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2	17	(HARVEST AND LAWN AND MOWER AND BLADE AND DISC)
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CN204616400U U	Mower	FUJIAN YUANTIAN FARM MACHINERY
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KR20090014971 A	Walking type mower	KUBOTA, ...
KR101601806 B1	Lawn mower tractor having a cutting apparatus of the grooves of the stem	LEE, HAK NAM

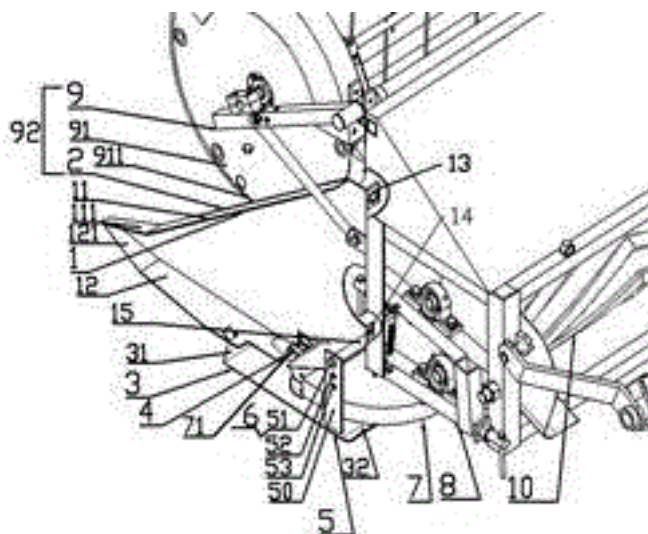
Publication numbers	Title	Current assignees
CN208047301U U	Novel mower	LINDE
CN2479726U Y	Hand carried dc motor driven mower	HU JINSUN
KR200460767U Y1	crops for grass eliminator	NAM, MI JEONG
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KR200408715U Y1	An apparatus for harvesting the crops	ChouSungMan, ...
CN107278498 A	Mobile hay mower for municipal gardens	HUNAN GAOFUXING INTELLIGENT TECHNOLOGY
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WO2018123593 A1	Work machine	HONDA MOTOR
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CN86208056U U	Vertical hand hay mower	ZHANG GUANGMING
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CN103907484 A	Hand-push type multifunctional plant pruning machine	ZHEJIANG DAYANG SEWING MACHINE
KR100633396 B1	Weed cutting machine for excavator	PARK, CHUNG DONG
KR100983156 B1	Support device for weed cutter	LEE, JONG HOO
CN202340431U U	Grass cutter	YU FENG
KR20120056744 A	Bean harvester using plant cutter apparatus	LEE, YANG JAE
KR20140000593 A	Bear fruit length adjust a worktable	FUTURE WING
KR20070049025 A	An apparatus for harvesting the crops	ChouSungMan, ...
CN200973260U Y	Cutter head of grass cutter	ZHOU LANSHENG
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CN102726271 A	Terrain-imitation shrub harvester	LIU QINGHAI
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Publication numbers	Title	Current assignees
CN107182425 A	Straw harvesting device	CHANGSHA WUDAO INDUSTRIAL DESIGN
WO201021318 A1	Head-feeding combine	KUBOTA
JP2011078396 A	Weeding sickle	USHIDA HIDEO
WO2014136862 A1	Combine harvester	YANMAR
CN2888834U Y	A brush-sawing grass-cutting knife	FANG XINZE
CN207099707U U	Weeder for municipal administration with collection grass function	WENZHOU BOYUAN INDUSTRIAL DESIGN
CN206620496U U	Automatic weeder of solar energy	HUAIAN COLLEGE OF INFORMATION TECHNOLOGY
CN205755564U U	Shallow of mowing safely	FANG HUAIYAN
CN102598899 A	Rice-wheat harvesting, tillage and weeding combine	CHONGQING SHUANGEN AGRICULTURAL MACHINERY MANUFACTURING
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CN205993114U U	Electronic shallow of mowing	FANG HUAIYAN
CN2860039U Y	Small-sized mowing crusher	ZHANG HUAPEI
CN2562556U Y	Screw transport grass cutter	TIANLUN MACHINERY TRADE
CN101617590 A	Reaping and conveying structure of head-feeding combine harvester	KUBOTA
CN102550203 A	Small size track type greenhouse aquatic weed harvester	ZHEJIANG UNIVERSITY
GB201700336 D0	Hybrid turf surface and support therefor	STADIA TURF TECHNOLOGY PTE
CN103583144 A	Grass-seed-separated type grass cutting and racking machine	ZOU GUOXIN
CN206923300U U	Dustproof's gardens cutting grass machine	CHENGDE YIFENG LANDSCAPING ENGINEERING

Family 1/63 - FAMPAT - ©Questel

Title

(CN106508292)

Lawn mower provided with multi-functional grass baffle and method for improving **harvest** yield**Images****Publication data including kind & date**[CN106508292](#)

A 2017-03-22 CN106508292

**Abstract**

(CN106508292)

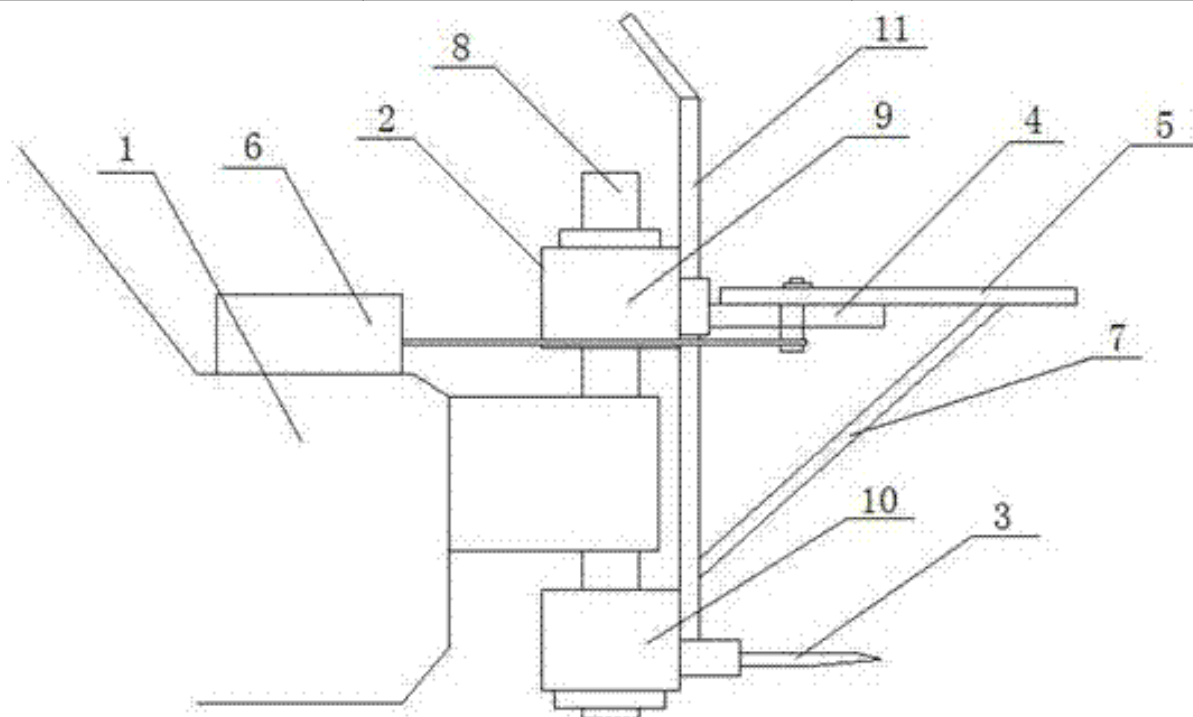
The invention belongs to the technical field of the animal husbandry machine, and discloses a multi-functional grass baffle integrated with a power grass divider, a former bar and a stubble-cutting adjusting mechanism, a **lawn mower** (a flattening device) with the multi-functional grass baffle and a method for improving **harvest** yield. The power grass divider comprises a grass dividing plate, a grass dividing fixed **blade**, and a grass poking side wheel moving **blade** plate. The side face of the grass dividing plate is fixedly connected with the grass dividing fixed **blade**, and the front part is provided with upper and lower guiding plates of grass dividing point, and upper and lower baffles of the grass dividing plate. The rear part of the lower baffle of the grass dividing plate is fixedly connected with a positioning cone sleeve of a cutter fixed **blade**. The rear side face of the grass dividing plate is provided with a stubble-cutting adjusting nut tube. The **blade** rotated by the grass poking side wheel moving **blade** plate is capable of, in the clearance of the grass dividing plate and the grass dividing fixed **blade**, smoothly separating the reversed entangled grass. The former bar is provided with a front narrow head bearing bending plate and an adjusting supporting plate, and is matched with the stubble-cutting adjusting nut tube through an adjusting screw rod under the action of the stubble-cutting adjusting mechanism. The cutter is capable of simulating the landform, the stubble height is 3-5 cm, and the final stubble considers the nutrition regeneration and the accumulation and the overwintering surviving of the root reserve nutrition, so the adjusting screw rod is adjusted to the position 1 of the adjusting hole, the stubble height is 5-8 cm, and the grass **harvest** yield is improved.

Family 2/63 - FAMPAT - ©Questel

Title

(CN206354014U)

Header subassembly of **lawn mower****Images**



Publication data including kind & date

CN206354014

U

2017-07-28

CN206354014U



Abstract

(CN206354014U)

The utility model discloses a header subassembly of **lawn mower**, including end disc cutter utensil, pulling careless device and frame, end disc cutter possesses horizontal installation in the front end bottom of frame, and the rear end and the **lawn mower** organism fixed connection of frame pull careless device and install in the frame above end disc cutter possesses perpendicularly the several of horizontal spacing setting is pulled grass wheel, level and is fixed and pull the careless drive arrangement that pulls that grass wheel horizontal rotary drum moved in pull careless scute and the drive of pulling that the grass takes turns to, by pull the grass wheel adjacent with both sides pull that careless scute forms that the several expands outward to pull the grass regional, and the inclining side who pulls careless scute lies in and pulls the grass and take turns the relative one side of rotation direction. Making and cutting the careless pole got and can empty subaerial along same direction is orderly through pulling careless device, convenient follow -up beating bundle is collected, has improved the efficiency that collects careless operation, uses manpower sparingly, rational in infrastructure, the simple operation can be used to all kinds of needs and plays bundle hay **harvest** operation of transportation, has better economic benefits and market value, is suitable for popularization and application.

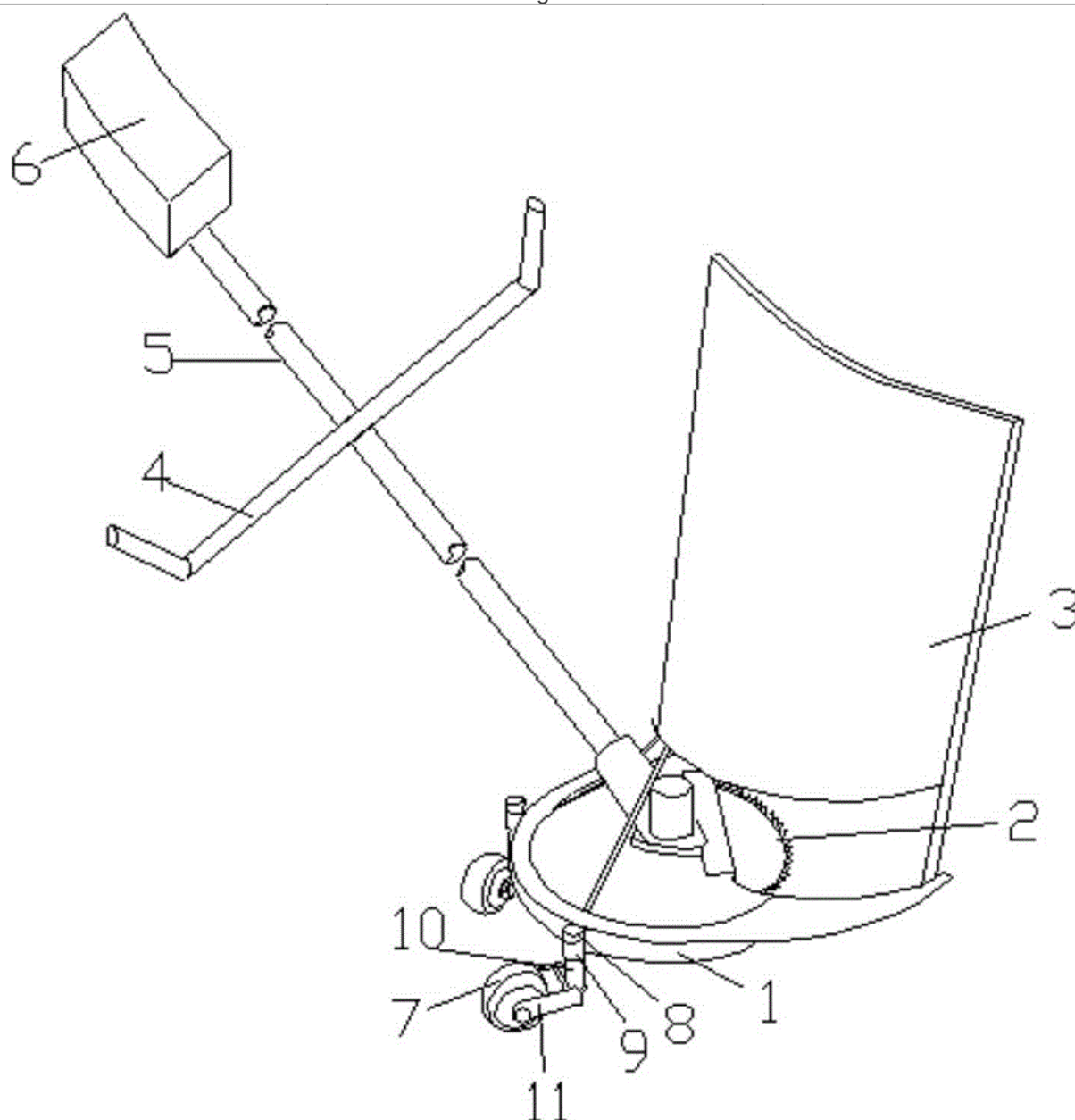
Family 3/63 - FAMPAT - ©Questel

Title

(CN205546543U)

Stay a batch highly controllable **lawn mower**

Images

**Publication data including kind & date**

CN205546543

U

2016-09-07

CN205546543U

**Abstract**

(CN205546543U)

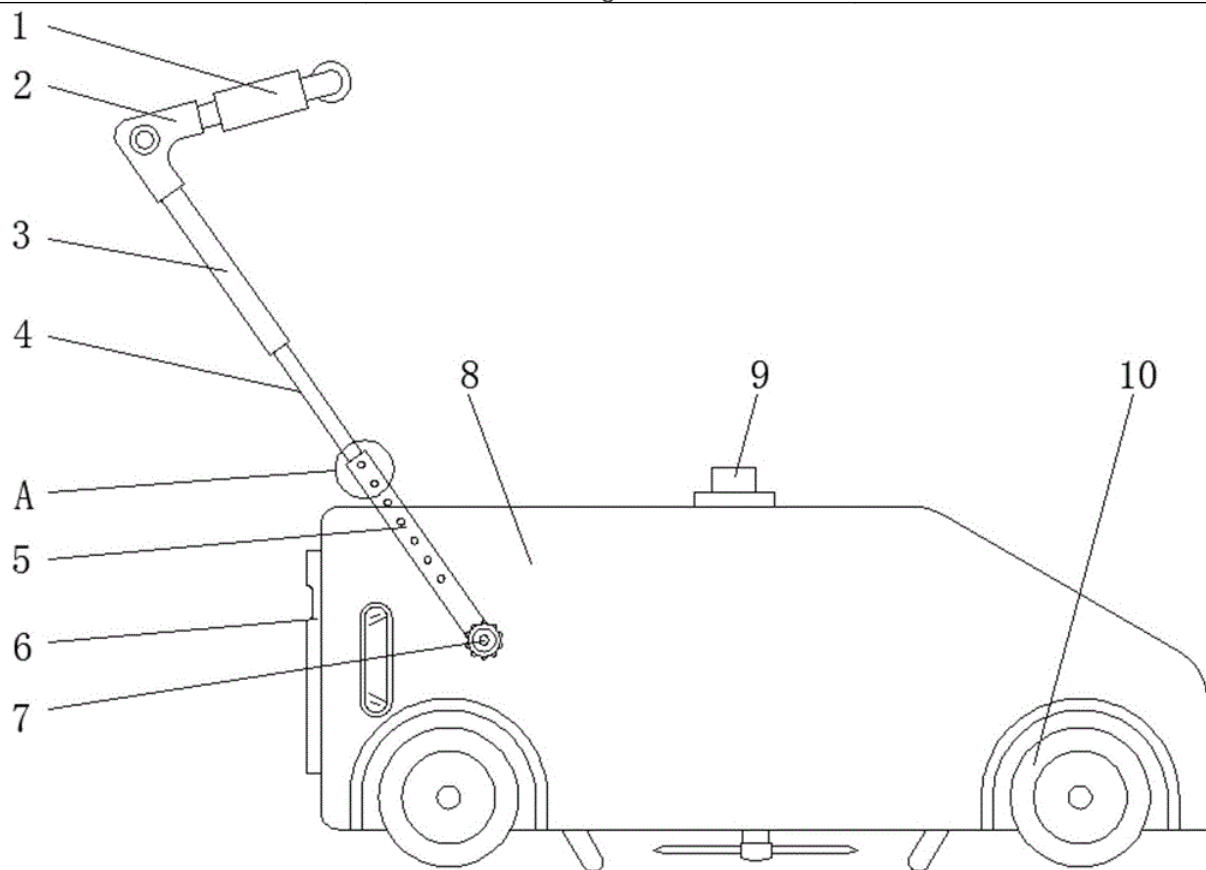
The utility model discloses a stay a batch highly controllable **lawn mower**, it includes: the walking frame, its bottom is supported by a plurality of walkings wheel, install the **blade** disc that being used for on walking frame mowed, put up the push rod that removes with the promotion walking that is used for that the walking frame is connected, the power component who is used for driving moving cutter disc horizontal rotation with cutter connection, in addition, still include: install in the walking frame is gone up and is located the baffle of **blade** disc top is used for the restriction the garrulous careless direction of dispersing that forms when the **blade** disc is mowed, install in every walking wheel with altitude mixture control subassembly between the walking frame is used for adjusting the height on the relative ground of walking frame. The utility model discloses a **lawn mower**, simple structure cuts and cuts height -adjustable, is convenient for to cutting the collection of cutting the garrulous grass in back.

Family 4/63 - FAMPAT - ©Questel

Title

(CN208836545U)

Novel garden planting with the **lawn mower****Images**

**Publication data including kind & date**

CN208836545

U

2019-05-10

CN208836545U

**Abstract**

(CN208836545U)

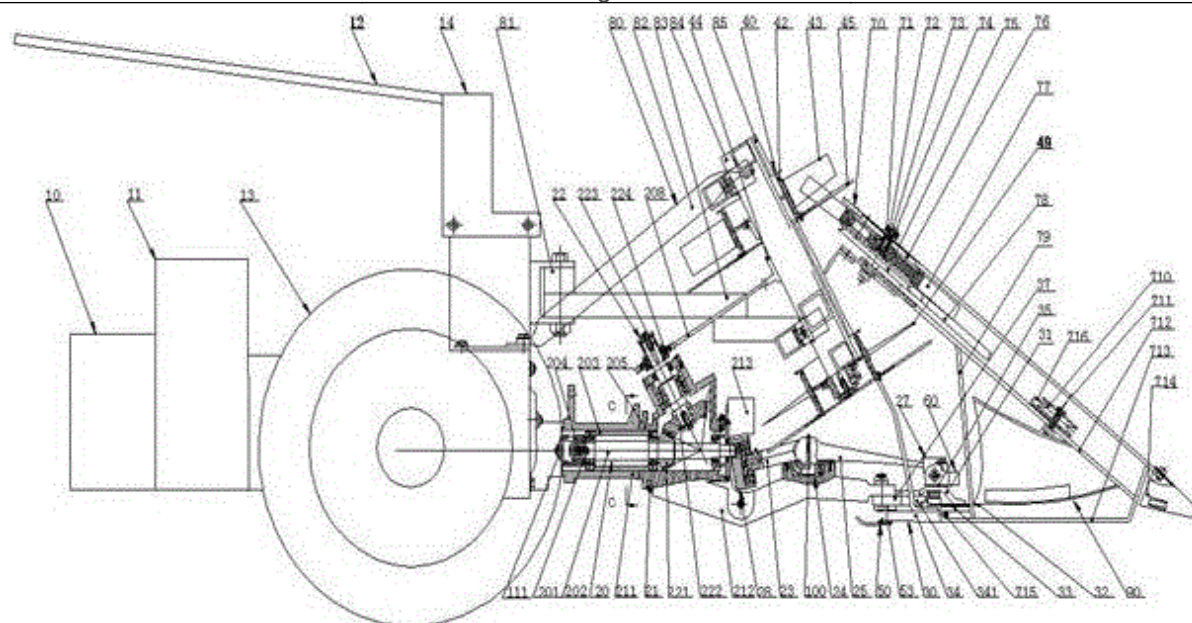
The present utility model discloses a novel garden for greening **lawn mower**, comprising a handle, a connecting seat, and a collection box harvesting machine, the harvesting machine on both sides of the two ends are uniformly provided with wheels, one end of the harvesting machine equipped with a collector box, and a collection box near both sides of the harvesting machine is hinged at one end is fixed to the connecting rod 2nd, 2nd link lever mounted at one end with the extension arms, one end of the connecting rod and the telescopic rod fitted with 1st, 1st through a connecting seat mounted with one end of the lever handle, a handle is mounted on top of harvesting machine. The present utility model is mounted through the handle, a connecting seat, and **harvest** the collection box body, one end of the harvesting machine body fixing clips detachably mounted with a collecting box through, the harvesting machine body with the fixed clamping blocks cooperate with each other at one end of the fixing slot is provided with a uniform, fixed between the body and **harvest** the collection box is carried out through the block to facilitate assembly and disassembly is fixed, which eases cleaning of the chopped forage is collected inside the box, to facilitate use of the device.

Family 5/63 - FAMPAT - ©Questel

Title

(CN104335771)

Horizontal conveying type sloping field **mower****Images**



Publication data including kind & date

CN104335771	A	2015-02-11	CN104335771
CN104335771	B	2016-12-28	CN104335771B



Abstract

(CN104335771B)

The invention relates to agricultural machinery, in particular to a structure of a horizontal conveying type sloping field **mower**. The horizontal conveying type sloping field **mower** comprises a walking power assembly, a transmission system, a grass divider, a grass lifter, a sickle and an inclined horizontal conveying system, and is mainly characterized in that a power output shaft is arranged in front of a reducer of the walking power assembly and connected with a coupler of the transmission system; a primary bevel gear deceleration system is arranged above the middle part of a transmission spindle of the transmission system; the power is transmitted to the inclined horizontal conveying system through a conveying driving pulley on the primary bevel gear deceleration system; the grass divider is arranged on a base plate at the right end of the sickle; a housing connected with the reducer body is arranged on a bearing outer ring supporting the transmission spindle. The horizontal conveying type sloping field **mower** disclosed by the invention is compact in structure, high in transmission efficiency, low in cut stubble, high in adaptability, flexible in running, high in reliability, and suitable for a sloping field, a terrace field, an interplanting field and middle and small land parcels to **harvest** multiple kinds of pastures and slender-rod crops.

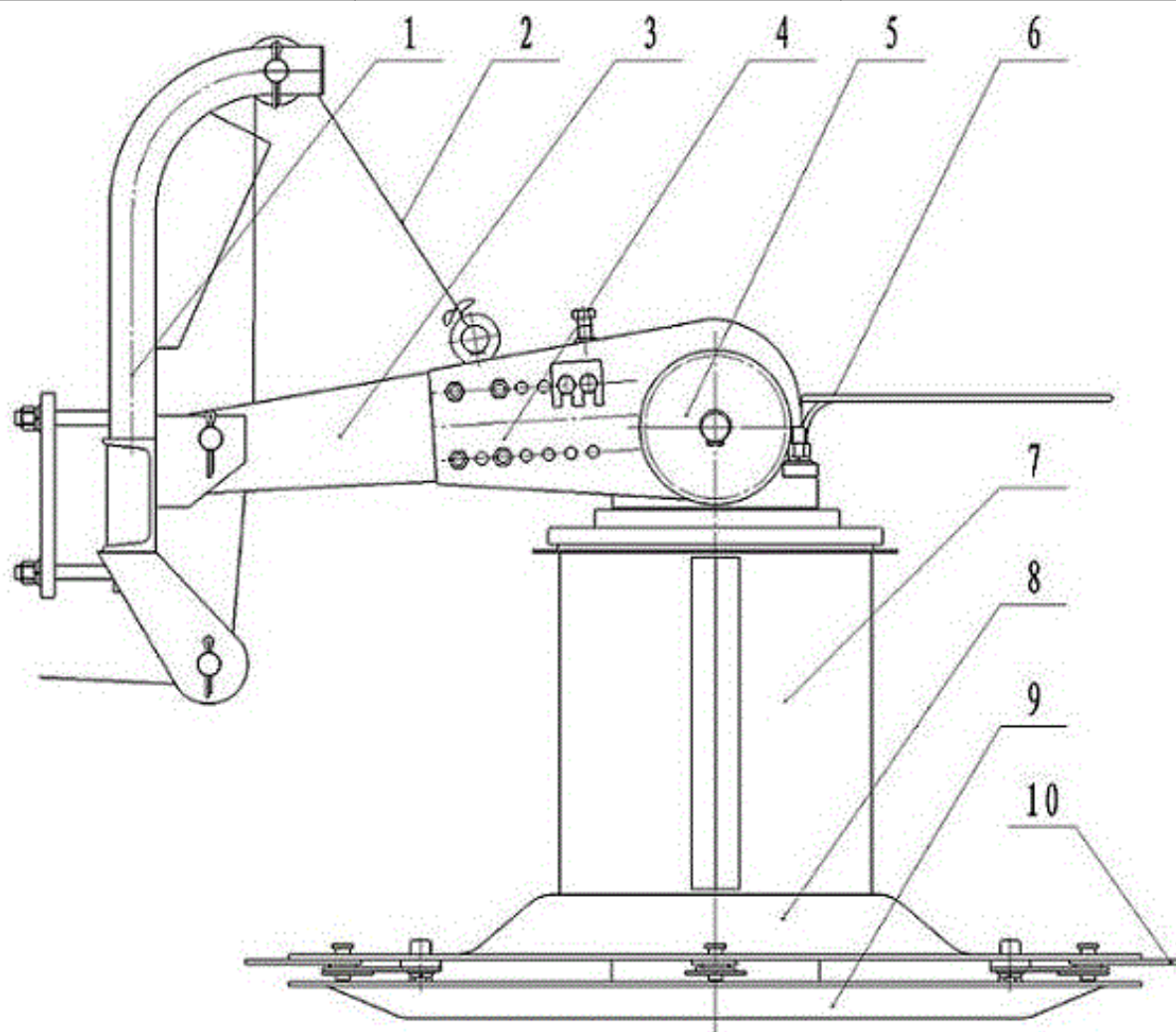
Family 6/63 - FAMPAT - ©Questel

Title

(CN205454600U)

Revolve hanging plane flail knife **lawn mower**

Images



Publication data including kind & date

CN205454600

U

2016-08-17

CN205454600U



Abstract

(CN205454600U)

The utility model discloses a revolving hanging plane flail knife **lawn mower**, include link to each other with the tractor revolving on -hook frame, operating system, tie -beam, swing arm, transmission system, fender grass frame, an axle sleeve section of thick bamboo, flail knife dish, freely coil, flail knife. Operating system installs on revolving the on -hook frame, and the other end is connected in the swing arm, and tie -beam one end is spliced on revolving the on -hook frame, and one end is connected with the swing arm, and transmission system fixes in the swing arm, installs on an axle sleeve section of thick bamboo, and the flail knife dish is fixed at axle sleeve section of thick bamboo lower extreme, freely coils and installs the lower extreme at transmission system, keeps off the grass frame and installs in axle sleeve section of thick bamboo upper end. Flail knife follows horizontal direction of connection and on circular flail knife dish, can wind the flail knife connecting axle simultaneously along with the dish pivoted and rotate wantonly in the horizontal plane. The utility model has the advantages that: forage grass is reaped efficiently, and it is low to cut the stubble, the quality of mowing ideal, and the leakage prevention cuts the phenomenon, and the spoilage of **blade** is low, and the machine uses nimble conveniently, the dependable performance, simple structure easily makes the stable performance.

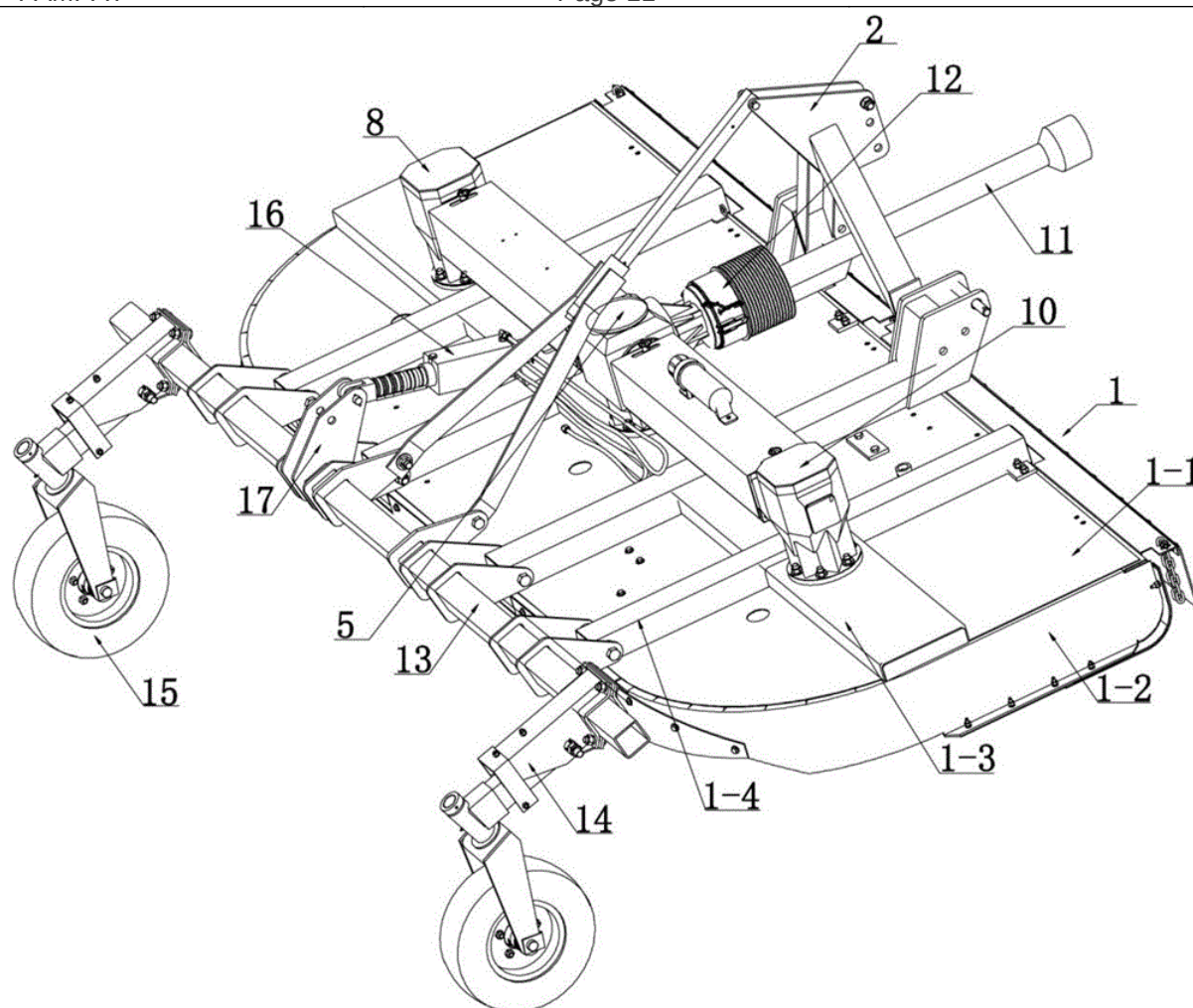
Family 7/63 - FAMPAT - ©Questel

Title

(CN206808080U)

Smash cutting type **lawn mower**

Images



Publication data including kind & date

CN206808080

U

2017-12-29

CN206808080U



Abstract

(CN206808080U)

The utility model relates to a smash cutting type **lawn mower**, the lifting support, the setting that include the support body, be used for to be connected with the back suspension of plant protection car are in the rotating cutter head of support body bottom and be used for driving rotating cutter head pivoted drive mechanism, rotating cutter head includes the **blade** disc and sets up the **blade** at **blade** disc both ends, drive mechanism includes main drive gear case, the power take off that the input shaft of main drive gear case passes through final drive shaft and plant protection car is connected, the main output shaft of main drive gear case with the **blade** disc splined connection, the lifting support sets up the upper portion of support body. The utility model discloses simple structure has not only guaranteed to be cut kibbling effect by gathering range's upright crop straw, and the adjustment is convenient moreover, and the transmission is stable, and the important is smashes efficiently, and it is good to smash the effect, positive response the straw widelyd popularize of country smash still field improvement farmland soil's requirement.

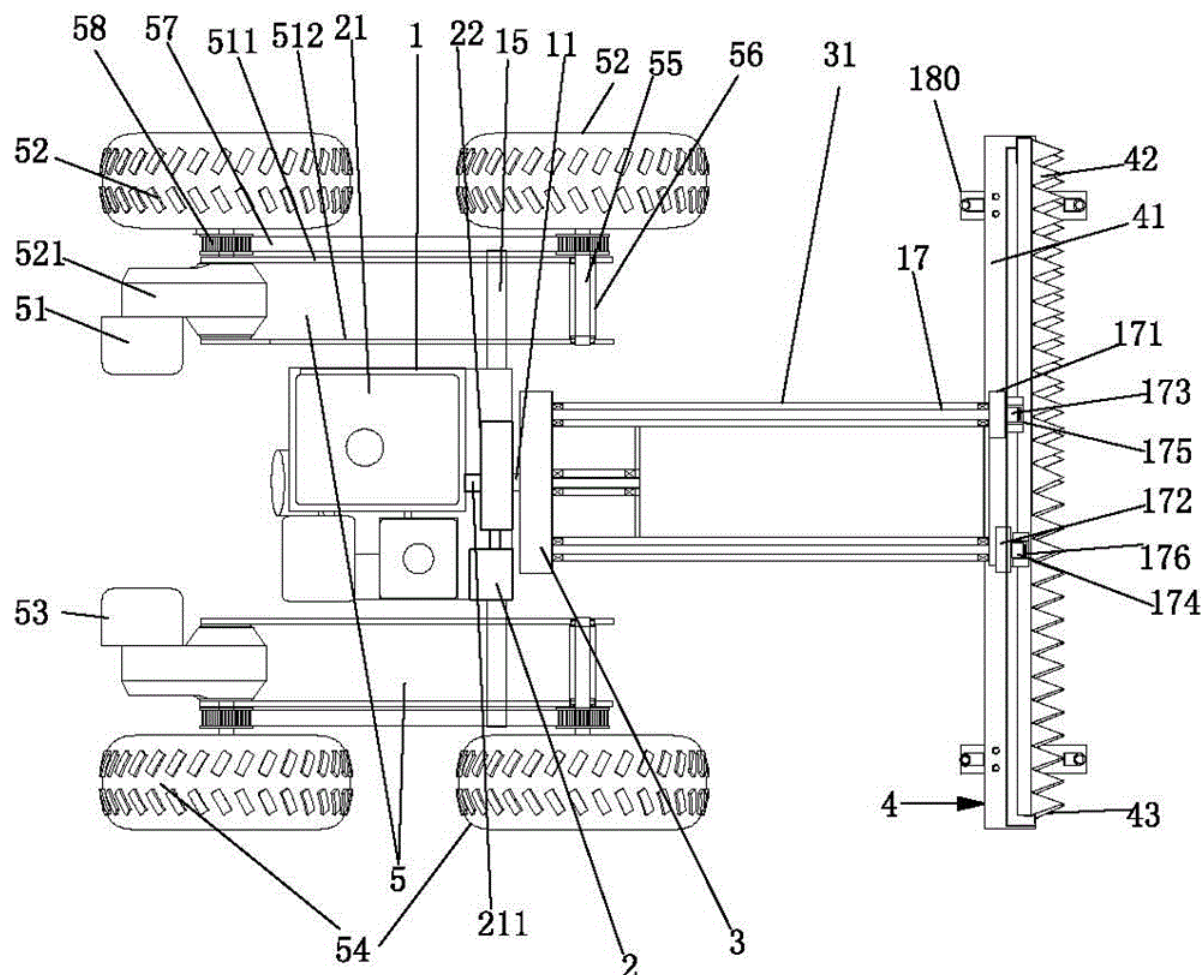
Family 8/63 - FAMPAT - ©Questel

Title

(CN109197107)

Scissors type multi-functional all-terrain **lawn mower**

Images



Publication data including kind & date

CN109197107

A 2019-01-15 CN109197107



Abstract

(CN109197107)

The invention relates to a scissors type multi-functional all-terrain **lawn mower**. The **mower** includes a chassis, a control circuit, a power system and a scissors type grass knife, wherein the scissorstype grass knife includes a **mower** bracket and two moving mowing blades which are stacked together, the **mower** bracket is connected with an end portion of a shaft pipe, the two moving mowing blades aresupported by the **mower** bracket, two sides of the two moving mowing blades are respectively provided with sawteeth, a tail end of a grass knife driving shaft penetrates through the shaft pipe and respectively drives the two moving mowing blades, the two moving mowing blades are respectively provided with a vertical slot, a first thumbwheel and a second thumbwheel are disposed at a tail end of the grass knife driving shaft, positions of the first thumbwheel and the second thumbwheel away from axis centers are respectively provided with a dial bearing, and the dial bearings of the first and second thumbwheels are respectively inserted into the corresponding vertical slots. The **mower** has characteristics of reasonable design, reliable operation and high working efficiency, and a four-wheel driving mechanism has strong adaptability and can easily pass through complex terrains such as embankment slopes and bushes.

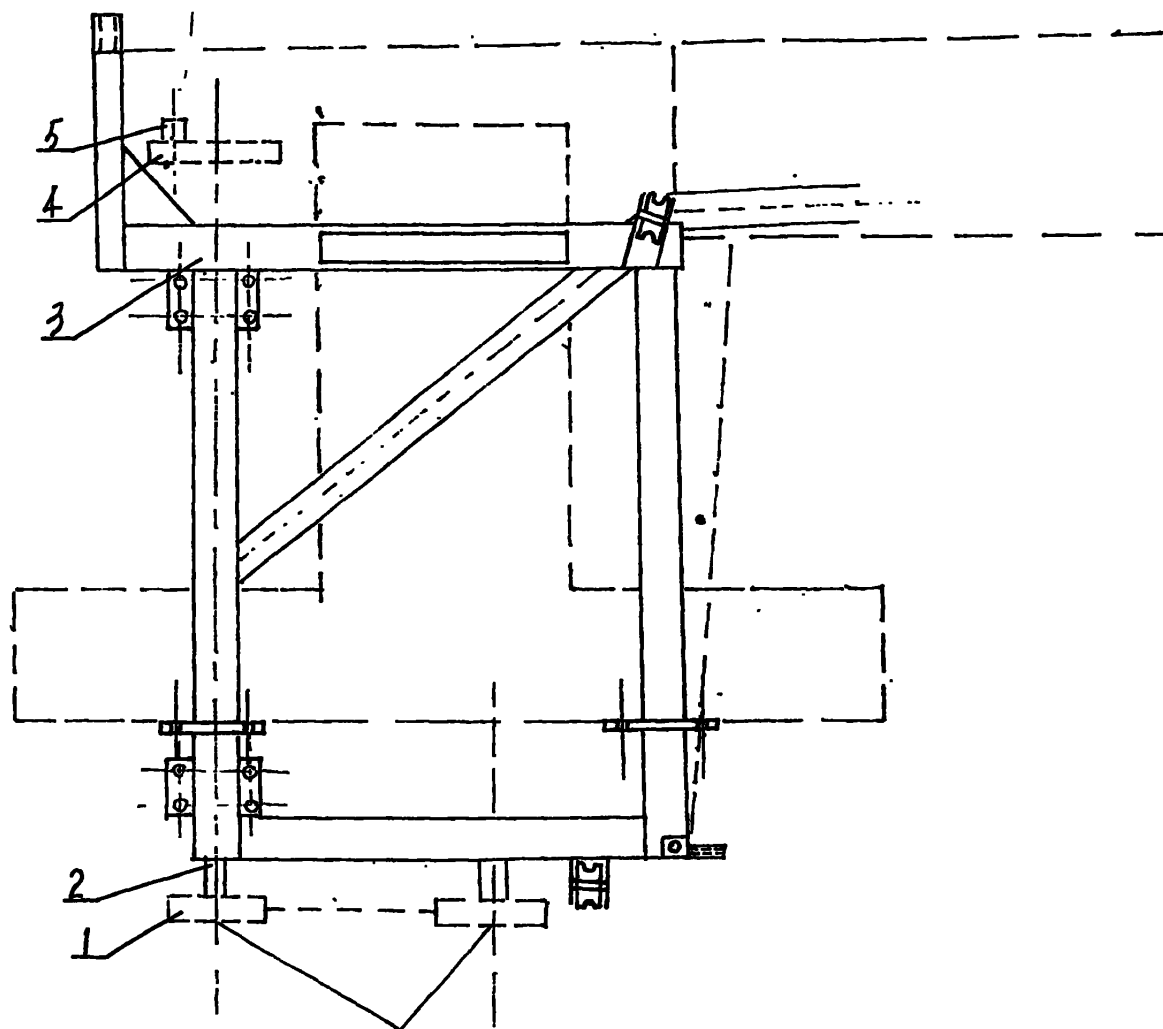
Family 9/63 - FAMPAT - ©Questel

Title

(CN200938771U)

Integrated up-down single blade mower of tractor

Images

**Publication data including kind & date**

CN200938771

Y

2007-08-29

CN200938771U

**Abstract**

(CN200938771U)

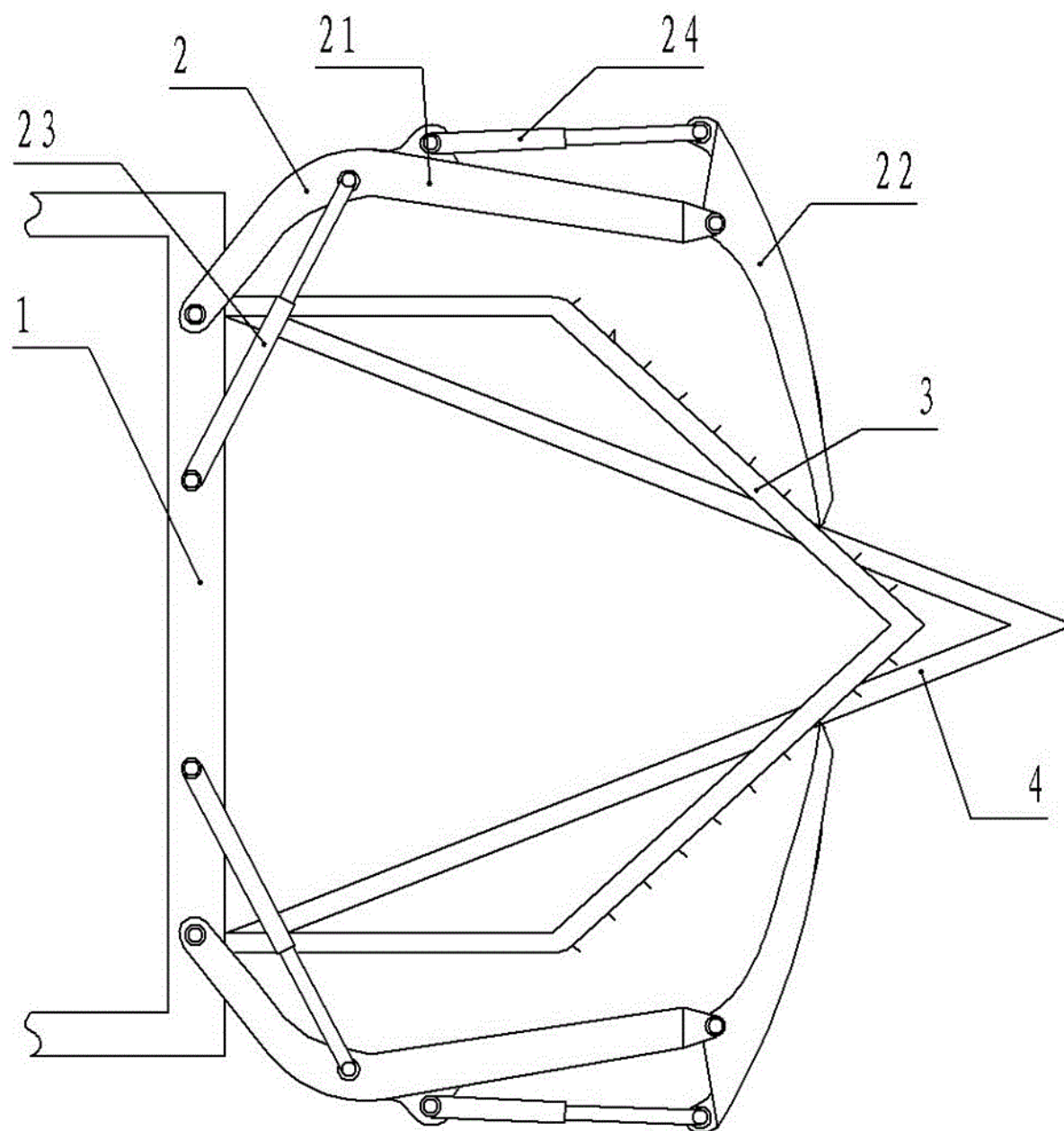
The utility model discloses a hydraulic **mower** of the tractors with an integral cutter up and down comprising a frame arranged on the tractor, wherein, a pulley positioned on the transmission shaft is driven by a power output system of the tractor; an eccentric wheel is positioned at the upper end of the transmission shaft; a reciprocating cutter is arranged on an eccentric shaft of the eccentric wheel; a linkage frame is positioned on a fixed disc of the tractor wheel; a hay rake is arranged behind the linkage frame through a pin. The utility model is mainly characterized in that: the right cutter is combined with the tractor as a whole; the power comes from the gear box; the forward speed is twice more than the existing machine type; the driver can finish mowing and raking all by himself and **harvest** 100 mu a day. The reciprocating cutter of the utility model is characterized in the reliable operation, the strong adaptability, and the large working width. The utility model can conveniently collect the cut grass, and make a movable gear mesh a transmission gear through a gear lever in placing the grass, and the movable gear rotates to drive a wire rope to lift up the hay rake which easily operates. The utility model has the advantages of the simple structure, the low cost, the high working efficiency, the excellent service performance, and the strong adaptability.

Family 10/63 - FAMPAT - ©Questel

Title

(CN104604424)

Knife of automatic **mower****Images**



Publication data including kind & date

CN104604424	A	2015-05-13	CN104604424
CN104604424	B	2016-09-07	CN104604424B



Abstract

(CN104604424B)

The invention discloses a knife of an automatic **mower**, and belongs to the technical field of agricultural machinery. The knife comprises folding swing arms, a knife body and a grass separation rod. The folding swing arms are hinged to the front end of a frame. The knife body and the grass separation rod are arranged below the folding swing arms and connected to the front end of the frame through connecting rods. Each folding swing arm comprises a rear arm hinged to the front end of the frame. One end of each rear arm is hinged to a corresponding front arm. First oil cylinders driving the rear arms to act are hinged between the rear arms and the frame. Second oil cylinders driving the front arms to act are hinged between the rear arms and the front arms. By the knife, the problems of high mowing labor intensity and low mowing efficiency of elephant grass can be solved.

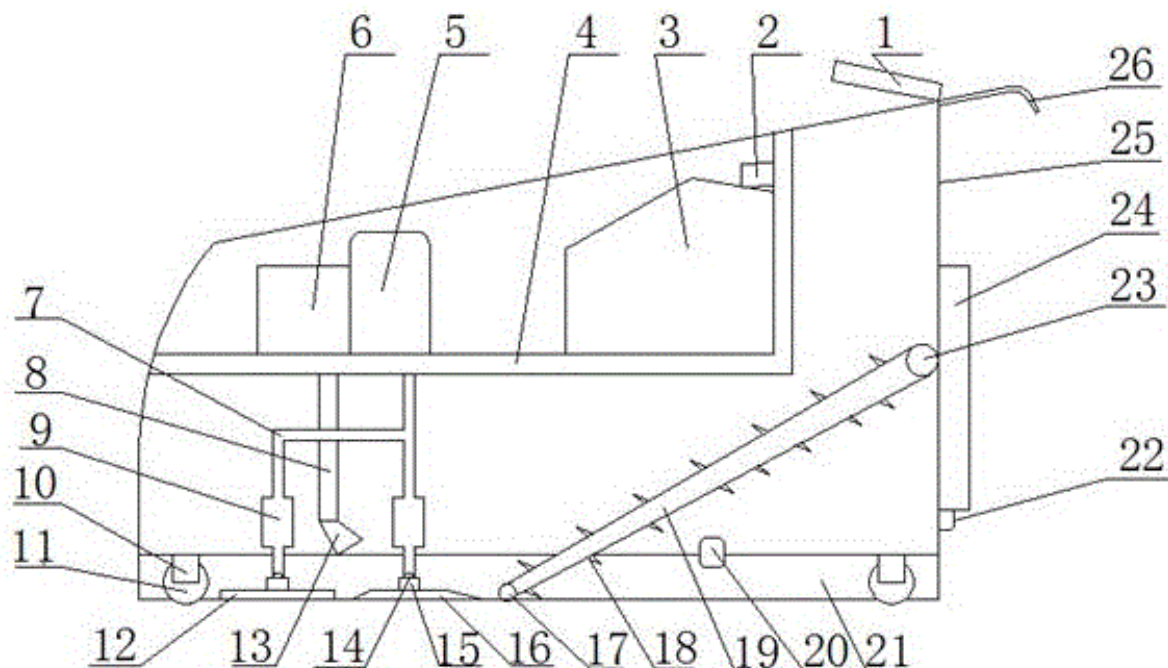
Family 11/63 - FAMPAT - ©Questel

Title

(CN205694293U)

Intelligent **mower**

Images



Publication data including kind & date

CN205694293

U

2016-11-23

CN205694293U



Abstract

(CN205694293U)

The utility model discloses an intelligent **mower**, including **lawn mower** main part, gasoline engine and hydraulic pressure automatic lifting device, the handle is installed at the both ends of **lawn mower** main part, and dual tactics install the automatic control screen to the centre, automatic control screen lower extreme is installed and is received the grass groove, and receives grass groove lower extreme and be provided with out grass mouthful automatic control device, the gasoline engine is installed on the support, and connects automatic the opening of gasoline engine on the gasoline engine and stop the device, install the hydraulic pump on the support, and the left end of hydraulic pump is provided with hydraulic tank, the hydraulic tank lower extreme is provided with the hydraulic pressure oil circuit, and is provided with the gallows on one side of the hydraulic pressure oil circuit, hydraulic pressure automatic lifting device's the lower connecting rod that is provided with. The utility model discloses a hydraulic pressure automatic lifting device comes the rotatory grass cutting **blade**'s of control load -lowering height to the degree of depth that can mow in vain, the discharge of cutting the back grass can controlled through a grass mouthful automatic control device in can get into being received the grass groove by belt dressing automatic collection to the grass that cuts off.

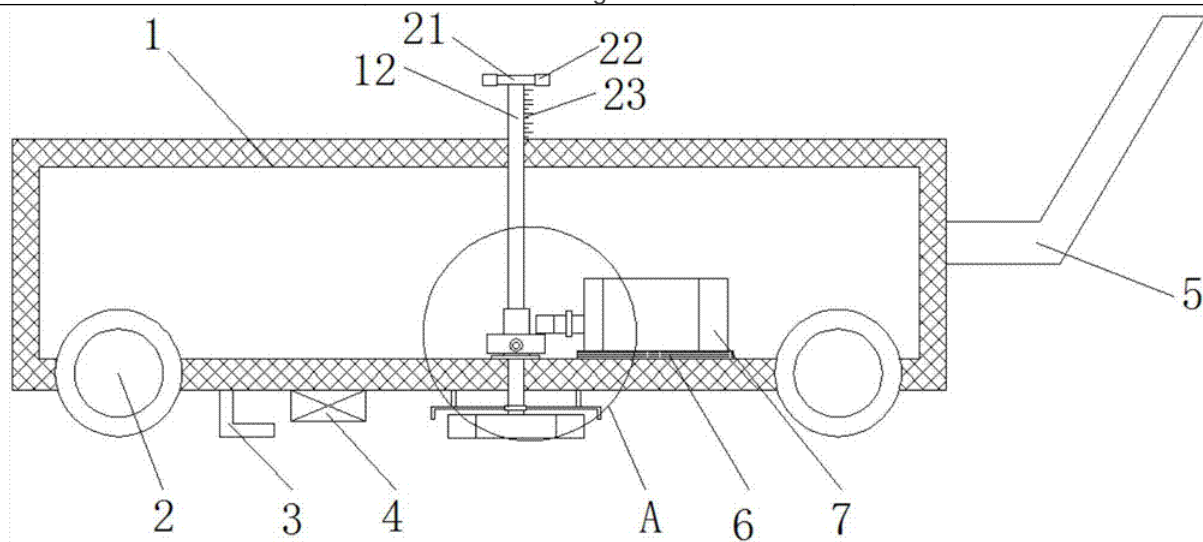
Family 12/63 - FAMPAT - ©Questel

Title

(CN206713421U)

Garden **mower** with adjustable cut natural plant height degree

Images

**Publication data including kind & date**

CN206713421

U 2017-12-08 CN206713421U

**Abstract**

(CN206713421U)

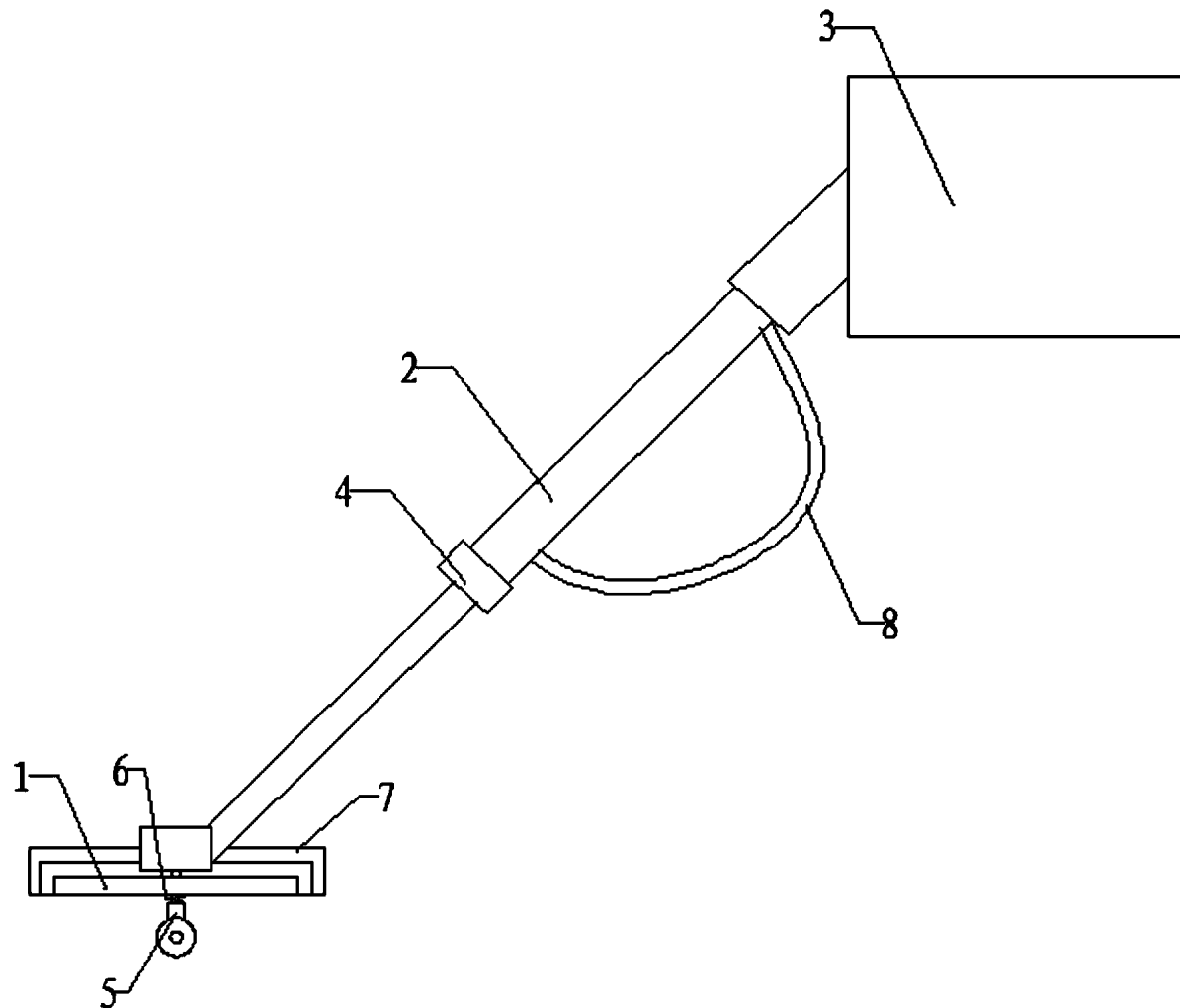
The utility model relates to a **lawn mower** technical field, and disclose a garden **mower** with adjustable cut natural plant height degree, including the organism, bottom of the body's the equal swing joint in four corners has the drive wheel, one side fixedly connected with of bottom of the body promotes the piece, one side fixedly connected with of bottom of the body is located the fan that promotes behind the piece, base fixedly connected with motor is passed through to inner chamber of the engine's bottom, the output shaft of motor passes through the pivot of shaft coupling fixedly connected with, which comprises a bod, the utility model discloses a reasonable in design, easy operation, energy -conserving high -efficient and safety ring protect, through setting up the dwang, take out the fixed pin, and adjustment handle on the rotatory dwang can adjust spinning **blade** and apart from the height on ground, highly can effectually adjust what mow, have solved garden **mower's blade** and can not adjust from top to bottom, and effect that can not effectual assurance repairment when maintaining on the **lawn** influences the holistic pleasing to the eye problem in **lawn**.

Family 13/63 - FAMPAT - ©Questel

Title

(CN204616400U)

Mower**Images**

**Publication data including kind & date**

CN204616400 U 2015-09-09 CN204616400U

**Abstract**

(CN204616400U)

The utility model provides a **mower**, includes cutting knife, connecting rod and motor, the one end that the cutting knife is provided the connecting rod. The motor is provided the other end of connecting rod, and the motor drives the cutting knife motion, the screw rod connecting pipe of connecting rod for cup jointing each other, the connecting pipe directly is provided with positioner, and **mower** is provided with the buffering wheel in the cutting knife lower end, and the buffering wheel is fixed on **mower** by damping spring, the **mower** of new mechanism, and simple structure, small and exquisite flexibility, light in weight, low in manufacturing cost, cover tubular construction that the connecting rod adopted can freely stretch out and draw back, can **harvest** the operation in effectual position to higher, in addition, by the setting of shock attenuation wheel, can adapt to different surface states, has avoided because the rigid contact on **blade** and ground results in the machine impaired and can not the working circumstances among the operation process the effectual life who has lengthened the device.

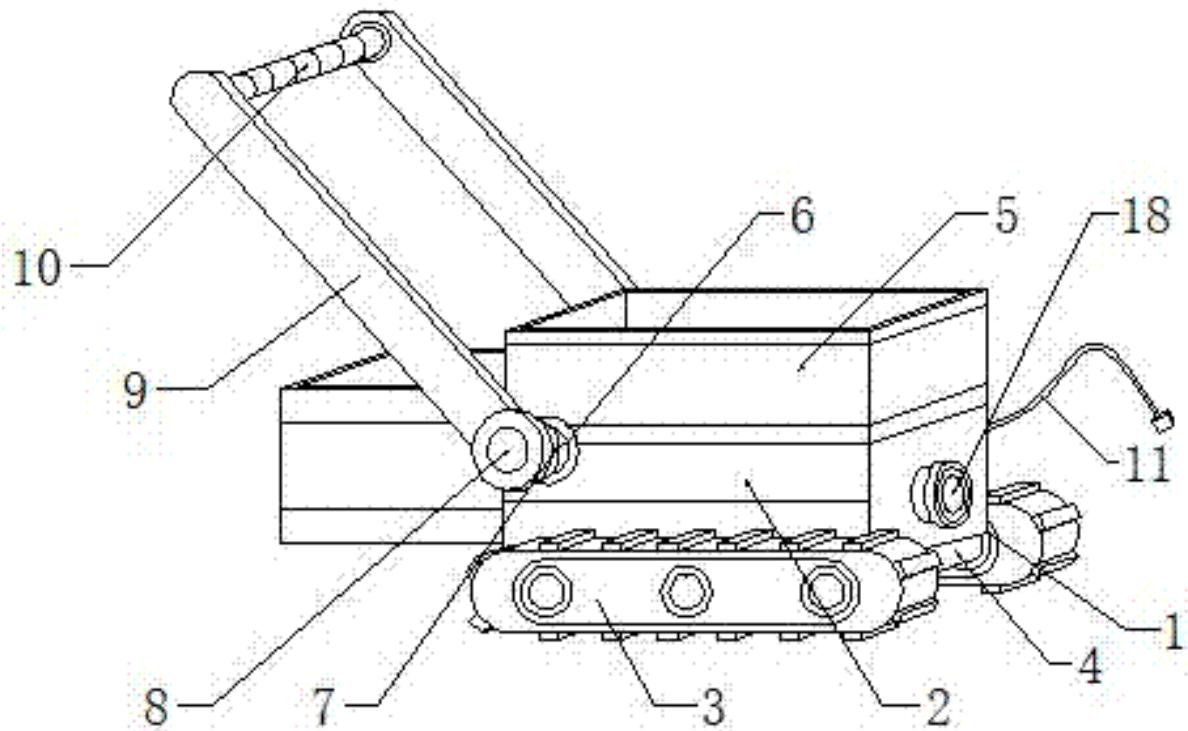
Family 14/63 - FAMPAT - ©Questel

Title

(CN108093832)

Multi-functional caterpillar-type **mower**

Images

**Publication data including kind & date**

CN108093832

A

2018-06-01

CN108093832

**Abstract**

(CN108093832)

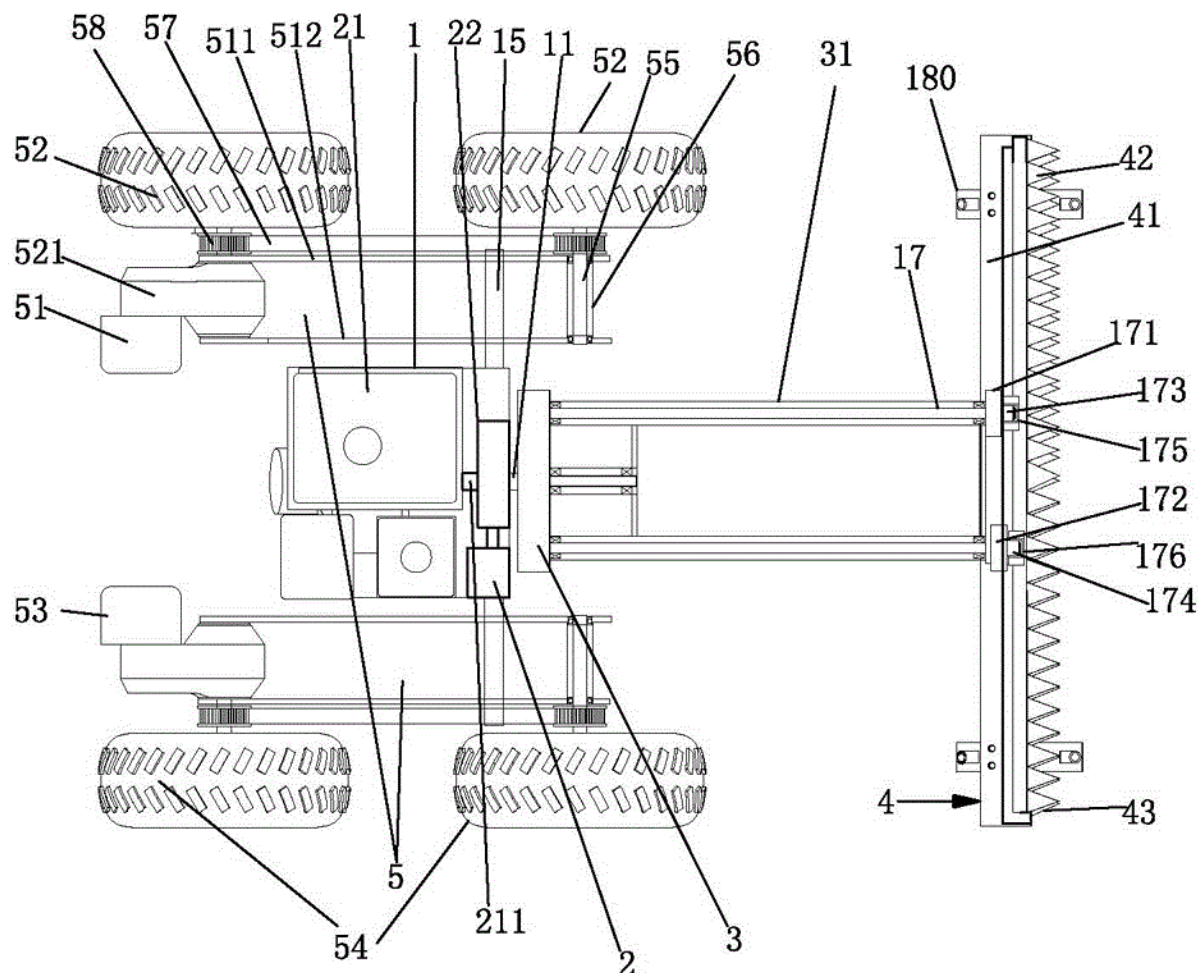
The invention discloses a multi-functional caterpillar-type **mower**. The multi-functional caterpillar-type **mower** comprises a device body composed of a box body and a water tank which are closely attached and fixed; caterpillars are symmetrically arranged on the bottom of the box body, the top of the box body is provided with a placing box closely attached and fixed to the box body, fixing columns are symmetrically arranged at the two sides of the box body, one ends of the fixing columns are embedded in the side wall of the box body, and one sides of the fixing columns are provided with clamp rings. The multi-functional caterpillar-type **mower** can not only provide a mowing service but also water a **lawn** synchronously during mowing by adding water at one side of the **mower**, which is very convenient; during work, an operator can place some tools which need to be applied at the top of the equipment or storage some other stuff, which is very convenient and provides diversified services for a user.

Family 15/63 - FAMPAT - ©Questel

Title

(CN109197115)

Push-plate all-terrain **mower****Images**



Publication data including kind & date

CN109197115

A

2019-01-15

CN109197115



Abstract

(CN109197115)

The invention relates to a push-plate all-terrain **mower**. The push-plate all-terrain **mower** includes a chassis, a control circuit, a power system and a scissors type **mower**, wherein a main shaft is arranged at the chassis, the chassis is connected with a deceleration driving box through the main shaft, a shaft pipe is arranged on each side of the deceleration driving box, a **lawn** cutter driving shaft driven by the main shaft is sleeved in the shaft pipe, a tail end of the **lawn** cutter driving shaft penetrates through the shaft pipe to drive the scissors type **mower**, the scissors type **mower** includes a fixed **lawn** cutter and two moving **lawn** cutters parallelly arranged on the fixed **lawn** cutter, the fixed **lawn** cutter is connected with an end portion of the shaft pipe, one side of the fixed **lawn** cutter and one side of the moving **lawn** cutters are respectively provided with sawteeth, and a tail end of the **lawn** cutter driving shaft penetrates through the shaft pipe to respectively drive the two moving **lawn** cutters. The push-plate all-terrain **mower** has properties of integral compact structure, ingenious design and light weight, and a four-wheel driving mechanism has strong adaptation capability and good trafficability and can easily pass through complicated terrains such as dike slopes, bushes and undulating grass.

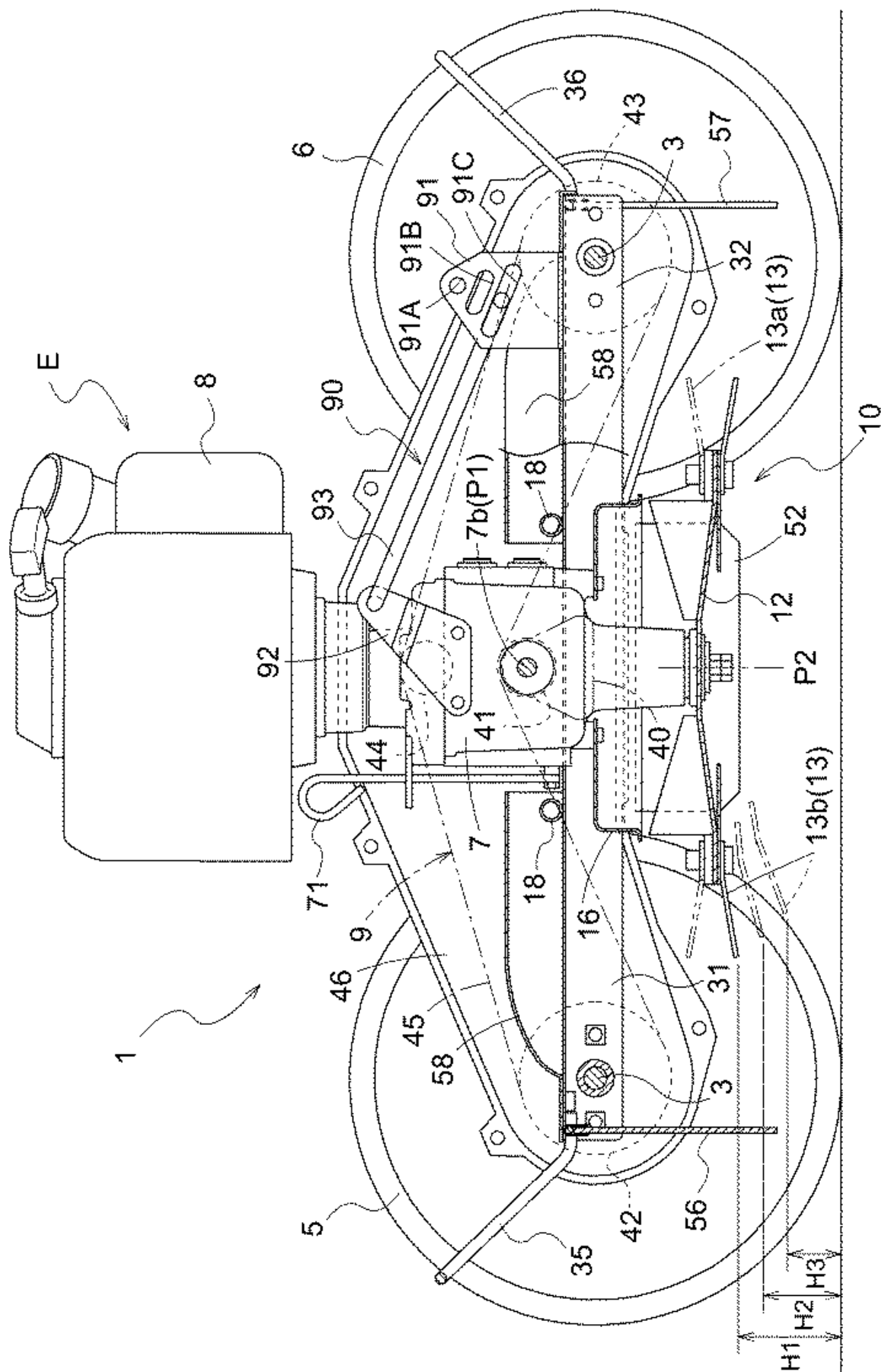
Family 16/63 - FAMPAT - ©Questel

Title

(JP2009038986)

Walking type **mower**

Images



Publication data including kind & date

KR20090014971	A	2009-02-11	KR20090014971
CN101361428	A	2009-02-11	CN101361428
JP2009038986	A	2009-02-26	JP2009038986
JP2009038987	A	2009-02-26	JP2009038987



TW200936035	A	2009-09-01	TW200936035
KR100974379	B1	2010-08-05	KR100974379
CN101361428	B	2011-07-06	CN101361428B
TWI353817	B	2011-12-11	TWI353817
JP4956320	B2	2012-03-23	JP4956320
JP5139743	B2	2012-11-22	JP5139743



Abstract

(JP5139743)

PROBLEM TO BE SOLVED: To realize a walking type **mower** having a light weight at a low cost by simplifying a mechanism for changing and regulating the mowing height of grass.

SOLUTION: This walking type **mower** is constituted by supporting an engine part E on a traveling machine body 1 around a lateral axial alignment P1 so that the front side of a mowing **blade** 10 becomes a front down inclined posture of rocking in lower direction and also capable of freely changing the front down inclining angle α ; of the mowing **blade** 10 in the front down inclined posture by changing the posture of the engine part E and mowing **blade** 10 integrally around the lateral axial alignment P1.

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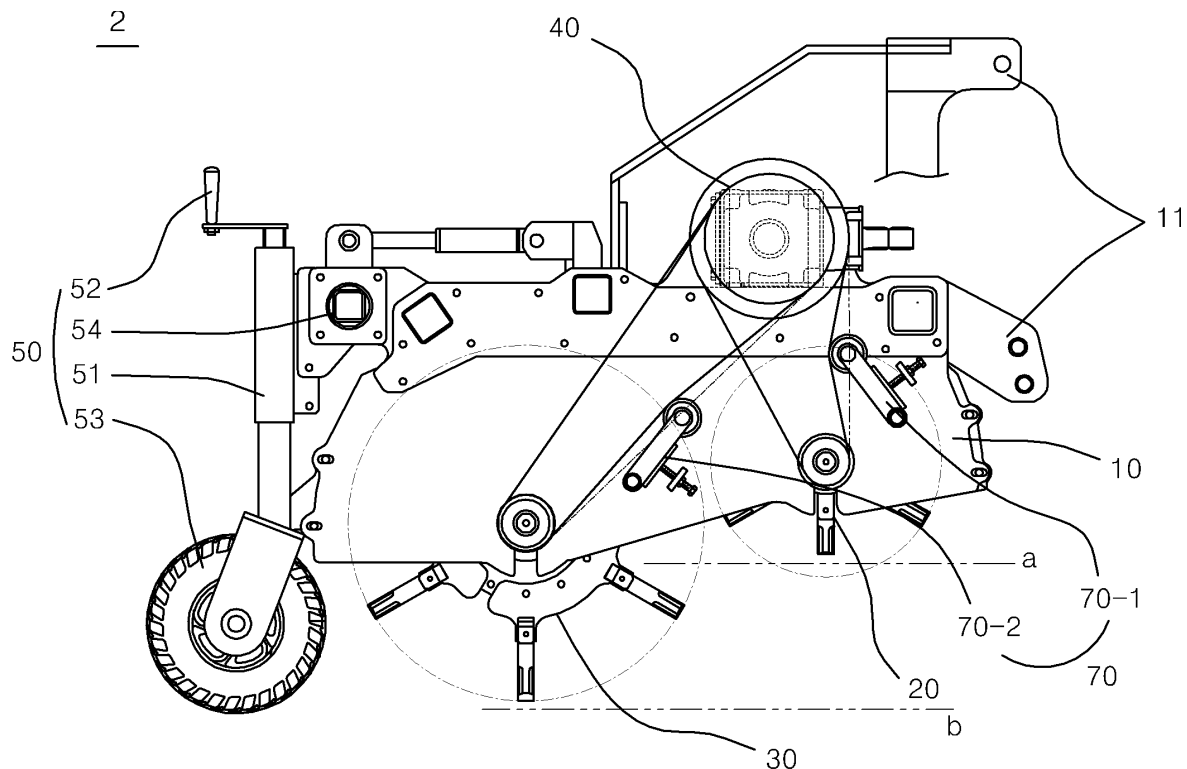
Family 17/63 - FAMPAT - ©Questel

Title

(KR101601806)

Lawn mower tractor having a cutting apparatus of the grooves of the stem

Images



Publication data including kind & date

[KR101601806](#) B1 2016-03-09 KR101601806



Abstract

(KR101601806)

The present invention relates to a weeder which is mounted on a front side or a rear side of an agricultural tractor to cut stems of crops such as underground crops and others, and particularly, to a tractor weeder having a furrow stem cutting unit including a second stem cutting unit installed on the rear such that the second stem cutting unit is separated from a first stem cutting unit to cut stems within a furrow. The purpose of the present invention is to provide a tractor weeder

having a furrow stem cutting unit that is capable of solving various problems generated by uncut crops in furrows during a crop harvesting operation by placing the furrow stem cutting unit on the furrows between ridges, thereby cutting the uncut crop stems. In a tractor weeder installed in the front or rear of a tractor to cut crop stems, a tractor weeder having a furrow stem cutting unit according to the present invention includes: a weeder body having a connecting unit to be mounted on a tractor; a first stem cutting unit which is installed at one side of the weeder body and cuts crop stems within ridges and furrows; a second stem cutting unit which is placed within the furrows to cut uncut stems among crop stems cut by the first stem cutting unit; a power transmission unit which transmits power from the tractor to the first and second stem cutting units; an auxiliary wheel for movement which includes a vertical shaft installed on the weeder body to be rotated around a hinge shaft and formed to be expanded by a handle installed at the upper side, and a wheel installed at the bottom of the vertical shaft such that the auxiliary wheel for movement is capable of adjusting the height of the weeder body while moving the weeder along the furrows; and a rotation adjusting unit which adjusts a gap between the ground and a second cutting blade for furrows of the second stem cutting unit by rotating the hinge shaft to an arbitrary angle.

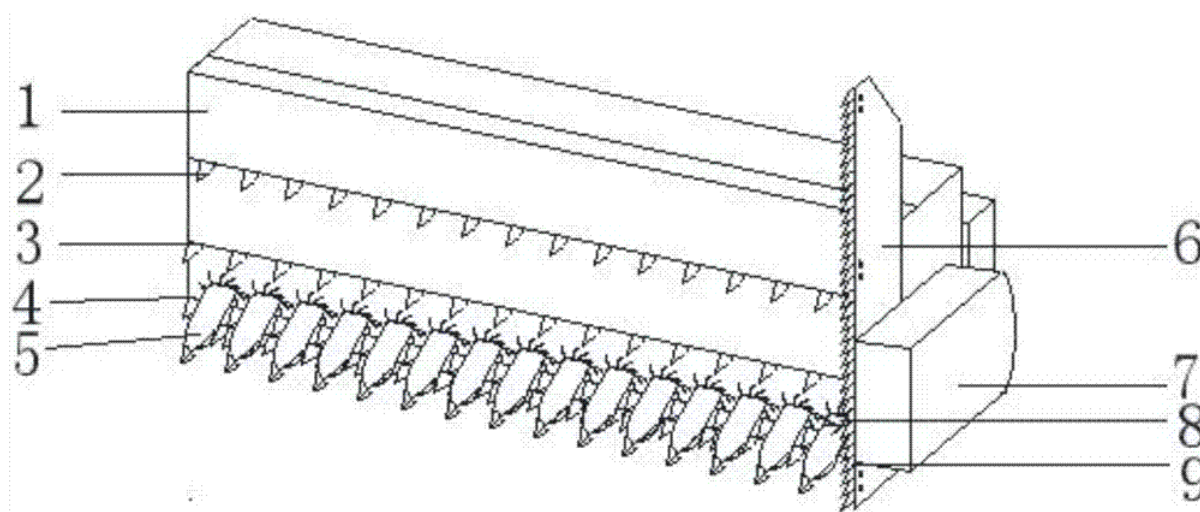
Family 18/63 - FAMPAT - ©Questel

Title

(CN208047301U)

Novel **mower**

Images



Publication data including kind & date

[CN208047301](#) U 2018-11-06 CN208047301U



Abstract

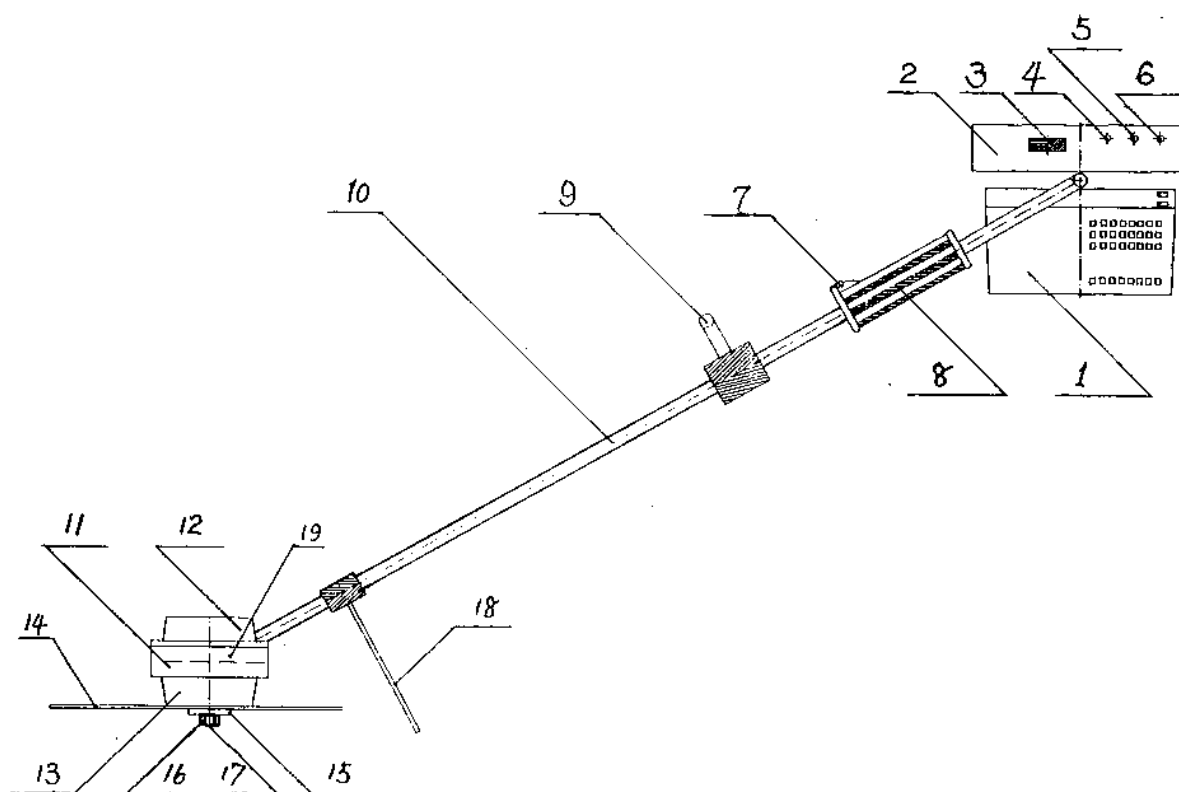
(CN208047301U)

The utility model relates to a novel **mower**, including organism, divider, the organism with divider fixed connection, the divider tip is provided with the lifter, the organism outside is equipped with cutting knife combination no. 1, cutting knife combination no. 2, cutting knife combination no. 3 respectively, the organism lateral part is equipped with winding separator, side transmission case, be equipped with cutting knife combination no. 4 on the winding separator, inside action wheel, the transmission case of being equipped with of organism, the action wheel pass through the transmission shaft with the transmission case axle moves the connection, the last fixedly connected with of transmission box output shaft is from the driving wheel, this follow driving wheel pass through the transfer line and the transmission shaft moves the connection, the drive wheel through the side driving wheel with cutting knife combination no. 4 is connected. The utility model discloses a to adding winding separator and cutting combination no. 4 on the **lawn mower**, pile up in the time of effectively solving the cutting on the winding separator hourglass of forage grass cut with the problem of follow -up cutting, have easy operation, convenient to use, characteristics such as efficient of mowing.

Family 19/63 - FAMPAT - ©Questel

Title

(CN2479726U)

Hand carried dc motor driven **mower****Images****Publication data including kind & date**

CN2479726

Y

2002-03-06

CN2479726U

**Abstract**

(CN2479726U)

The utility model relates to a portable direct current dynamo grass **mower** comprising an accumulator, an operating rod, a mowing apparatus and a controller, the accumulator and the controller are arranged at the tail of the operating rod, the mowing apparatus is arranged at the head of the operating rod, the mowing apparatus comprises a magdynamo-driven **blade**. The grass **mower** has the advantages of only need for hand-held to work, compact appearance, rational structure, portability, light whole machine weight, extremely little noise, electricity saving, high working efficiency, safety, reliability, simple and easy operation. The utility model applies to grassplot trimming, orchard grass-clearing, grass **harvest** and care of woods, which is an environment protective mechanical arm.

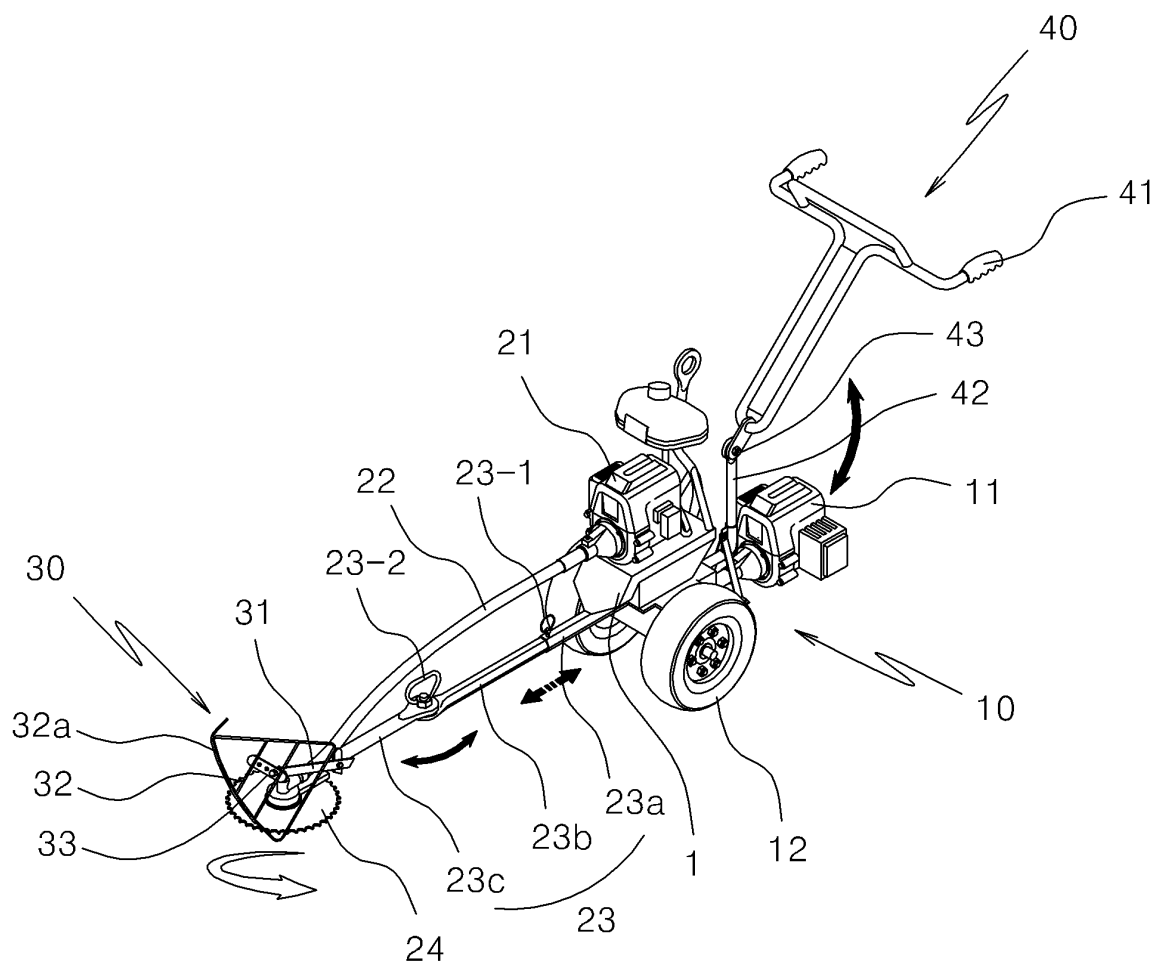
Family 20/63 - FAMPAT - ©Questel

Title

(KR200460767U)

crops for grass eliminator

Images

**Publication data including kind & date**

KR200460767

Y1 2012-06-12

KR200460767U

**Abstract**

(KR200460767U)

The present invention relates to agricultural crop (soybeans, such as breaking) supplied **harvest** stems are adapted to be particularly relates to a **lawn mower**, particularly the driving means and the cutting means is provided for easily moving the operator of the agricultural crop (soybeans, breaking or the like) of the stems are adapted to be capable of running crops is related to **lawn mower**. Such a design that can travel of the mowing crops, the mowing machine, in order to move the driving means for driving a wheel; forward force to the stem to cut the crop by using the rotary cutting **blade** provided with a cutting means; the rotary cutting **blade** to cut the crop stalk guide so that the guide means; operating means adapted to contain therein is provided.

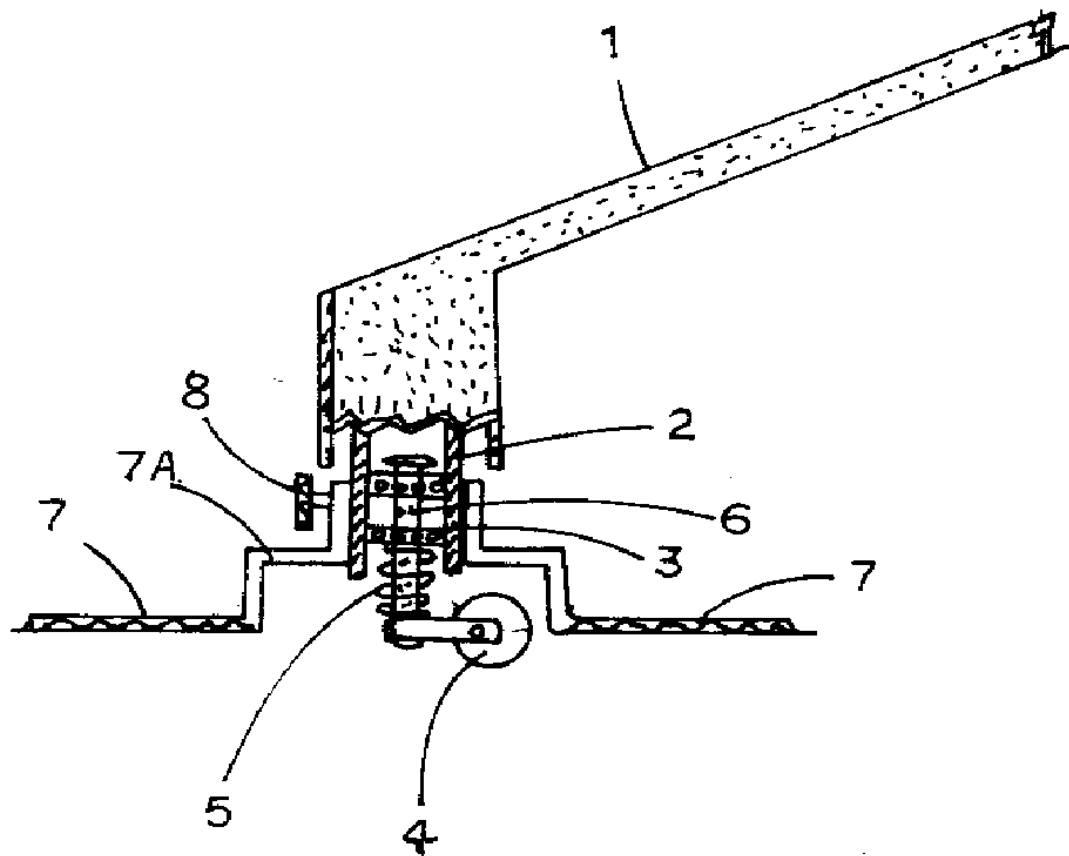
Family 21/63 - FAMPAT - ©Questel

Title

(KR19990010541U)

Mowing

Images



Publication data including kind & date

[KR19990010541](#) U 1999-03-15 KR19990010541U



Abstract

(KR19990010541U)

At a time when a conventional **lawn mower** and should start the swallow, even during operation at rest against the floor was not between.

The present invention relates to an improved rotary **lawn mower** singhong injuries to the point in the rotation of the chair to free a working stretch placing a roller for pushing and pulling back and forth when it is at the bottom of the testee and the operation of honeysuckle is greater than and, when you want to increase the depth of cut of the **lawn mower** handle for adjusting the depth by springs so as to be, and back and forth relative to the floor while pushing and pulling gently honeysuckle operations can be useful to the design of the present invention.

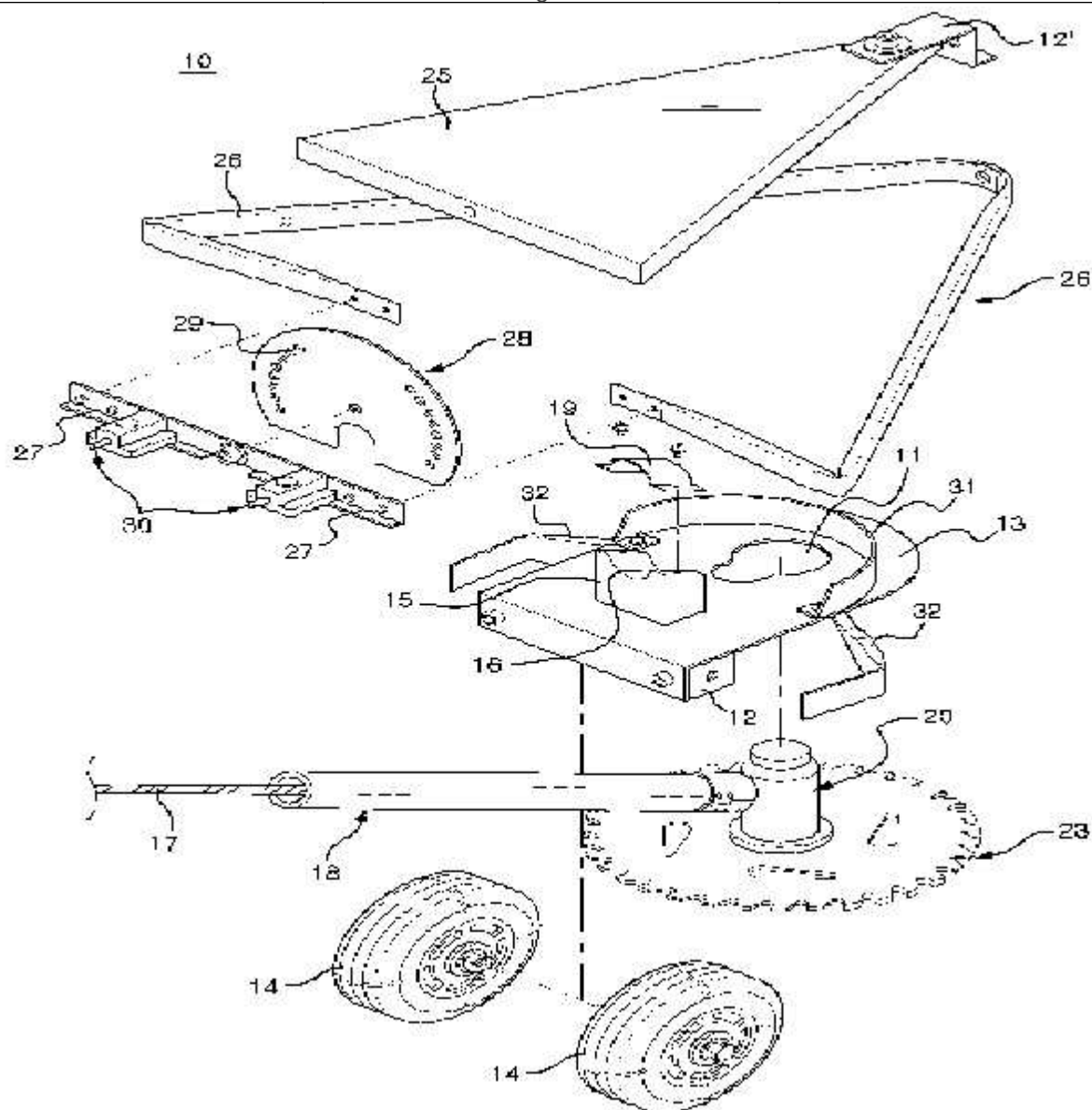
Family 22/63 - FAMPAT - ©Questel

Title

(KR200408715U)

An apparatus for harvesting the crops

Images



Publication data including kind & date

KR200408715

Y1 2006-02-13

KR200408715U



Abstract

(KR200408715U)

The present invention relates to the field of cultivation ridge provided in the wheel and the like can be moved so as to, between both wheels in the front of the **lawn mower** (mowing machine) receive power supplied from the disc so that the **blade** is rotated in the form of a ridge planted in the planting of bean banner or awake and barley crops where the bottom of the cut is cut at the same time so as to be impacted by the crop is not aligned in the advancing direction of the left or right can be reclined configured without much labor by a relatively short period of time is larger than the land so as to be capable of harvesting crops and, when the operator is upright from the body so as to be able to work while moving very convenient to **harvest** crops such as beans efficiently while the crop harvesting apparatus so as to be performed is disclosed.

The present invention relates to a crop harvesting apparatus according to the central hole is formed in the top and, at the rear end at both sides of the bracket is secured to the front plate and the bottom of a predetermined size; on the outer surface of the bottom plate of the bracket before, after being coupled rotatably by a pair of right and left wheels; spaced a predetermined distance from the center of the through holes of the rear side of a lower plate vertically upward in the rear part of the top surface and a lower vertically installed on the top surface of the plate being formed of an inclined slope of 10-45°, an inclined top surface having a recess formed thereon with the center of the lower support; fitted on the lower support of the seating groove with a clamp in a fixed state, the distal end is positioned above the bottom plate on which the through hole, through the interior of the outer rotary force of the electric wire for delivering (or transmission shaft) is fitted in the form of a band of the power of the power band pipe sandwiched and bonded to the distal end

portion, the electric wire (or transmission shaft) inside a rotational force transmitted through a rotational force in a direction perpendicular to the horizontal direction to convert a vertical/horizontal bevel gear is provided with a gearbox; on the bottom plate of the gear box in a position situated lower horizontal bevel gear fixed on the axis of rotation of the disk in place in the form of a combined with the rotating blades; fitted to the top surface of the rear side of the power band clamp is fixed in a state where the upper support; the lower support plate are arranged parallel to the rear part in a state where the upper end of which is fixedly coupled to the upper support, a rear end portion is narrow and wide tip end portion and an upper support plate and is a triangular shape; in the horizontal direction from the left and right sides of the upper plate at a predetermined interval in a bean curd cut operation which is provided with less impact to the reclined state in which the guide piece is aligned essentially consisting of.

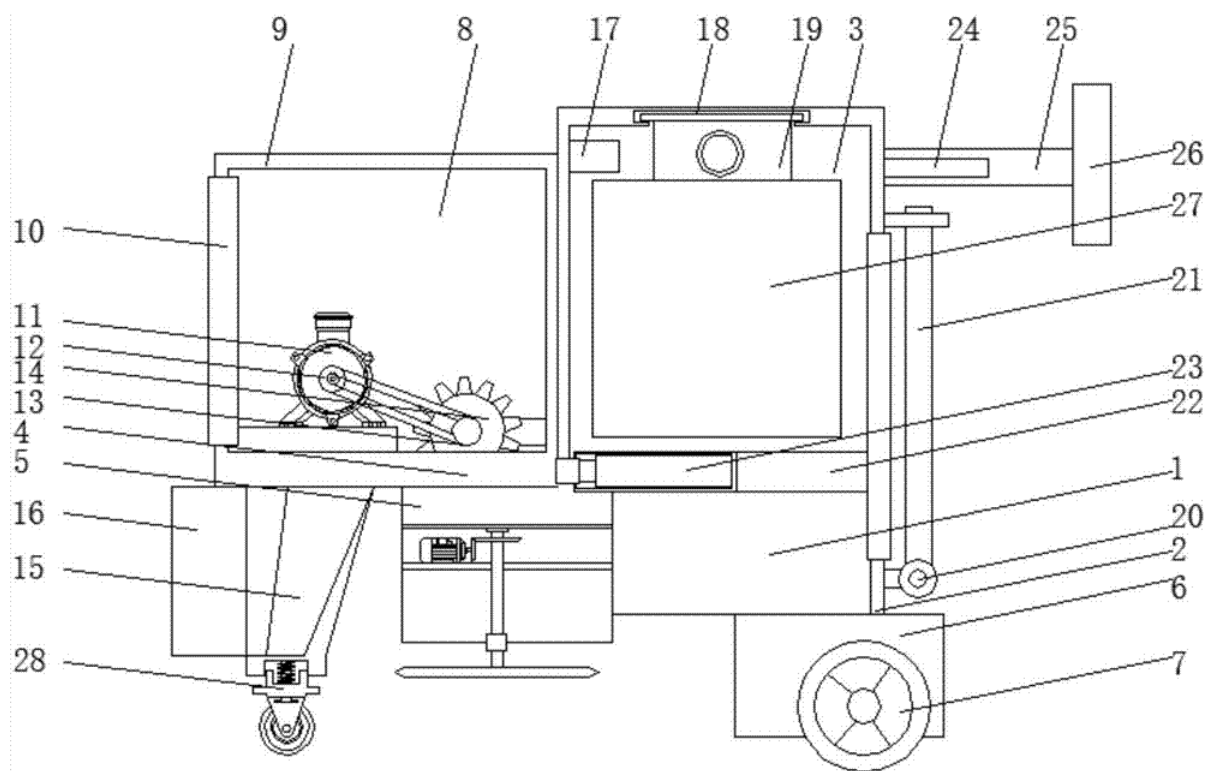
Family 23/63 - FAMPAT - ©Questel

Title

(CN107278498)

Mobile hay mower for municipal gardens

Images



Publication data including kind & date

CN107278498

A 2017-10-24 CN107278498



Abstract

(CN107278498)

The invention discloses a mobile hay **mower** for municipal gardens. The **mower** includes a box body, one side of the inner wall of the box body is fixedly connected with a fixing rack, and the top of the rack is fixedly connected with a battery box, wherein the bottom of the inner cavity of the battery box is fixedly connected with a storage battery pack, a sealing cover is arranged on the upper portion of the inner cavity of the battery box, and the left side of the outer wall of the battery box is fixedly connected with a harvesting power case; the bottom of the inner wall of the harvesting power case is fixedly connected with a first motor through a motor mounting platform, the first motor is rotatably connected with a first belt pulley through an output shaft. The mobile hay **mower** for the municipal gardens relates to the technical field of municipal gardens. The mobile hay **mower** for the municipal gardens has the advantages of solving cutting of weeds of different depth, ensuring wide working range of the hay **mower**, being high in working efficiency, reducing workload of afforesting workers and reducing production costs, and moreover, the movement and protection properties of the hay **mower** can ensure that impetus of the hay **mower** does not completely rely on manpower, and the problem that the hay **mower** can not

be held tightly can be avoided.

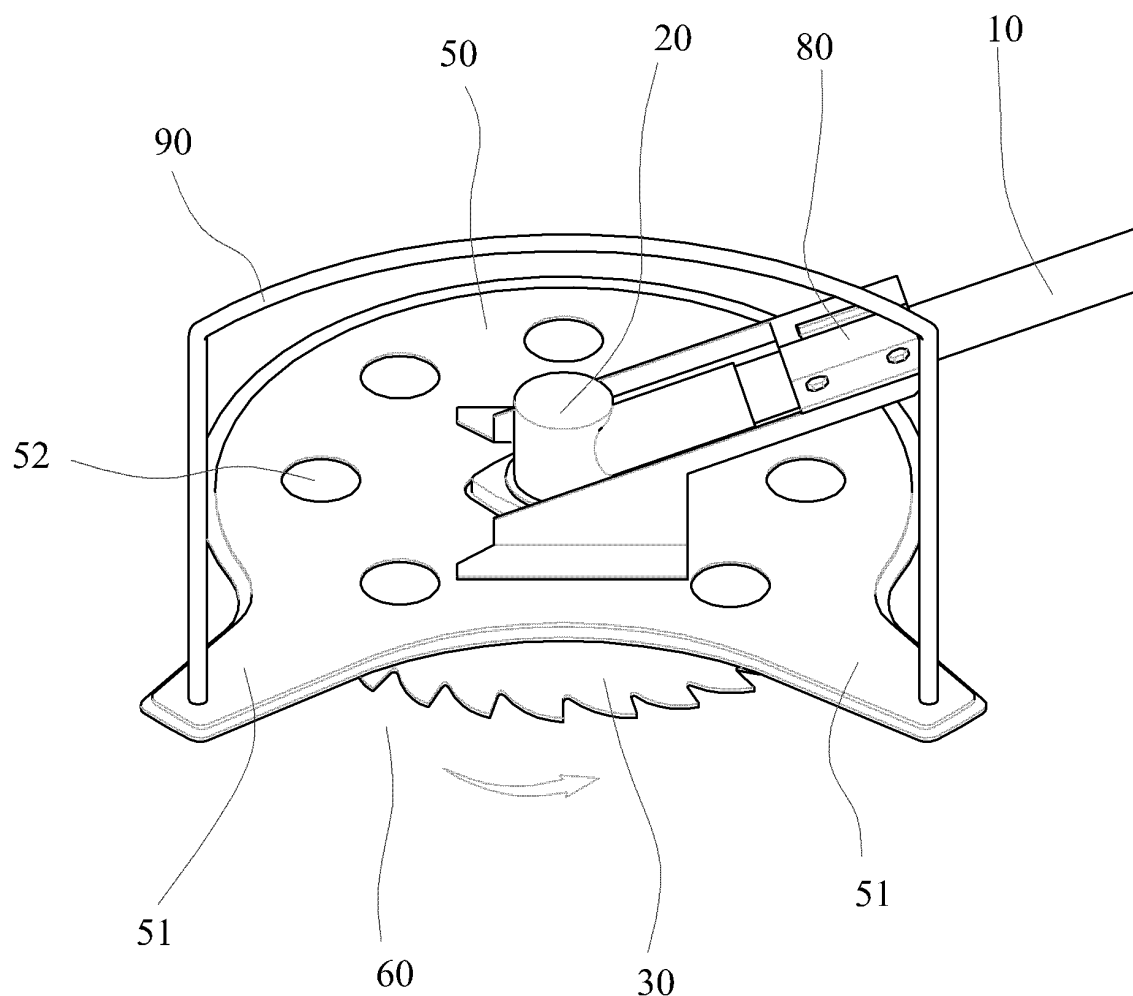
Family 24/63 - FAMPAT - ©Questel

Title

(KR20150130133)

Easy mowing machine **harvest** of soybean

Images



Publication data including kind & date

[KR20150130133](#)

A

2015-11-23

KR20150130133



Abstract

(KR20150130133)

The present invention relates to a mowing machine easy to **harvest** soybeans, which cuts beanstalks when harvesting soybeans, which are farm products, and collects the same to one side. The mowing machine comprises: a gearbox installed at a front end of a worktable of the mowing machine; a rotation saw **blade** fixated to a lower end of the gearbox; and a work safety plate which is fixated to the worktable and covers an upper portion of the rotation saw **blade**. A work space in which beanstalks are gathered on one side of the work safety plate is formed, and a hole for reducing the weight is formed on the work safety plate. In addition, a U-shaped support frame is vertically erected on both sides of the work space, and the height of the support frame can be adjusted.

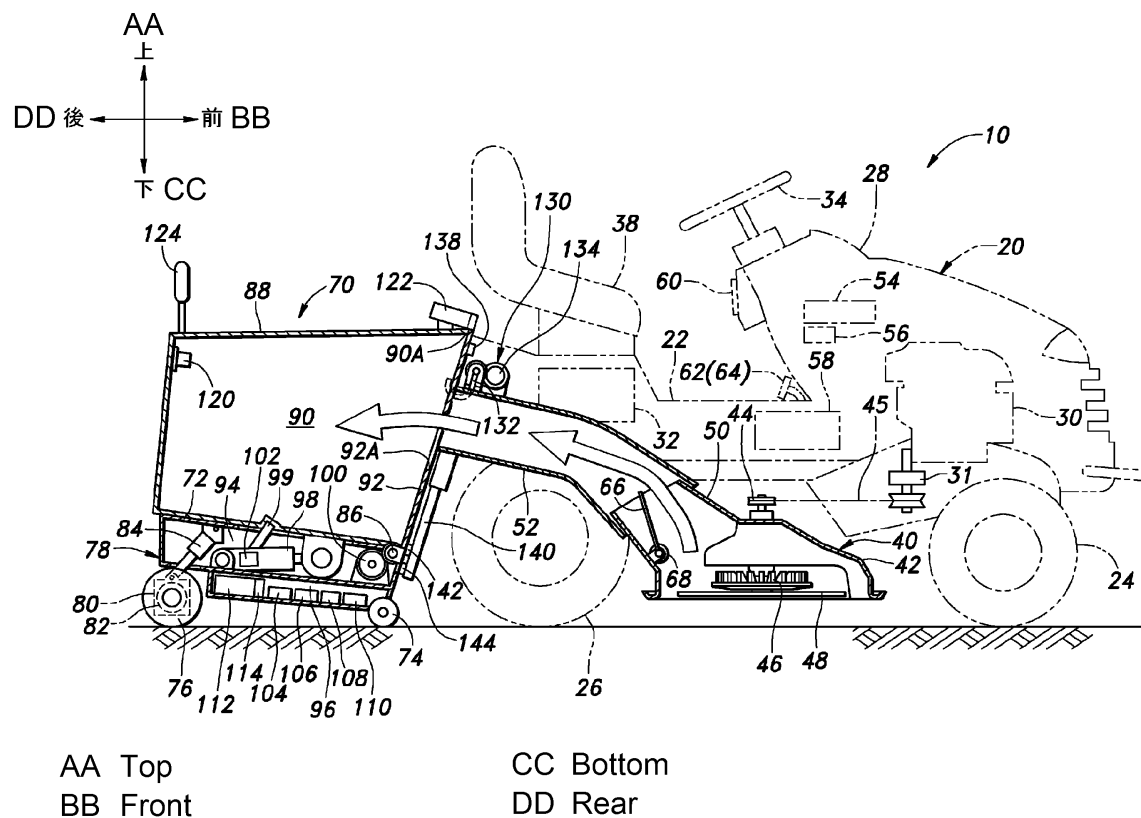
Family 25/63 - FAMPAT - ©Questel

Title

(WO2018123593)

Work machine

Images



Publication data including kind & date

JP2018102201

A 2018-07-05 JP2018102201

WO2018123593

A1 2018-07-05 WO2018123593



Abstract

(WO2018123593)

[Problem] To enable good energy efficiency and good work efficiency without placing a large burden on a worker when disposing of a collected material such as grass clippings that are generated by a **lawn mower** or a similar work machine and accommodated in a container. [Solution] A collected material-accommodating auxiliary machine 70 that is self-propelled and that is equipped with a collected material accommodation section is detachably provided to a main work machine 20 that is self-propelled and that comprises a work unit such as a **lawn** mowing device 40. The collected material-accommodating auxiliary machine 70 is configured so as to be capable of traveling independently to a collected material transportation destination when detached from the main work machine 20. The main work machine 20 is provided with a lift device 130 for lifting the collected material-accommodating auxiliary machine 70 while connected to the main work machine 20 so that front wheels 74 and rear wheels 76 are separated from the ground.

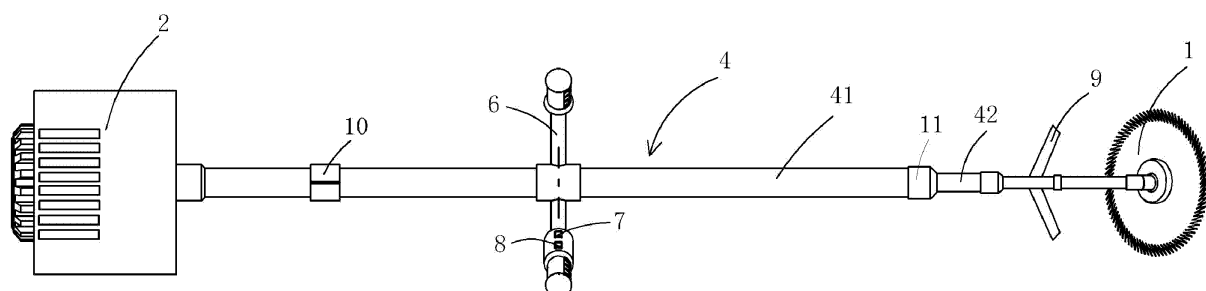
Family 26/63 - FAMPAT - ©Questel

Title

(CN202524761U)

Hand-held **mower**

Images



Publication data including kind & date

CN202524761

U 2012-11-14

CN202524761U

**Abstract**

(CN202524761U)

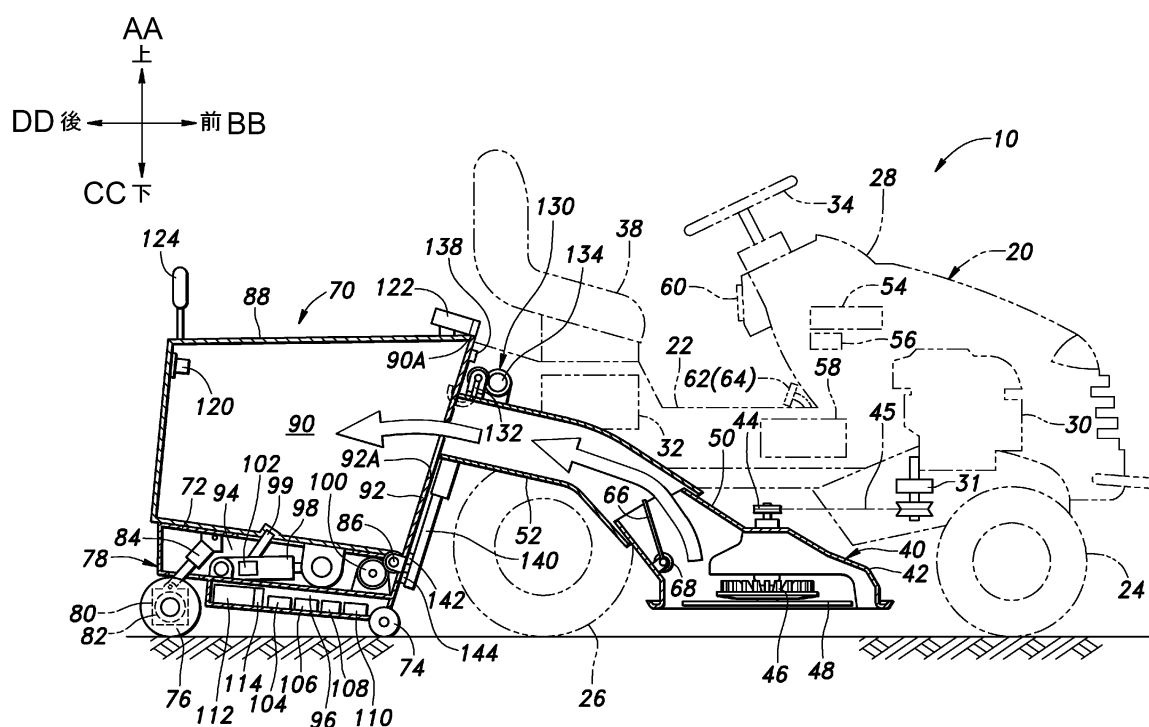
The utility model provides a hand-held **mower**, comprising a disc type gear cutter (1), a motor (2), and a transmission rotating shaft (3) which is used for connecting the gear cutter and transmitting rotation power. The hand-held **mower** is characterized in that the transmission rotating shaft comprises a fixed shaft lever (31) and a telescopic shaft lever (32) connected in a manner of sleeve tubes. The transmission rotating shaft is provided with a hand-held sleeve rod (4) corresponding to the transmission rotating shaft. The hand-held sleeve rod (4) comprises a fixed sleeve rod (41) and a telescoping sleeve rod (42). The hand-held sleeve rod (4) is in a rotating connection with the transmission rotating shaft through a bearing (5). The hand-held **mower** is advantageous in that the structure is simple; the transmission rotating shaft adopts a telescopic structure, and thereby harvesting work at high positions can be achieved and the harvesting or mowing problem of high or distal positions can be resolved; the disc gear cutter is suitable for herbage and weed harvesting in regions having lots of stones and suitable for cutting among heavy branches; the stability is high, and blades are not easy to be damaged, and service lifetime can be prolonged.

Family 27/63 - FAMPAT - ©Questel

Title

(WO2018123589)

Work machine

Images

AA Top
BB Front
CC Bottom
DD Rear

Publication data including kind & date

JP2018102200

A 2018-07-05

JP2018102200

WO2018123589

A1 2018-07-05

WO2018123589

**Abstract**

(WO2018123589)

[Problem] To enable good energy efficiency and good work efficiency without placing a large burden on a worker when disposing of a collected material such as grass clippings that are generated by a **lawn mower** or a similar work machine and accommodated in a container. [Solution] A collected material-accommodating auxiliary machine 70 that is self-propelled and that is equipped with a collected material accommodation section is detachably provided to a main work machine 20 that is self-propelled and that comprises a work unit such as a **lawn** mowing device 40. The collected material-accommodating auxiliary machine 70 is configured so as to be capable of traveling independently to a collected material transportation destination when detached from the main work machine 20. In addition, a raising/lowering device 84 that raises and lowers rear wheels 76 with respect to an auxiliary machine frame 72 is provided to the collected material-accommodating auxiliary machine 70.

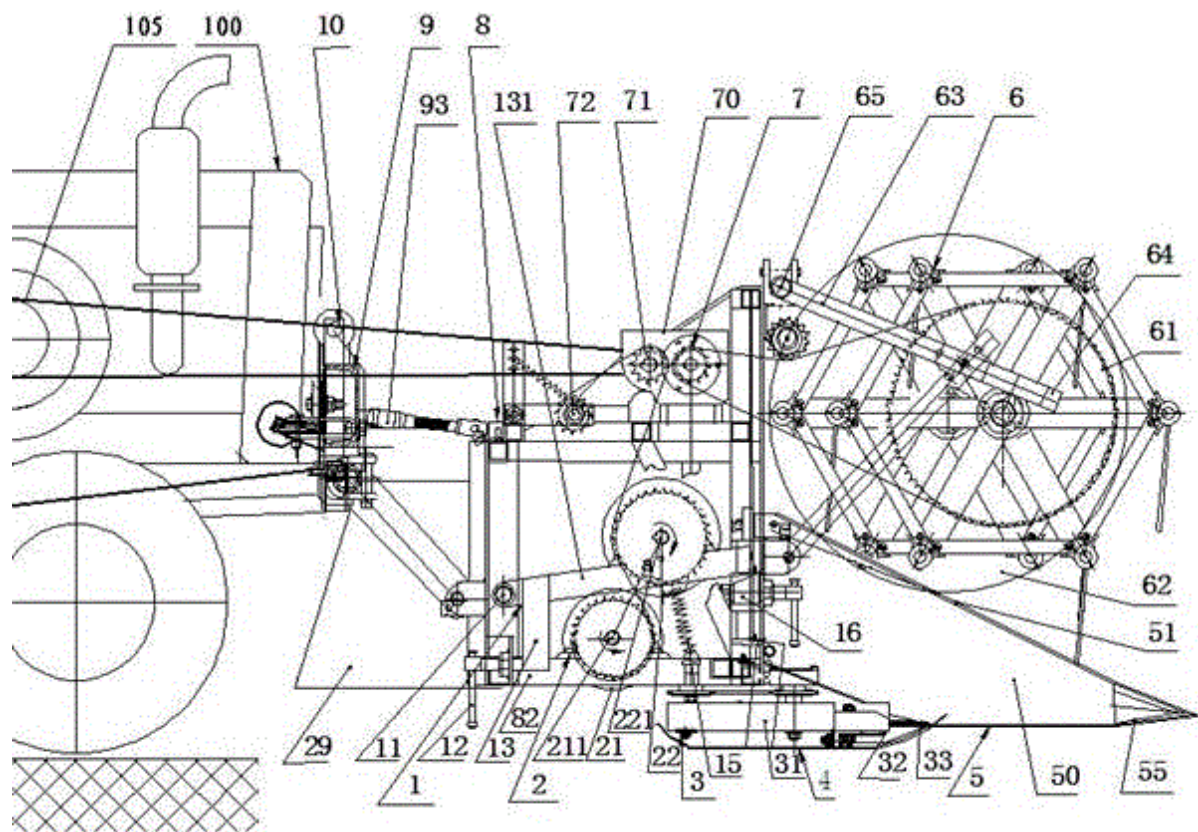
Family 28/63 - FAMPAT - ©Questel

Title

(CN106508260)

Front-suspension elliptical-serrated-knife-chain-disk **mower** conditioner

Images



Publication data including kind & date

[CN106508260](#)

A 2017-03-22 CN106508260



Abstract

(CN106508260)

The invention belongs to the technical field of animal husbandry machinery and particularly relates to a front-suspension elliptical-serrated-knife-chain-disk **mower** conditioner. The front-suspension elliptical-serrated-knife-chain-disk **mower** conditioner comprises a coupling gear, a hydraulic lifting mechanism, an eccentric reel, a powered grass divider, a profile modeling plate, a stubble mowing regulating mechanism and a transmission system, wherein the coupling gear is fixedly connected with a front beam of a four-wheeled tractor; and a machine frame is arranged between the coupling gear and the eccentric reel, a serrated-knife-chain elliptical disk cutter is fixedly connected to the front downside of the machine frame through a header machine frame connecting plate, a herringbone rubber flattening roller is arranged in the machine frame, flattening gap adjusting devices are arranged at the two ends of the machine frame, and a grass bundling plate is arranged behind the machine frame. The front-suspension elliptical-serrated-knife-chain-disk **mower** conditioner is characterized in

that the serrated-knife-chain elliptical disk cutter is an elliptical serrated knife chain disk, which is formed through sequentially hinging multiple sections of knife chains by chain links and sleeves a driving chain disk and a driven chain disk. The front-suspension elliptical-serrated-knife-chain-disk **mower** conditioner is novel in design, compact in structure, good in static and dynamic balance, free of reciprocating inertia force, little in header loss, low in power consumption and high in transmission efficiency and is applicable to the high-speed and high-quality mowing and flattening of lodged and wound Leguminous grasses of medium- and small-sized land parcels such as mountainous regions, terrace fields and inter-planting fields.

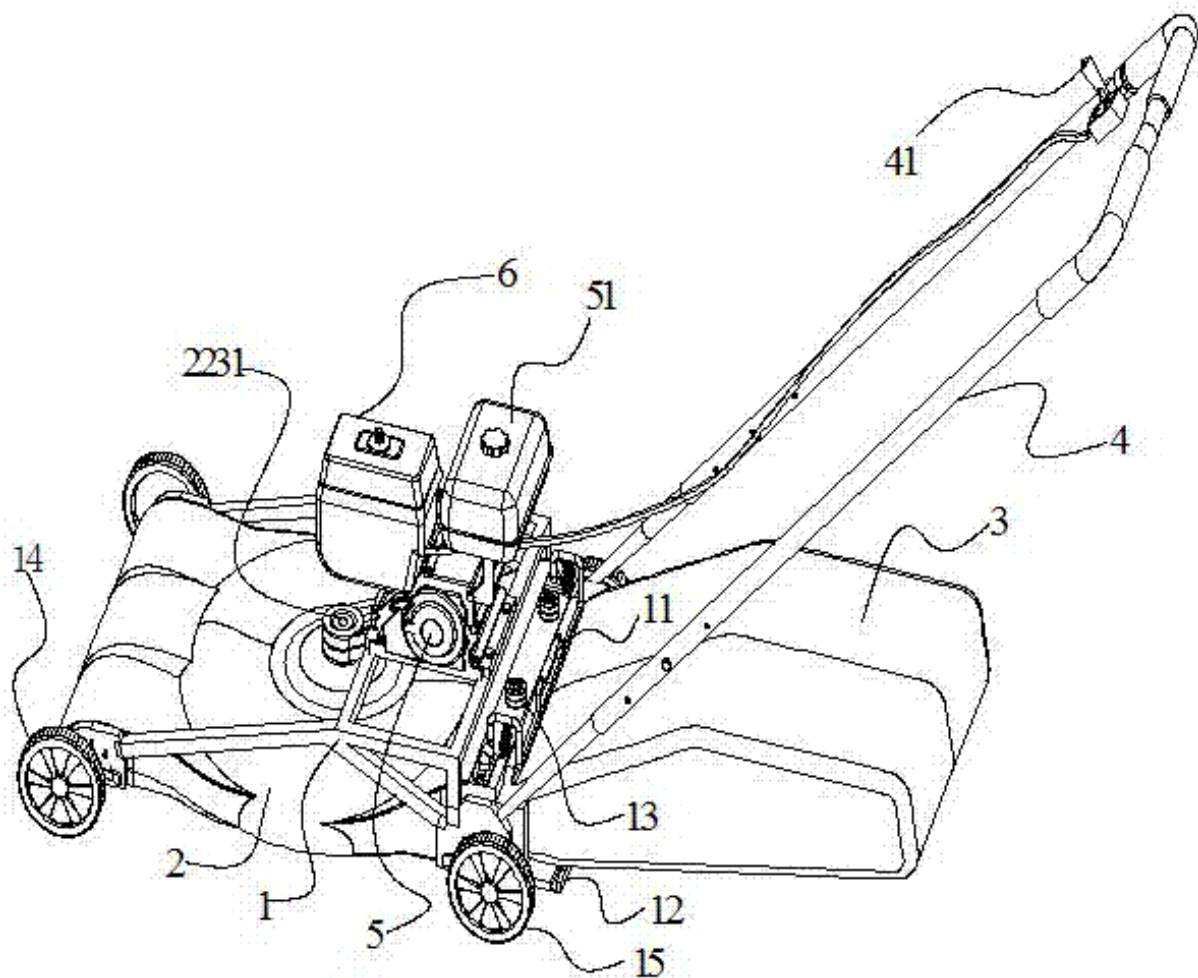
Family 29/63 - FAMPAT - ©Questel

Title

(CN207201329U)

Mower

Images



Publication data including kind & date

[CN207201329](#)

U 2018-04-10 CN207201329U



Abstract

(CN207201329U)

The utility model discloses a **mower**, include the support, reap the case, receive grass case and control rod, be equipped with front wheel, rear wheel, first belt pulley and layer board on the support, hold-down mechanism includes the depression bar, be equipped with pull rod and articulated shaft on the depression bar, be equipped with the extension spring on the articulated shaft, the import has been seted up on the receipts grass case, be equipped with cardboard and saddle in the import, reap to have seted up on the case and reap hole and export, it is equipped with rotatory sword to reap the incasement, the exit is equipped with sweeps the dish, rotatory sword includes axis of rotation, first cutting board and second cutting board, the cutting edge has been seted up to one side of first cutting board, the opposite side of first cutting board is provided with the clapboard, the both sides of clapboard all are equipped with the curb plate. The device simple

structure, convenient operation reaps efficiently, reaps effectually.

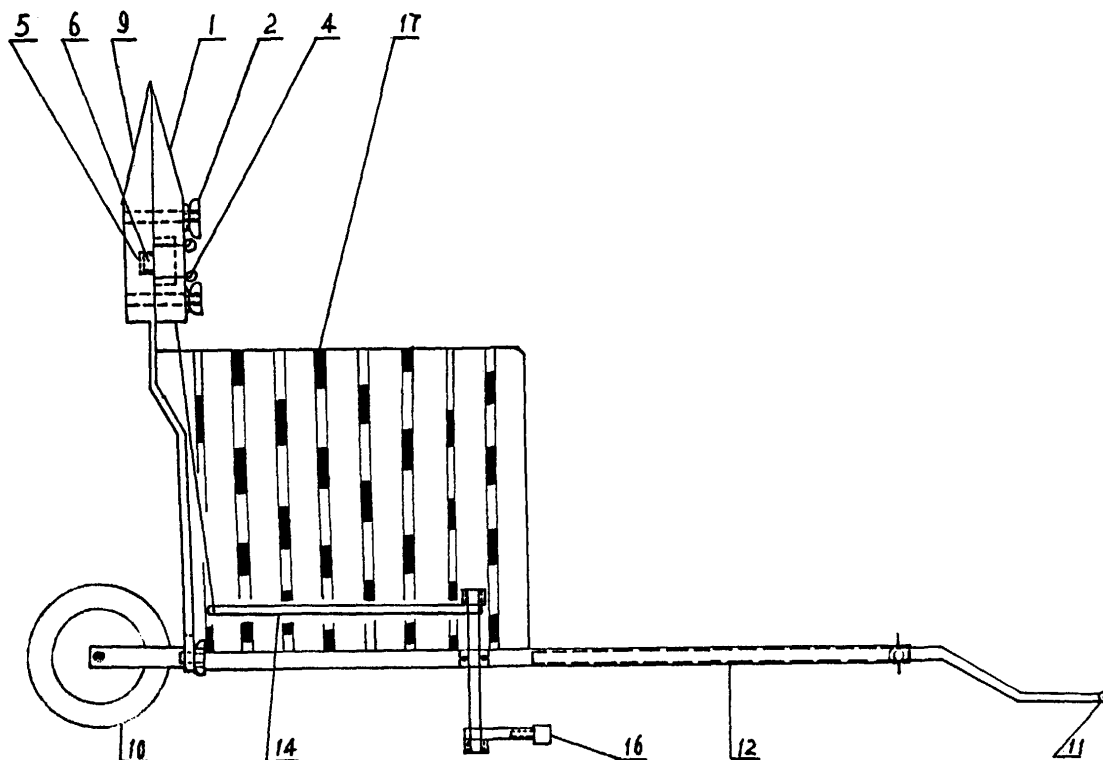
Family 30/63 - FAMPAT - ©Questel

Title

(CN86208056U)

Vertical hand hay **mower**

Images



Publication data including kind & date

CN86208056	U	1987-10-07	CN86208056U
CN86208056	Y	1988-04-13	CN86208056U



Abstract

(CN86208056U)

The utility model discloses a manual vertical **mower**, which is composed of a movable knife, a fixed knife, an advancing wheel, a hook, a grass collecting device, a support bar an arm rest. The utility model is characterized in that a foot pedal on the support bar is connected with the hook, and the hook is connected with the movable knife by a wire rope. The utility model has the advantages of small volume, light weight, and agile and convenient operation in use. The utility model is especially suitable for mowing grass and reaping crops in villages in mountain and hill areas.

Family 31/63 - FAMPAT - ©Questel

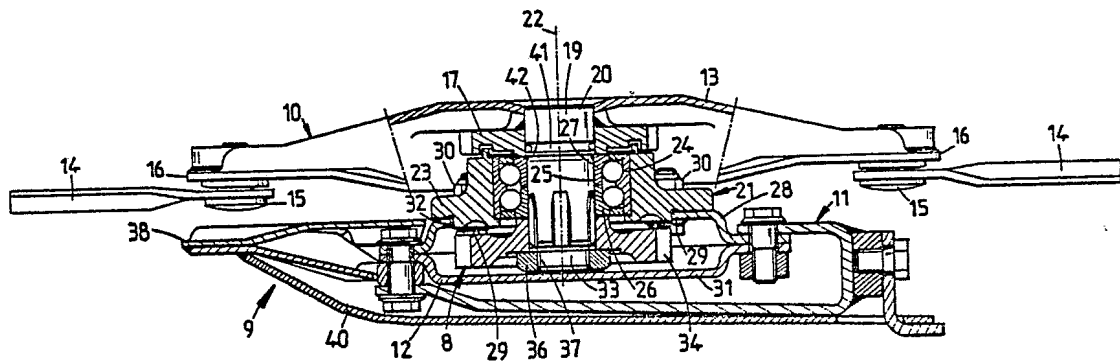
Title

(EP-366580)

Mower with assembly of cutting elements

Images

Fig. 3



Publication data including kind & date

DK525389	D0	1989-10-24	DK8905253
DK525389	A	1990-04-27	DK8905253
FR2638056	A1	1990-04-27	FR2638056
EP0366580	A1	1990-05-02	EP-366580
JP02177814	A	1990-07-10	JP02177814
US4999981	A	1991-03-19	US4999981
FR2638056	B1	1991-06-07	FR2638056
EP0366580	B1	1993-09-29	EP-366580
AT95026	T	1993-10-15	ATE095026
DE68909559	D1	1993-11-04	DE68909559
ES2046521	T3	1994-02-01	ES2046521
DE68909559	T2	1994-04-21	DE68909559
JP2931866	B2	1999-08-09	JP2931866
DK174128	B1	2002-07-01	DK-174128



Abstract

(EP-366580)

The invention relates to mowers. ...<??>According to the invention, the shaft (20) of a rotary cutting member (10) driven from below has a breakage zone (41) located at its end (19) and extending upwards outside the bearing (24). ...<??>The invention is used in the sector of agricultural machinery.

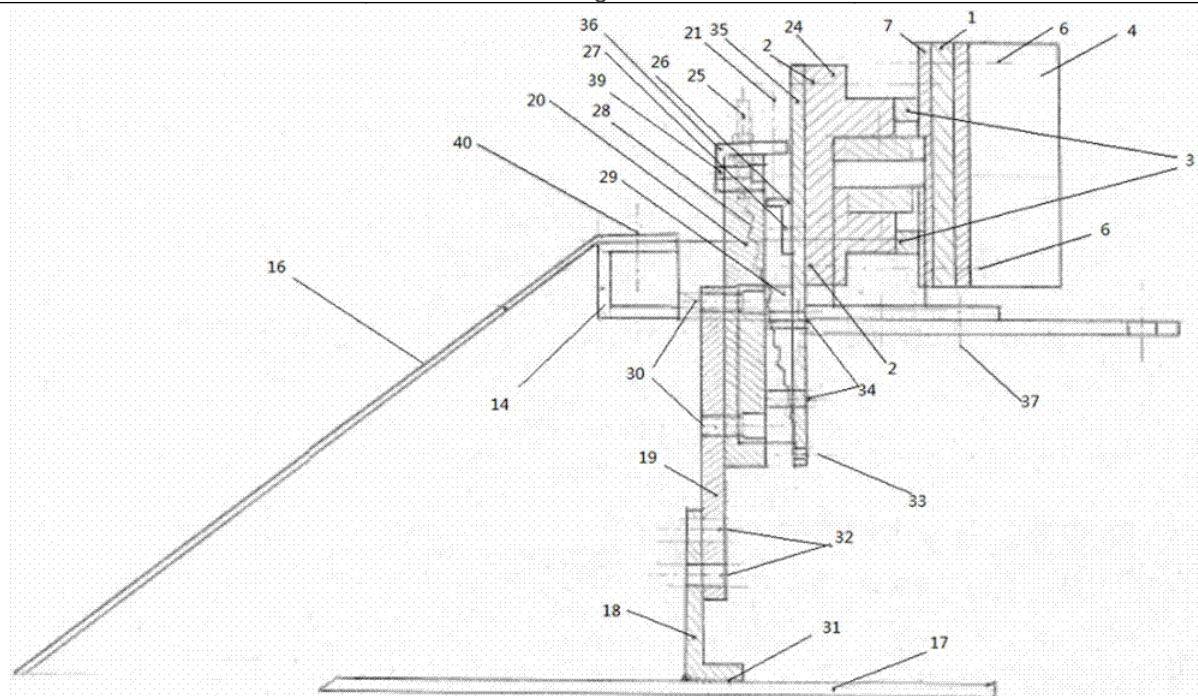
Family 32/63 - FAMPAT - ©Questel

Title

(CN206879466U)

Old leek harvester

Images



Publication data including kind & date

CN206879466

U 2018-01-16

CN206879466U



Abstract

(CN206879466U)

The utility model relates to an agricultural small -size harvester especially relates to an old leek harvester, and leek ground can be clear away futilely simultaneously to this machine. Chooseed foruse the current small -size forage grass **lawn mower** in farm as the power supply, without its cutting knife, and with its power walking part and offset mechanism and the cutting knife connecting hole,can reduce human cost and intensity of labour, to guarantee when reaping old leek and withered leek that the growing point of its root can not receive the injury, the stubble is nor stayed to the while.

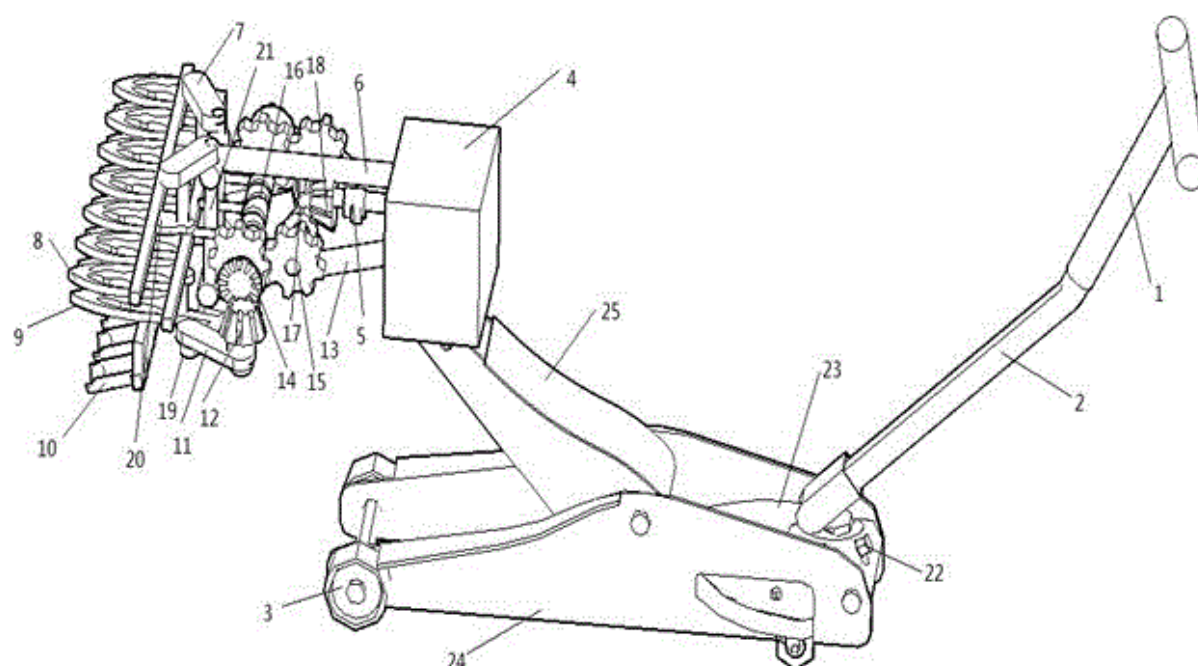
Family 33/63 - FAMPAT - ©Questel

Title

(CN106471896)

Weeding machine

Images



Publication data including kind & date



CN106471896

A 2017-03-08 CN106471896

Abstract

(CN106471896)

The invention provides a weeding machine comprising a machine armrest, a pressure lever, wheels, a small diesel engine, a coupler, a fixed-shaft telescopic connecting rod, a fixed arm, a front-loading **blade**, a middle-loading reciprocating motion **blade**, a rear-loading reciprocating soil scraping plate, a crank arm, a rear-loading bevel gear, a rear-loading telescopic connecting lever, a middle-loading bevel gear, a transmission gear, a cylindrical cam, opposite conical teeth, a transmission conical tooth, a rocker arm, a mud retaining plate, a telescopic connecting rod, a fuel return valve, a hydraulic device, a bearing body and a lifting arm. By the arrangement, power of the diesel engine is transmitted to the cylindrical cam and a crank rocker by the aid of the bevel gear, a straight gear and a transmission shaft, the power transmitted by the cylindrical cam and the crank rocker is converted into reciprocating motion of the middle-loading reciprocating motion **blade** and the rear-loading reciprocating soil scraping plate, and large-scale weed is removed with roots by cooperative use of the front-loading **blade**; during crop rotation, the weeding machine can perform crop **harvest** and ripping and grubbing, function specification can be realized, and actual economical value and practical significance are achieved.

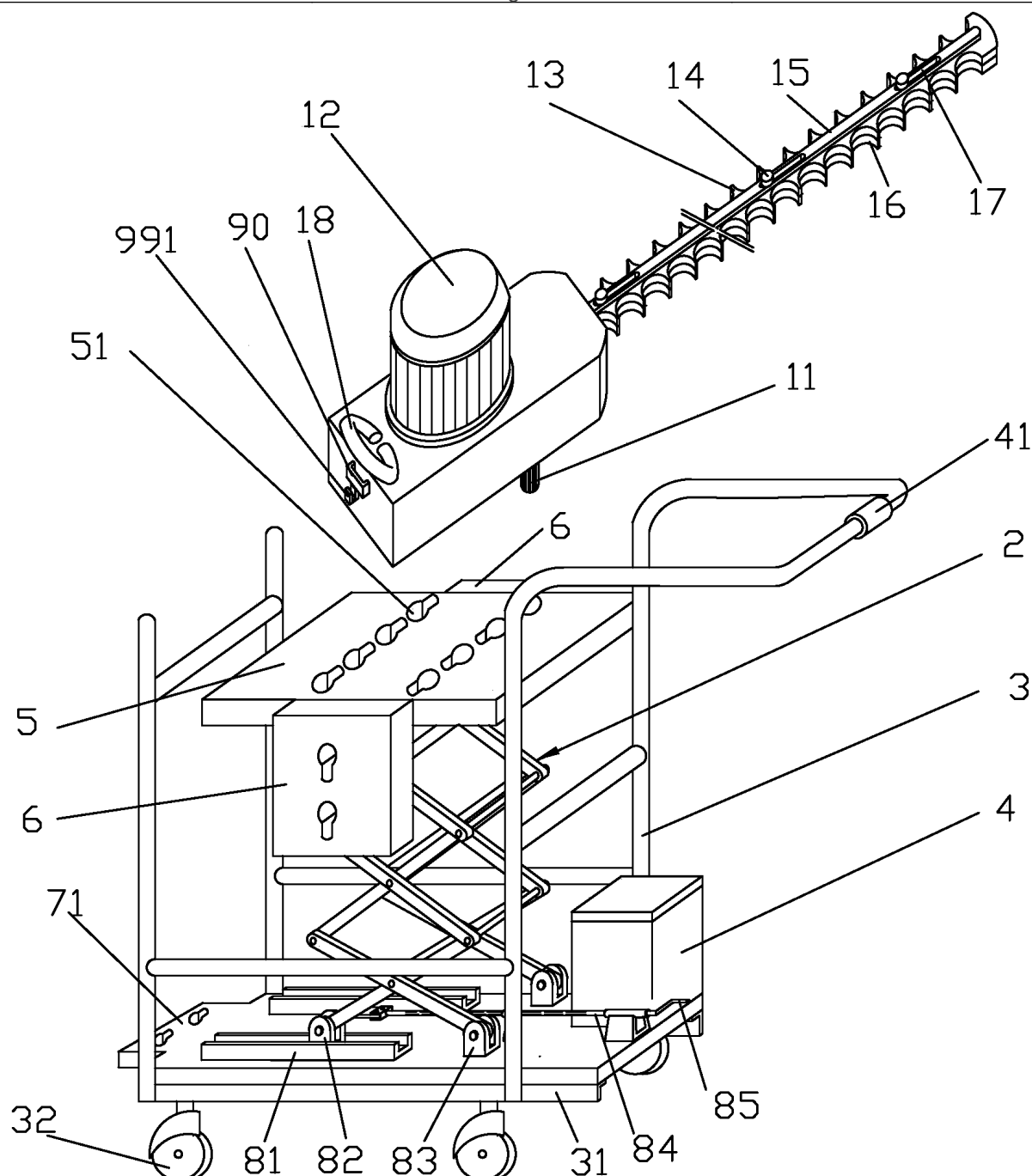
Family 34/63 - FAMPAT - ©Questel

Title

(CN103907484)

Hand-push type multifunctional plant pruning machine

Images



Publication data including kind & date

CN103907484	A	2014-07-09	CN103907484
CN103907484	B	2015-09-16	CN103907484B



Abstract

(CN103907484B)

The invention relates to plant pruning equipment, in particular to a hand-push type multifunctional plant pruning machine which comprises a four-wheeled trolley, an electric hedge trimmer and a scissors fork type lifter. The electric hedge trimmer comprises a power portion and knife scissors, a high bedplate which is used for supporting the electric hedge trimmer is arranged on the top of the scissors fork type lifter, the electric hedge trimmer can be of a unidirectional drive or bidirectional drive structure, two vertical columns are arranged at the bottom of the power portion of the electric hedge trimmer, two front legs at the bottom of the scissors fork type lifter are movably supported on guide rails, and two rear legs at the bottom of the scissors fork type lifter are rotatably connected with a bottom plate; a low bedplate is formed by the front end of the bottom plate; side upright plates are hinged to at least one side of the high bedplate, and a plurality of through holes which are used for supporting the electric hedge trimmer and are matched with the columns in an insertion manner are respectively formed in the high bedplate, the side upright plates and the low bedplate. The hand-push type multifunctional plant pruning machine has the advantages that the labor intensity of workers can be relieved, the hand-push type

multifunctional plant pruning machine is high in pruning quality, the electric hedge trimmer can be bidirectionally driven, is particularly applicable to pruning green belts and is particularly suitable to be used as a crop harvester or a **lawn mower**, and the work efficiency can be obviously improved.

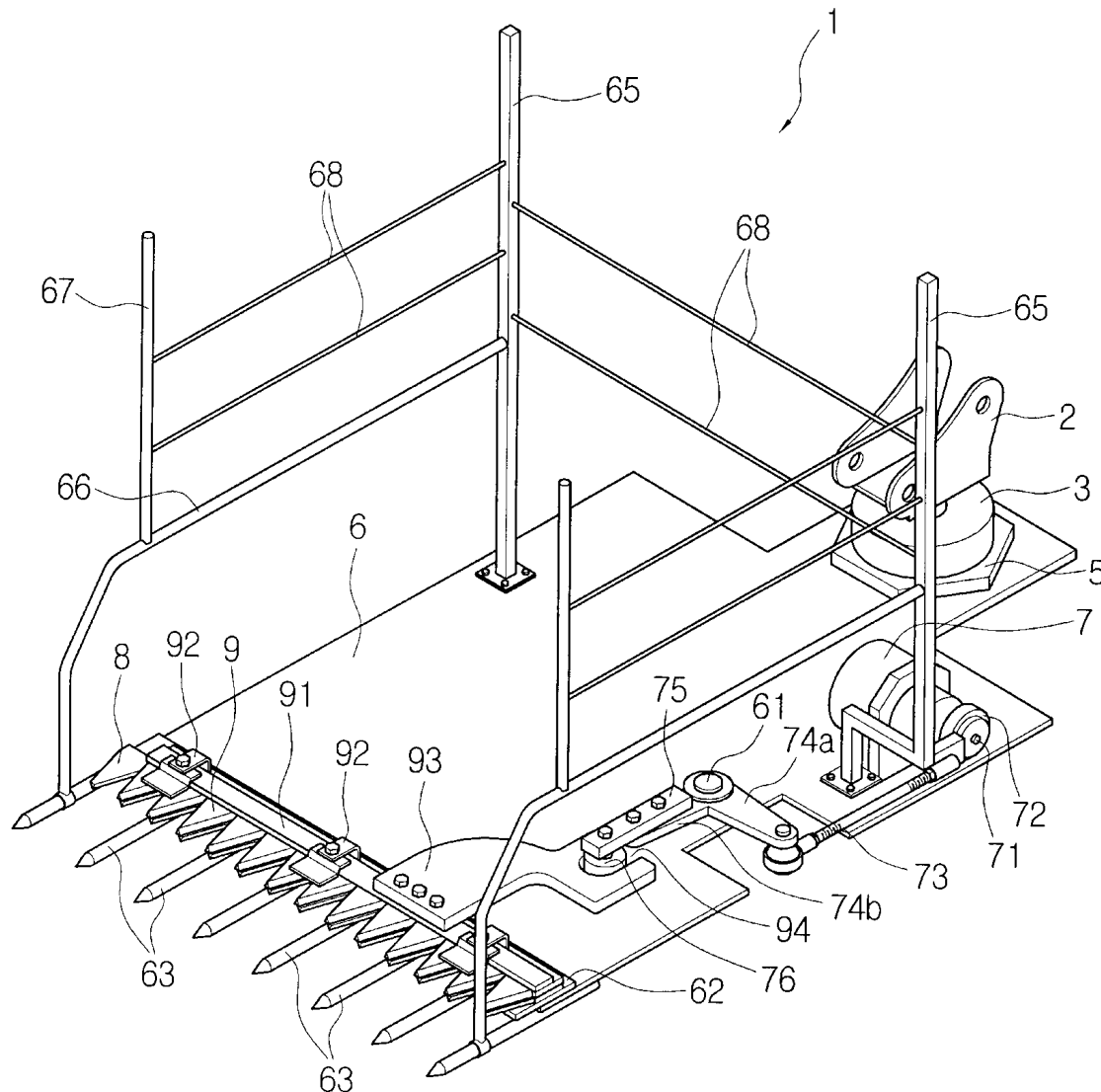
Family 35/63 - FAMPAT - ©Questel

Title

(KR100633396)

Weed cutting machine for excavator

Images



Publication data including kind & date

KR100633396

B1 2006-10-02 KR100633396



Abstract

(KR100633396)

A grass **mower** for an excavator is provided to cut weeds at the shore, riverside, or wide fields by assembling the grass **mower** to a front end of a boom of the excavator instead of a bucket and operating the grass **mower** by hydraulic pressure of the excavator. The grass **mower**(1) for an excavator is composed of a bracket(2) detachably installed to the front end of a boom of the excavator; a gear box(3) combined at the bottom side of the bracket; a first hydraulic motor fixed to one upper end of the gear box and rotated forward or reversely by hydraulic pressure of the excavator; a reduction output gear mounted on the gear box to transmit forward and reverse rotating force of the first hydraulic motor as reduced rotation output; a grass mowing plate(6) installed at the bottom side of the gear box and turned forward or reversely by receiving forward/reverse rotating force from the reduction output gear; plural fixed blades(8) continuously aligned in the front end of

the grass mowing plate together with a saw **blade** on the straight line; plural movable blades(9) arranged on the fixed blades on the straight line to reciprocate across each fixed **blade**; a second hydraulic motor(7) fixed on one side of the grass mowing plate and rotated by hydraulic pressure of the excavator; an eccentric cam(72) installed at an output shaft(71) of the second hydraulic motor to convert a rotary motion of the output shaft into a reciprocating motion; a reciprocating link(73) connected to one side of the eccentric cam to transmit a reciprocating motion; and a rotating link connected to the free end of the reciprocating link and reciprocatingly rotating within a range of the predetermined angle by receiving the reciprocating motion of the reciprocating link to reciprocate the movable blades in a direction of the straight line.

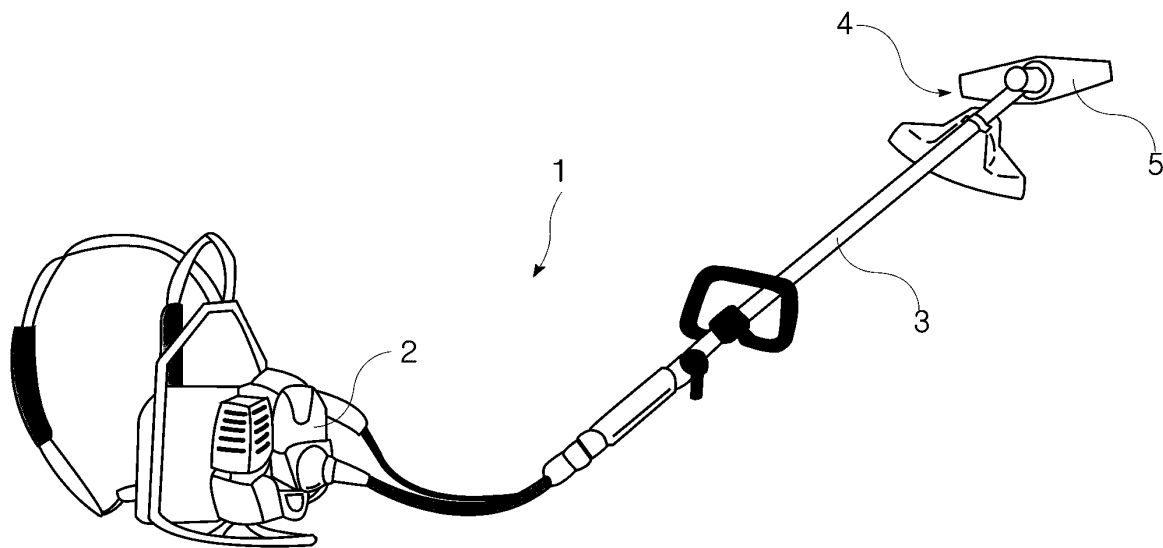
Family 36/63 - FAMPAT - ©Questel

Title

(KR100983156)

Support device for weed cutter

Images



Publication data including kind & date

[KR100983156](#)

B1 2010-09-20 KR100983156



Abstract

(KR100983156)

PURPOSE: A supporting apparatus for a grass **mower** is provided, which can expand the application range of the grass **mower** to the various work environments and protect a revolving cutter of the grass **mower**. CONSTITUTION: A supporting apparatus for a grass **mower** comprises: a fixing unit(100) combined with a working support rod; a support unit(400) which separates the revolving cutter of the grass **mower** from the surface; and a first QR lever module(200) which combines the working support rod with the fixing unit. The fixing unit includes first and second fixing plates which are rotatably hinge-coupled around a hinge shaft.

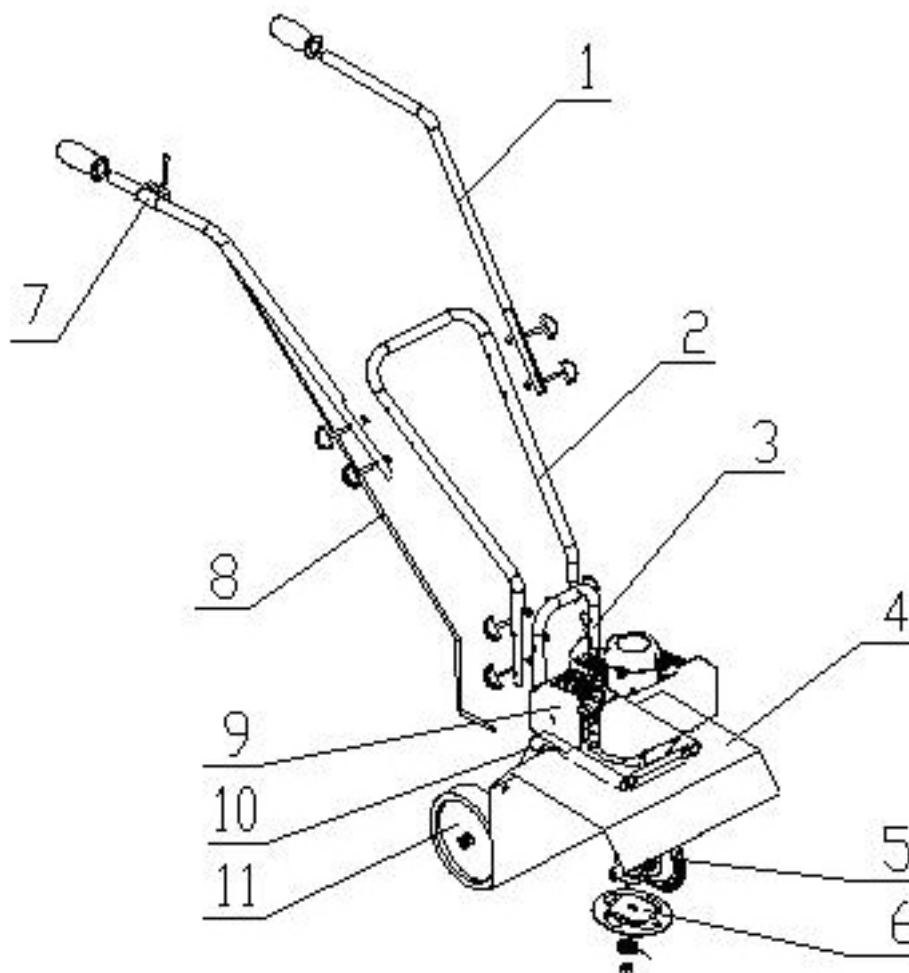
Family 37/63 - FAMPAT - ©Questel

Title

(CN202340431U)

Grass cutter

Images



Publication data including kind & date

CN202340431 U 2012-07-25 CN202340431U



Abstract

(CN202340431U)

The utility model relates to the technical field of agricultural machinery, and in particular relates to a grass cutter suitable for the **harvest** of high-stem plants, aiming at solving the problems that multiple conversion of power transmission of the conventional grass cutter causes power loss, and the conventional grass cutter is heavy in weight and inconvenient to operate. The grass cutter comprises a handrail, a power device, and a grass mowing **blade** driven by the power device. The grass cutter is characterized in that the power device is installed on a moving support; the rear end of the moving support is bent downward, and the bent end part is provided with a walking wheel; a mud blocking plate is arranged below the moving support; the downwards bent part of the mud blocking plate along the rear end of the moving support is provided with a grass blocking plate; the power device is connected with a worm-and-gear-type speed changing box; the grass mowing **blade** is installed on the worm output end of the speed changing box; an accelerator trigger assembly is installed on the handrail; and the accelerator trigger assembly is connected with the power device through a sheath wire assembly. Few components are converted, and the functions are various; and the power is high, and the complete cutter is light and convenient, flexible in maneuvering, and safe to operate.

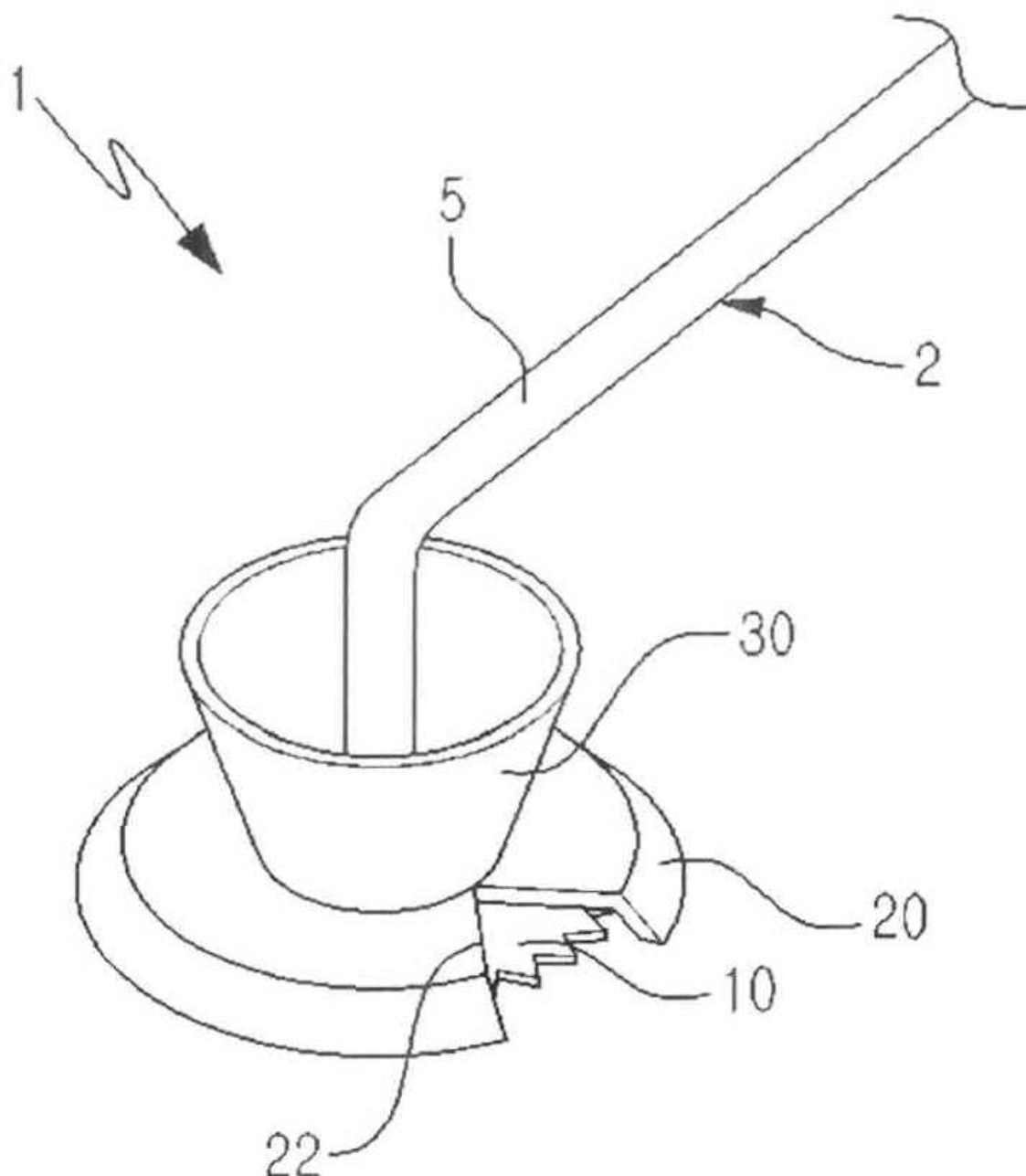
Family 38/63 - FAMPAT - ©Questel

Title

(KR20120056744)

Bean harvester using plant cutter apparatus

Images

**Publication data including kind & date**[KR20120056744](#)

A 2012-06-04 KR20120056744

**Abstract**

(KR20120056744)

PURPOSE: A bean harvesting device using a grass **mower** is provided to stably cut the bottom of the bean stalk planted in an arable land. CONSTITUTION: A bean harvesting device using a grass **mower** comprises a cutter(10), a protective cover(20), and a supporting member(30). The cutter is installed to a pivot shaft of the grass **mower**. The protective cover protects the top of the cutter and has a cut groove. The supporting member is arranged on the top of the protective cover and stands inclined beanstalk. The protective cover is equipped with a body unit having a disc shape. The cutout groove is formed by forming the body unit in a V-shape.

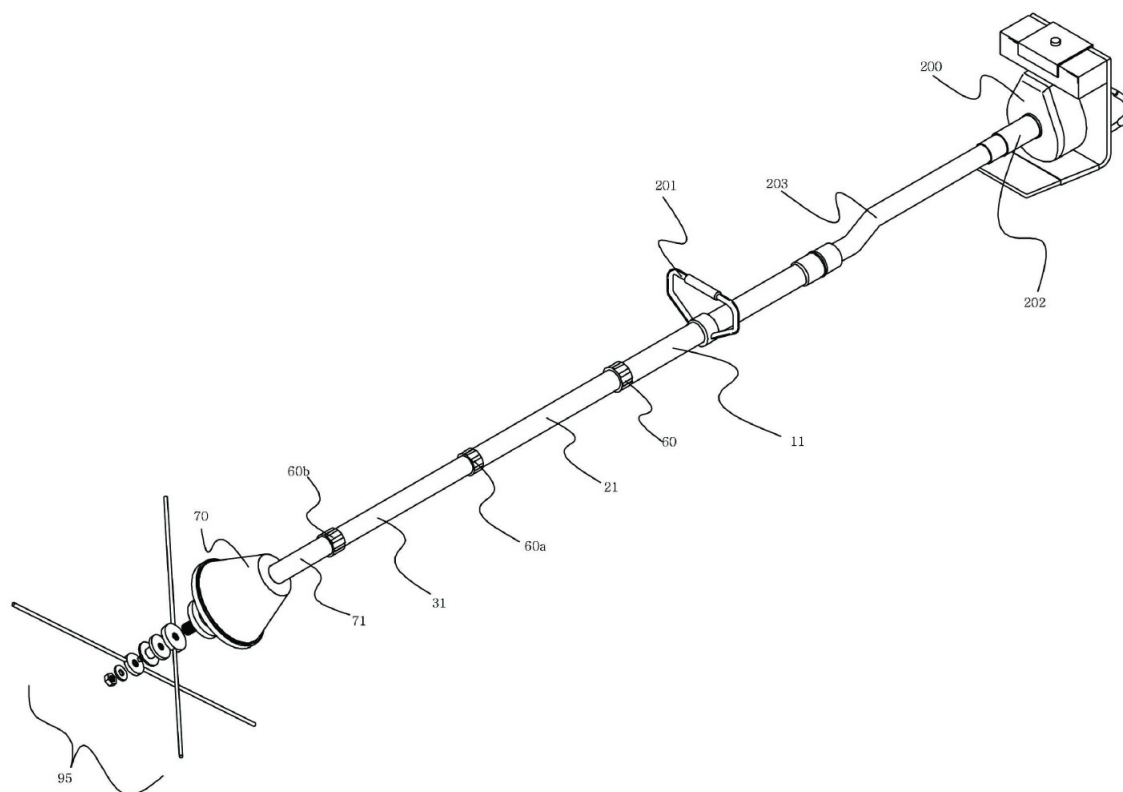
Family 39/63 - FAMPAT - ©Questel

Title

(KR20140000593)

Bear fruit length adjust a worktable

Images



Publication data including kind & date

[KR20140000593](#)

A

2014-01-03

KR20140000593



Abstract

(KR20140000593)

The present invention is provided to **harvest** fruits or nuts having a small size at a high place of a tree branch quickly and largely without a scar and, more specifically, to a length adjustment work bar for dropping fruits in order to **harvest** by dropping fruits or nuts on the ground without climbing up to a high place by using an existing grass eliminator. The adjustment work bar which is used by being connected to a grass eliminator engine: screw-combines an interval adjustment fastening hole which is formed in 'I' shape after inserting a first **blade** combining body which has line shaped dropping blades in both sides of the vertical motion axis of a driving part in a flexible material and is combined with a first adjustment rod, a second adjustment rod, a third adjustment rod, and the front end of the third adjustment rod; is able to adjust the length of a multilevel antenna shape which is fastened by a fastening bolt after inserting an outer washer by inserting a second **blade** combining body which has line rotation dropping blades in both sides into the bolt part of the interval adjustment fastening part; and can be used by maximally extending the length in multilevel when being used in the antenna shape and can be conveniently stored by minimally reducing the length after use.

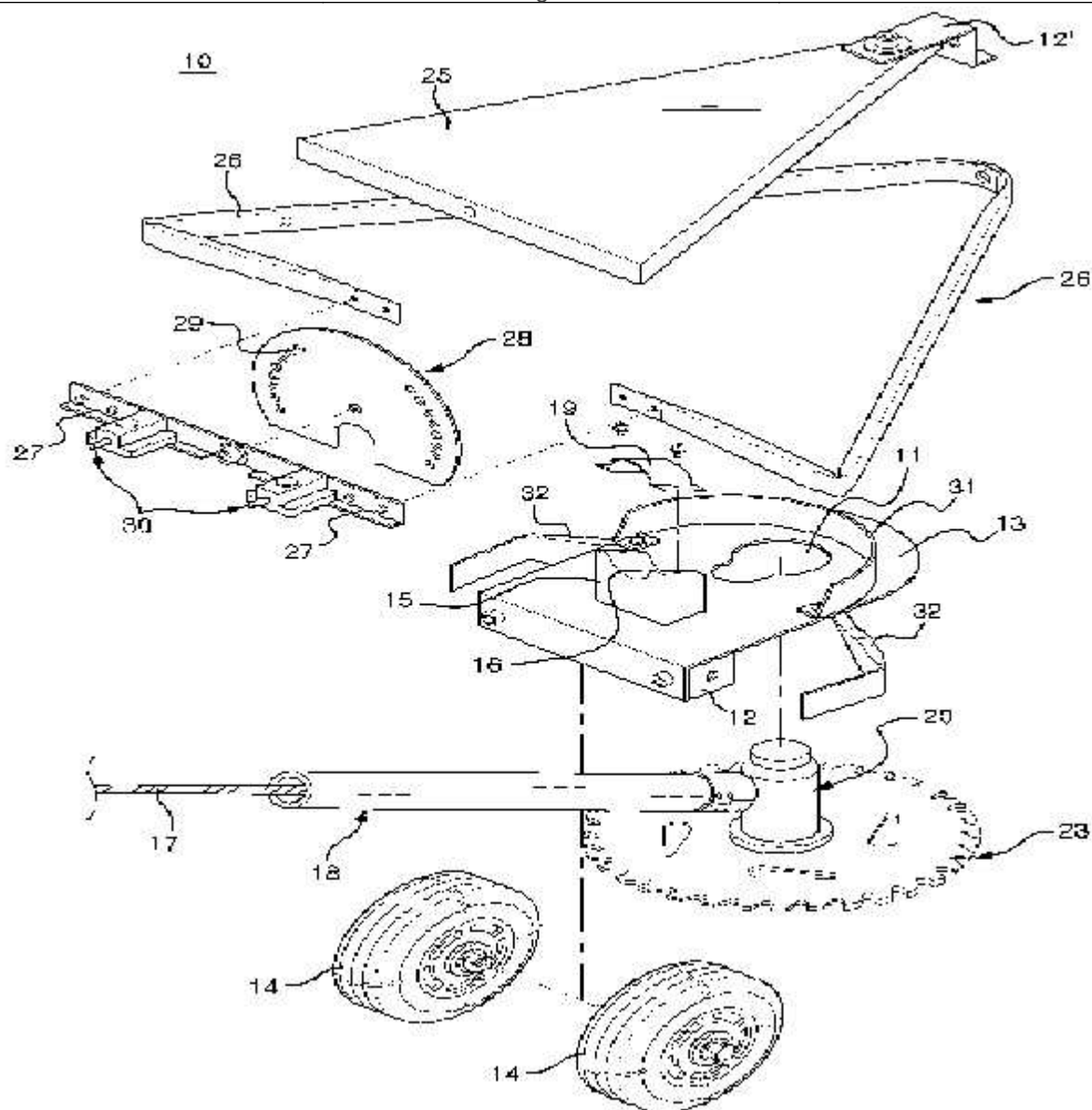
Family 40/63 - FAMPAT - ©Questel

Title

(KR20070049025)

An apparatus for harvesting the crops

Images



Publication data including kind & date

[KR20070049025](#)

A 2007-05-10

KR20070049025



Abstract

(KR20070049025)

PURPOSE: An apparatus for harvesting crops is provided to **harvest** a large amount of the crops with a low labor cost by cutting a lower part of the crops using a disc-shaped **blade** rotating by outside power while moving by wheels, and laying the cut crops on a left or right side.

CONSTITUTION: The apparatus includes: a lower support(13) having a hole(11) and brackets(12); a pair of wheels(14) pivotally connected to the outside of the brackets; a lower prop(15) installed on the rear of the lower support, and having a seat groove(16); a pipe-shaped power rod(18) fitted into the seat groove and having an electric wire(17); a gear box(20) connected to the proximal end of the power rod, and having a vertical and horizontal bevel gears for converting a vertical directional rotary power into a horizontal directional rotary power; a disc-shaped rotary **blade**(23); an upper prop fitted into the rear of the power rod; an upper support(25) having a rear part connected to the upper prop; and a guide piece(26) installed on left and right sides of the upper support at a certain interval.

(C) KIPO 2007

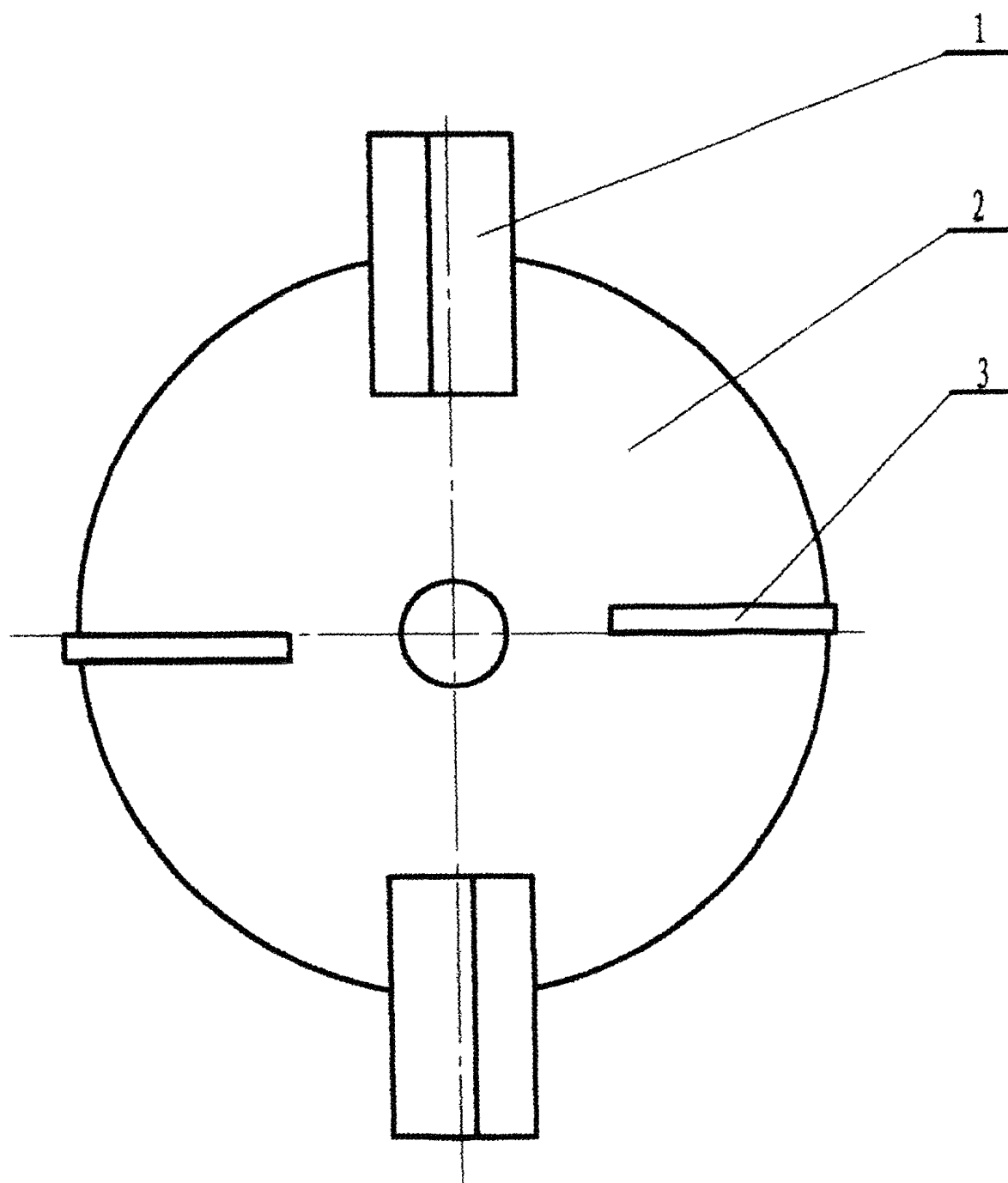
Family 41/63 - FAMPAT - ©Questel

Title

(CN200973260U)

Cutter head of grass cutter

Images



Publication data including kind & date

[CN200973260](#)

Y

2007-11-14

CN200973260U



Abstract

(CN200973260U)

The utility model discloses a cutterhead of a **mower** and is arranged with grass stirring plates on the cutterhead, the cutting knives and the equal number of grass stirring plates are alternatively arranged on the circumference of the circular cutterhead. The cutterhead can make the cut grass spread stripe at one side of the **mower**, and avoid repeat cutting of the grass to yield broken grass.

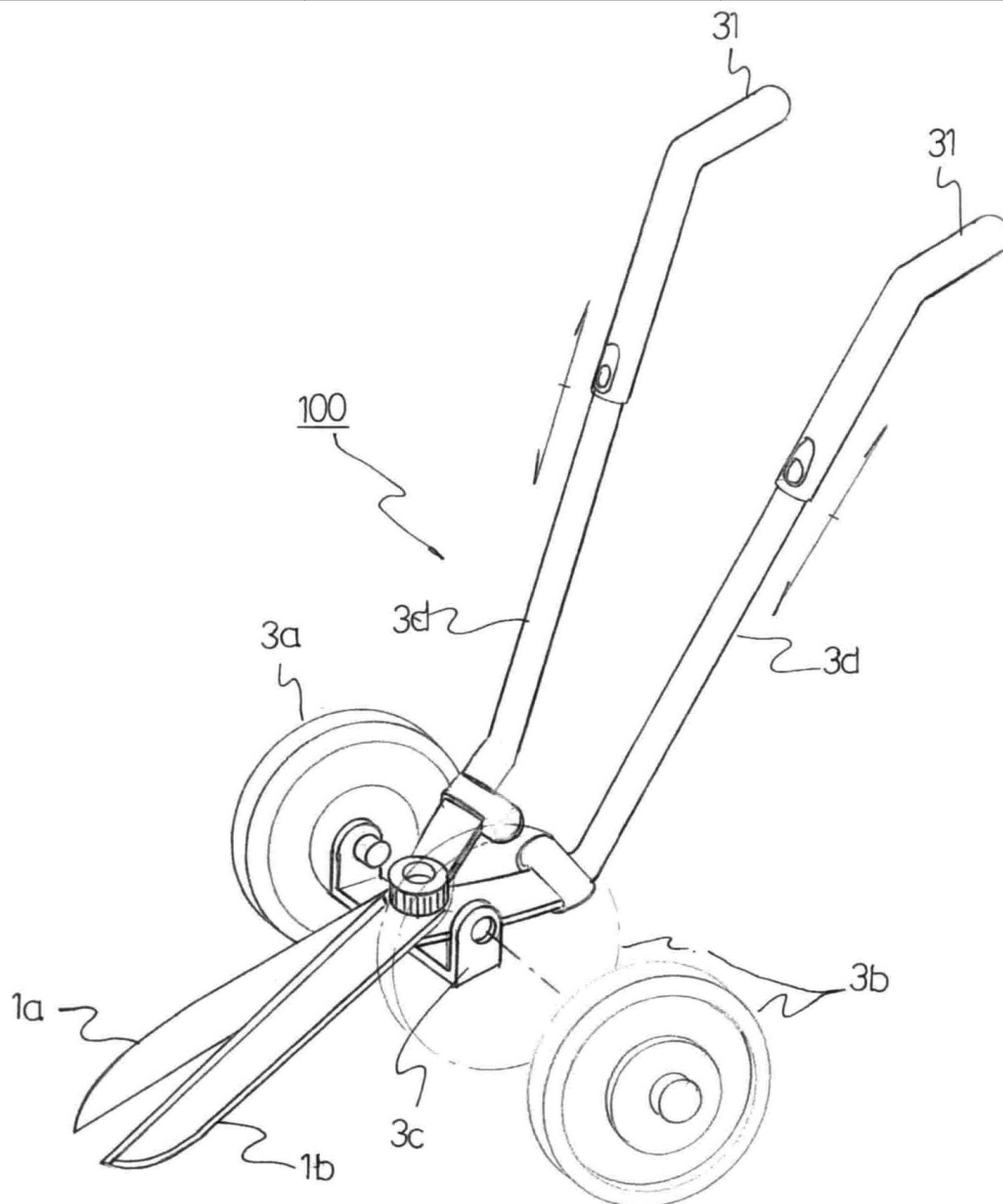
Family 42/63 - FAMPAT - ©Questel

Title

(KR20100044149)

A multi purpose weeder

Images



Publication data including kind & date

KR20100044149	A	2010-04-29	KR20100044149
KR20100057542	A	2010-05-31	KR20100057542



Abstract

(KR20100044149)

PURPOSE: A multi-functional lawnmower is provided to enable a user to conveniently mow **lawn** by making a wheel supporting the load and to enable the user to use the lawnmower as pruning shears. **CONSTITUTION:** A multi-functional lawnmower is used as pruning shears by operating two scissor pieces(1a)(1b) around a hinge. A fixing protrusion is united with a movable part consisting of a wheel(3a)(3b) and a moving frame(3c). A scissor offset sack(3d) is long to enable a user to work while standing. A handle(31) is formed by bending the upper end of the lawnmower.

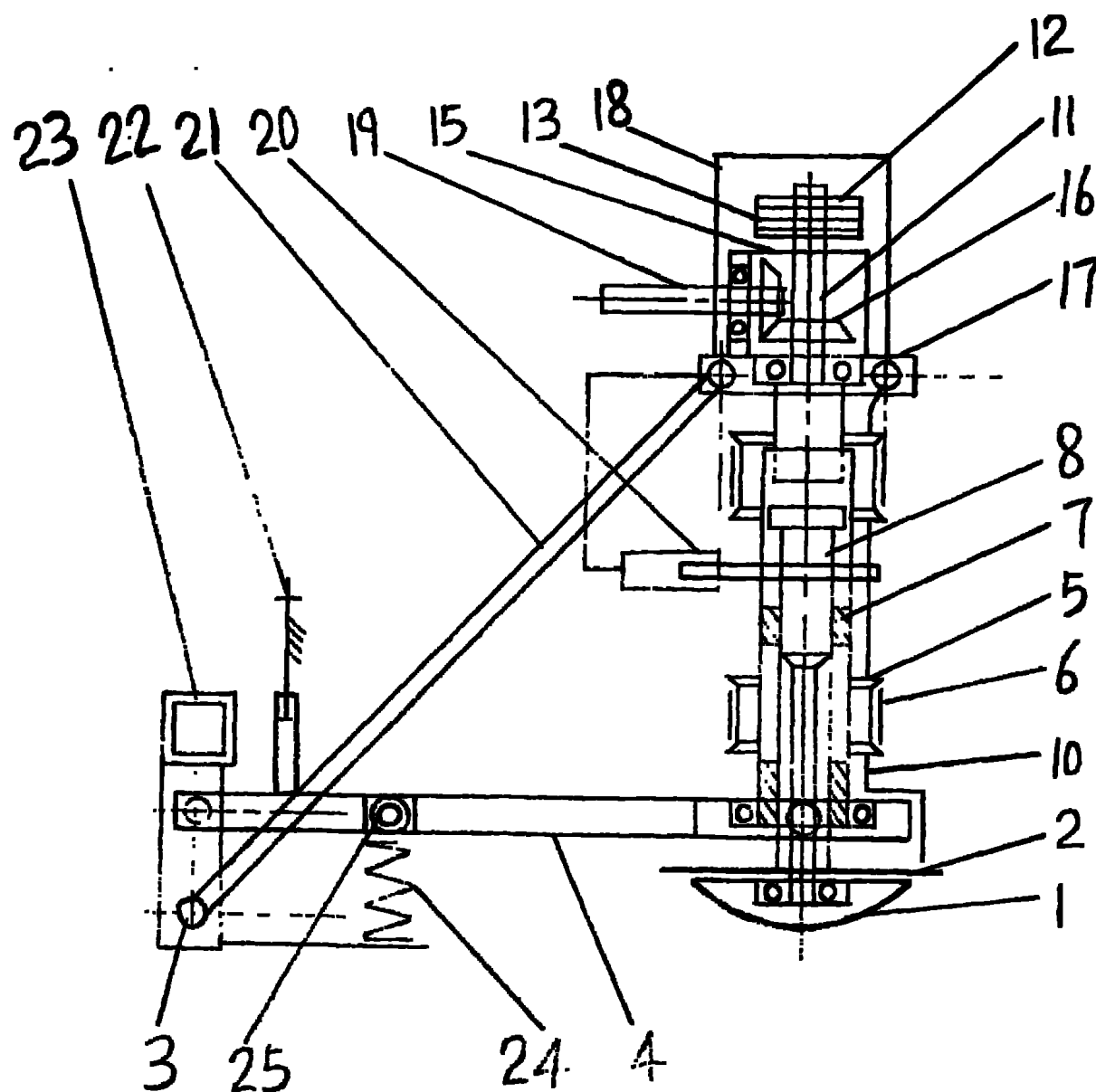
Family 43/63 - FAMPAT - ©Questel

Title

(CN102726271)

Terrain-imitation shrub harvester

Images



Publication data including kind & date

CN102726271

A

2012-10-17

CN102726271



Abstract

(CN102726271)

The invention discloses a terrain-imitation shrub harvester, which can harvest and discharge thorn-like plants grown on flat lands, slopes and sand dunes. A half spline shaft extends out of a cavity of a half spline steel barrel so as to fasten a saw blade and a tray, the saw blade and a drive shaft are fastened at the upper end of the half spline steel barrel, and a harvester body is provided with multiple sets of half spline steel barrels and a saw blade drive shaft. Bevel gears in a gearbox fastened on the harvester body are respectively fixedly arranged on a power input shaft and the saw blade shaft so as to carry out meshed drive, the conveyor belts are respectively sleeved on flat belt wheels fastened on conveyor belt shafts, and triangular belts are respectively sleeved on a triangular belt wheel fastened on the saw blade drive shaft and a triangular belt wheel fastened on the conveyor belt shaft so as to carry out mutual drive operation.

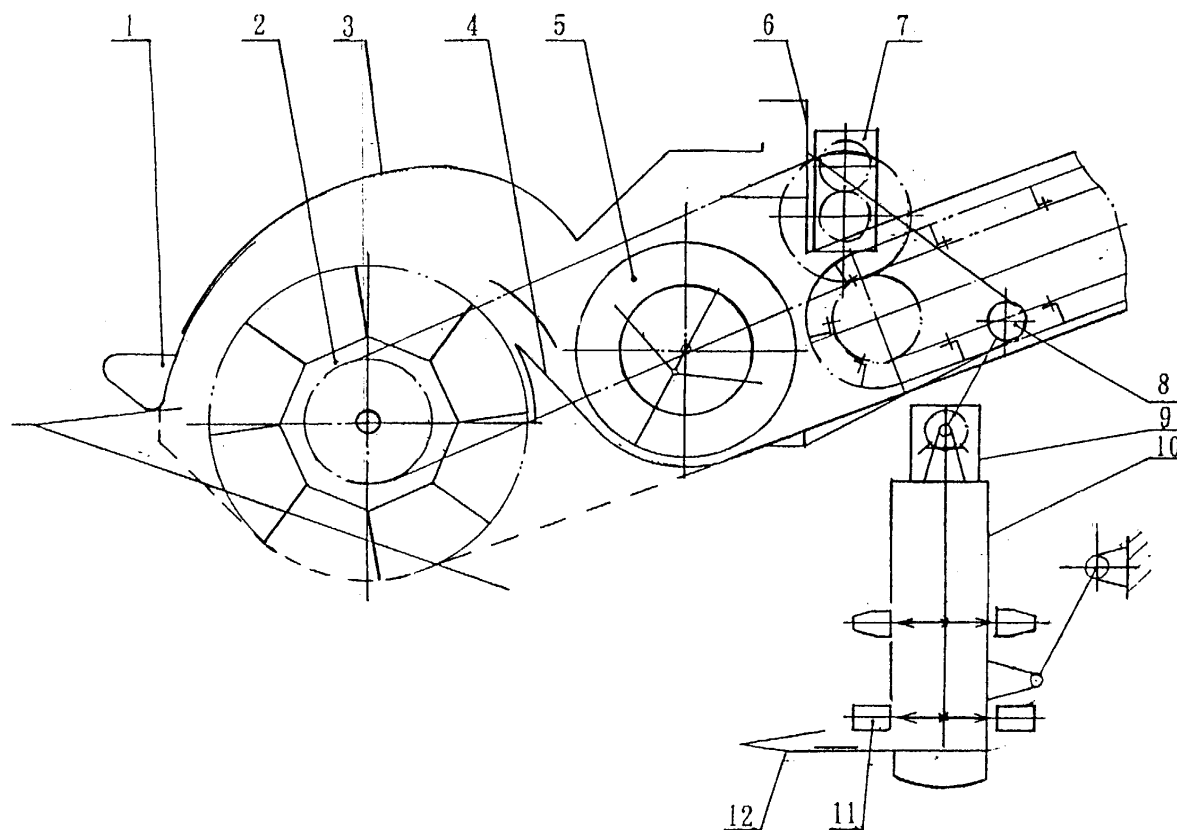
Family 44/63 - FAMPAT - ©Questel

Title

(CN2266867U)

Comb like header

Images

**Publication data including kind & date**

CN2266867

Y

1997-11-12

CN2266867U

**Abstract**

(CN2266867U)

The utility model discloses a comb-threshing type header used for grain **harvest**, comprising a comb-threshing harvesting table and an upright cutting table. When the utility model is operated, the ear heads or seeds of grains are comb-threshed, and the cutting unit of the upright cutting table cuts haulm, and a grass transmission mechanism conveys the cut haulm to one side of a machine for tidily paralleling laying to disposably complete the operations of grain harvesting, haulm cutting and laying. The cutter of the upright cutting table adopts a right and a left two sets of movable knife components which are symmetrical, so that the motion inertia force of the cutting knives are balanced to improve the cutting speed and work efficiency of the complete machine.

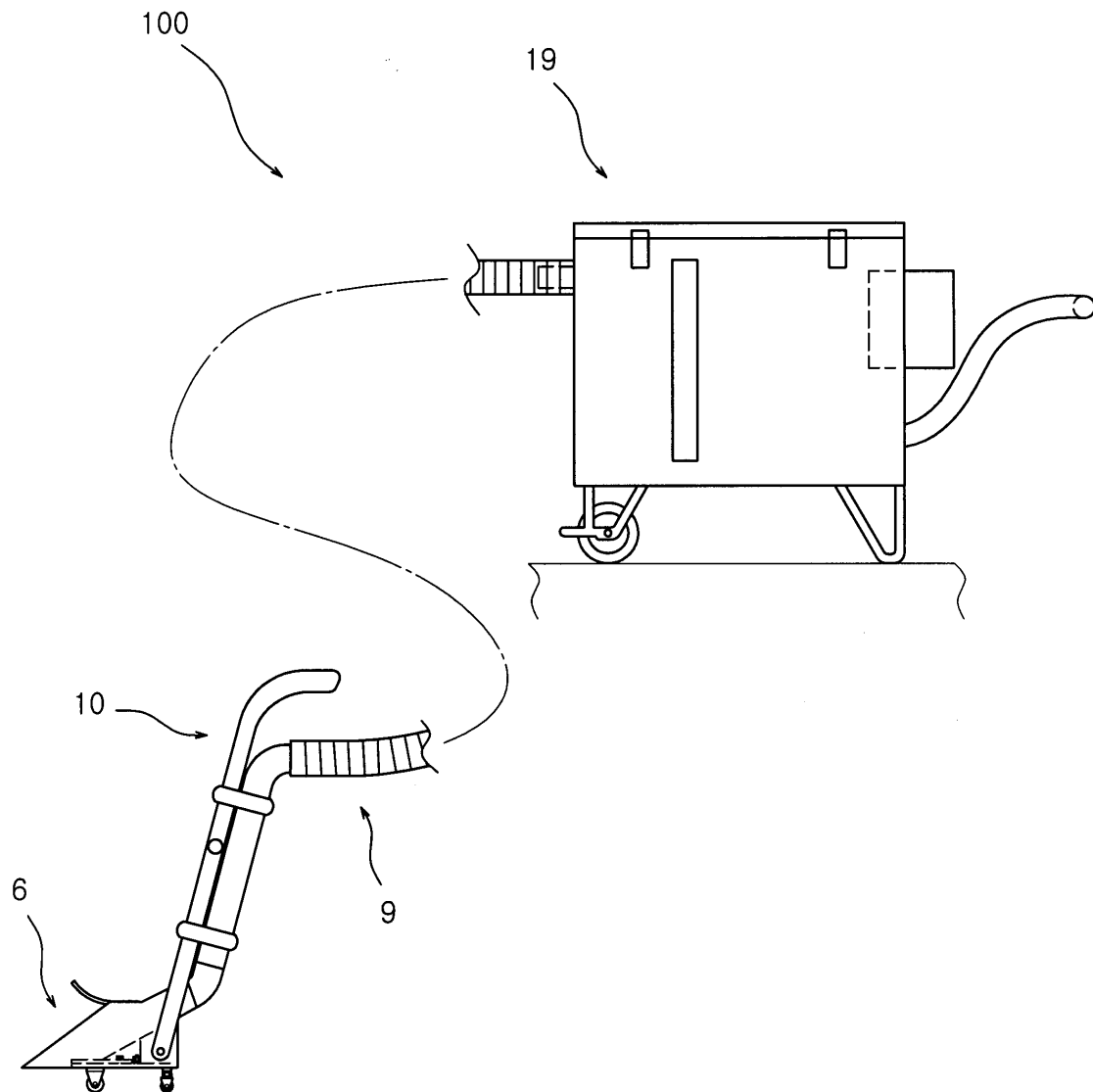
Family 45/63 - FAMPAT - ©Questel

Title

(KR100900118)

Reaping machine for farm products

Images



Publication data including kind & date

KR20090046025	A	2009-05-11	KR20090046025
KR100900118	B1	2009-06-01	KR100900118



Abstract

(KR100900118)

PURPOSE: A field crop harvester is provided, which improves the **harvest** efficiency by reducing harvesting time and the labor.

CONSTITUTION: A field crop harvester comprises: a top guide plate(1) which is bent upward; a bottom guide plate(2) which is inclined upward; a moving wheel(3) which is installed at the bottom of the bottom guide plate and a cutter(4); a side guide plate(5) in which the leading end lower part of both sides is pointed; a cut out part(6) formed in the partition member shape in which the inside becomes narrow toward the backplane; a straight line inlet tube(7) of the linear type communicating with the backplane of the cut out part; an inlet unit(9) consisting of the deformation inlet tube(8) of the bellows type; and a handle part(10) installed along the straight line inlet tube of the inlet unit.

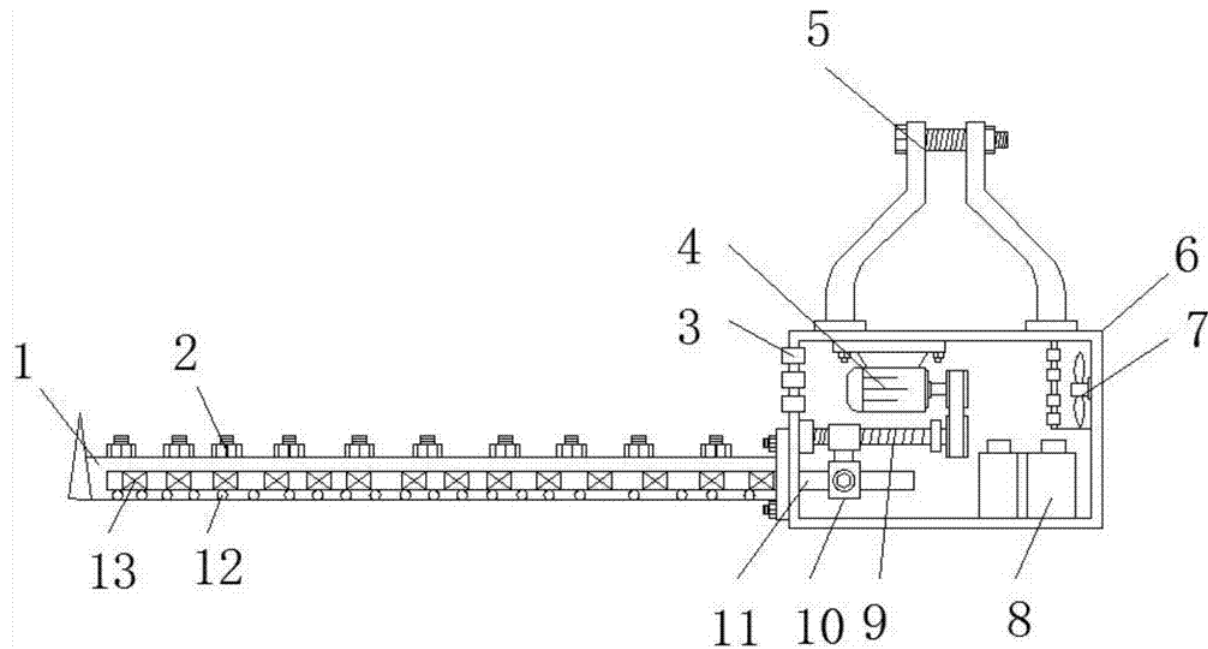
(C) KIPO 2009

Family 46/63 - FAMPAT - ©Questel

Title

(CN107182425)

Straw harvesting device

Images**Publication data including kind & date**

CN107182425

A

2017-09-22

CN107182425

**Abstract**

(CN107182425)

The invention provides a straw harvesting device. The device includes a drive-box outer shell; the left side of the drive-box outer shell is provided with a cutter outer shell, a tractor fixing bolt is arranged on the upper portion of the drive-box outer shell, the upper portion in the drive-box outer shell is provided with a cutter drive motor, and the portion, near the right side of the cutter drive motor, in the drive-box outer shell is provided with a cooling fan. The device is scientific and reasonable in design, simple in structure, sturdy and durable, the designed motor drives a cutter to **harvest**, loads of a tractor are saved, carbon dioxide emissions of the tractor are reduced, a designed novel screw is used for transmission which is more direct than traditional transmission, the cutter is quicker in back and forth movement, the friction of a gear is reduced, wear of a torque is reduced, a designed storage battery can supply power to a motor, the us is convenient, the original mode that oil is used for supplying power is replaced, and environmental pollution is avoided.

Family 47/63 - FAMPAT - ©Questel

Title

(WO201021318)

Head-feeding combine

Images

[KR101711216](#)

B1 2017-02-28 KR101711216

[KR101811186](#)

B1 2017-12-20 KR101811186

[KR20170141286](#)

A 2017-12-22 KR20170141286

**Abstract**

(WO201021318)

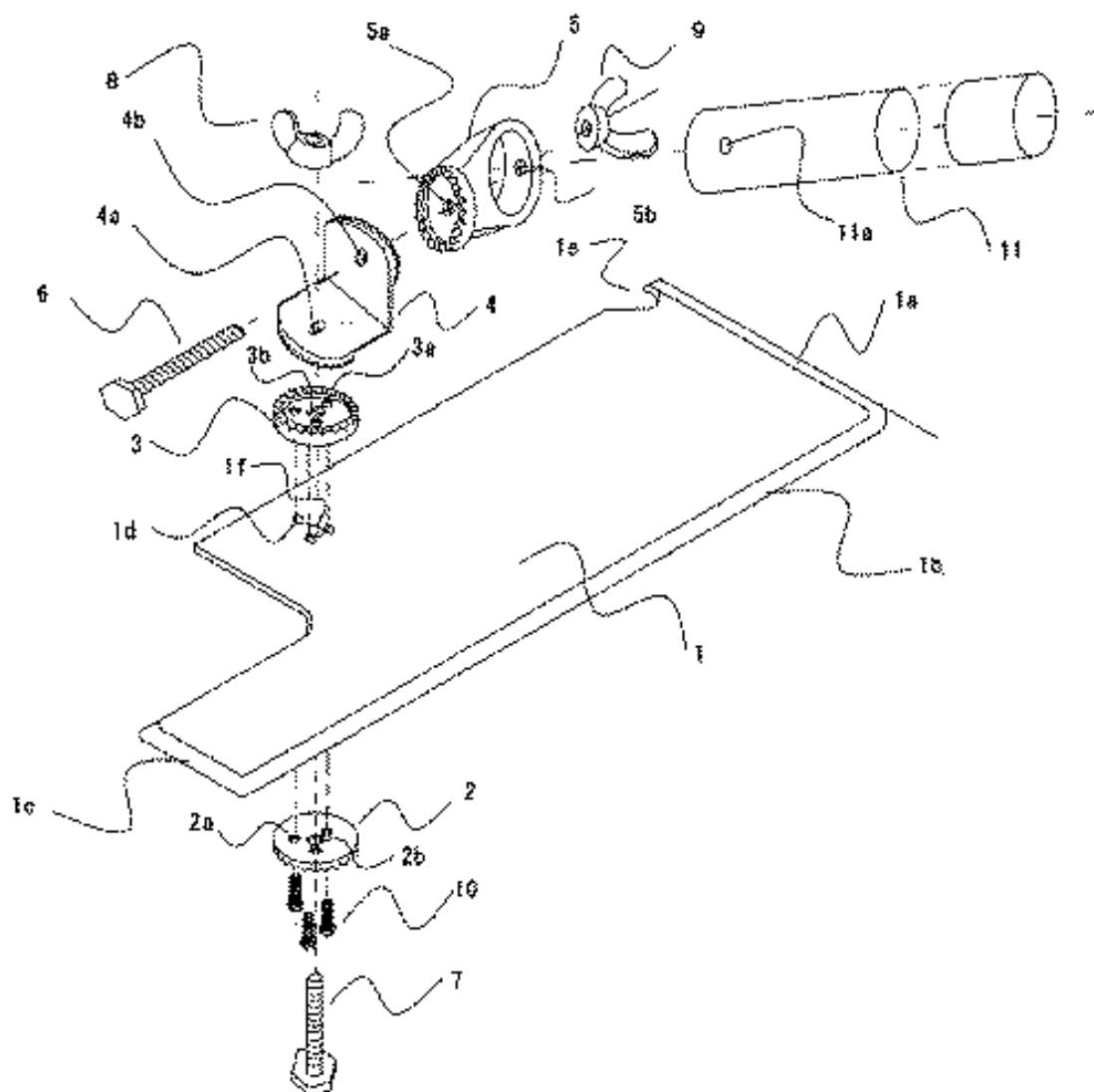
Disclosed is a head-feeding combine with improved lateral balance in the reaper and body. This combine is configured with a reaper (4), which is equipped with a right and a left divider (29, 30), and a center divider (31), which is disposed at a roughly central position between the right and left dividers (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 threshing drum (17) and the center divider (31) are set to be roughly the same.

Family 48/63 - FAMPAT - ©Questel

Title

(JP2011078396)

Weeding sickle

Images

JP2011078396

A 2011-04-21 JP2011078396

JP4978852

B2 2012-04-27 JP4978852

**Abstract**

(JP4978852)

PROBLEM TO BE SOLVED: To provide a sickle enabling the improvement of working posture and multiple application of the same.

SOLUTION: The weeding sickle is provided by forming a hooked groove in one side of a rectangular **blade**, forming edges on its three sides, providing holes for every three positions for attaching an angle-adjusting gear on a **blade** in which one side **blade** is made as a thin **blade** to fix the gear by three angle-adjusting gear-fixing bolts thereto, attaching an L-shaped part attached with the angle-adjusting gear and the angle-adjusting gear attached to the **blade** to a provided bolt hole for attaching the L-shaped part attached with the angle-adjusting gear with the angle-adjusting L-gear-attaching bolt and fixing the gear with a butterfly nut, and further fixing an angle adjustable grip handle-attaching part attached at the grip handle into a bolt hole for attaching the L-shaped part attached with the angle-adjusting gear with the L-shaped part attached with the angle-adjusting gear by an attaching bolt for the L-shaped part attached with the angle-adjusting gear and another butterfly nut.

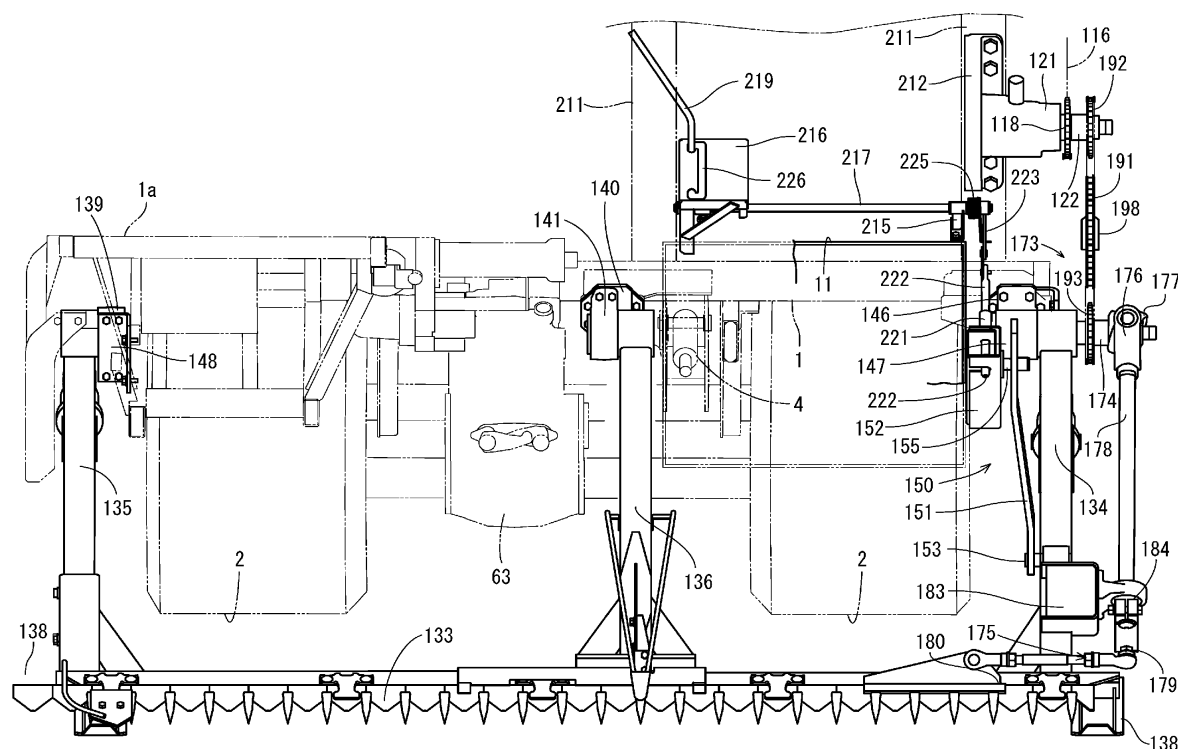
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Family 49/63 - FAMPAT - ©Questel

Title

(WO2014136862)

Combine harvester

Images**Publication data including kind & date**

WO2014136862

A1 2014-09-12 WO2014136862

JP2014171419

A 2014-09-22 JP2014171419

CN105025699

A 2015-11-04 CN105025699

JP6033128

B2 2016-11-04 JP6033128

CN105025699

B 2017-07-18 CN105025699B

**Abstract**

(WO2014136862)

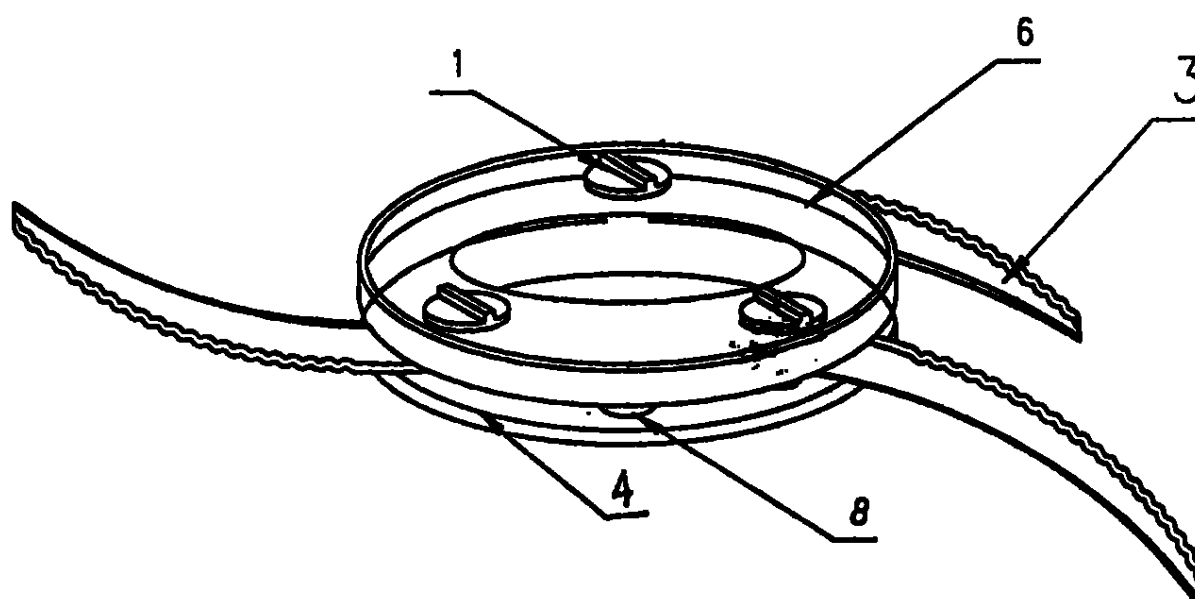
The present invention addresses the problem of providing a combine harvester with which maintenance-work properties of a mechanism for second cutting blades (133) can be improved while improving a floating function of the second cutting blades (133). This combine harvester is provided with: a reaping apparatus (3) provided with first cutting blades (15); a threshing apparatus (9) provided with a threshing cylinder (21); a traveling machine body (1) provided with an engine (7) and a driver seat (42); and second cutting blades (133) for severing residual culms in the first cutting blades (15), said second cutting blades (133) being fitted to the traveling machine body (1) via a left-side frame (134) and a right-side frame (135). Left and right floating support mechanisms (157) are provided to the traveling machine body (1). The left-and-right floating support mechanisms (157) are configured so as to respectively apply elastic pressure to the right-side frame (134) and the left-side frame (135).

Family 50/63 - FAMPAT - ©Questel

Title

(CN2888834U)

A brush-sawing grass-cutting knife

Images**Publication data including kind & date**[CN2888834](#)

Y

2007-04-18

CN2888834U

**Abstract**

(CN2888834U)

The utility model relates to a shrub/grass cutter, in particular to a shrub/grass cutting device of shrub/grass cutter. 2-4 uniformly distributed cutter posts are fixedly connected with a cutter disc; the cutter posts are respectively rotatably connected with reinforced nylon cutter blades; bolts are respectively in thread connection with each cutter post, and cap of the bolt is larger than the connection hole of the reinforced nylon cutter blade. The utility model has the advantages of novel structure, no splashing of cut grass, automatic retraction of arch-shaped nonmetallic light-weight blade when contacting hard object so as to reduce collision force, reduced danger and blade damage, low resistance applied on blade, high wear resistance of blade, simple overall structure of cutter disc, stabilized rotation and reduced weight of cutter disc due to balancing holes on the cutter disc, easy replacement of blade and grass cutting rope, low replacement frequency, saved labor force and cost, high economic efficiency, and suitability for harvesting crops.

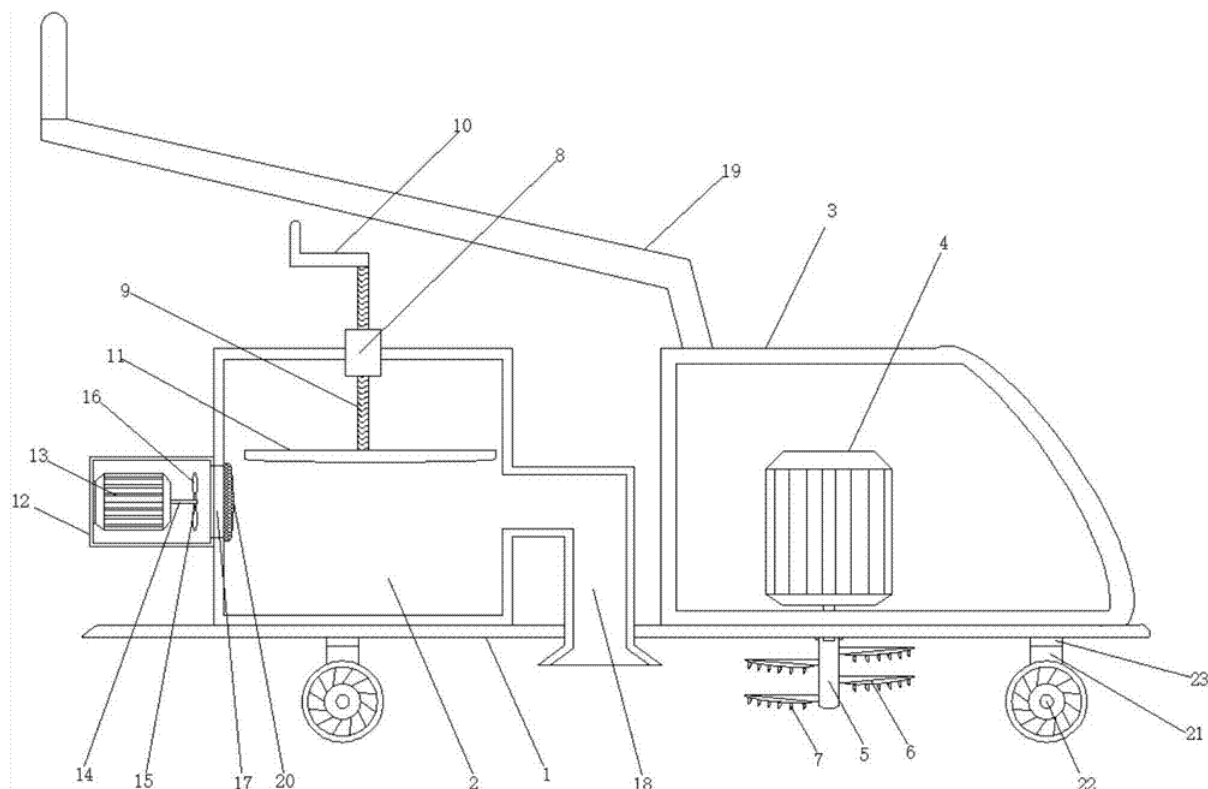
Family 51/63 - FAMPAT - ©Questel

Title

(CN207099707U)

Weeder for municipal administration with collection grass function

Images



Publication data including kind & date

CN207099707

U

2018-03-16

CN207099707U



Abstract

(CN207099707U)

The utility model provides a weeder for municipal administration with collection grass function, which comprises a base, the left side fixed mounting at chassis top has grass collection box, the rightside fixed mounting at chassis top has the motor case, the inside fixed mounting of motor case has the first electric motors, the first electric motors's output runs through the bottom on motor case and chassis in proper order and extends to the outside of chassis and fixedly connected with pivot. This weeder for municipal administration with collection grass function, through setting up grass collection box, the second motor, the output shaft, the round pin axle, the pipe is drafted with inhaling to the fan blade, make the 2nd the motor output shaft's rotation drive the rotation of fan blade, through inhaling during garrulous grass that grass pipe will reap inhales grass collection box, the fixed block that cooperation simultaneously set up, a screw rod, crank and compression board, the manual crank that waves, make the garrulous grass of compression board in to grass collection box extrude, thereby can deposit more garrulous grasss, the effect of weeder collection grass has been reached, the problem of the grass can not cyclic utilization is solved.

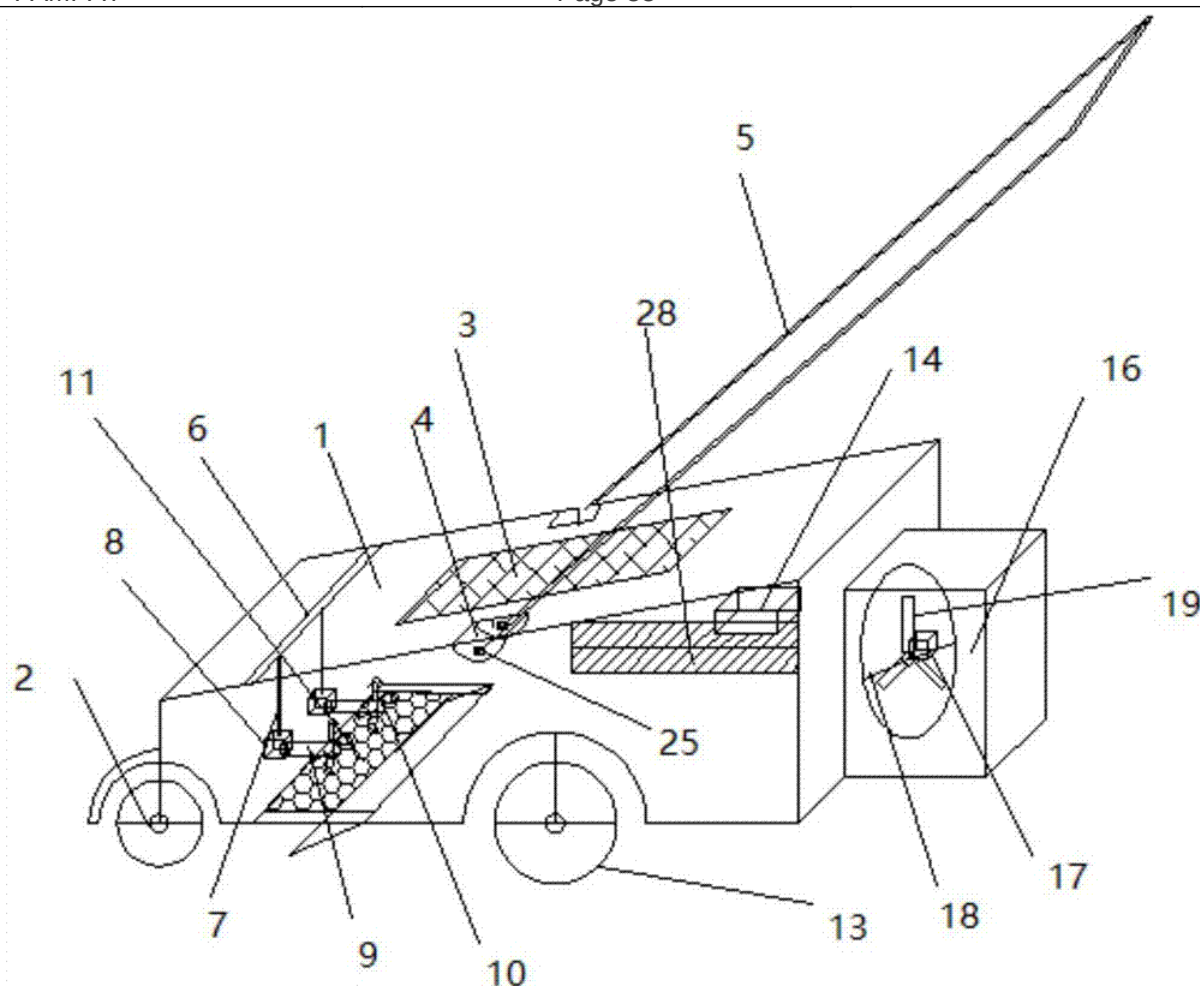
Family 52/63 - FAMPAT - ©Questel

Title

(CN206620496U)

Automatic weeder of solar energy

Images



Publication data including kind & date

[CN206620496](#)

U 2017-11-10 CN206620496U



Abstract

(CN206620496U)

The utility model discloses an automatic weeder of solar energy, including the weeder shell, weeder shell upside mid - mounting has solar cell panel, it has hand action bars to rotate groove middle part joint, dead lever lower extreme rigid coupling has first work motor, first work motor is equipped with first work pivot, the weeder **blade** is installed to first work pivot end, the filter screen rear portion is equipped with the rotation of being connected with the middle part rotation of weeder shell downside and reaps the shovel, reserve cell is installed to weeder shell upside inlayer, the terminal inboard mid -mounting of weeds collecting box has second work motor, the collection flabellum is installed to second work pivot front end, and solar cell panel is installed to the weeder, can utilize solar energy, and it can be equipped with and reap the messenger weeds entering weeder that the shovel can be convenient in the task of overcast and rainy completion weeding just to be equipped with reserve cell, is equipped with the collection flabellum and can retrieves weeds by the efficient, is equipped with antiskid rubber layer and accords with human engineering.

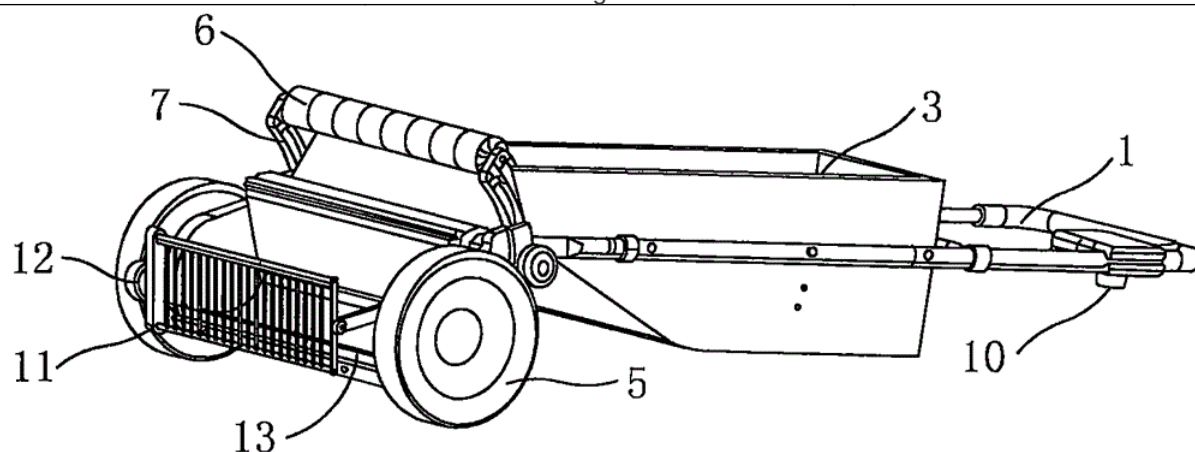
Family 53/63 - FAMPAT - ©Questel

Title

(CN205755564U)

Shallow of mowing safely

Images

**Publication data including kind & date**[CN205755564](#)

U 2016-12-07 CN205755564U

**Abstract**

(CN205755564U)

The utility model relates to a shallow of mowing safely designs to solving the current not good enough technical problem of like product structural design. The shallow of should mowing includes push rod, hopper, scraper bowl and wheel, and the junction of scraper bowl and hopper is equipped with one direction shut -off 's baffle, and the hopper sets up in the push rod, and the wheel sets up in the both sides of scraper bowl, its main points the one end of hopper and push rod is connected with the scraper bowl through adjusting the pole, and the hopper both sides of adjusting pole department are equipped with the knob respectively, and the shovel mouth tip border of scraper bowl is equipped with the **blade**, and shovel mouth tip border the place ahead of scraper bowl is equipped with dials the bars frame, be equipped with brushless motor in one side wheel of scraper bowl, the bottom or the push rod of scraper bowl are equipped with rechargeable battery, and brushless motor, rechargeable battery, group bars motor pass through the circuit and be connected with the controller of push rod. Dialling the green grass that the bars frame dialled in in the shovel head and passing through the **blade** cutting, push down the hopper side of push rod, the push rod drives the hopper and moves down, and green grass gets into in the hopper from the scraper bowl.

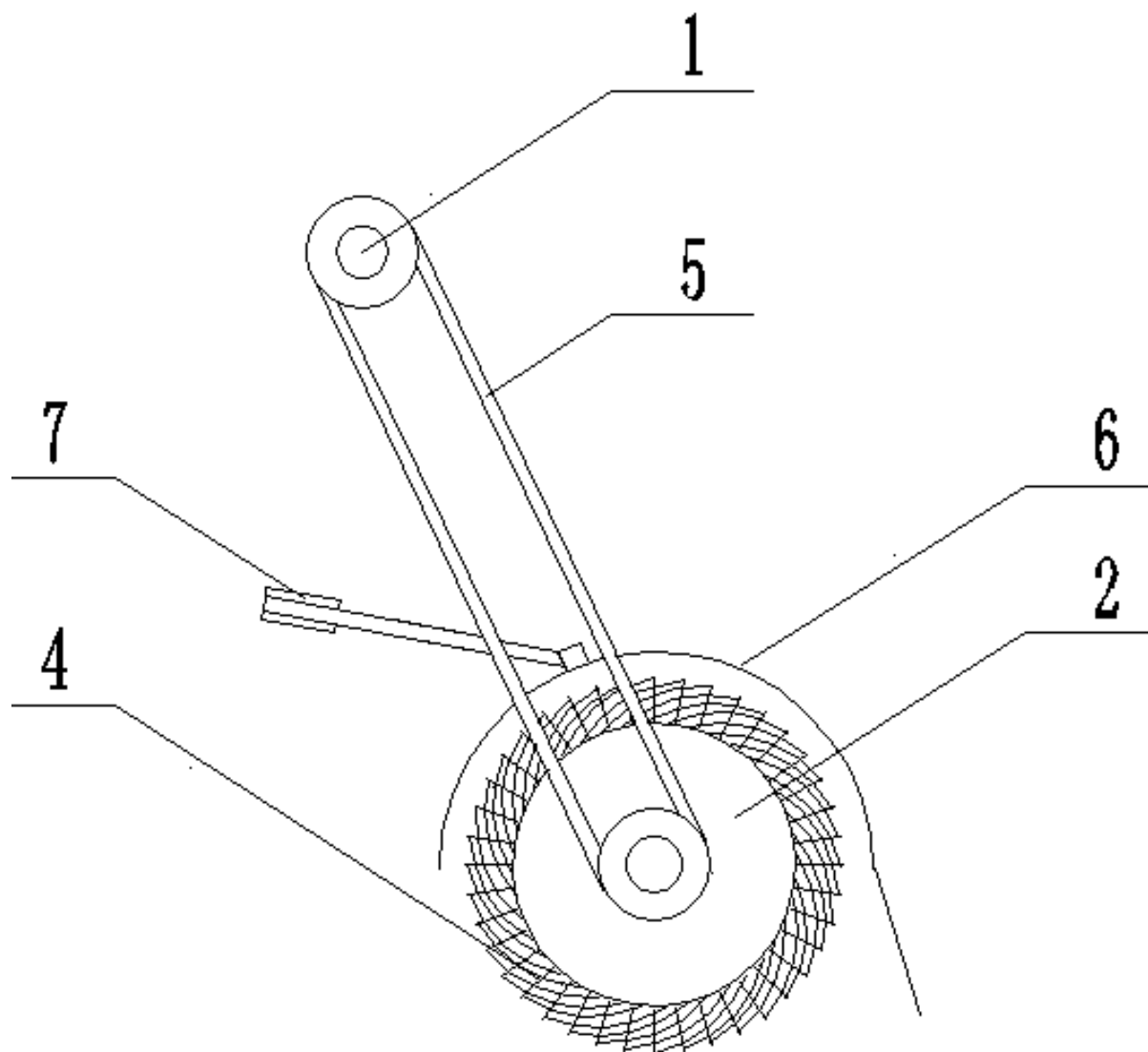
Family 54/63 - FAMPAT - ©Questel

Title

(CN102598899B)

Rice-wheat harvesting, tillage and weeding combine

Images



Publication data including kind & date

CN102598899	A	2012-07-25	CN102598899
CN102598899	B	2015-06-10	CN102598899B



Abstract

(CN102598899B)

The invention relates to agricultural machinery, in particular to a rice-wheat harvester with functions of weeding, stubble cleaning and soil loosening, which comprises a harvester body. The rice-wheat harvester is characterized in that a rotary tillage crusher is disposed on the harvester body and comprises a connecting shaft, a **blade** shaft and two connecting arms, the **blade** shaft is a drum with spirally distributed blades on the surface, the two connecting arms are disposed at two ends of the drum respectively, a free end of each connecting arm is hinged to the connecting shaft, the connecting shaft is fixed at the rear of the harvester, and the **blade** shaft is connected with a transmission mechanism of the harvester body. According to the technical scheme, the rice-wheat harvesting, tillage and weeding machine can be used for harvesting while removing straw stubbles and weeds and loosening soil.

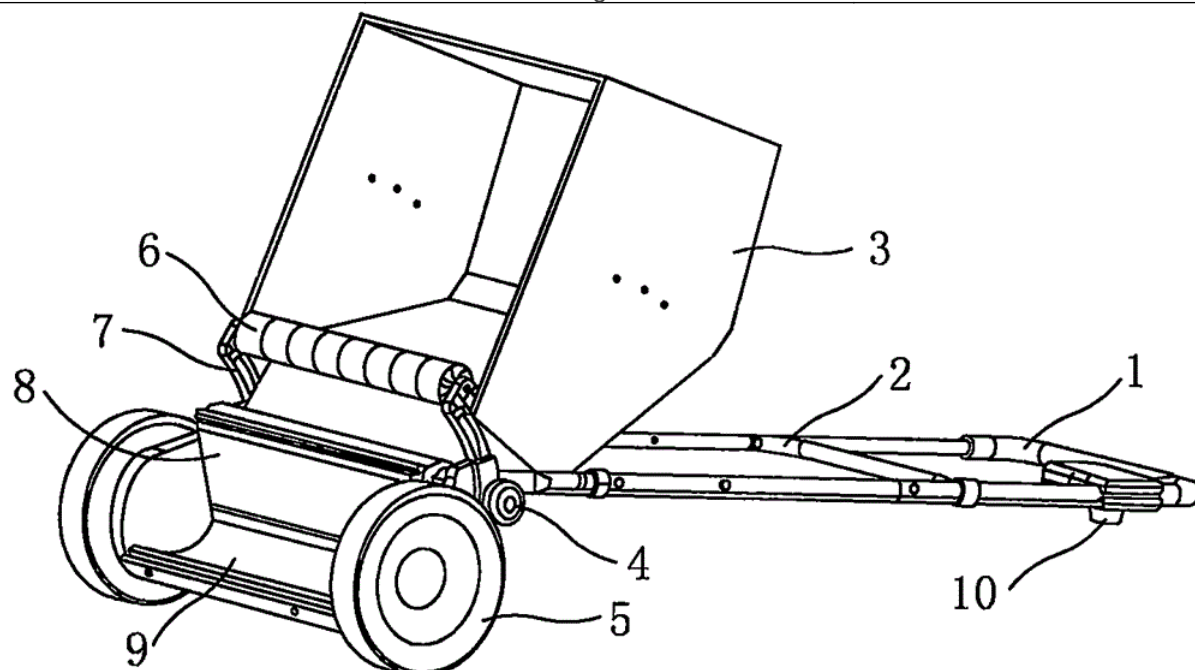
Family 55/63 - FAMPAT - ©Questel

Title

(CN106068903)

Mowing cart

Images

**Publication data including kind & date**

CN106068903

A 2016-11-09 CN106068903

**Abstract**

(CN106068903)

The invention relates to a mowing cart, and is designed for solving the technical problem that an existing like product is poor in structural design. The mowing cart comprises a push rod, a hopper, a bucket and wheels, wherein a baffle which is closed in one way is arranged at a position where the bucket is connected with the hopper; the hopper is arranged in the push rod; and the wheels are arranged on two sides of the bucket. The mowing cart is characterized in that one end of the hopper and one end of the push rod are connected with the bucket through adjusting rods, knobs are respectively arranged on the adjusting rods and positioned on two sides of the hopper, a **blade**, a shear knife or a clipper is arranged at an edge of an end of a robbet of the bucket, and a shear motor and a clipper motor are respectively connected with a controller of a push rod holding end through circuits; and a brushless motor is arranged in the wheel on one side of the bucket, a rechargeable battery is arranged at the bottom of the bucket or on the push rod, and the brushless motor and the rechargeable battery are connected with the controller of the push rod through circuits. Meanwhile, the horizontal height of the bottom of the hopper is lower than the horizontal height of the bottom of the bucket, the hopper side of the push rod is pressed downwards, then the push rod drives the hopper to move downwards, and then materials enter the hopper from the bucket.

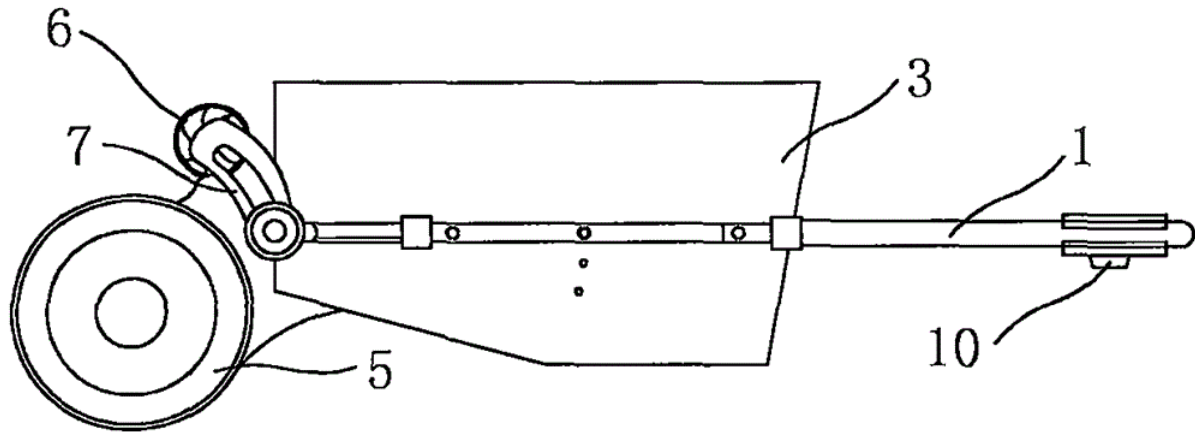
Family 56/63 - FAMPAT - ©Questel

Title

(CN205993114U)

Electronic shallow of mowing

Images

**Publication data including kind & date**

CN205993114

U 2017-03-08

CN205993114U

**Abstract**

(CN205993114U)

The utility model relates to an electronic shallow of mowing designs to solving the current not good enough technical problem of like product structural design. The shallow of should mowing includes push rod, hopper, scraper bowl and wheel, and the junction of scraper bowl and hopper is equipped with one direction shut -off's baffle, and the hopper sets up in the push rod, and the wheel sets up in the both sides of scraper bowl, its main points the one end of hopper and push rod is connected with the scraper bowl through adjusting the pole, and the hopper both sides of adjusting pole department are equipped with the knob respectively, and the shovel mouth tip border of scraper bowl is equipped with the **blade**, be equipped with brushless motor in one side wheel of scraper bowl, the bottom or the push rod of scraper bowl are equipped with rechargeable battery, and brushless motor, rechargeable battery pass through the circuit and be connected with the controller of push rod. The **blade** of scraper bowl is cut off green grass through the impact force that promotes, because the level of hopper bottom is less than the level height of scraper bowl bottom, pushes down the hopper side of push rod, and the push rod drives the hopper and moves down, and the material gets into in the hopper from the scraper bowl.

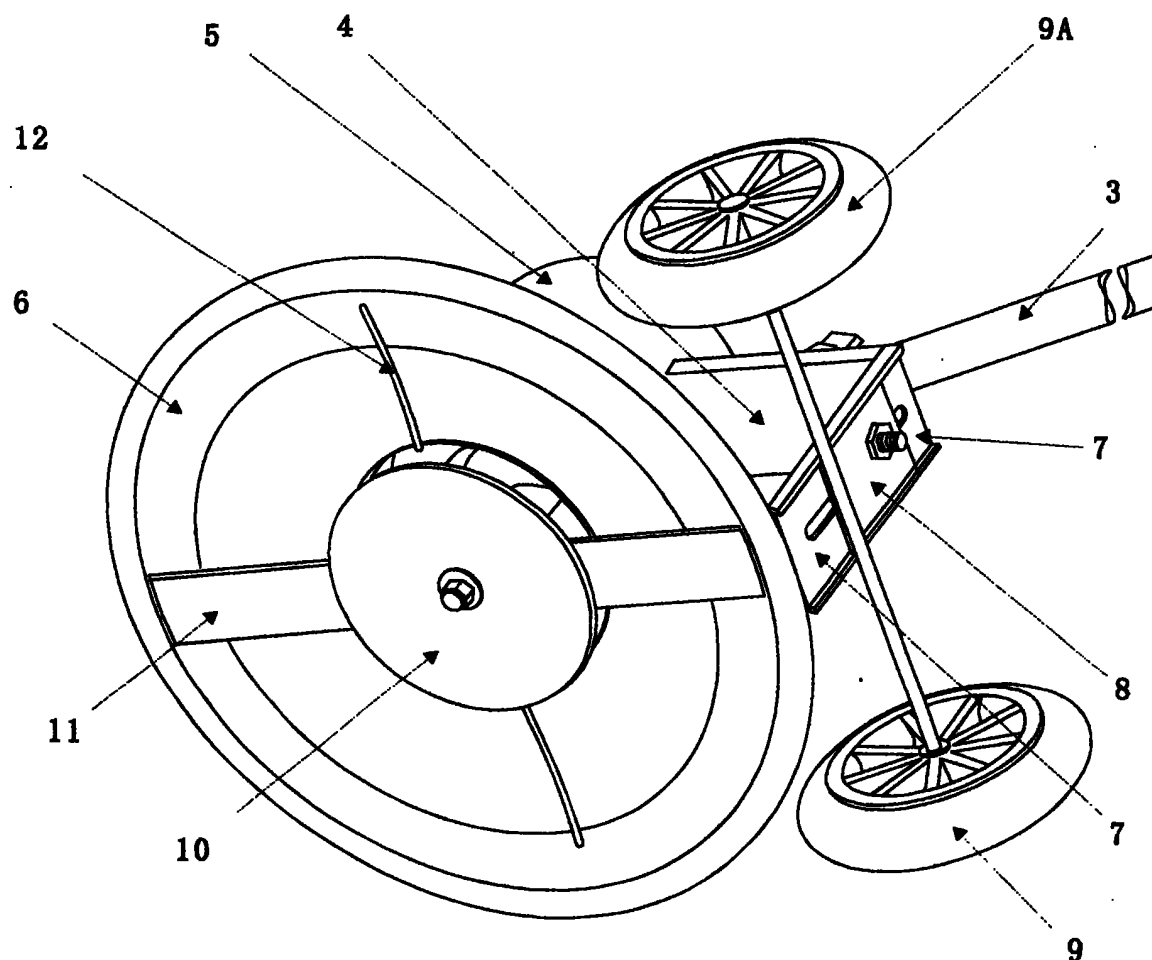
Family 57/63 - FAMPAT - ©Questel

Title

(CN2860039U)

Small-sized mowing crusher

Images

**Publication data including kind & date**

CN2860039

Y

2007-01-24

CN2860039U

**Abstract**

(CN2860039U)

A mini type mowing and smashing machine includes high speed electromotor and smashing cover, **blade** inserted in the smashing cover, mowing height adjusting frame connected with the joint movable bolt chassis and the smashing cover, controlling handle installed on the movable bolt chassis, switch installed on the end of controlling handle, wire goes through the controlling handle and movable bolt chassis and connects the switch and high speed electromotor, foot wheel is at the two ends of the horse. It also includes movable bolt chassis connected the side face of the high speed electromotor and mowing height adjusting frame, horse on the mowing height adjusting frame, blast tray on the shaft of the high speed electromotor inside the smashing cover and sticky string on the edge of the blast tray. It prevents grass residue jamming the smashing cover by the sticky string and the wind from the blast tray cooling the electromotor and also blowing the scrap grass back to the field which will become organic fertilizer. This machine has following merits: no need of commercial fertilizer and grass storing case and saving money and work, no need of collection and clearing scrap grass and saving time and labor, it occupies small room and can mow in the filed and among trees and can make shape for the ornamental plant by taking off the horse and can be used flexibly.

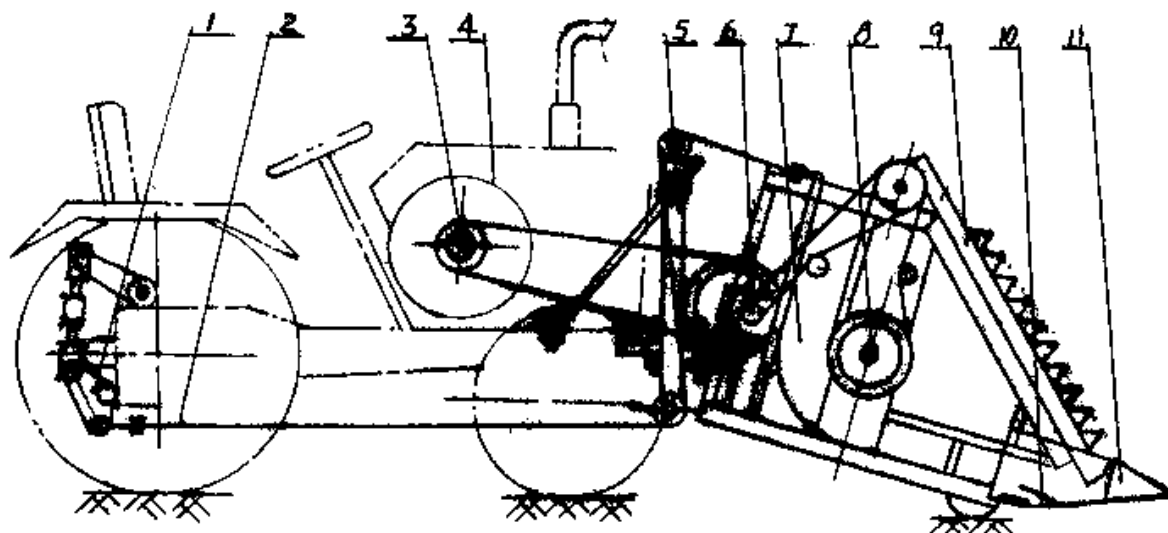
Family 58/63 - FAMPAT - ©Questel

Title

(CN2562556U)

Screw transport grass cutter

Images

**Publication data including kind & date**

CN2562556

Y

2003-07-30

CN2562556U

**Abstract**

(CN2562556U)

The utility model relates to a mowing machine, which solves the problem of tractor tyre rolling grass during cutting grass and solves the problem of grass twisting machine. In the mowing machine, a tractor is connected with a horizontal cutting table through an undercarriage, the undercarriage is fixed on a tractor bumper together with a front hanging plate is limited by a spacer pin; the horizontal cutting table is arranged right ahead of the tractor, the back part of the horizontal cutting table is movably connected with the undercarriage via a front suspension plate by single-point; a back suspension plate is used for mating with a wire rope for transmission, the back end of the wire rope is connected with the tail end of a tractor hydraulic arm, the front end of the wire rope is connected with the upper edge of the horizontal cutting table, and the wire rope is driven by a pulley block; a vertical cutter grass dividing device and a grass divider are arranged at one side of the horizontal cutting table, a reduction gear box is arranged on the horizontal cutting table, and a reciprocating cutter is arranged in the front of the horizontal cutting table. The utility model is used in mating with the tractor, and has the advantages of complete grass division, smooth delivery, tidy placement, good flexibility, and strong adaptability.

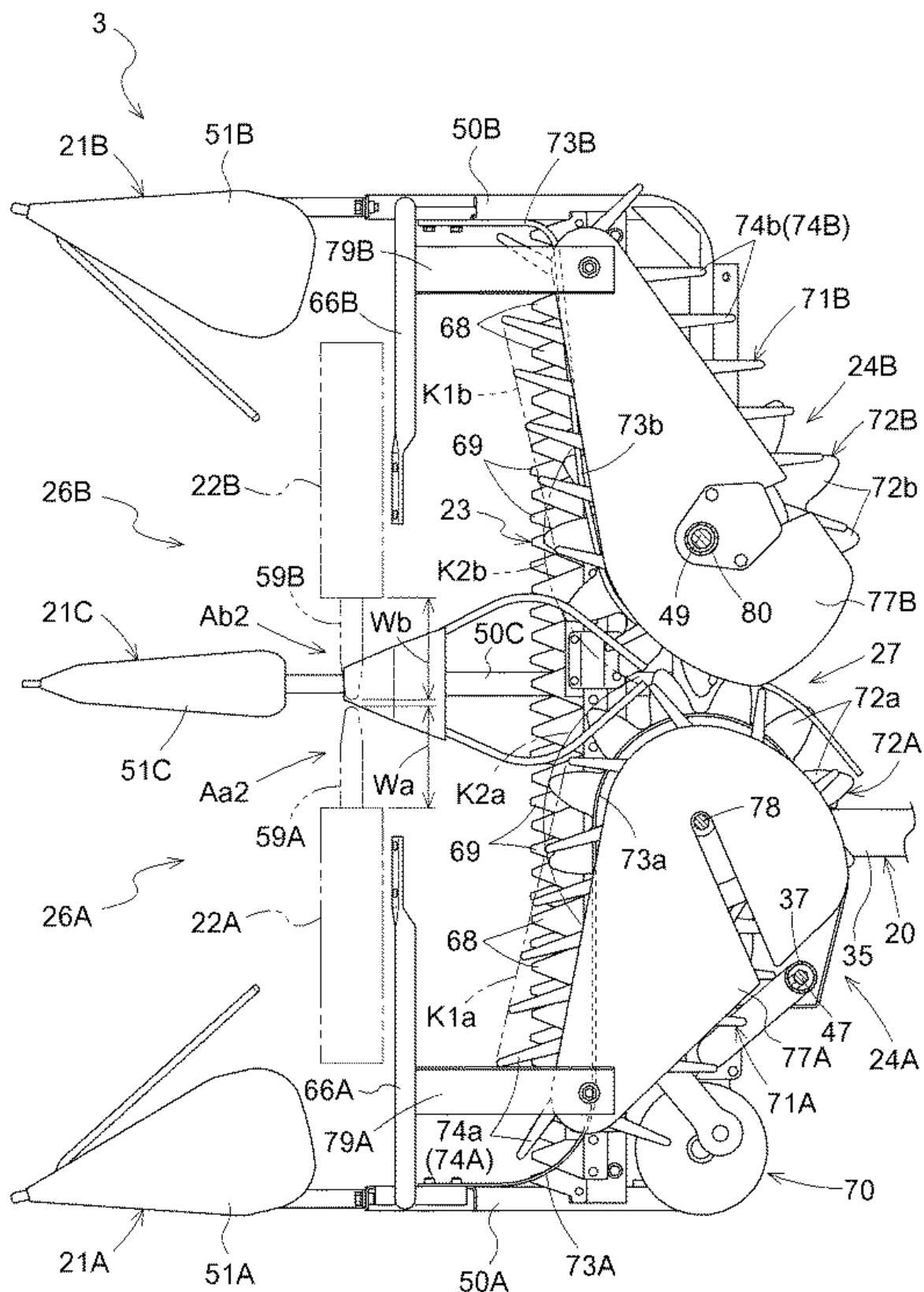
Family 59/63 - FAMPAT - ©Questel

Title

(JP2010011772)

Reaping and conveying structure of head-feeding combine harvester

Images



Publication data including kind & date

CN101617590	A	2010-01-06	CN101617590
JP2010011772	A	2010-01-21	JP2010011772
JP2010011771	A	2010-01-21	JP2010011771
JP2010104346	A	2010-05-13	JP2010104346
JP2010104344	A	2010-05-13	JP2010104344
CN101617590	B	2012-06-06	CN101617590B
JP5139900	B2	2012-11-22	JP5139900
JP5231945	B2	2013-03-29	JP5231945



JP5324845

B2 2013-07-26 JP5324845

Abstract

(JP5324845)

PROBLEM TO BE SOLVED: To improve cost-performance of a reaping and conveying part furnished with a pair of right and left pick-up frames.

SOLUTION: A reaping and conveying part 3 is designed to meet a double-frame four-row reaping specification by arranging three grass-dividing members 21A to 21C to divide the culm of crops C for each planted row interposing prescribed spaces between the members in lateral direction to allow the introduction of at most two rows of the crop C between adjacent grass-dividing members 21A to 21C, and installing pick-up devices 22A, 22B between adjacent grass-dividing members 21A to 21C and picking up the culm of the crop C introduced between the members 21A to 21C, thereby forming a pair of right and left pick-up frames 26A, 26B for two rows on the reaping and conveying part 3 for two frames and four rows.

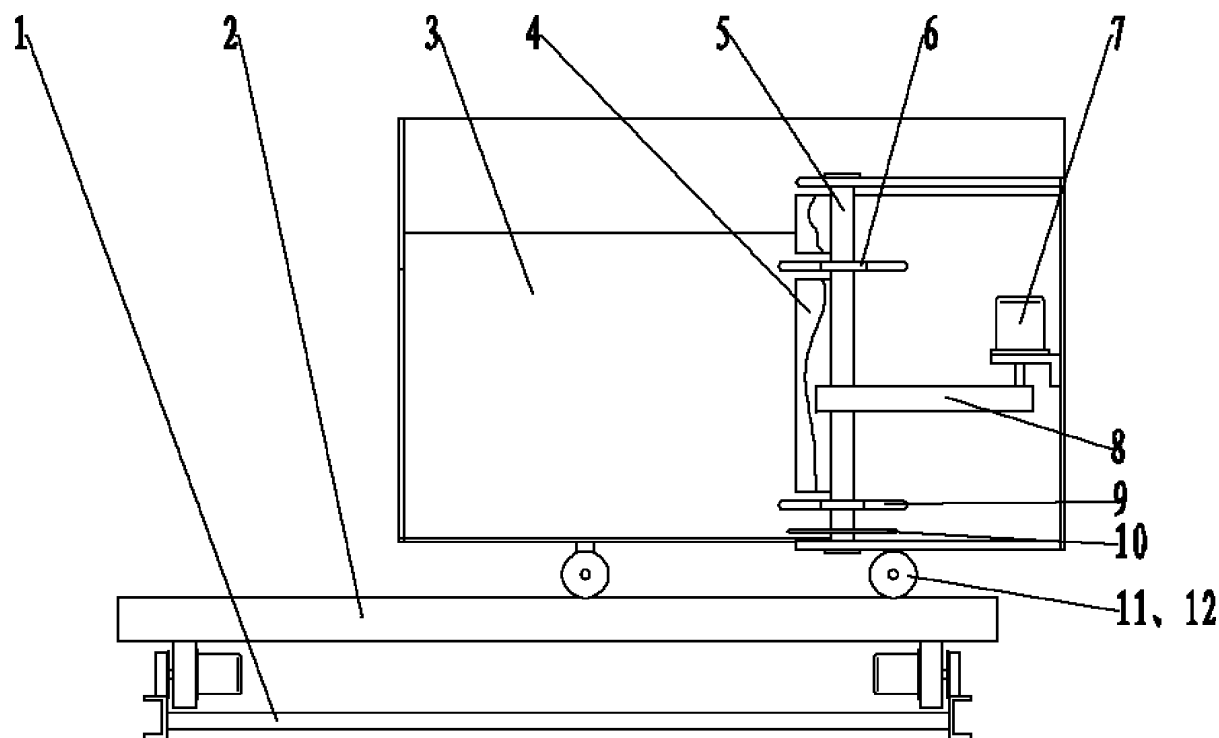
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Family 60/63 - FAMPAT - ©Questel

Title

(CN102550203B)

Small size track type greenhouse aquatic weed harvester

Images**Publication data including kind & date**[CN102550203](#)

A 2012-07-11

CN102550203

[CN102550203](#)

B 2013-08-14

CN102550203B

**Abstract**

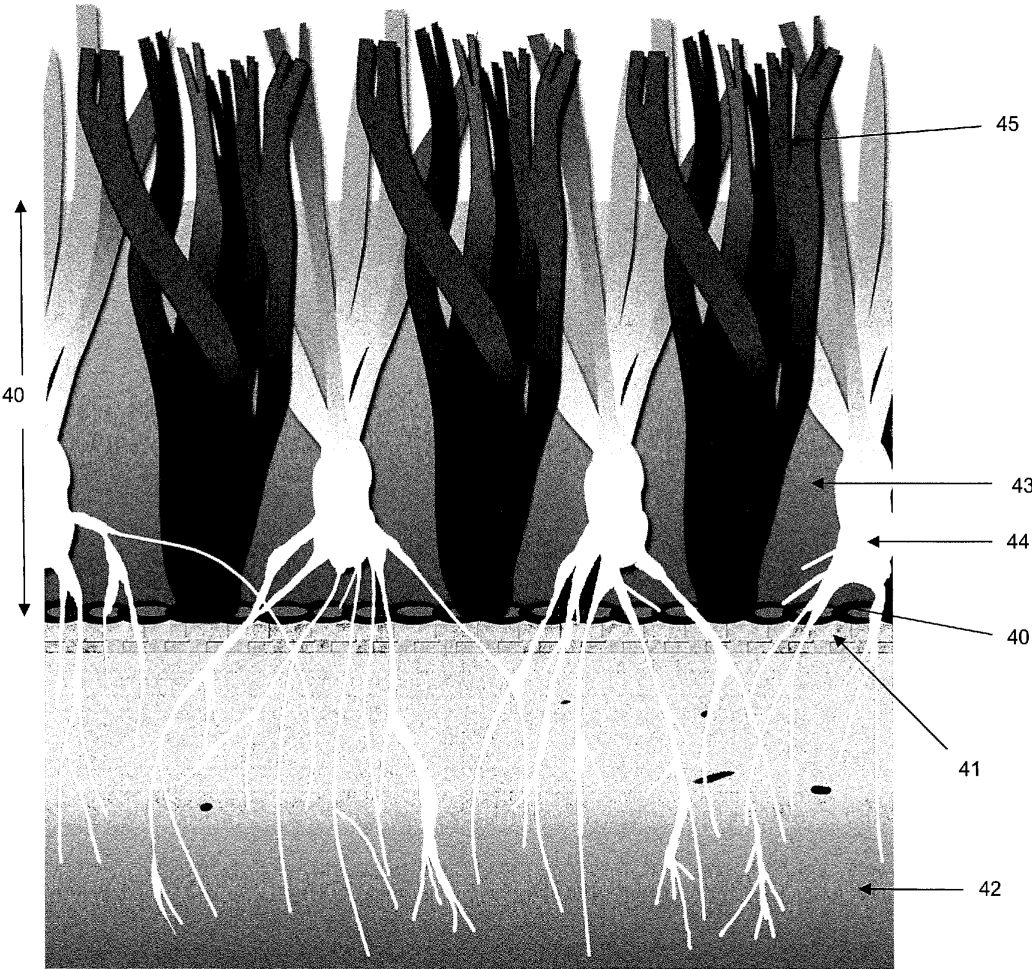
(CN102550203B)

The invention discloses a small size track type greenhouse aquatic weed harvester. Harvesting machine of prior art aiming at the task of aquatic weed harvesting in a green house is not invented. The harvester of the invention comprises a greenhouse guide track, a harvester moving rack, a weed concentrating bin, a protective shade, a spindle, an upper weed pulling wheel, a driving motor, a belt transmission device, a lower weed pulling wheel, a disc saw, a cropper rolling wheel and a rolling wheel driving motor. The harvester can move along a transverse guide track under the control of an operator, and can move forwards along a longitudinal guide track paved in the greenhouse along with the transverse guide track synchronously; a disc cutter on the harvester is used for cut the aquatic weed in the greenhouse, the weed pulling wheel

moves the cut aquatic weed to the weed concentrating bin, so that the aquatic weed falls to the bottom of the weed concentrating bin, so that the automatic weed cutting and gathering are realized; and working strength of labors is reduced effectively.

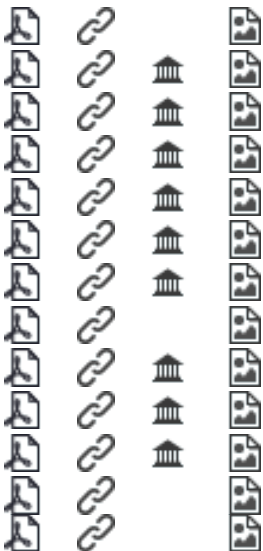
Family 61/63 - FAMPAT - ©Questel

Title
(EP3325720)
Hybrid turf surface and support therefor
Images



Publication data including kind & date

GB201700336	D0	2017-02-22	GB201700336
CA2984721	A1	2017-03-23	CA2984721
US20170081808	A1	2017-03-23	US20170081808
WO2017046648	A1	2017-03-23	WO201746648
AU2016291546	B2	2017-05-25	AU2016291546
KR20170121143	A	2017-11-01	KR20170121143
CN107709667	A	2018-02-16	CN107709667
MX2017014671	A	2018-03-07	MX2017014671
GB2554106	A	2018-03-28	GB2554106
BR112017025849	A1	2018-04-03	BR112017025849
IN201727043454	A	2018-04-20	IN201727043454
CL2017002962	A1	2018-05-18	CL2962201700



VN57620	A	2018-05-25	VN--57620				
EP3325720	A1	2018-05-30	EP3325720				
BR112017025849	A2	2018-08-14	BR112017025849				
JP2018527489	A	2018-09-20	JP2018527489				
KR10-1939139	B1	2019-01-16	KR101939139				
EP3325720	A4	2019-04-17	EP3325720				

Abstract

(EP3325720)

There is provided a hybrid turf support for use with natural grass to form a stable hybrid turf system, the hybrid turf support comprising a knitted reticulated support; and a plurality of grass-like fibers extending upwardly from the knitted reticulated support, the grass-like fibers comprising groups of fibers extending upwardly at intervals.

Family 62/63 - FAMPAT - ©Questel

Title

(CN103583144)

Grass-seed-separated type grass cutting and racking machine

Images**Publication data including kind & date**

CN103583144	A	2014-02-19	CN103583144				
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Abstract

(CN103583144)

The invention discloses a grass-seed-separated type grass cutting and racking machine and belongs to animal husbandry machinery used for harvesting forage grass in animal husbandry areas. By the hay rack, both the forage grass and grass seeds can be harvested at the same time and separated. The main technology includes that two cutters are simultaneously driven through the same power to cut the same forage grass, and the separated forage grass and grass seeds are separately harvested. The grass-seed-separated type cutting hay rack has the advantages that the beneficial grass seeds (such as alkali grass and wheatgrass) are harvested and the harmful grass seeds (such as northern stipa baicalensis) are separated during harvesting of the forage grass.

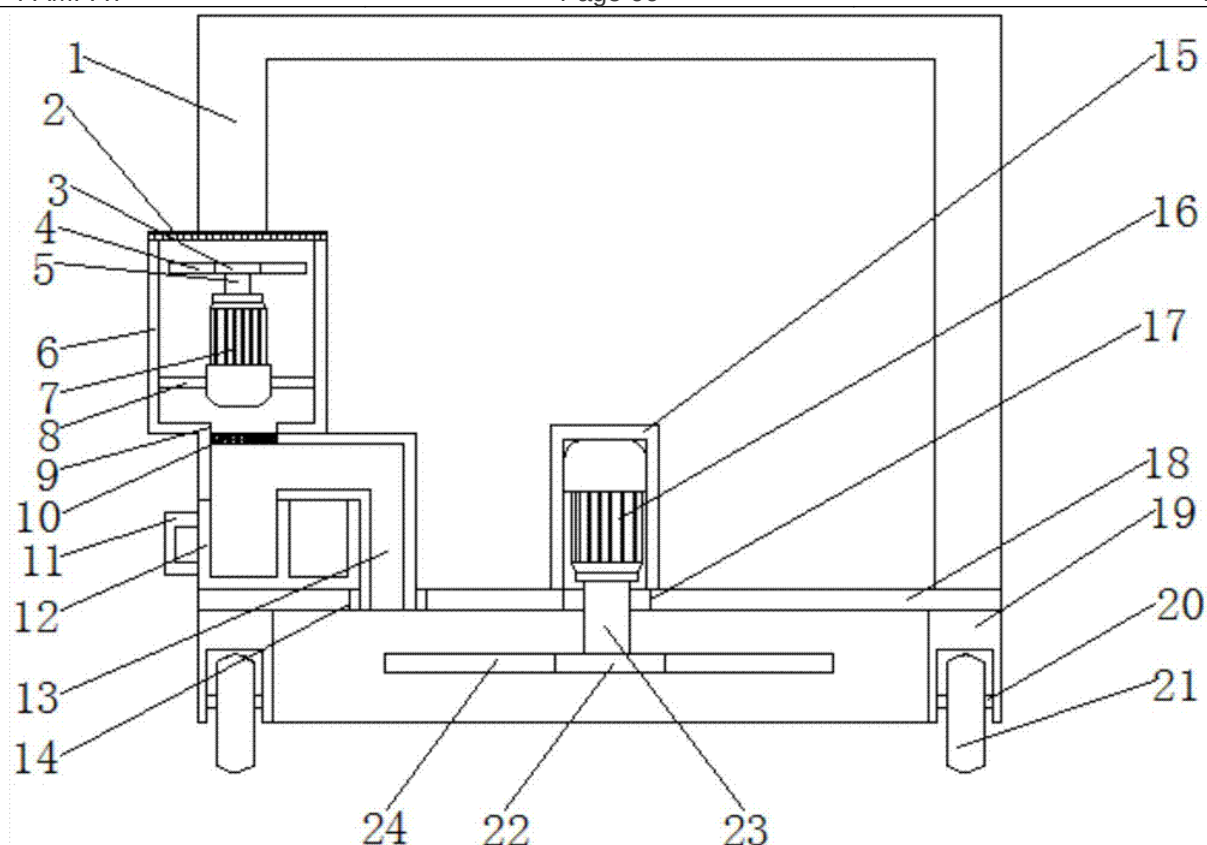
Family 63/63 - FAMPAT - ©Questel

Title

(CN206923300U)

Dustproof's gardens cutting grass machine

Images



Publication data including kind & date

CN206923300

U 2018-01-26 CN206923300U



Abstract

(CN206923300U)

The utility model provides a dustproof's gardens cutting grass machine relates to mechanical equipment and greening and environmental protection equipment field. This dirt -proof gardens cutting grassmachine, including the baffle, the one end fixedly connected with second carousel of second motor is kept away from to the second bull stick, the equal fixedly connected with second flabellum in surface about the second carousel, the top fixedly connected with wind network of second motor case, the bottom of second motor case is equipped with the dust absorption mouth, and the upper surface of baffle and the position joint of corresponding pipe have the box of collection. This dustproof's gardens cutting grass machine, through similar dust catcher theory of operation, the second flabellum that makes the second motor drive on the second operation dish is rotatory, thereby the wind of production passes through wind network discharges and produces suction, the filter screen that second motorbottom of the case portion set up filters the dust and the grass of inspiration, make the dust collect with the box in, finish using with collect the box take out outwell inside dust can, avoid flying upward of dust so greatly, ensure also that the staff's is healthy.