

1) Family number: 7613003 (US4182234A)

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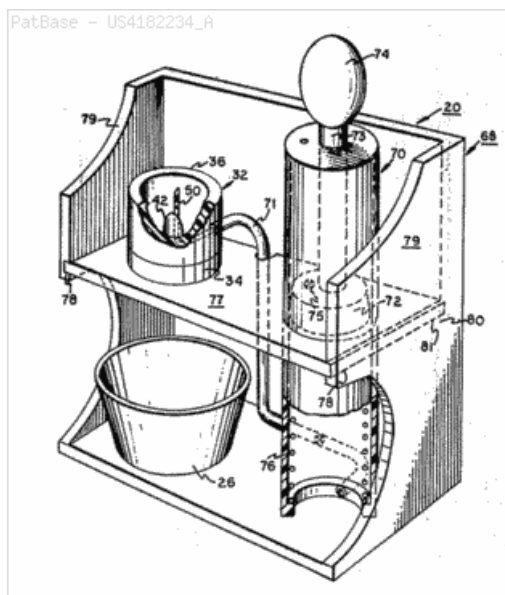
Title: Non-destructing eggshell egg contents remover
Priority: US19780866625 19780103
Family:

Publication number	Publication date	Application number	Application date
US4182234 A	19800108	US19780866625	19780103

Probable Assignee: REED WINSTON H
Assignee(s):(std): REED WINSTON H
Inventor(s):(std): REED WINSTON H
International class
(IPC 8-9): A01K43/00 A47J43/14 (Advanced/Invention);
A01K43/00 A47J43/00 (Core/Invention)
International class
(IPC 1-7): A23B5/00 A23B5/06
CPC: A01K43/00 A47J43/14
European class: A01K43/00 A47J43/14
US class: 99/495 99/568
[Classification Explorer](#)
Cited documents: US3249137 A, US3090412 A, US2735464 A, US2594619 A, US2445490 A,
Forward Citations: US8808264, US8545916, US6536114, US6314872, US6276265, US6260480, US6076260, US5317962,
US5297477, US5289762, US4764387, US2008210694, EP0283559, DE202010010705,

Abstract:

A non-destructing eggshell egg contents remover incorporates an egg receiving assembly incorporating an egg cup receptacle having a soft resilient hollow concave recess for placement of an egg therein. Protruding through the bottom portion of the egg receiving assembly is a pair of tubes, an egg contents discharge tube for receiving the extracted contents of the egg and an air inlet tube for forcing compressed air into the egg causing its contents to be removed through the discharge tube. The egg receiving assembly may be placed on a base adapted for holding in the user's hand and incorporating a rubber bulb or bellows positioned thereon for activation by the user's hand while holding the base. Other embodiments of the present invention provide for placing the egg receiving assembly in an open shelf-type housing with the air inlet tube either adjacent the egg contents discharge tube or positioned above the egg and insertable therein.



2) Family number: 15543015 (IE970415A)

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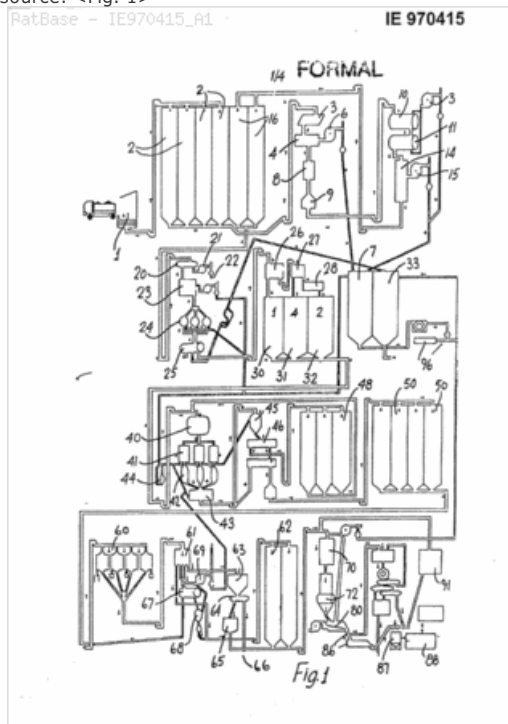
Title: A PROCESS FOR PRODUCING A FOOD PRODUCT
Priority: IE19970000415 19970604
Family:

Publication number	Publication date	Application number	Application date
IE970415 A1	19990110	IE19970000415	19970604

Probable Assignee: CALUSA LTD
Assignee(s):(std): CALUSA LIMITED ; CALUSA LTD
Inventor(s):(std): FLAHAVAN EDWARD ; FLAHAVAN JOHN ; EDWARD FLAHAVAN
International class
(IPC 8-9): A23B9/02 A23L1/10 A23L7/10 (Advanced/Invention);
A23B9/00 A23L1/10 (Core/Invention)
International class
(IPC 1-7): A23B9/02 A23L1/10

Abstract:

A process for preparing a quick cooking oats product in which there are two distinct cooking process, the first is a two-stage process with tight control over moisture content and cooking temperature then, further processing of the partially cooked oats before a final cooking process to produce an organoleptically acceptable cereal product there is also described a process for using, in an efficient manner, the hulls of the grain for providing a power source. <Fig. 1>

**3) Family number: 21959036 (US2970780A)**

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Title: CORN SHELLING AND COB GRINDING MECHANISM**Priority:** US19570696661 19571115**Family:**

Publication number	Publication date	Application number	Application date
US2970780 A	19610207	US19570696661	19571115

Probable Assignee: BOWEN RALPH R**Assignee(s):(std):** BOWEN RALPH R**Inventor(s):(std):** BOWEN RALPH R**International class (IPC 8-9):** A01F11/06 (Advanced/Invention);
A01F11/00 (Core/Invention)**International class (IPC 1-7):** B02B3/04**CPC:** A01F11/06**European class:** A01F11/06**US class:** 241/190 241/243 460/46 99/569 99/574[Classification Explorer](#)**Cited documents:** US843428 A, US2869793 A, US26010 A, US2291113 A, US2271898 A, US2271897 A, US1739574 A, US1137100 A,**Forward Citations:** US8216035, US7766267, US5967433, US5076158, US5052630, US4015782, US3952957, US3727846, US3384138, US3037713, US2011306394, US2009203411, CN103444372,**Abstract:**

(Claim 1) 1. A corn shelling and cob grinding device comprising a rotatable cylinder, protuberances spaced about the periphery of said cylinder, a fixed housing surrounding said cylinder, an intake port in said housing adjacent one end of said cylinder, said housing being provided with a foraminous lower portion, a plate having an edge profile relieved to accommodate the profile of the protuberances on said cylinder, means mounting said plate for movement toward and away from the vicinity of the periphery of said cylinder, a helical baffle extending longitudinally at the upper portion of said housing and above said cylinder, and a movable gate in said housing adjacent said baffle.

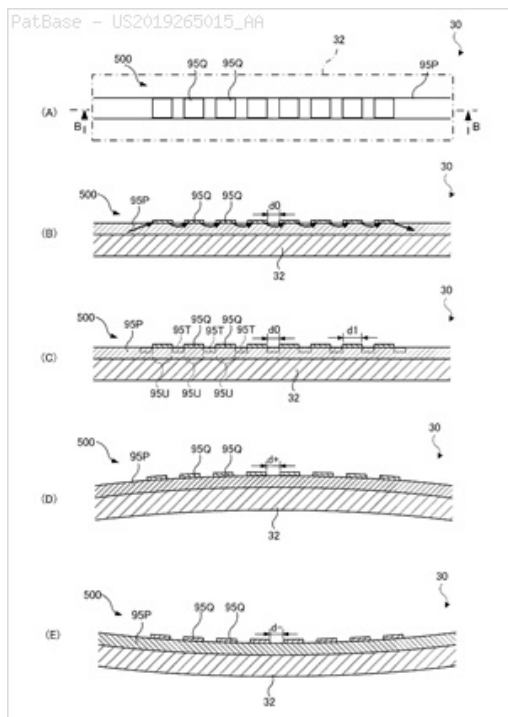
Family:	Publication number	Publication date	Application number	Application date
■	CN109923370 A	20190621	CN201780068764	20170905
	EP3511672 A1	20190717	EP20170848773	20170905
	JP2018040776 A2	20180315	JP20160177085	20160909
	JP2018040777 A2	20180315	JP20160177086	20160909
	KR20190043573 A	20190426	KR20197008536	20170905
	TW201823665 A	20180701	TW20170130695	20170907
	US2019265015 AA	20190829	US20170331251	20170905
	WO18047833 A1	20180315	WO2017JP32002	20170905
	■			

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UB UG UZ VC VN ZA ZM ZW

Classification Explorer

Abstract:

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5) Family number: 13517051 (GB2325845A)

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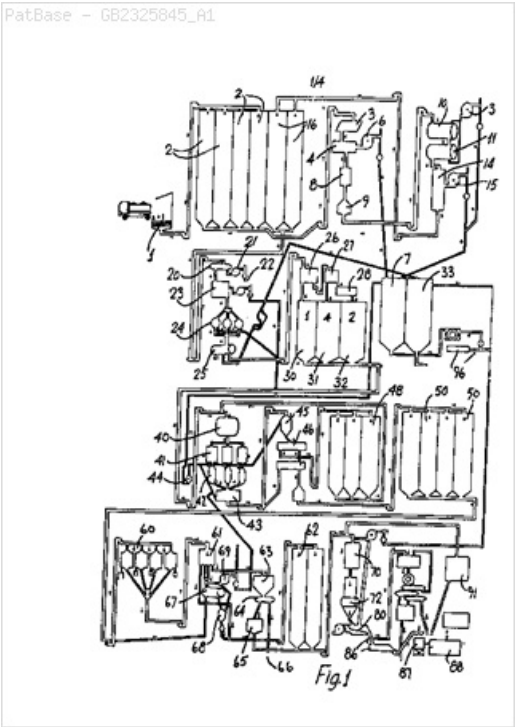
Title: OATS PRODUCT
Priority: IE19970000416 19970604 GB19970011780 19970606
Family:

	Publication number	Publication date	Application number	Application date
■	GB2325845 A1	19981209	GB19970011780	19970606
■	GB2325845 B2	20010912	GB19970011780	19970606
■	GB9711780 A0	19970806	GB19970011780	19970606
■	IE75752 B3	19970924	IE19970000416	19970604
■	IE970416 A2	19970924	IE19970000416	19970604

Probable Assignee: CALUSA LIMITED
Assignee(s):(std): CALUSA LIMITED ; CALUSA LTD
Inventor(s):(std): FLAHAVAN JOHN ; FLAHAVEN JOHN ; FLAHAVAN EDWARD
Inventor(s): JOHN FLAHAVAN ; JOHN FLAHAVEN ; EDWARD FLAHAVAN
International class (IPC 8-9): A23L1/164 (Advanced/Invention); A23L1/164 (Core/Invention)
International class (IPC 1-7): A23B9/02 A23L1/10 A23L1/168
CPC: A23L7/139
European class: A23L1/164F2
[Classification Explorer](#)
Cited documents: US4957762 A,

Abstract:

A process for preparing a quick cooking oats product in which there are two distinct cooking processes, the first is cooking of the whole oat grains followed by dehusking to give groats then, a final cooking process of the cut groats followed by flaking to produce an organoleptically acceptable cereal product. The hulls of the grain may be used for providing a power source.



6) Family number: 3514055 (FR2299821A)

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Title: MACHINE FOR STRIPPING BLACK CURRANT BUDS FROM BRANCHES - OFFERS SEVENFOLD INCREASE IN OUTPUT COMPARED WITH HAND STRIPPING

Priority: FR19750003791 19750204

Family:	Publication number	Publication date	Application number	Application date
	FR2299821 A1	19760903	FR19750003791	19750204
	FR2299821 B1	19800905	FR19750003791	19750204

Probable Assignee: BAUDINET DANIEL

Assignee(s):(std): BAUDINET DANIEL

International class (IPC 8-9): A23N15/02 (Advanced/Invention);
A23N15/00 (Core/Invention)

International class (IPC 1-7): A23N15/02 A61K35/78 A61K7/46

CPC: A23N15/02

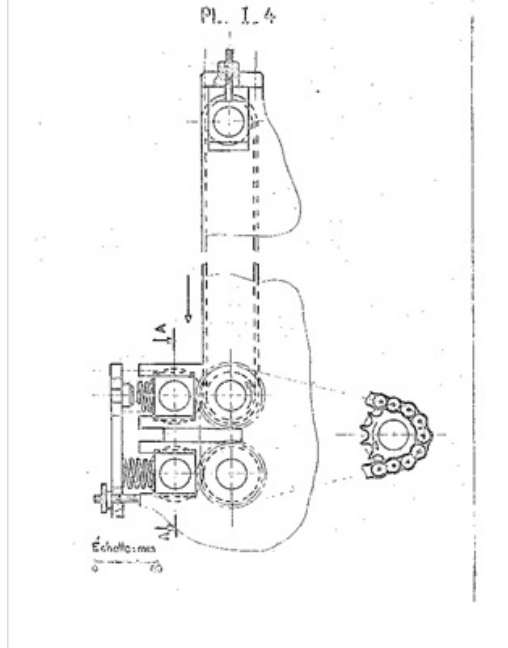
European class: A23N15/02

[Classification Explorer](#)

Forward Citations: WO9419970, FR2702340,

Abstract:

A machine for stripping buds, esp. black currant buds, from their branches has a cutter which divides the branches into convenient lengths which are spread on a conveyor belt to the carried forward longitudinally into the nip of a pair of resilient infeed rollers which push the lengths through the holes of a stripping grill where they are gripped in the nip of a pair of resilient outfeed rollers. Used for stripping buds from black current branches for use in pharmaceuticals, perfumes, etc. Compared with hand stripping at a max. of some 200g/hr., the machine enables one operator to produce about 1,500 g/hr, of comparable quality and increased yield.

**7) Family number: 41801065** (US2008113367A)

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Title: CLIP BASED SAMPLING OF SEED FOR THE REMOVAL OF SPECIFIC SEED TISSUE OR STRUCTURES FOR SEED ANALYSIS

Priority: US20060865554P 20061113 US20060865563P 20061113 US20070939381 20071113
 US20070939380 20071113 US20070939402 20071113 WO2007US84583 20071113
 WO2007US84546 20071113 WO2007US84564 20071113 US20090865554P 20091113
 US20110012526 20110124

Family:	Publication number	Publication date	Application number	Application date
	AR063802 AA	20090218	AR2007P105049	20071113
	AR063803 AA	20090218	AR2007P105050	20071113
	AR063812 AA	20090218	AR2007P105060	20071114
	BRPI0718910 A2	20131210	BR2007PI18910	20071113
	BRPI0718911 A2	20140121	BR2007PI18911	20071113
	CA2669154 AA	20090511	CA20072669154	20071113
	CA2669191 AA	20090511	CA20072669191	20071113
	CA2669191 C	20140408	CA20072669191	20071113
	CA2669194 AA	20090511	CA20072669194	20071113
	CA2669194 C	20160809	CA20072669194	20071113
	CL2007003268 A1	20080606	CL20070003268	20071113
	CL2007003269 A1	20080516	CL20070003269	20071113
	CL2007003274 A1	20080926	CL20070003274	20071113
	CL2010001023 A1	20110107	CL20100001023	20100928
	CL2010001062 A1	20110617	CL20100001062	20101001
	CL2010001121 A1	20110107	CL20100001121	20101013
	CL49661 B	20131127	CL20070003268	20071113
	CL50182 B	20140805	CL20070003274	20071113
	CN101573602 A	20091104	CN200780049324	20071113
	CN101573623 A	20091104	CN200780049299	20071113
	CN101578509 A	20091111	CN200780049369	20071113
	CN102095600 A	20110615	CN201010601808	20071113
	CN102095600 B	20140625	CN201010601808	20071113
	CN102095601 A	20110615	CN201010601843	20071113
	CN102156057 A	20110817	CN201010622824	20071113
	CN102156058 A	20110817	CN201010623435	20071113
	CN102156059 A	20110817	CN201010623446	20071113
	EP2074401 A2	20090701	EP20070864346	20071113
	EP2082208 A2	20090729	EP20070868745	20071113
	EP2082241 A2	20090729	EP20070854619	20071113
	US2008113367 AA	20080515	US20070939381	20071113
	US2008131254 AA	20080605	US20070939380	20071113
	US2008131924 AA	20080605	US20070939402	20071113
	US2011117570 AA	20110519	US20110012526	20110124
	US7735626 BB	20100615	US20070939380	20071113
	US7915006 BB	20110329	US20070939402	20071113
	WO08061095 A2	20080522	WO2007US84564	20071113
	WO08061095 A3	20081224	WO2007US84564	20071113
	WO08064005 A2	20080529	WO2007US84546	20071113
	WO08064005 A3	20081120	WO2007US84546	20071113
	WO08064019 A2	20080529	WO2007US84583	20071113

Probable Assignee: PIONEER HI BRED INT INC

Assignee(s):(std): BECKER STEVEN M ; COPE JASON ; KURTH DAVID ; PIONEER HI BRED INT ; PIONEER HI BRED INT INC ; PIONNER HI BRED INT ; PIONNER HI BRED INTERNAT INC ; PIONNER HI BRED INTERNATIONAL

Assignee(s): PIONNER HI BRED INTERNATIONAL INC ; PIONNER HI BRED INT INC ; PIONEER HI BRED INTERNATIONAL INC ; APPLE INC

Inventor(s):(std): BECKER STEVEN M ; COPE JASON ; DAVID KURTH ; JASON COPE ; JASON COPE DAVID KURTH STEVEN ; KURTH DAVID ; JASON COPE DAVID KURTH

Inventor(s): STEVEN M BECKER ; JASON COPE DAVID KURTH STEVEN M BECKER ; JASON COPE STEVEN M BECKER

Agent(s): TORYS LLP; PORZIO; BENTHAM ANDREW; JACKSON MARTIN PETER; MCKEE VOORHEES AND SEASE PLC ATTN PIONEER HI BRED; ALSTON AND BIRD LLP; MOXON CLAIRE L

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN VA ZM ZW

International class (IPC 8-9): A01C1/00 A01C1/02 A01G3/00 A24F13/24 B26B13/00 B26B17/00 B26B29/06 B65G47/24 C12M1/26 C12M3/00 C12Q1/00 C12Q1/02 C12Q1/08 C12Q1/68 G01N1/00 G01N1/04 G01N1/06 G01N1/28 G01N1/36 G01N27/00 G01N27/72 G01N33/02 G01N35/00 (Advanced/Invention); A01C1/00 A01G3/00 B26B17/00 B26B29/00 B65G47/24 C12M1/26 C12Q1/00 C12Q1/68 G01N1/04 G01N1/28 G01N1/36 G01N33/02 G01N35/00 (Core/Invention)

International class (IPC 1-7): A01C1/02 A01H5/00 B65G47/24 C12Q1/68 G01N1/00 G01N1/18 G01N33/50

CPC: A01C1/025 A01G3/00 A24F13/24 B26B13/00 B26B17/00 G01N1/04 G01N1/28 G01N35/00 G01N35/0098 G01N2035/00564 B65G17/46 B65G37/005 B65G2201/0202 B65G2203/044 G01N35/0 A01C1/02 A24F13/2 B26B13/0 B26B17/0 B07C2501/009 G01N1/2035 A01H1/04 A01H4/001 G01N2033/0077

European class: A01C1/02B A01G3/00 A24F13/24 B26B13/00 B26B17/00 C12M1/26 G01N1/04 G01N1/20B G01N1/28 G01N35/00 L65G17/46 L65G201/02A L65G203/04D4 L65G37/00B S01N33/00G S01N35/00F6 S01N35/00M

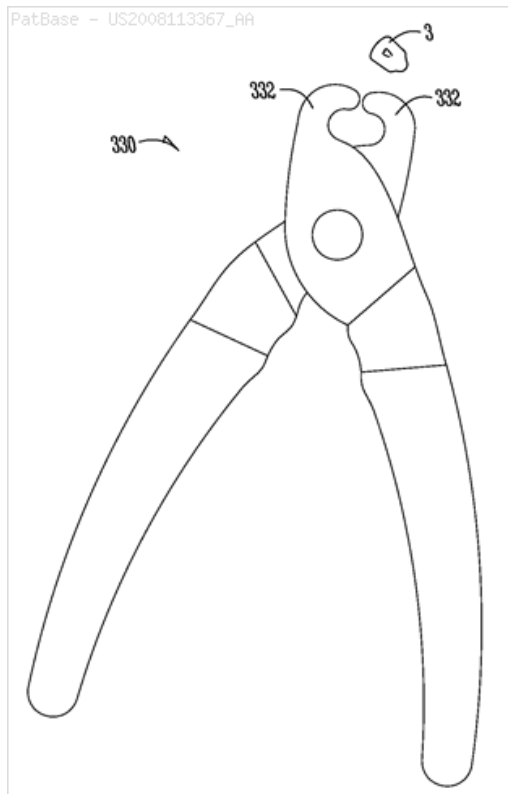
US class: 111/178 198/381 198/690.1 30/124 30/124S 30/286 30/286S 414/754 414/816 435/29 435/29S 435/309.1 435/309.100S 435/4 435/40 435/40.51 435/40.510P 435/4S 435/6 435/6.1 435/6.100P 435/6.11 435/6.110P 435/6.12 435/6.120S 435/6P 47/56

[Classification Explorer](#)

Cited documents: WO07103786 A2, WO07103769 A2, WO03100381 A1, US8281935 BB, US8245439 BB, US8076076 BB, US8071845 BB, US8031910 BB, US8028469 BB, US7998699 BB, US7998669 BB, US7941969 BB, US7934600 BB, US7905050 BB, US7877926 BB, US7849632 BB, US7832143 BB, US7830516 BB, US7767883 BB, US7707883 BB, US7703238 BB, US7685768 BB, US7611842 BB, US7600642 BB, US7591374 BB, US7591101 BB, US7588151 BB, US7502113 BB, US7367155 BB, US7290665 BB, US7207485 BB, US7197374 BB, US7067834 BB, US7044306 BB, US7043070 BB, US7024817 BB, US6959617 BB, US6865556 BB, US6809819 BA, US6706989 BB, US6705827 BB, US6659338 BA, US6537826 BA, US6409007 BA, US6307123 BA, US5835206 A, US5677474 A, US5097625 A, US4602716 A, US4300462 A, US4278625 A, US4238658 A, US4230983 A, US4015366 A, US3991704 A, US3930212 A, US3921459 A, US3884347 A, US3831736 A, US3830902 A, US3741793 A, US3636486 A, US3572548 A, US3530372 A, US3460492 A, US3344769 A, US3195485 A, US2875942 A, US2675942 A, US2012180386 AA, US2012079629 AA, US2011296930 AA, US2011225680 AA, US2011217700 AA, US2011160068 AA, US2011129836 AA, US2011081716 AA, US2010299790 AA, US2010086963 AA, US2010044356 AA, US2009155878 AA, US2009061449 AA, US2008131924 AA, US2007207485 AA, US2007204366 AA, US2007048872 AA, US2006048248 AA, US2006048247 AA, US2006046264 AA, US2006046244 AA, US2006042527 AA, US2005210744 AA, US2004267457 AA, US183256 A, GB2293744 A1, EP1126268 A1, EP0611604 A2, DE19616216 A1, CN2074534 U, CN1834657 A, CN101080165 A,

Forward Citations: WO19101657, WO17023736, WO15171573, WO15134852, WO15110472, WO13012778, WO12170651, WO12170651, WO12122156, WO12122156, WO12006755, WO11163326, WO11163326, WO11156184, WO11119763, WO11019863, WO10108082, WO10089138, WO10022356, WO10022289, WO10022289, WO10022286, WO10021825, WO09079505, WO09079505, USRE45489, US9986699, US9980424, US9924626, US9842252, US9568917, US9551636, US9448141, US9387518, US9383291, US9320210, US9307708, US9302269, US9275265, US9147173, US9027278, US9003696, US8997398, US8965101, US8959833, US8943785, US8937410, US8916383, US8915692, US8907245, US8863436, US8833565, US8815500, US8662425, US8609179, US8579118, US8568821, US8561346, US8548222, US8539713, US8535877, US8523092, US8519297, US8443545, US8436225, US8434259, US8401271, US8313053, US8312672, US8286387, US8268264, US8245439, US8240084, US8221968, US8189901, US8071845, US8028469, US7998669, US7997415, US7968282, US7941969, US7877926, US7849632, US7832143, US7830516, US7830504, US7767883, US7703238, US7685768, US7611842, US7600642, US7591101, US2018194022, US2017291806, US2016374259, US2013302805, US2013152836, US2013011843, US20111309102, US2011297589, US2011225680, US2011215014, US2011160068, US2011129836, US2011117570, US2011081716, US2011079192, US2011054969, US2011047042, US2010329515, US2010299790, US2010243773, US2010209576, US2010200405, US2010196950, US2010086963, US2010050300, US2010047912, US2010047801, US2010047442, US2010044356, US2009252880, US2009161102, US2009155878, US2009075325, US2009025288, US2008317279, US2008310674, US2008000815, US2007207485, US2006048248, US2006046264, US2006046244, US2006042528, US2006042527, US2005082207, US10705102, US10597275, US10542661, US10477859, US10350780, US10280472, US10278345, US10254200, US10132725, FR3016698, EP3485976, EP3113601, EP2734305, EP2552185, EP2538769, EP2394175, EP2326159, EP2326159, CN110199629, CN107921653, CN106737898, CN106737898, CN106179735, CN106102452, CN106102452, CN105819200, CN105424405, CN104458319, CN103155744, CN103155744, CN103118527, CN103118527, CN102884891, CN102884891, CN102821593, CN102405401, CN102165320, CN102066896, CN102066896, AU2016303433, AU2011232425,

Abstract:
Apparatus, methods, and systems for useful sampling of seed, wherein viability is maintained, are disclosed. Seed from one generation in a plant advancement experiment is individually sampled by removal and collection of tissue from the seed using a hand-held and manually operated tool having one or more cutting edges. The tissue is then processed to derive one or more biochemical, genetic, or phenotypic characteristic of the seed before a decision is made whether to utilize that seed further in a plant advancement experiment or other plant research and development. In some embodiments of the method, the sampling is controlled to remove a useful amount of tissue for analytical purposes without significant effect on viability potential of the sampled seed. In some embodiments, the sampling is controlled to deter contamination of the sample. In some embodiments, the seed is held in pre-determined orientation to facilitate efficient and accurate sampling.



8) Family number: 3796127 (US4373536A)

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Title: Mobile corn harvester

Priority: US19810269421 19810601

Family:

Publication number	Publication date	Application number	Application date
US4373536 A	19830215	US19810269421	19810601

Probable Assignee: PENHA MAQUINAS AGRICOLAS

Assignee(s):(std): PENHA MAQUINAS AGRICOLAS

Assignee(s): CIA PENHA DE MAQUINAS AGRICOLAS COPEMAG ; CIA PENHA DE MAQUINAS AGRICOLAS COPEMAG AV BRASIL

Inventor(s):(std): DA SILVA JOSE T

International class
(IPC 8-9): A01D45/02 A01F11/06 (Advanced/Invention);
A01D45/00 A01F11/00 (Core/Invention)

International class
(IPC 1-7): A01F12/18

CPC: A01D45/02 A01F11/06

European class: A01D45/02 A01F11/06

US class: 460/46 460/80

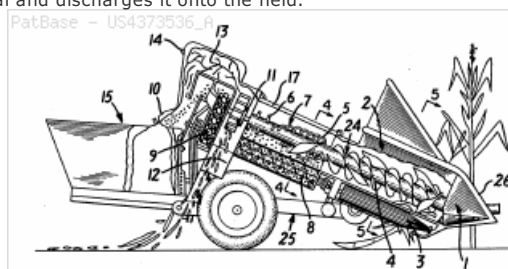
[Classification Explorer](#)

Cited documents: US4159023 A, US3534742 A, US3373871 A, US1374518 A,

Forward Citations: US8196379, US8141332, US8087223, US8002616, US7856800, US6327970, US6234072, US5904032, US5875622, US5256106, US4892505, US2011113743, US2010313539, US2010257831, US2010018177, US2009019826, US10159187, CN105453828, CN105265095, CN102440117, CN102293097,

Abstract:

A mobile corn harvester comprises a chassis on which is mounted an upwardly and rearwardly inclined casing. The forward end of the casing is formed as a hopper into which fall corn stalks cut by cutters at the front of the casing. A rotor rotatable in the casing has a forward portion formed as a helical screw which separates ears from the stalks and transports the ears rearwardly to a thrashing section. The stalks pass down through an opening in the bottom of the casing and are crushed by lobed rollers. The thrashing section comprises a cylindrical screen and a rear portion of the rotor having thrashing loops and pins thereon. The grain kernels pass through the screen into a trough where they are transported to the rear of the casing and then up to a bagging platform. A radial fan at the rear end of the rotor draws off waste material and discharges it onto the field.



9) Family number: 21788152 (US2385193A)

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Title: CORN AND STALK HARVESTER

Priority: US19410404270 19410728

Family:	Publication number	Publication date	Application number	Application date
	US2385193 A	19450918	US19410404270	19410728

Probable Assignee: BURGIN KERMIT H

Assignee(s):(std): BURGIN KERMIT H

Inventor(s):(std): BURGIN KERMIT H

International class (IPC 8-9): A01D45/02 (Advanced/Invention);
A01D45/00 (Core/Invention)

CPC: A01D45/02 Y10S56/06

European class: A01D45/02

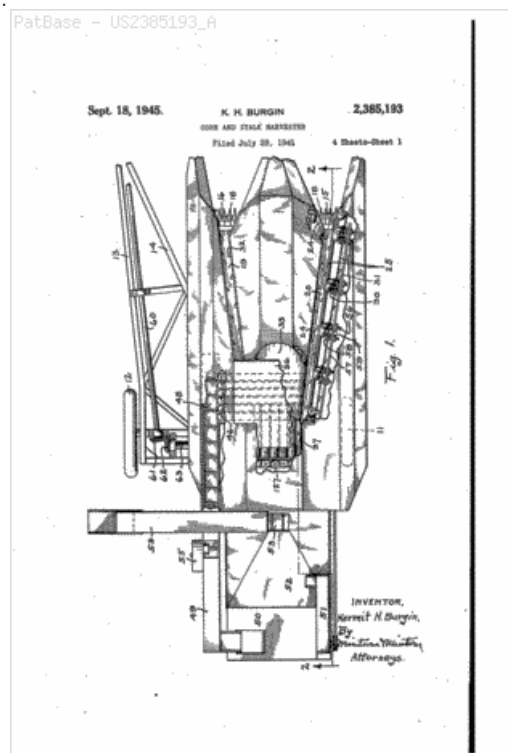
US class: 56/6 56/60 56/66 56/DIG.6

[Classification Explorer](#)

Forward Citations: US5875622, US2826031, US2661586, US2636329, US2527786, US2517401, US2513155, US2511960, US2491195, EP0179930,

Abstract:

1. In a corn harvesting machine, the combination with stalk severing means, of conveying belt means spaced above the severing means to engage opposing sides of corn stalks; conveying belt means spaced below said engaging means to engage lower portions of the corn stalks; said first; engaging means extending forwardly of the second and lower engaging means; and means driving said first engaging means at a slower rate of speed than that of said second engaging means ; whereby a severed corn stalk is tilted forwardly while engaged and held by both of said engaging means and conveyed therebetween; each of said upper and lower' conveying means comprising a pair of opposing belts; and means permitting one belt in each pair to retract yieldingly between ends thereof to provide yielding gripping of the corn stalks between the belts of each of said pairs, said means comprising spaced apart rollers individually spring pressed against the stalk gripping sections of the belts whereby localized zones of those sections may retract independently of other zones thereof.



10) Family number: 22581364 (US3292870A)

© PatBase

Title: VEGETATION PROCESSING MACHINE

Priority: US19640418492 19641215

Family:	Publication number	Publication date	Application number	Application date
	US3292870 A	19661220	US19640418492	19641215

Probable Assignee: LANG RAYMOND M

Assignee(s):(std): LANG RAYMOND M

Inventor(s):(std): LANG RAYMOND M

International class (IPC 8-9): A01D43/00 A01G33/02 A23N12/08 A23N17/00 B01D53/26 F26B1/00 F26B17/20 F26B25/00 (Advanced/Invention);
A01D43/00 A01G33/00 A23N12/00 A23N17/00 B01D53/26 F26B1/00 F26B17/00 F26B25/00 (Core/Invention)

International class (IPC 1-7): A01G31/02

CPC: A01D43/003 A23N12/083 A23N17/00 B01D53/26 F26B1/005 F26B17/20 F26B25/005

European class: A01D43/00B A23N12/08A A23N17/00 B01D53/26 F26B1/00B F26B17/20 F26B25/00C

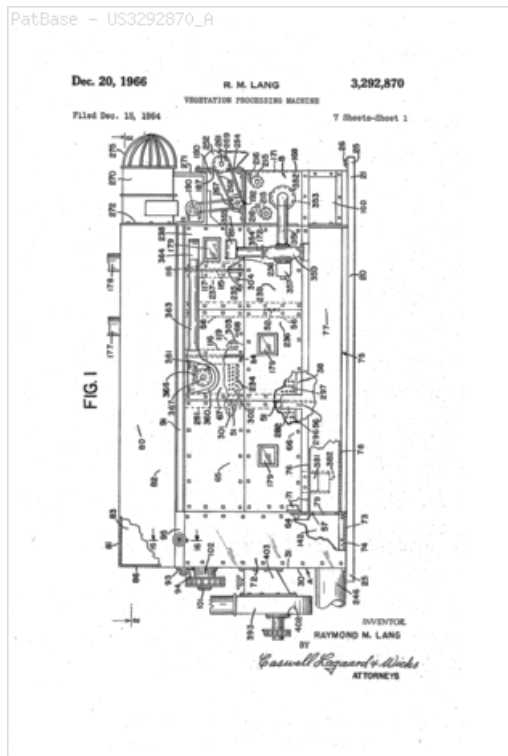
US class: 241/65 460/46 99/476 99/537

Cited documents: US2543571 A,

Forward Citations: WO9311396, US5375343, ES2124135, ES2080017,

Abstract:

(Claim 1) 1. A vegetation processing machine comprising: (a) enclosing means forming a processing chamber cylindrical in form, including (b) a substantially arcuate sieve, '-(c) a processing device within said chamber including (d) a shaft Coaxial with said sieve, (e) a number of flexible flays longitudinally spaced and secured to said shaft, (f) means for rotating said shaft and causing said flays to extend outwardly therefrom with portions thereof traveling in proximity to said sieve, (g) a number of arms secured to the shaft and disposed between certain of said flays, (h) means on said arms traveling in proximity to said sieves and adapted to progress the vegetation engaged thereby toward the path of movement of an adjoining flay, (i) means for conducting air into said chamber to contact the vegetation therein and extract moisture therefrom, (j) means for heating said air, (k) means for feeding the vegetation into said chamber, (l) means for removing the processed vegetation from said chamber and (m) means for removing the moisture laden air from the chamber.



11) Family number: 1516409 (US4078571A)

© PatBase

Title: Separating unit for combine harvesters

Priority: US19760705380 19760714

Family:

Publication number	Publication date	Application number	Application date
BR7703391 A	19780905	BR19770003391	19770526
CA1047876 A1	19790206	CA19770276266	19770415
DE2729012 A1	19780119	DE19772729012	19770628
DE2729012 C2	19861127	DE19772729012	19770628
FR2358095 A1	19780210	FR19770018616	19770617
FR2358095 B1	19830826	FR19770018616	19770617
GB1571428 A	19800716	GB19770022209	19770526
IT1115332 A	19860203	IT19770023962	19770524
US4078571 A	19780314	US19760705380	19760714

Probable Assignee: BLUE LEAF IP INC

Assignee(s):(std): SPERRY CORP ; SPERRY RAND BRASIL ; SPERRY RAND CORP

Assignee(s): TODD ROBERT R ; SPERRY RAND CORP ORA SPERRY CORP ; SPERRY RAND BRASIL SA ; SPERRY CORP NEW HOLLAND PA US ; BLUE LEAF IP ; BLUE LEAF IP INC ; FORD NEW HOLLAND INC ; FORD NEW HOLLAND INC A CORP OF DE ; NEW HOLLAND INC ; ROWLAND HILL EDWARD W

Inventor(s):(std): TODD R ; ROWLAND HILL E ; TODD ROBERT R ; ROWLAND HILL EDWARD W ; TODD ROBERT RAY ; ROWLAND HILL EDWARD WILLIAM

Inventor(s): RAY TODD ROBERT ; ROWLAND HILL EDWARD WILLIAM LANCASTER PA US ; ROWLAND HILL EDWARD WILLIAM LANCASTER PA ; TODD ROBERT RAY LEOLA PA ; WILLIAM ROWLAND HILL EDWARD ; TODD ROBERT RAY LEOLA PA US

International class (IPC 8-9): A01F11/00 A01F12/44 A01F7/00 A01F7/06 (Advanced/Invention); A01F12/44 A01F7/00 (Core/Invention)

International class (IPC 1-7): A01D41/00 A01D41/02 A01D41/12 A01F11/00 A01F12/20 A01F12/44 A01F7/00 A01F7/06

CPC: A01F7/06 A01F12/442

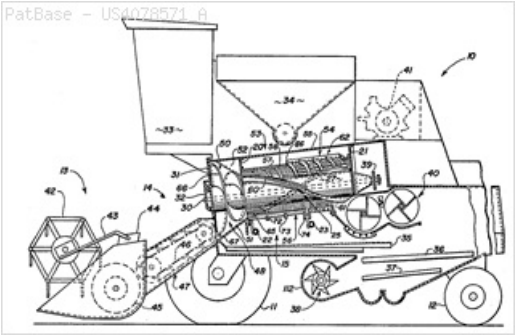
European class: A01F12/44A A01F7/06

US class: 460/66 460/81 56/14.6

Cited documents: US3982548 A, US3871384 A, US3742686 A, US3481343 A,

Forward Citations: WO13162634, US9119349, US8721411, US8646715, US8636568, US6966506, US6712691, US6711884, US6709329, US6625964, US6500063, US6422937, US6358142, US6241605, US6193604, US6074297, US5873226, US5816911, US5795222, US5794423, US5045025, US4711075, US4461306, US4273138, US4265077, US4248248, US4208858, US2014174049, US2012244921, US10257983, FR2430185, EP0117592, AU2012204033,

Abstract:
A combine harvester comprising at least one generally cylindrical crop handling unit having tandem threshing and separating sections through which material is advanced along a generally helical path. A conveyor is provided for receiving crop material from a forwardly positioned crop header and delivering it axially into the cylindrical unit. During operation, grain is separated from the crop material and discharged through concaves and grates in the threshing and separating sections, respectively, onto a grain pan which in turn deposits it on cleaning sieves located rearwardly of the grain pan. The clean grain is elevated to a storage tank mounted on the combine while the residue is conveyed rearwardly and expelled onto the field. The grate in the separating section is cylindrical in configuration and comprises a plurality of generally transverse members retained by spaced longitudinal rub bars defining a configuration of apertures permitting discharge of grain over most or all of the circumferential surface of the cylindrical unit. One or more of the transverse members have at least one slightly askew section to assist advancement of crop material along its helical path in the separating section of the combine. A portion of the separation grate extends into the threshing section.



12) Family number: 21951419 (US2970532A) © PatBase

Title: APPARATUS FOR AUTOMATIC PROPORTIONED MIXING AND GRINDING
Priority: US19540408744 19540208
Family:

Publication number	Publication date	Application number	Application date
US2970532 A	19610207	US19540408744	19540208

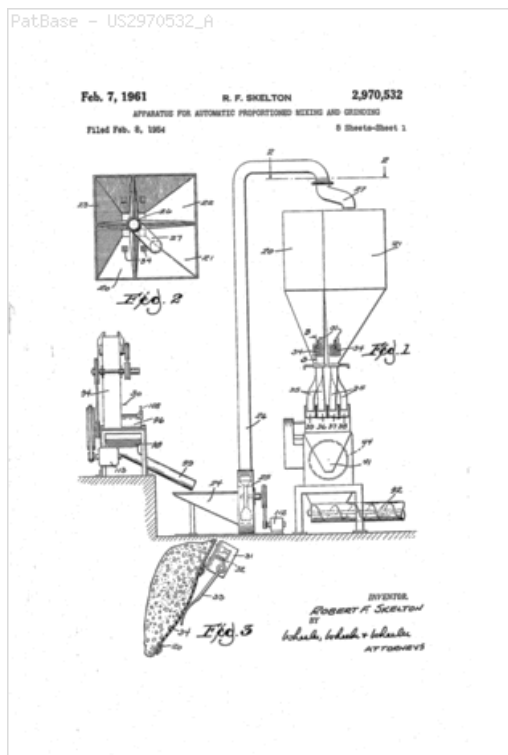
Probable Assignee: BELLE CITY MFG CO
Assignee(s):(std): BELLE CITY MFG CO ; BELLE CITY MFG COMPANY
Assignee(s): BELLE CITY MANUFACTURING COMPANY
Inventor(s):(std): SKELTON ROBERT F
International class (IPC 8-9): A01K5/02 B01F15/04 (Advanced/Invention); B01F3/18 (Advanced/Non-invention); A01K5/00 B01F15/04 (Core/Invention); B01F3/00 (Core/Non-invention)
International class (IPC 1-7): B01F5/24
CPC: Y10S241/604 A01K5/0275 B01F3/18 B01F15/0483 Y10T74/2102
European class: A01K5/02G B01F15/04J L01F3/18
US class: 119/57.1 198/662 222/134 241/186.5 241/604 366/156.1 366/156.2 366/177.1 366/19 366/193 366/318 366/325.92 74/568R 99/486 99/489 99/492 99/493 99/494 99/573

[Classification Explorer](#)

Cited documents: US991178 A, US520138 A, US2669924 A, US2658644 A, US2489498 A, US2376304 A, US2285765 A, US2279287 A, US1825475 A, US1583892 A,

Forward Citations: USB304687, US8622660, US6557598, US6267495, US5718188, US5479850, US5215372, US5054934, US3944118, US3924783, US3598087, US3556418, US3498548, US3348467, US3318228, US3316830, US3272180, US3259325, US3230902, US3202084, US3192047, US2999449, US2014061249, US2001038876, EP0247342, EP0247342,

Abstract:
(Claim 1) Apparatus for preparing a batch of stock food comprising in combination a grinding and. mixing device having a feeding opening, a plurality of feeding conveyors discharging into said opening, hoppers fro m which. the respective conveyors operate for the delivery of con- tents of the respective hoppers into the opening of said device, intermittent driving means to the several conveyors including means for predetermining the relative rate of operation thereof by selectively varying the time duration of intermittent drive to said conveyors, and motor means operatively connected with said driving means and with said device and having a time control whereby said device and driving means may be set for a predetermined period of operation.

**13) Family number: 62468440** (MX345727B)

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Title: EQUIPMENT AND METHOD FOR CUTTING THE SHANK FROM EARS OF MAIZE AND REMOVING THE HUSK LEAVES. EQUIPO Y METODO PARA CORTAR EL PEDUNCULO DE MAZORCAS Y DESHOJARLAS.

Priority: MX20150006919 20150601

Family:	Publication number	Publication date	Application number	Application date
	■ MX2015006919 A1	20160217	MX20150006919	20150601
	■ MX345727 B	20170126	MX20150006919	20150601

Probable Assignee: UNIV AUTONOMA CHAPINGO

Assignee(s):(std): UNIV AUTONOMA CHAPINGO

Assignee(s): UNIVERSIDAD AUTONOMA CHAPINGO

Inventor(s):(std): REYES JOSE GUILLERMO CEBADA ; PEDRO CRUZ MEZA ; NOE VELAZQUEZ LOPEZ ; MEZA PEDRO CRUZ ; LOPEZ NOE VELAZQUEZ ; LOPEZ ERUBIEL BERNABE ; KRIUCHKOVA EUGENIO ROMANTCHIK ; JOSE GUILLERMO CEBADA REYES ; EUGENIO ROMANTCHIK KRIUCHKOVA ; ERUBIEL BERNABE LOPEZ

International class A01D45/02 A01F11/06 G06K9/62 G06T7/60 (Advanced/Invention)
(IPC 8-9):

[Classification Explorer](#)

Abstract:

The present invention refers to a method for developing an algorithm intended to determine the accurate location in a predetermined range for performing the cut of the shank in the optimum point of an ear of maize, where the whole husk leaves remain free and are removed with easiness, based on geometric parameters of the same; the system is able to locate this range from an image captured by a camera and an electronic system of automated control that is applied in an equipment using a system for cutting the ears of maize in the zone of the base stalk and transporting them to an area of husk leaves removal; where said cutting system is supported on a sliding cart with a position adjustment adjusted by means of the electronic system of automated control.

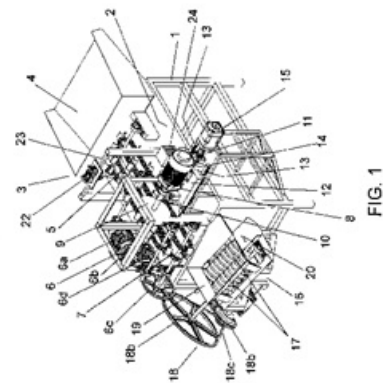


FIG. 1

14) Family number: 22709441 (US2787106A)

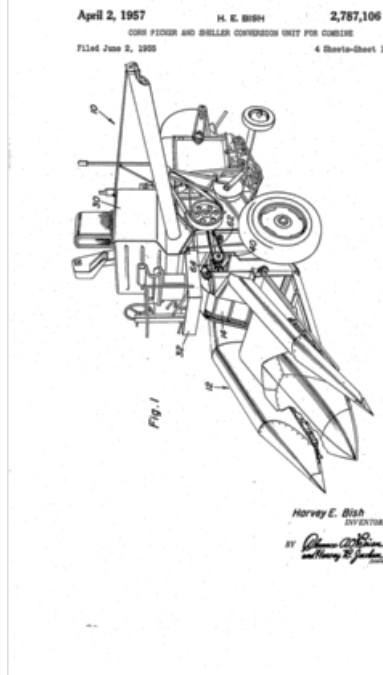
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Title: CORN PICKER AND SHELTER CONVERSION UNIT FOR COMBINE**Priority:** US19550512846 19550602

Publication number	Publication date	Application number	Application date
US2787106 A	19570402	US19550512846	19550602

Probable Assignee: BISH HARVEY E**Assignee(s):(std):** BISH HARVEY E**Inventor(s):(std):** BISH HARVEY E**International class** A01D45/02 (Advanced/Invention);
(IPC 8-9): A01D45/00 (Core/Invention)**International class** A01D45/02
(IPC 1-7):**CPC:** A01D45/021**European class:** A01D45/02C**US class:** 56/14.1 56/16.5 56/2[Classification Explorer](#)**Cited documents:** US2360131 A,**Forward Citations:** US3527233, US2912812, FR2228415,**Abstract:**

(Claim 1) 1. A conversion unit for operatively and structurally combining a conventional corn snapper and picker unit with a conventional harvester combine of the type including a threshing chamber having threshing- and grain separating mechanisms therein, mounting brackets for receiving the trunnions of a harvester cutterbar assembly and an opening into said chamber, said conversion unit comprising: a chute including end walls and an inclined front wall extending from the open top about the edges of the end walls and to an open back, trunnions on said chute for reception in the mounting brackets of the combine for supporting the chute with its open back registering with the chamber opening of the combine, brackets on said chute for supporting the upper portion of said conventional corn snapper and picker unit whereby to receive in its open top ears of corn gathered by said snapper and picker unit.

**15) Family number: 22945458** (US3339556A)

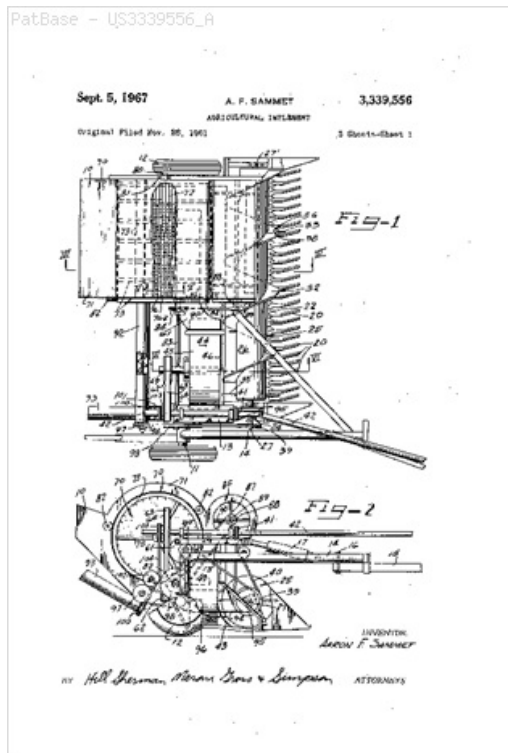
© PatBase

Title: Agricultural implement**Priority:** US19610155370 19611128 US19640412006 19641118

Family:	Publication number	Publication date	Application number	Application date
	US3188786 A	19650615	US19610155370	19611128
	US3339556 A	19670905	US19640412006	19641118

Probable Assignee: SAMMET AARON F**Assignee(s):(std):** SAMMET AARON F**Inventor(s):(std):** SAMMET AARON F**International class (IPC 8-9):** A01D41/00 A01D43/08 A01D45/02 (Advanced/Invention); A01D41/00 A01D43/00 A01D45/00 (Core/Invention)**International class (IPC 1-7):** A01D41/00 A01D43/08 H04N5/82**CPC:** A01D43/08 A01D45/02 A01D41/00**European class:** A01D41/00 A01D43/08 A01D45/02**US class:** 460/65 460/81 56/12.9 56/13.9[Classification Explorer](#)**Cited documents:** USRE17120 E, US945160 A, US491264 A, US3023560 A, US2938557 A, US2915182 A, US2848029 A, US2822812 A, US2770937 A, US2760326 A, US2670582 A, US2651471 A, US2644284 A, US2503416 A, US2308578 A, US1907344 A, US1645856 A,**Forward Citations:** US5191754, US4920737,**Abstract:**

(Claim 1) 1. An a.-ricultural implement including housing having an inlet and an outlet at one side, rotary structure disposed in said housing at one side of said outlet including a drive shaft having a first set of hammers mounted c ircumferentially thereon, threshing bars carried at the perimeter of said structure with said hammers being adapted to cast material thereagainst, and a second set of hammers mounted on said rotary structure and extending radially olitwardly of said threshing bars in close proximity to said housing for beating up material and castin.- it through said outlet.

**16) Family number: 980497** (US3623298A)

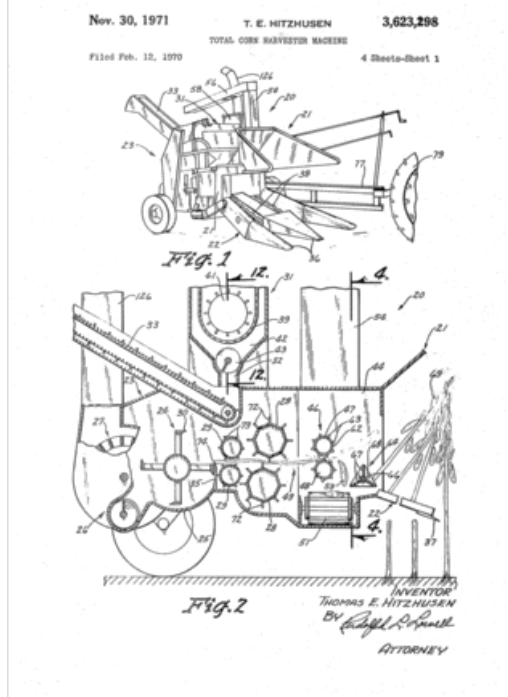
© PatBase

Title: TOTAL CORN HARVESTER MACHINE**Priority:** US19700010939 19700212

Family:	Publication number	Publication date	Application number	Application date
	US3623298 A	19711130	US19700010939	19700212

Probable Assignee: UNIV IOWA STATE RES FOUND**Assignee(s):(std):** UNIV IOWA RES FOUND ; UNIV IOWA STATE RES FOUND**Assignee(s):** IOWA STATE UNIV RESEARCH FOUNDATION ; IOWA STATE UNIVERSITY RESEARCH FOUNDATION**Inventor(s):(std):** HITZHUSEN THOMAS E**Inventor(s):** THOMAS E HITZHUSEN**International class** A01D45/02 (Advanced/Invention);
(IPC 8-9): A01D45/00 (Core/Invention)**International class** A01D45/02
(IPC 1-7):**CPC:** A01D45/02**European class:** A01D45/02**US class:** 56/13.9 56/16.5 56/2 56/252 56/60 56/78[Classification Explorer](#)**Forward Citations:** US8251788, US7524242, US6430907, US6430907, US6125617, US5875622, US4653411, US4539799, US4509273, US4214422, US3796029, US2008261668, EP0169945, DE19959338, DE19715552,**Abstract:**

(Claim 1) 1. A total harvester machine for a corn plant, including: (a) a forwardly located row crop unit, (b) a rearwardly located chopped material conveyor and discharge system, (c) a material chopper unit positioned forwardly of said conveyor and discharge system, (d) a snapping unit arranged between said row crop unit and material chopper unit including transversely extended upper and lower snapping rolls, (e) means adjustably supporting said upper roll for up and down movement relative to the lower roll to a first ear snapping position and to a second position wherein said snapping rolls are without any snapping action on a corn plant moving therebetween, (f) conveying means for receiving snapped ears from said snapping unit having a discharge portion to a wagon elevator, (g) means for directing and moving cut corn plants from said row crop unit for travel butt first between said snapping rolls, (h) a corn plant, when said snapping rolls are in the first position therefor, having the ears picked therefrom by said snapping unit for discharge to the wagon elevator by said conveying means, and the residual stover chopped by said chopping unit and delivered to said conveyor and discharge system, and when the snapping rolls are in said second position therefor, said corn plant being moved through said snapping unit and into said chopper unit for delivery to said conveyor and discharge system.

**17) Family number: 3525519** (FR2301901A)

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Title: SCRAP ELECTRICAL CABLE MATERIALS RECOVERY SYSTEM - HANDLES ALL SIZES AND TYPES OF CABLE WITHOUT PRODUCTION OF POLLUTANTS

Priority: FR19750006227 19750224

Family:	Publication number	Publication date	Application number	Application date
	FR2301901 A1	19760917	FR19750006227	19750224
	FR2301901 B1	19770923	FR19750006227	19750224

Probable Assignee: CORNU PIERRE

Assignee(s):(std): CORNU PIERRE

International class H01B15/00 (Advanced/Invention);
(IPC 8-9): H01B15/00 (Core/Invention)

International class H01B15/00
(IPC 1-7):

CPC: H01B15/00 Y02W30/82

European class: H01B15/00

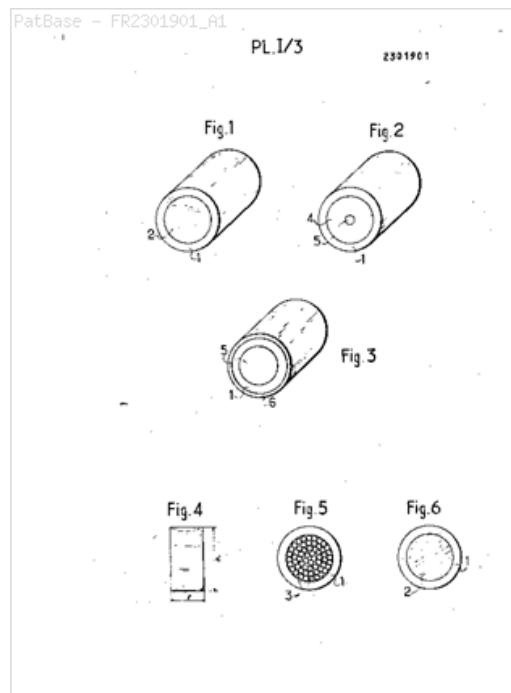
[Classification Explorer](#)

Cited documents: US2879005 A, US1656755 A,

Forward Citations: US5169073, EP0349931, EP0349931,

Abstract:

The cable material recovery machine is designed to increase the yield from scrap electrical cables of all sizes and types. This is intended to include single wire and multiple wire and single and multilayer insulation types. Recovery of the plastics and metal armoring is included with that of the inner copper conductors. The system is non-pollutant generating. Scrap cable undergoes a series of operations including, cutting to size using rotary shears, stripping using high speed rough surfaced drum rollers, and separation using a magnet and density sensitive unit. This is followed by packing of the individual component elements. The design includes automatic feed through the various stages minimizing manual intervention and relies on roller, belt and gravity feed systems.



18) Family number: 22763612 (US3020696A)

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Title:

Priority:

Family:

Probable Assignee:

Assignee(s):(std):

Inventor(s):(std):

International class
(IPC 8-9):

International class
(IPC 1-7):

CPC:

European class:

US class:

[Classification Explorer](#)

Cited documents:

Forward Citations:

COMBINE ATTACHMENT FOR RETRIEVING DOWN EARS OF CORN

US19590839437 19590911

Publication number	Publication date	Application number	Application date
 US3020696 A	19620213	US19590839437	19590911

THUROW HAROLD H

THUROW HAROLD H ; THUROW HERBERT J

THUROW HERBERT J ; THUROW HAROLD H

A01D45/02 (Advanced/Invention);
A01D45/00 (Core/Invention)

A01D45/02

A01D45/021 A01D51/00

A01D45/02C

56/130 56/364 D15/26

US2841943 A, US2796722 A, US2661585 A, US2527887 A, US2362402 A, US1116885 A, US8806844, US8156723, US3468112, US10625303, FR2578144, EP0196937,

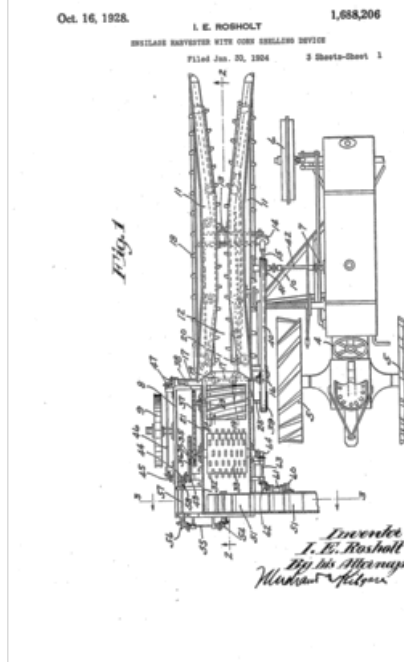
Abstract:

(Claim 1) 1. In combination, in a down ear corn retriever unit attachment for combines having a cutter bar and a power take-off shaft and drive pulley wheel, a frame including arms adapted to be secured to the front of the combine ahead of the cutter bar and adapted for carrying the unit thereby, identical semi-circular aligned end housing members connected to and carried by said arms, means for connecting the end members to the arms, a rotatable shaft extending between said end members and rotatably carried thereby and having a driven pulley wheel secured rigidly thereon, identical journal means on each end member for so rotatably carrying said shaft thereby, said shaft being so carried by each end member at identical points thereon and which are eccentric to the diametrical center point of the semi-circular end members, means for securing the driven wheel to the shaft, a plurality of spaced apart identical retriever wheels each rigidly secured transversely of and to said shaft, identical hub means for securing each wheel to the shaft, each wheel having adjustably extending retriever finger rods secured to the peripheral edge thereof and with each finger extending from the peripheral edge in a plane at a right angle to a radius of the wheel to which secured, identical means on a wheel periphery for so adjustably securing each finger rod thereto, identical stripper finger Sanges with one thereof secured to the frame between each pair of wheels and extending in the same semi-circular shape as and in the plane of the aligned end members and each thereof in close proximity to the sides of an adjacent pair of wheels and to permit each of said wheels to rotate freely without contact therewith, identical means for securing each stripper flange to the frame in such position, and a pulley belt means extending over and between the drive pulley wheel and the driven pulley wheel of the rotatable shaft.

Family:	Publication number	Publication date	Application number	Application date
	US1688206 A	19281016	US19240689576	19240130

Abstract:

PatBase PDF Export - Page: 18 02/09/2020

**20) Family number: 63718726** (US2018067003A)

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Title: CONDUCTION-PATH-EQUIPPED MEMBER, METHOD FOR PATTERNING CONDUCTION PATH, AND METHOD FOR MEASURING CHANGES IN MEMBER

Priority: JP20150072342 20150331 JP20150211656 20151028 WO2016JP60681 20160331

Family:	Publication number	Publication date	Application number	Application date
	■ CN107532953 A	20180102	CN201680019943	20160331
	■ EP3279628 A1	20180207	EP20160773125	20160331
	■ EP3279628 A4	20181205	EP20160773125	20160331
	■ JP2016159245 A1	20180201	JP20170510194T	20160331
	■ KR20170132757 A	20171204	KR20177027261	20160331
	■ US2018067003 AA	20180308	US20160563309	20160331
	■ WO16159245 A1	20161006	WO2016JP60681	20160331

Probable Assignee: NEJILAW INC

Assignee(s):(std): NEJILAW INC

Inventor(s):(std): MICHIWAKI HIROSHI

Agent(s): PULIERI GIANLUCA ANTONIO; SAHARA MASASHI ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): G01L1/22 G01L5/00 G01L5/24 G01M5/00 (Advanced/Invention)

CPC: G01L1/2287 G01L1/225 F16B2031/022 G01L1/22 G01L5/0004 G01L5/243 G01M5/0083

US class: 1/1 73/862.627

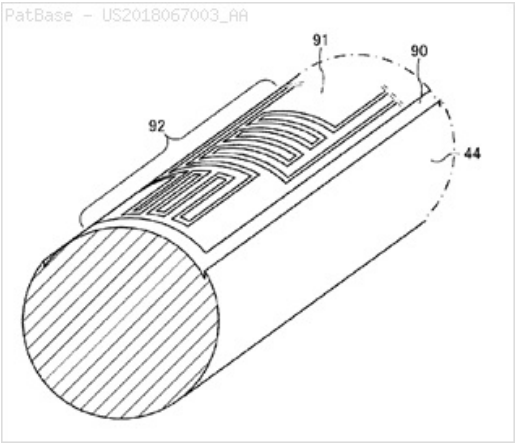
[Classification Explorer](#)

Cited documents: US9969451 BB, US9965076 BB, US9962905 BB, US9791332 BB, US9605993 BB, US9562802 BB, US9548643 BB, US9518849 BB, US9492901 BB, US9195058 BB, US9151697 BB, US8813579 BB, US8705245 BB, US8650966 BB, US8438931 BB, US8024980 BB, US7984544 BB, US7934430 BB, US7766547 BB, US7709766 BB, US7707894 BB, US7412898 BA, US7342185 BB, US6250863 BA, US6037703 A, US5900135 A, US5535631 A, US5079535 A, US5044204 A, US5024106 A, US4932253 A, US4793189 A, US4788868 A, US4579007 A, US4553124 A, US4419652 A, US4411162 A, US3826130 A, US3641812 A, US3293585 A, US2015330846 AA, US2014017035 AA, US2006018361 AA, US2002073783 AA, JP6323929 A2, JP6323929 A2, JP5093659 A2, JP5093659 A2, JP2014202607 A2, JP2014202607 A2, JP2012145447 A2, JP2012145447 A2, JP2012057992 A2, JP2012057992 A2, JP2010117310 A2, JP2010117310 A2, JP2008122243 A2, JP2008122243 A2, JP2008082839 A2, JP2008082839 A2, JP2002236065 A2, JP2002236065 A2, JP10249768 A2, JP10249768, JP10077878, EP1906161 A1, EP1843138 A1, CN101071082 A,

Forward Citations: WO20003710, WO19066141, US2018118522, US10763276, US10721826, US10507851, US10423831, US10401239, US10325362, JP6719506, JP2020005057, JP2019536014, CN110519965,

Abstract:

The present invention directly forms, on part of a member to be measured, a conduction path for measuring changes in said member. The present invention thus detects changes such as stress and displacement acting on a conduction-path-equipped member **30** intended for use in a structural member or the like. Consequently, circumstances generating stress in the member can be objectively monitored.



21) Family number: 22498740 (US2498093A)

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Title: CORN HARVESTER
Priority: US19440530900 19440413
Family:

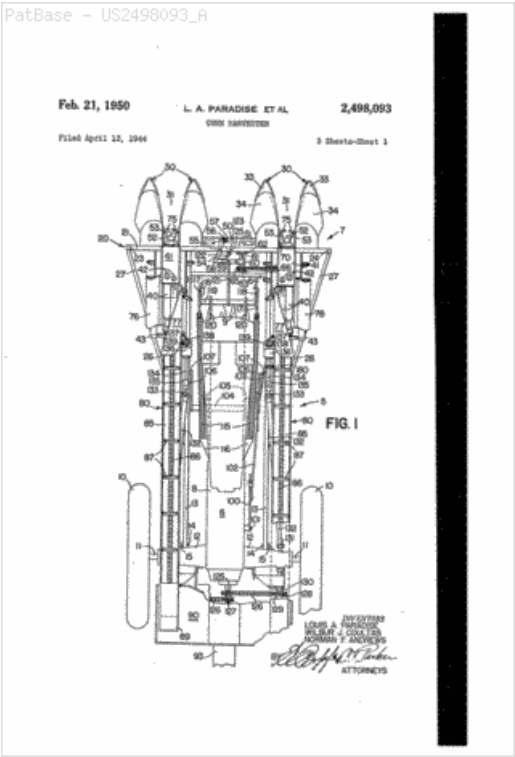
Publication number	Publication date	Application number	Application date
US2498093 A	19500221	US19440530900	19440413

Probable Assignee: DEERE AND CO
Assignee(s):(std): DEERE AND CO
Assignee(s): DEERE AND COMPANY
Inventor(s):(std): ANDREWS NORMAN F ; COULTAS WILBUR J ; PARADISE LOUIS A
International class (IPC 8-9): A01D45/02 (Advanced/Invention);
A01D45/00 (Core/Invention)
International class (IPC 1-7): A01D45/02
CPC: A01D45/02
European class: A01D45/02
US class: 56/119 56/14.2 56/66

[Classification Explorer](#)

Cited documents: US966029 A, US872285 A, US521679 A, US2346963 A, US1943284 A,
Forward Citations: US3264808, US2949717,

Abstract:
1. A corn harvester comprising in combination, a mobile frame, a pair of cooperative snapping rolls journaled on said frame and inclined downwardly and rearwardly to first engage the tops of the stalks, cutting means mounted on the lower portion of said frame ahead of said snapping rolls, and an ear conveyor inclined upwardly and rearwardly from beneath said snapping rolls, said conveyor extending forwardly of the lower ends of the associated rolls to a point substantially beneath the upper ends of the latter.



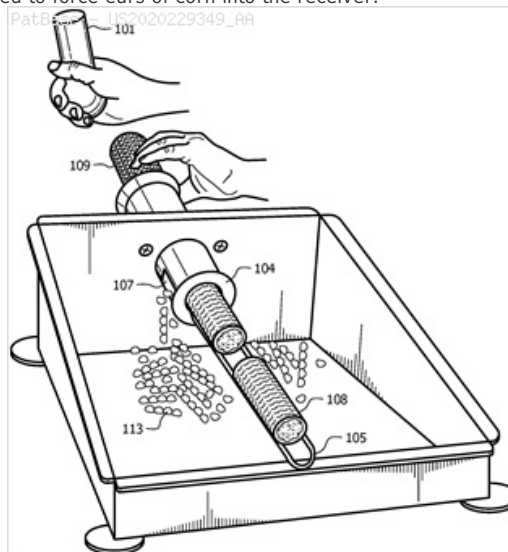
22) Family number: 80054785 (US2020229349A)

© PatBase

Title:	CORN SHELLER			
Priority:	US20190793993P 20190118		US20190555678 20190829	
Family:	Publication number	Publication date	Application number	Application date
	US2020229349 AA	20200723	US20190555678	20190829
Probable Assignee:	GROTEGUT DAVID			
Assignee(s):(std):	GROTEGUT DAVID			
Inventor(s):(std):	GROTEGUT DAVID			
International class (IPC 8-9):	A01F11/06 A01F12/44 B02B3/08 (Advanced/Invention)			
CPC:	A01F11/06 A01F12/44 B02B3/08			

[Classification Explorer](#)**Abstract:**

A system and method for a sheller. The sheller has a receiver coupled to a pan. The receiver is hollow and coupled to a cap. A conveyor extends from a downstream end of the receiver. Spent cobs exit the receiver via the conveyor. The system further includes a plunger sized to be received by the receiver. The plunger is used to force ears of corn into the receiver.

**23) Family number: 22479795** (US3112752A)

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Title:	CORN HARVESTER HAVING REPLACEABLE TREATING UNITS			
Priority:	US19610127780 19610626			
Family:	Publication number	Publication date	Application number	Application date
	US3112752 A	19631203	US19610127780	19610626
Probable Assignee:	DEERE AND CO			
Assignee(s):(std):	DEERE AND CO			
Assignee(s):	DEERE AND COMPANY			
Inventor(s):(std):	JONES FRANK D ; MORRISON CHARLES S ; WILKINS JAMES D			
International class (IPC 8-9):	A01D45/02 A01F11/06 (Advanced/Invention); A01D45/00 A01F11/00 (Core/Invention)			
International class (IPC 1-7):	A01D45/02			
CPC:	A01D45/02 A01F11/06			
European class:	A01D45/02 A01F11/06			
US class:	460/26 460/39 460/44			

[Classification Explorer](#)

Cited documents: US2862536 A, US2670845 A, US2651158 A, US2337592 A,
Forward Citations: US8066208, US8002616, US2011220748, US2010291980, US2010018177,

Abstract:

(Claim 1) 1. A crop treating unit comprising: a main mobile frame; a fore-and-aft extending elongated housing structure supported on the frame having relatively low forward crop intake inlet opening forwardly and a rear crop discharge outlet opening rearwardly, said housing structure further having a pair of oppositely disposed upright side walls; laterally disposed inclined panel structure supported in the housing structure between the side walls and extending from a relatively low end adjacent the crop inlet upwardly and rearwardly to a rear end midway between the inlet and outlet of the housing structure, the inclined panel structure defining a pair of fore-and-aft extending auger troughs; a pair of parallel fore-and-aft augers within the auger troughs adapted to move crops upwardly and rearwardly to the rear end of the panel structure; a plurality of vertically spaced track means supported on opposite side walls rearwardly of the panel structure terminating adjacent the discharge outlet; a crop treating device having guide means en-gageable with upper track means to permit insertion and withdrawal of said device from the housing structure, said device being disposed immediately adjacent the uppermost end of the inclined panel structure when fully inserted to receive crops from the forward augers, the others of said vertically spaced track means being adapted to removably receive other crop treating devices.

Dec. 3, 1963 C. S. MORRISON ET AL. 3,112,752
 CORN HARVESTER HAVING REPLACABLE TREATING UNITS
 Filed June 28, 1961 5 Sheets-Sheet 1

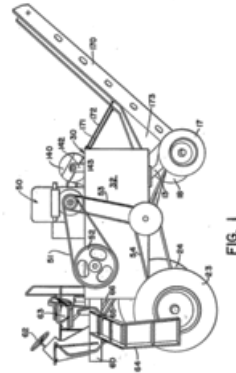


FIG. 1

INVENTOR
 C. S. MORRISON, JR. & J. S. WILKINS
 BY *William A. Murray*
 ATTORNEY

24) Family number: 22330852 (US2716776A)

© PatBase

Title: SHRIMP PROCESSING APPARATUS

Priority: US19520265976 19520111

Family:	Publication number	Publication date	Application number	Application date
	US2716776 A	19550906	US19520265976	19520111

Probable Assignee: TAIT CLARK STREICH MACHINERY C

Assignee(s):(std): TAIT CLARK STREICH MACHINERY C

Assignee(s): TAIT CLARK STREICH MACHINERY CORP

Inventor(s):(std): CLARK VIRGIL R ; STREICH PHILIP A ; TAIT EMMITTE P

International class (IPC 8-9): A22C 29/02 (Advanced/Invention);
 A22C 29/00 (Core/Invention)

International class (IPC 1-7): A22C 29/02

CPC: A22C 29/022 A22C 29/026

US class: 452/3 452/5

[Classification Explorer](#)

Cited documents: US2644980 A, US2637064 A, US2625705 A, US2600627 A, US2594205 A, US2555232 A, US241357 A, US2397547 A, US2301729 A, US2299774 A, US2263697 A, US2263694 A, US2034691 A,

Forward Citations: US3871086, US3691591, US3600744, US3430288, US3423788, US3345682, US3324504, US3310832, US3277517, US3253299, US3247542, US3238561, US3221362, US3220050, US3214789, US3164859, US3159871, US3156946, US3122777, US2974356, US2960719, US2884657, US2850761,

Abstract:

(Claim 1) 1. Apparatus for removing a part of a shrimp body from a shrimp, comprising conveyor means for said shrimp, remover means above said conveyor means disposed adjacent to the path of conveyance of said shrimp, means for activating said remover means, said remover means being effective when activated to remove said part from said shrimp, control means for inactivating said remover means, and synchronizing means operatively connected to both said conveyor means and said control means, said synchronizing means causing said control means to actuate said remover means in predetermined timed relation to the movement of said shrimp on said conveyor means.

