleration output shaft 178 that is a cooperating route for reducing the vehicle speed in proportion to the operation quantity of the steering wheel, or the speed change member is connected to the main gear shift lever through a direct drive output shaft 179 that is a third route different from the deceleration output shaft 178, whereby the deceleration output shaft 178 and the direct drive output shaft 179 are properly used.Further, this agricultural machine is constituted so that the control for interlocking the steering mechanism to the transmission mechanism and the control for independently operating each mechanism are selectable.

Inventors

HIDAKA SHIGEMI

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

SEIREI INDUSTRY

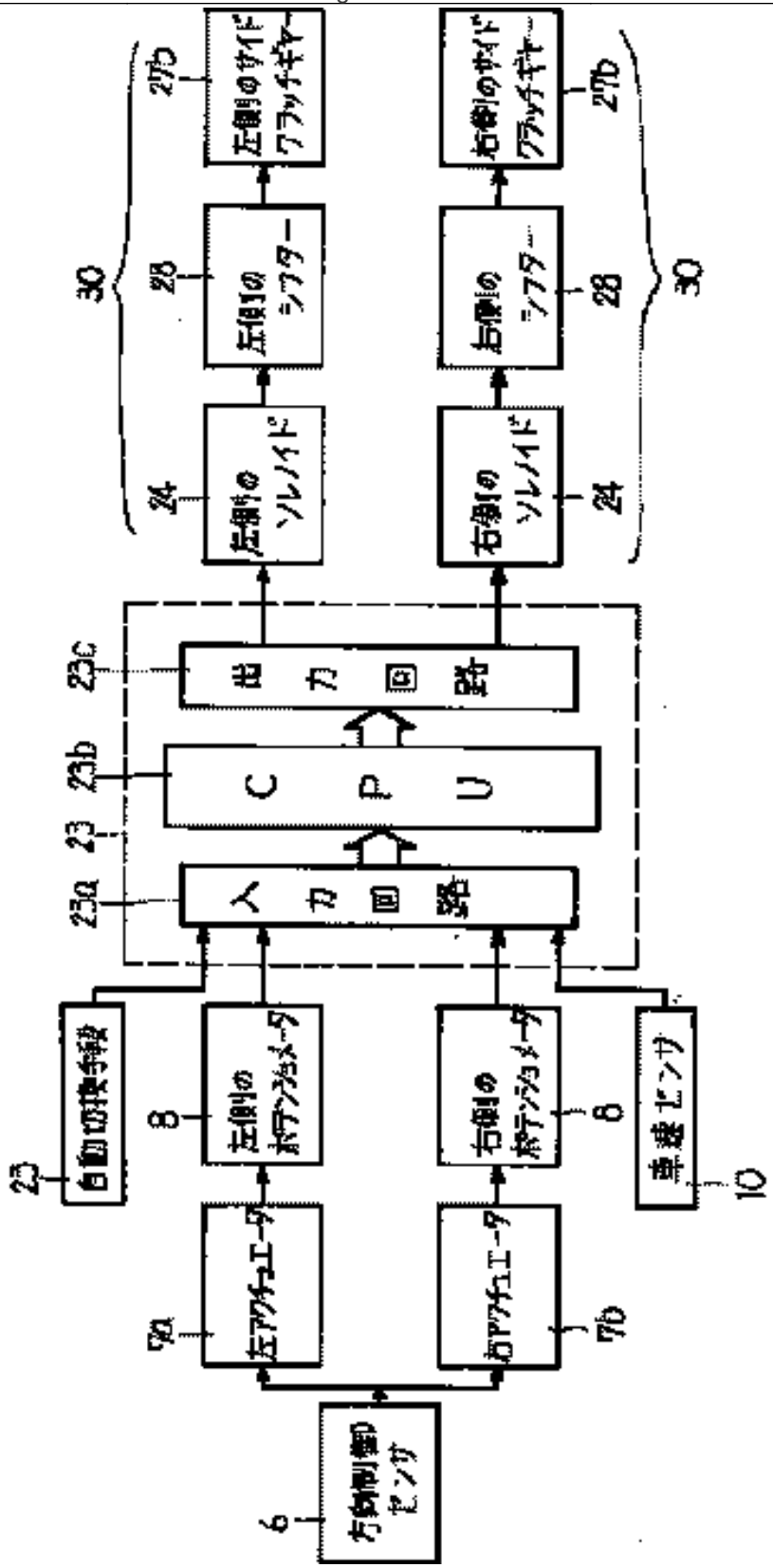
Family 658/667 - FAMPAT - ©Questel

Title

(JP2002000009)

Traveling direction-controlling apparatus in combine

Images



Publication data including kind & date

JP2002000009 A 2002-01-08 JP2002000009

Abstract

(JP2002000009)

PROBLEM TO BE SOLVED: To make it possible to surely control a traveling direction in its automatic control during reaping harvesting work of standing grain culms.SOLUTION: When either of the right and left actuators 7a, 7b of a direction controlling sensor 6 for detecting standing grain culms becomes not to detect any grain culm, the traveling direction of the traveling apparatus 11 is changed and controlled.On this occasion, the output time to a direction controlling apparatus 30 which changes the traveling direction is controlled among a long time, a medium time and a short time by a controller 23 according to the speed of a traveling vehicle detected by a vehicle speed sensor 10 for detecting the traveling speed of the

traveling apparatus 11.

Inventors

YUBIHARA HIROHIKO

TAKEKATA TAKESHI

Latest standardized assignees - inventors removed

ISEKI AGRICULTURAL MACHINERY

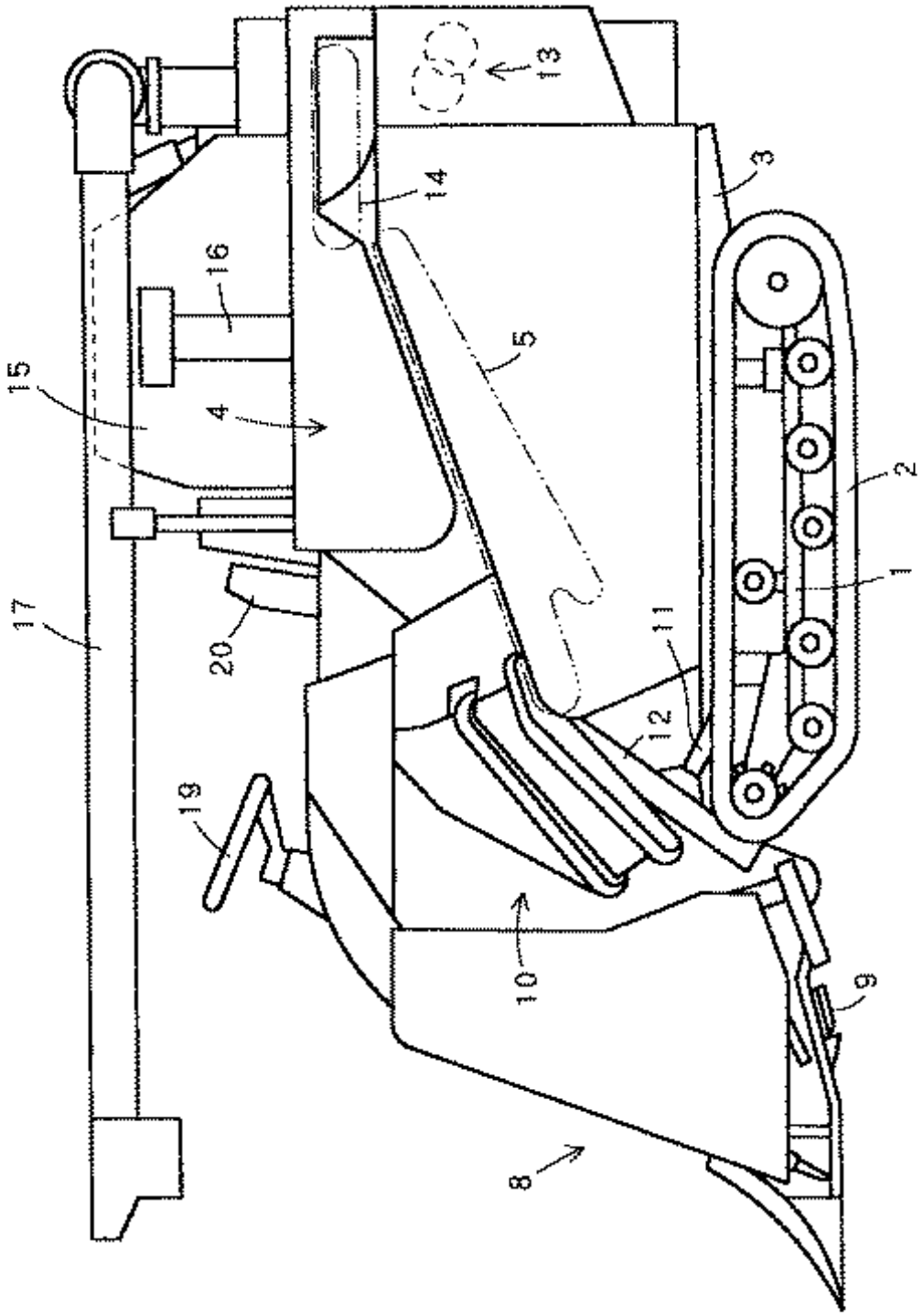
Family 659/667 - FAMPAT - ©Questel

Title

(JP2000128016)

Moving agricultural machine

Images



Publication data including kind & date

JP2000128016	A	2000-05-09	JP2000128016
JP3946888	B2	2007-07-18	JP3946888

Abstract

(JP3946888)

PROBLEM TO BE SOLVED: To improve shifting and steering performance and the like and improve operability such as in

assembly and maintenance.SOLUTION: This moving agricultural machine comprises a differential mechanism which transmits driving force of an engine to left and right travelling crawlers, a transmission member which continuously changes the driving speed of the left and right travelling crawlers, and a steering member which continuously changes the difference in driving speed of the left and right travelling crawlers.In the moving agricultural machine, an input connecting body 96 is detachably secured to a steering input member 95 rotated by a steering operation tool, and a transmission coupling member 121 for connecting to the transmission member and a steering coupling member 115 for connecting to the steering member are connected to the input connecting body 96.

Inventors

HIDAKA SHIGEMI

MIYAMOTO AKIRA

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

SEIREI INDUSTRY

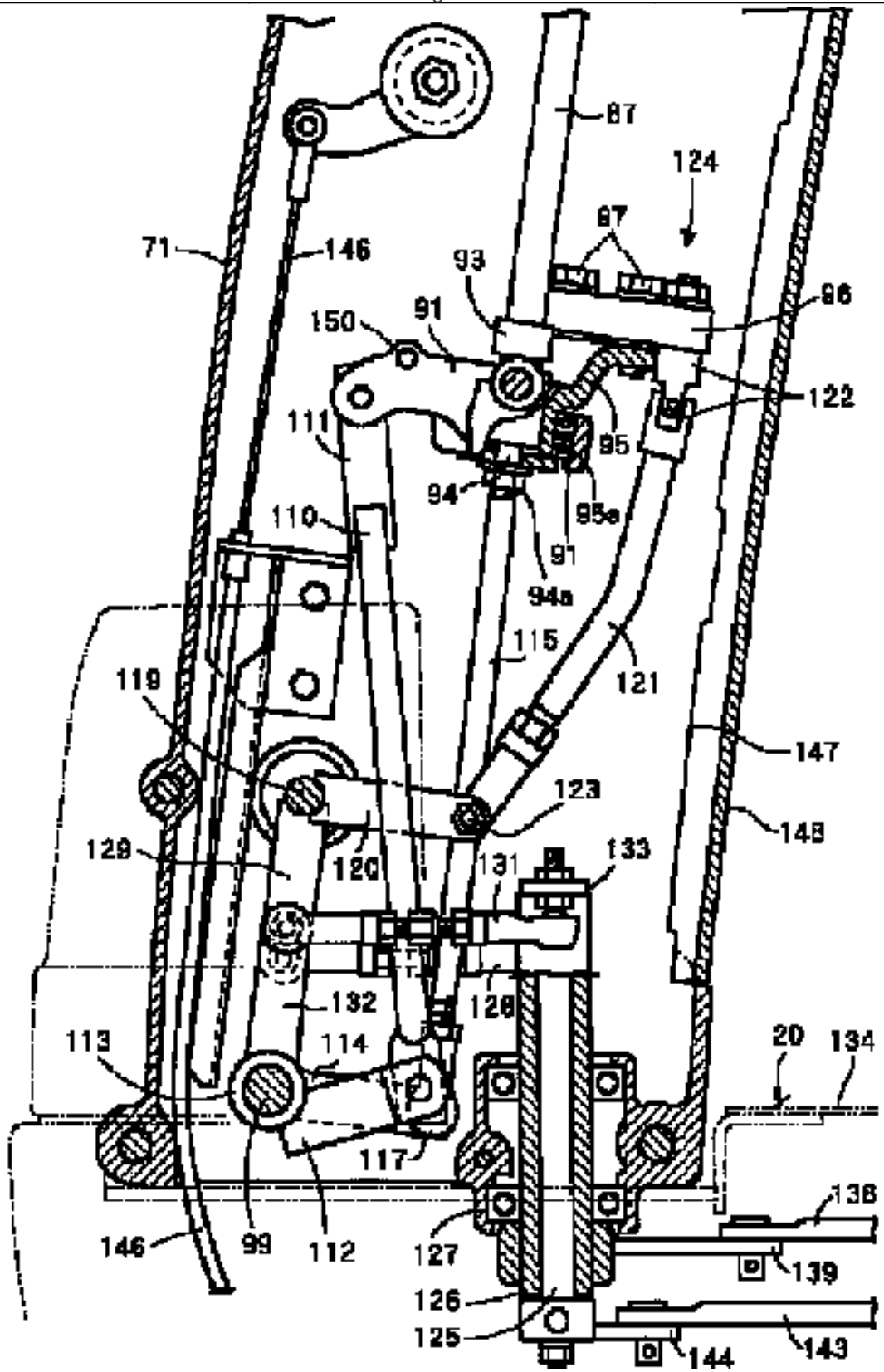
Family 660/667 - FAMPAT - ©Questel

Title

(JP2000130579)

Mobile agricultural machine

Images



Publication data including kind & date

JP2000130579 A 2000-05-12 JP2000130579

Abstract

(JP2000130579)

PROBLEM TO BE SOLVED: To improve the reliability of shift operation while improving the fitting accuracy, reducing the rattle, improving strength and reducing the operation resistance by pivotally supporting a shift input shaft to be tilted by a shift operating tool with a steering column.SOLUTION: A steering member for continuously changing a difference of the driving speed between a right and a left crawlers is operated by operating a steering wheel provided in an upper end of a steering input shaft 87 extended in vertical direction pivotally supported in a steering column 71 and a transmission 124 for interlocking a shift input shaft 91 to be rotated by a main shift lever with a shift member is provided.A steering mechanism

for interlocking a steering input shaft 87 with the steering member and including a connecting member 115 is provided, and the quantity of steering of the steering mechanism is changed in proportion to the quantity of the operation of the transmission 124.A steering input member 95 is fitted to the steering input shaft 87 freely to be rotated around a core of the shift input shaft 91, and the steering input member 95 is interlocked with a shift output member 120 provided in a shift output shaft 119 through a shift connecting means 121.

Inventors

HIDAKA SHIGEMI

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

SEIREI INDUSTRY

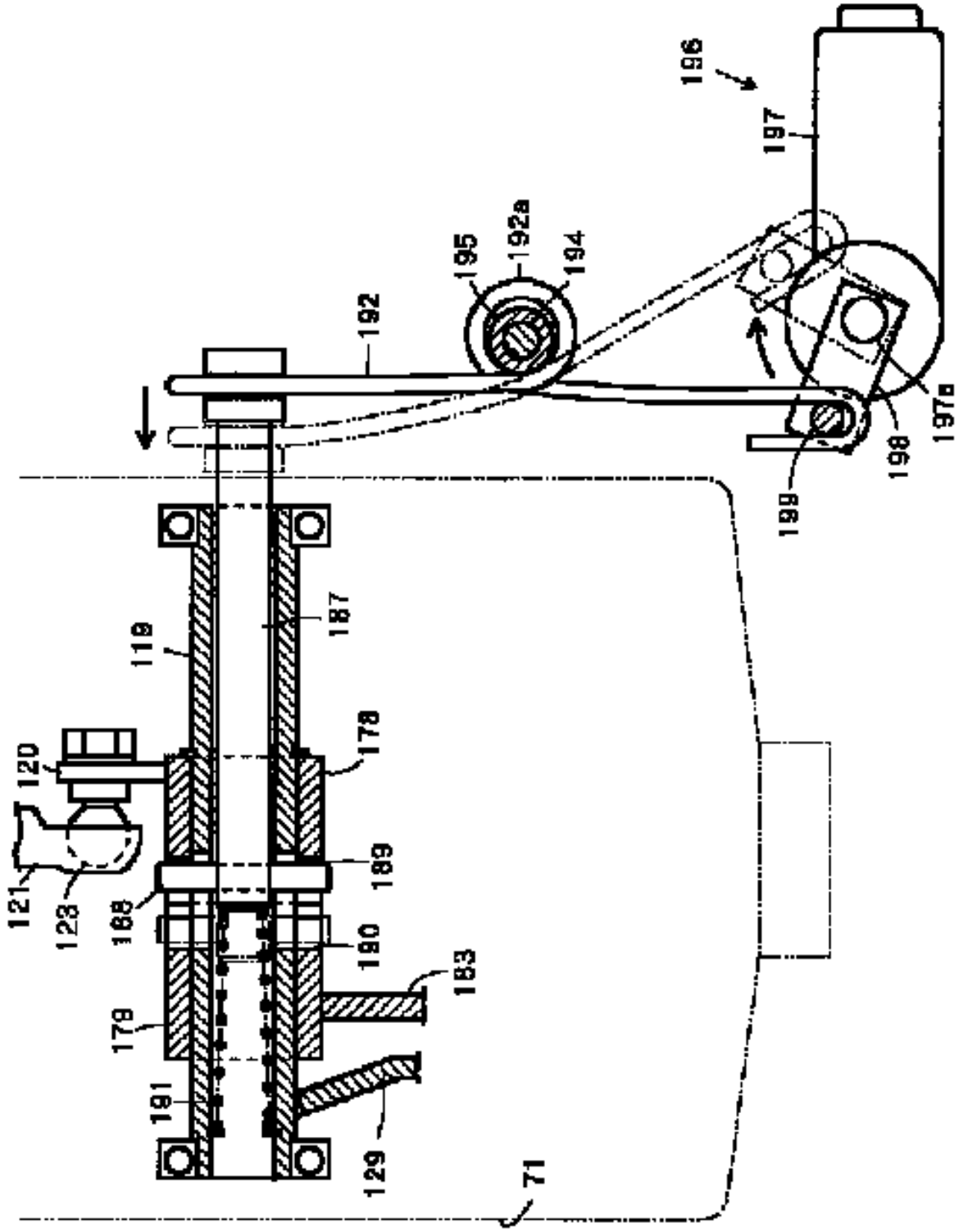
Family 661/667 - FAMPAT - ©Questel

Title

(JP2001048042)

Moving agricultural machine

Images



Publication data including kind & date

JP2001048042 A 2001-02-20 JP2001048042

Abstract

(JP2001048042)

PROBLEM TO BE SOLVED: To easily switch a machine to an optimum revolving characteristic even in a mixed rice field of dry rice fields and wet rice fields by performing a switching operation for a revolution deceleration means for decelerating speed in proportion to a manipulated variable of a steering handle and a revolution non-deceleration means for performing a gear shift by only an operation of a traveling gear shift lever via a buffer member.SOLUTION: A gear shift operation output from a main gear shift lever is divided into two.The one gear shift operation output is transmitted as a speed deceleration output according to a handle angle from an output member 120 to a gear shift link 129 via a deceleration

output shaft 178 on a gear shift output shaft 119 and the other gear shift operation output is transmitted from an output link 183 to the gear shift link 129 via a directly connected output shaft 179 and either one of the gear shift operation outputs is selected on a gear shift output shaft 119.A deceleration output shaft 178 to be a revolution deceleration means and the directly connected output shaft 179 to be a revolution non-deceleration means performing a gear shift, regardless of a steering handle, are switched by a switching spool 187.In a switching operation system connecting an actuator 196 such as an electric motor 97 to be a switching operation means and the switching spool 187, a buffer member 192 is interposed.

Inventors

HIDAKA SHIGEMI

Latest standardized assignees - inventors removed

YANMAR AGRICULTURAL EQUIPMENT

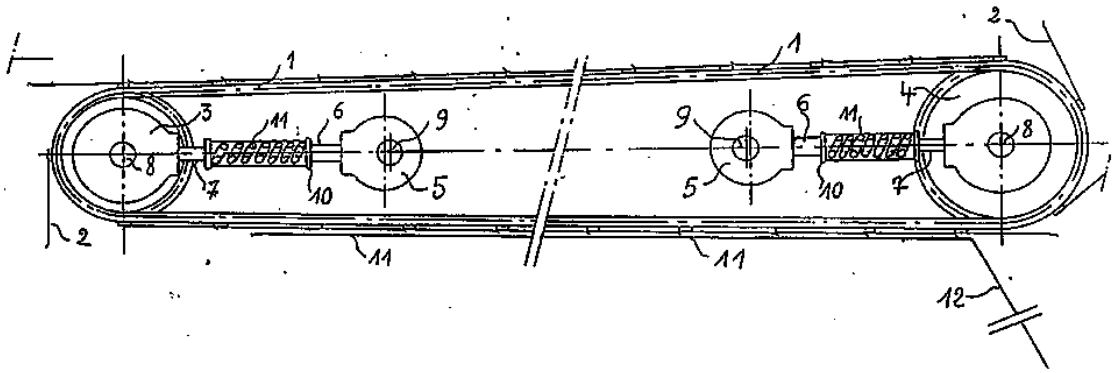
Family 662/667 - FAMPAT - ©Questel

Title

(FR2658984)

Device for separating the grain by shaking on a combine harvester

Images



Publication data including kind & date

FR2658984	A1	1991-09-06	FR2658984
FR2658984	B1	1992-10-23	FR2658984

Abstract

(FR2658984)

The device of this invention comprises: Two identical chains (1) operating in parallel and joined together by combs (2).They are driven by gearwheels (3) and (4).The chains (1) during their displacement describe a continuous movement of vertical oscillations.These oscillations are controlled by the rotation of eccentrics (5) which are connected to the cylindrical shafts (8).Through the use of telescopic pieces (6) and (7) and springs (11), the relationship between the eccentrics (5) and the cylindrical shafts (8) brings about the even continuous lateral displacement of the latter.This mechanical phenomenon triggers the vertical oscillation movement of the chains (1) and keeps it continuous.The device according to the invention releases the grain contained in the product which transport it, without breaking the latter. <IMAGE>

Inventors

ALAIN BOURDICHON

Family 663/667 - FAMPAT - ©Questel

Title

(EP-354089)

Tube for transporting fluids susceptible to change its volume and especially its length.

Images

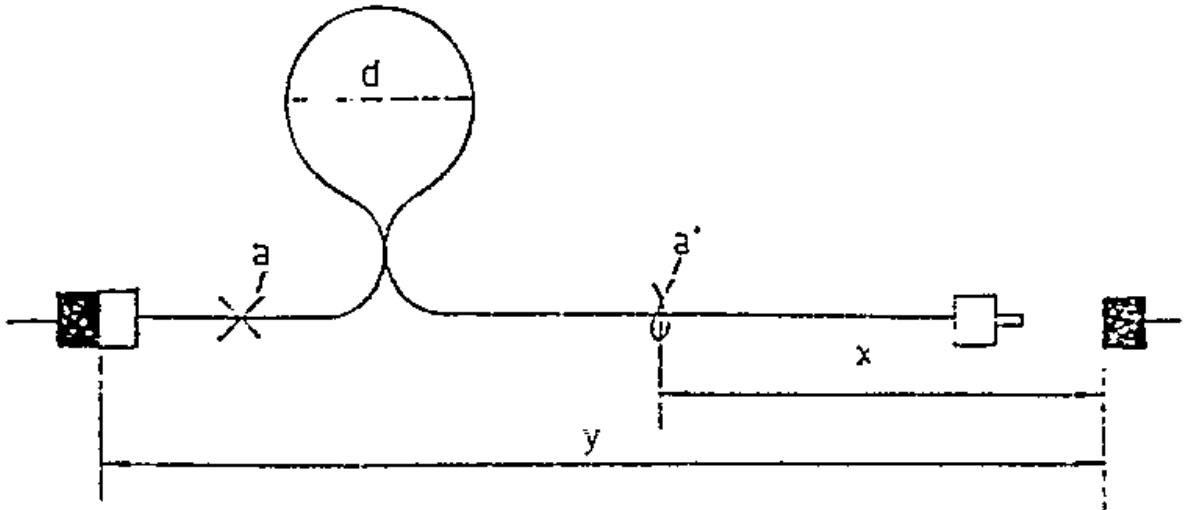


Fig 1

Publication data including kind & date

KR850007408	A	1985-12-04	KR19850007408
KR870000003	B1	1987-01-28	KR870000003
KR19870000003	A	1987-02-16	KR19870000003
NO893028	D0	1989-07-25	NO8903028
FI893619	A0	1989-07-28	FI8903619
DK372989	D0	1989-07-28	DK8903729
FI893619	A	1990-01-30	FI8903619
DK372989	A	1990-01-30	DK8903729
NO893028	A	1990-01-30	NO8903028
AU3904889	A	1990-02-01	AU8939048
FR2634861	A1	1990-02-02	FR2634861
EP0354089	A1	1990-02-07	EP-354089
PT91307	A	1990-02-08	PT--91307
IL90927	A	1990-02-09	IL--90927
CN1040088	A	1990-02-28	CN1040088
KR19900002020	A	1990-02-28	KR19900002020
JPH0280882	A	1990-03-20	JP02080882
BR8903718	A	1990-03-20	BR8903718
KR900002020	B1	1990-03-31	KR900002020
ZA8905728	B	1990-05-30	ZA8905728
FR2634861	B1	1991-02-08	FR2634861
IL90927	B	1992-07-15	IL--90927
KR19930009060	A	1993-05-22	KR19930009060
CN1020949	C	1993-05-26	CN1020949C
AU639890	B2	1993-08-12	AU-639890
KR930009060	B1	1993-09-22	KR930009060
JPH0646075	B2	1994-06-15	JP94046075
PT91307	B	1995-07-06	PT--91307
BRPI8903718	A2	2018-03-27	BRPI8903718

Abstract

(EP-354089)

The subject of the present invention is a tube made from a plastic material for transporting fluids susceptible to varying its volume, in particular its length.The tube according to the invention is such that it has at least one portion which can absorb elastically a macroscopic deformation.The invention also relates to the use of such a tube fixed as an extension, in

particular as a petrol duct. <IMAGE>

Inventors

MALCOEFFE MICHEL

Latest standardized assignees - inventors removed

ARKEMA

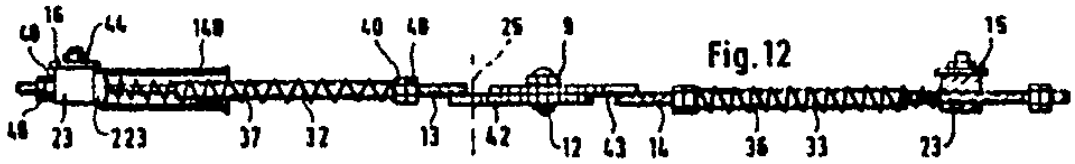
Family 664/667 - FAMPAT - ©Questel

Title

(EP-316923)

Spreader device for straw chopper

Images



Publication data including kind & date

DK639788	D0	1988-11-16	DK8806397
DK639788	A	1989-05-18	DK8806397
EP0316923	A2	1989-05-24	EP-316923
DE3838936	A1	1989-05-24	DE3838936
US4921469	A	1990-05-01	US4921469
EP0316923	A3	1990-06-13	EP-316923
DE3838936	C2	1990-07-26	DE3838936
EP0316923	B1	1993-03-03	EP-316923
AT86063	T	1993-03-15	ATE086063

Abstract

(EP-316923)

A distributor for choppers, preferably mounted choppers for combine harvesters, possesses an upper coverplate, underneath which are arranged next to one another a right-hand and a left-hand group of guideplates which are at an angle, preferably at right angles to this coverplate and which are mounted pivotably about axles at their ends facing the chopper and are connected firmly, at a distance from these axles, to guide bolts which pass through guide slots of the coverplate or of the housing.Each of the two groups of guideplates is assigned an adjusting strip.The guideplates are connected to one another by means of the guide bolts rotatably in fixed bearings by the two guide rails and, at their ends facing the chopper, are arranged on the coverplate rotatably at particular points and displaceably.The guide slots of each group extend transversely offset to and essentially parallel to one another and to the line drawn throug h the axles.The adjusting strips of each group are so arranged inclined outwards relative to this line that the distance between the guide bolts and the axles decreases outwards from guideplate to guideplate according to the offset of the guide slots.Connected in an articulated manner to each adjusting strip is an adjusting lever (15, 16) which is articulated on the coverplate at a particular point at a distance from its point of articulation on the adjusting strip.A coupling rod (13 or 14) connects the adjusting levers (15, 16) to one another.So that the two groups of guideplates can be adjusted in a simple way to a differing extent, the adjusting levers (15, 16) are connected to the coupling rod (13, 14) longitudinally displaceably and in a manner limited by stops (40) (Figure 12). <IMAGE>

Inventors

SCHARF, ALOIS

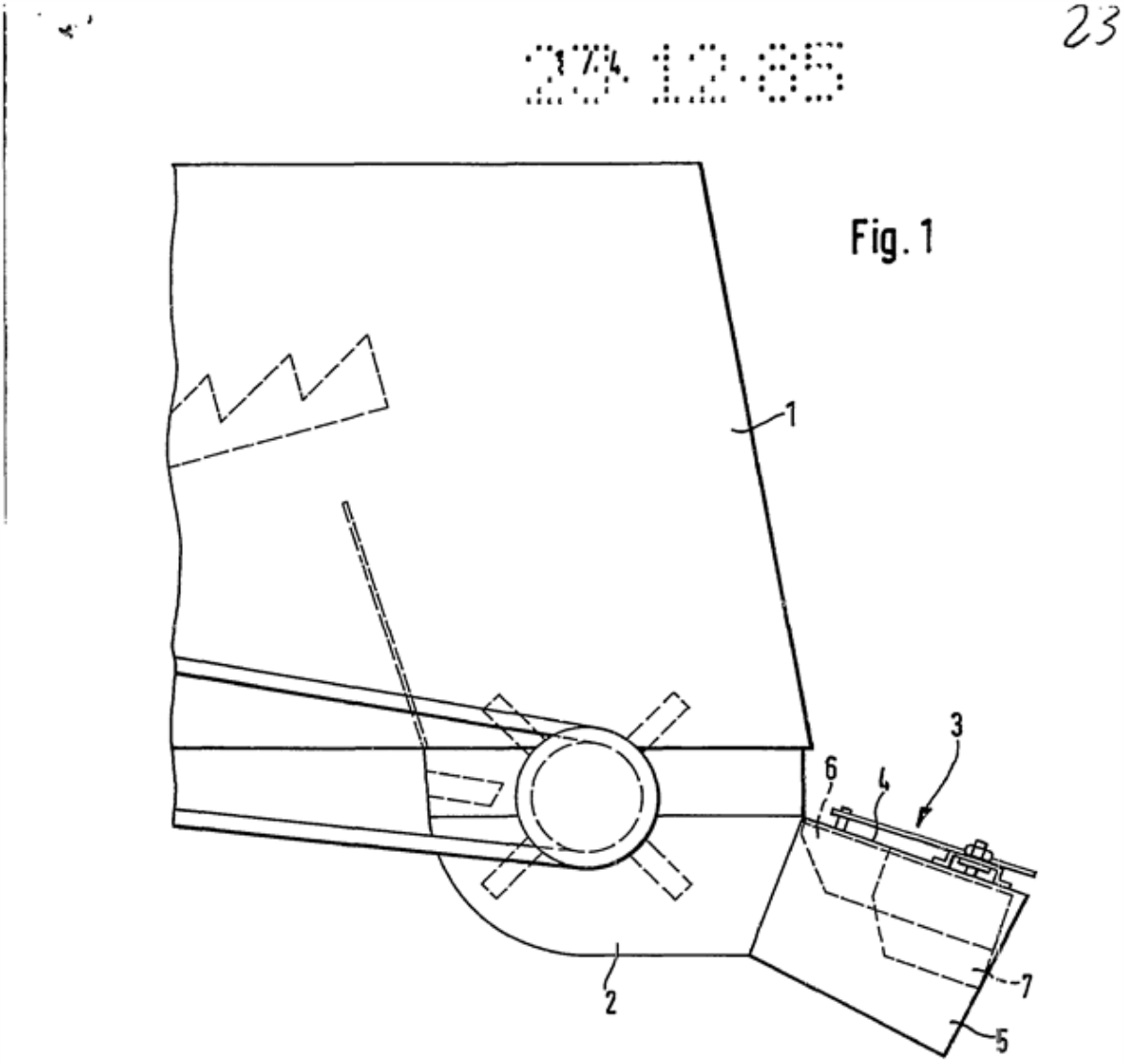
Latest standardized assignees - inventors removed

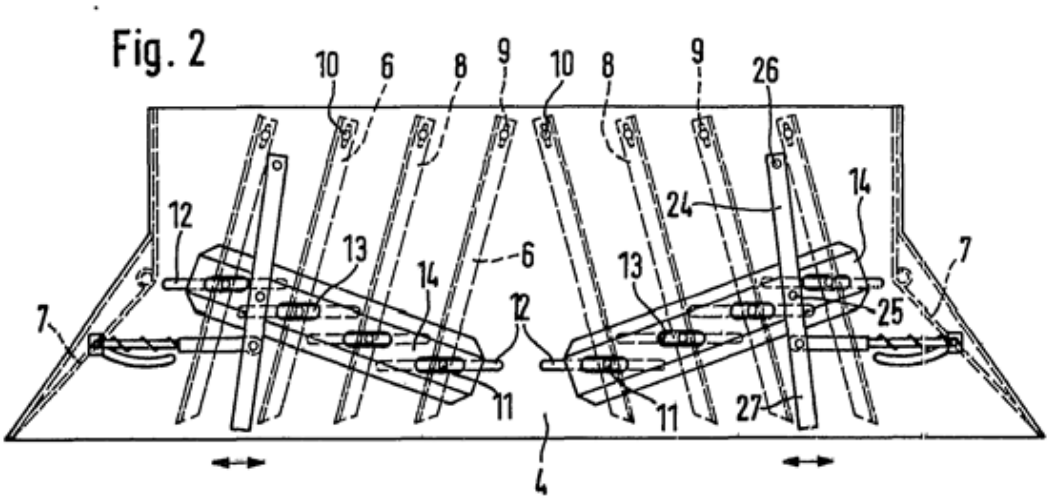
BISO BITTER

BISO

Family 665/667 - FAMPAT - ©Questel

Images





Publication data including kind & date

DE8524223 U1 1987-12-17 DE8524223

Latest standardized assignees - inventors removed

BISO BITTER

Family 666/667 - FAMPAT - ©Questel

Title

(US5980389)

Driveshaft with coupling means

Images

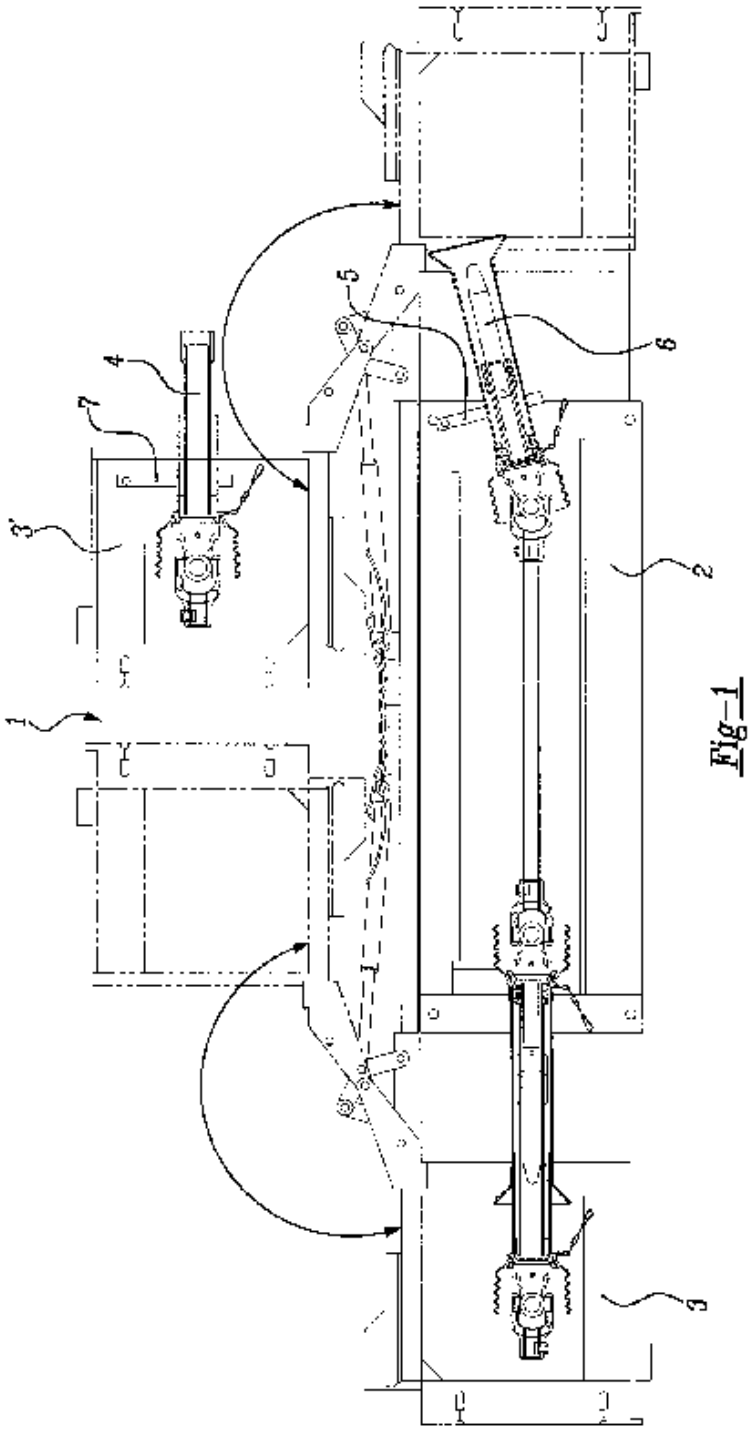


Fig-1

Publication data including kind & date

DK113097	A	1998-04-05	DK9701130
NL1007006	A1	1998-04-07	NL1007006
FR2754132	A1	1998-04-10	FR2754132
DE19640888	C1	1998-05-20	DE19640888

ITMI972176	A1	1999-03-26	IT97MI2176
IT1295073	B1	1999-04-27	IT1295073
US5980389	A	1999-11-09	US5980389
NL1007006	C2	1999-12-27	NL1007006
FR2754132	B1	2000-10-06	FR2754132
ATA150497	A	2002-01-15	AT9701504
DK173939	B1	2002-02-25	DK-173939
AT409534	B	2002-09-25	AT-409534

Abstract

(US5980389)

A driveshaft has two shaft parts (4, 6) which provide a coupling.To facilitate the operation of coupling the two shaft parts (4, 6) to one another, the coupling operation is divided into two phases.A member initially aligns the two shaft parts (4, 6) along a common longitudinal axis (13).Also, the shafts are rotationally fast connected between the shaft parts.A centering journal (20) centers the two shaft parts (4, 6) relative to one another on a common longitudinal axis (13).The centering journal centers the bore (16) of the first profiled tube (12) with a relative rotation of the two shaft parts (4, 6) continuing to be possible.When inserting the two shaft parts (4, 6) into one another, the first coupling part (19), which is firmly connected to the first profiled tube (12), via its claws approaches the claws of the second coupling part (40).The second coupling part (40) is displaceable on the second profiled tube (28) via a setting sleeve (34) against the force of a spring (38).When the first coupling part (19) abuts the second coupling part (40), the second coupling part is then displaced against the force of the spring (38).When the drive is switched on and when the two shaft parts (4, 6) reach a relative position relative to one another, the claws and gaps of the two coupling parts (19, 40) are moved into matching positions.The compression spring (38) pushes the second coupling part (40) towards the first universal joint (epsilon), so that the claws engage one another and transmit torque.

Inventors

NIENHAUS CLEMENS

Latest standardized assignees - inventors removed

GKN WALTERSCHEID

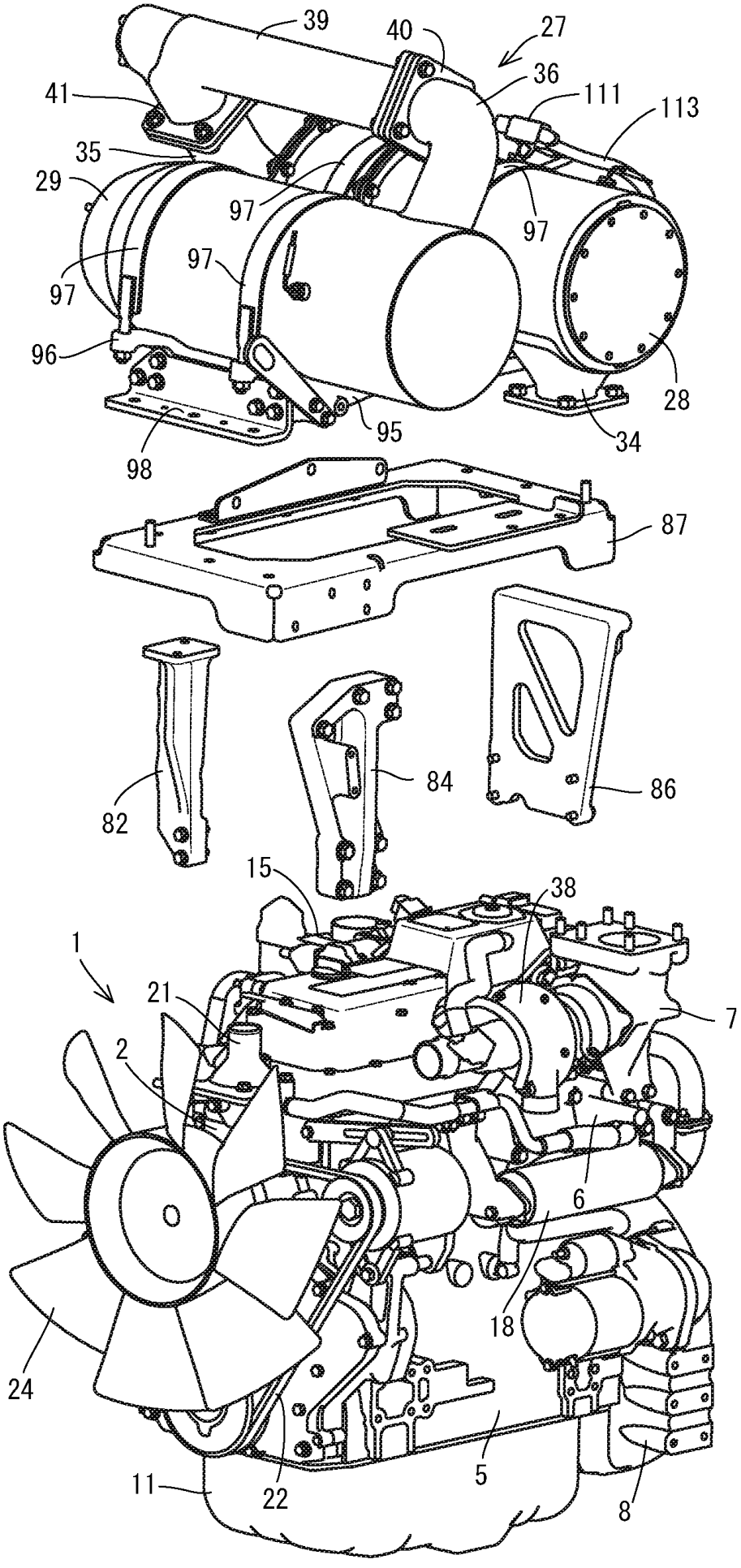
Family 667/667 - FAMPAT - ©Questel

Title

(EP3121405)

Engine device

Images


39
40
27
36
111
113
41
35
29
97
97
97
97
97
96
28
95
34
98
87
82
84
86
15
38
1
21
7
2
6
18
24
11
22
5
8

Publication data including kind & date

WO2015141835	A1	2015-09-24	WO2015141835
JP2015183542	A	2015-10-22	JP2015183542
JP2015183544	A	2015-10-22	JP2015183544
JP2015183546	A	2015-10-22	JP2015183546
JP2015183543	A	2015-10-22	JP2015183543
CN106030069	A	2016-10-12	CN106030069
KR20160134640	A	2016-11-23	KR20160134640
US20170009638	A1	2017-01-12	US20170009638
EP3121405	A1	2017-01-25	EP3121405
JP6177170	B2	2017-08-09	JP6177170
EP3121405	A4	2017-12-27	EP3121405
JP6265806	B2	2018-01-24	JP6265806
US10087812	B2	2018-10-02	US10087812

Abstract

(EP3121405)

It is an object to provide an engine device in which the accessory components of an engine 1 can be prevented from being damaged by an operator with tools, and the accessory components on the upper surface side of the engine 1 can be prevented from being damaged with the radiant heat of a first case 28 or a second case 29.Regarding an engine device that includes the first case 28 that removes particulate matter in the exhaust gas of the engine 1 and the second case 29 that removes nitride oxides in the exhaust gas of the engine 1 and that connects the second case 29 to the first case 28 via a urea mixing pipe 39, an upper surface cover body 87 is adhered on the upper portion of the engine 1 via supporting leg bodies 82, 84, and 86, and the upper portion of the engine 1 is covered with the upper surface cover body 87, while any one or both of the first case 28 and the second case 29 are placed on the upper surface side of the upper surface cover body 87.

Inventors

SUETOU HIROSHI

FUKUYOSHI SHINYA

Latest standardized assignees - inventors removed

YANMAR