

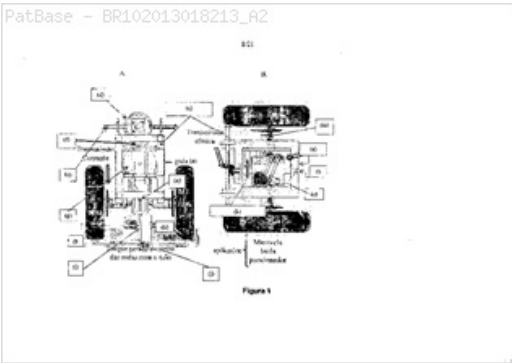
1) Family number: 65974551 (BR102013018213B)

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Title: EQUIPAMENTO COM PRINCIPIO DE PUNCAO PARA APLICACAO LOCALIZADA DE ADUBO LIQUIDO EM PROFUNDIDADE

Abstract: Source: BR102013018213A [PT] RESUMO EQUIPAMENTO COM PRINCIPIO DE FUNCIONAMENTO PARA APLICACAO LOCALIZADA DE ADUBO LIQUIDO EM PROFUNDIDADE A presente invencao se refere a um equipamento com principio de puncao para injecao de adubo em profundidade para minimizar a perda das bases nitrogenadas por evaporacao ou pela acao da chuva. O dispositivo e acionado pelo movimento do trator, em que o giro da roda desse implemento aciona todo o dispositivo que consiste em perfurar a terra e lancar o adubo no solo, mesmo com o trator em movimento constante. Para a realizacao da operacao de perfuracao do solo para a aplicacao de adubo liquido, utilizou-se mecanismo biela-manivela e para o deslocamento longitudinal alternativo do sistema, utilizou-se um sistema de carne de tambor rotativo e carro-guia. **Machine translation:** Abstract equipment with operating principle for localized application of liquid fertilizer in depth this Syed Ibraheem refers to an equipment with the principle of Puncao to need shot de compost in depth to minimize the loss of the bases nitrogenous by evaporation or the action of the rain. The device and triggered by the movement of the tractor, in which the rotating of the wheel of this implement triggers any device consisting of drilling the ground and launching the fertilizer in the soil, even with the tractor in constant motion. For the realization of the operation of the ground drilling for the application of liquid fertilizer, the connecting rod-crank mechanism and the alternate longitudinal shift of the system used a rotary drum and guide car system.

Classifications:
International (IPC 8-9): A01C23/02 (Advanced/Invention)
International (IPC 1-7): A01C23/02
CPC: A01C23/023



Family:

Publication number	Publication date	Application number	Application date
BR102013018213 A2	20170502	BR20131018213	20130716
BR102013018213 B1	20191126	BR20131018213	20130716

Priority:
BR20131018213 20130716
Probable Assignee: UNIV ESTADUAL DE CAMPINAS UNICAMP
Assignee(s): (std): UNIV ESTADUAL DE CAMPINAS UNICAMP
Assignee(s): UNIVERSIDADE ESTADUAL DE CAMPINAS UNICAMP
Inventor(s): (std): PAULO GRAZIANO ; MARCELO JOSE DA SILVA

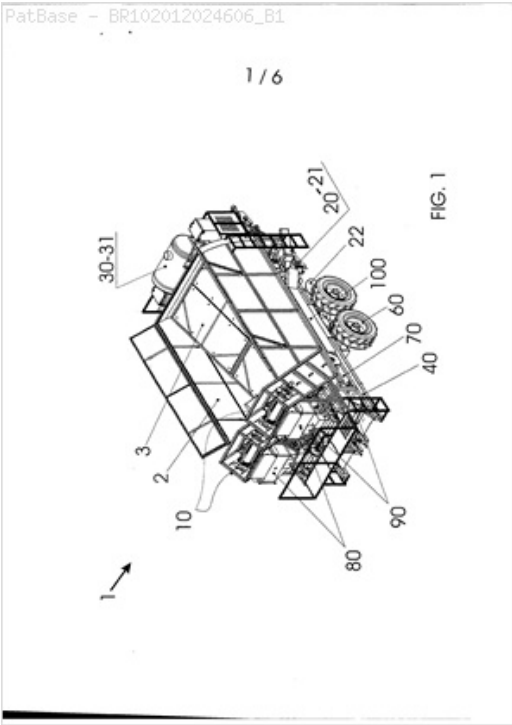
2) Family number: 56826300 (BR102012024606B)

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Title: PLANTADORA AUTOMATICA DE CANA-DE-ACUCAR Automatic SUGAR CANE PLANTER (Machine translation)

Abstract: Source: BR102012024606B [PT] plantadora automatica de cana-de-acucar o presente resumo refere-se a uma patente de invencao para plantadora de cana-de-acucar, pertencentes ao campo dos implementos agricolas, particularmente para plantacao de cana-de-acucar, formada por subconjuntos usuais de uma plantadora de cana-de-acucar automatica associados a conjunto intercalado entre a saida do subconjunto direcionador elevador (10) e a entrada da bica lancadora (11), formado: por subconjunto dosador (80) que recebe um fluxo de mudas de cana-de-acucar (200) do subconjunto direcionador elevador (10); subconjunto de bica direcionadora de secao em "v" (90) que recebe o fluxo de mudas de cana-de-acucar dosado (200) do subconjunto dosador (80); e por subconjunto de esteira transportadora-alinhadora das mudas de secao em "v" (100), que recebe um fluxo de mudas de cana-de-acucar dosado (200) do subconjunto bica direcionadora de secao em "v" (90) e que preve rotores alinhadores intermediarios (110), que alinham as mudas formando fluxo de mudas de cana-de-acucar dosado e alinhado (200); dito subconjunto de esteira transportadora-alinhadora das mudas de secao em "v" (100) tem saida (102) que abre na bica lancadora (11) onde despeja o fluxo de mudas de cana-de-acucar dosado e alinhado (200), a qual lanca referido fluxo no sulco de plantio (300) aberto no solo pelo subconjunto sulcador (20). **Machine translation:** Planter sugarcane automatic summary the present invention relates to relates to a sugarcane planter, belonging to the field of agricultural implements, particularly for planting of sugarcane, formed by usual are subset a planter automatic sugarcane associated with interleaved set between the output of elevator subassembly (10) and the spout input director launcher (11), formed: per subset doser (80) that receives a flow of seedlings sugarcane harvester (200) of the elevator subassembly (10) Director; spout subassembly marking "v" section (90) that receives the stream of the sugar cane seedlings dosed (200) of the subset doser (80); and conveyor belt-alinhadora subassembly of seedlings of "v" section (100) which receives a flow of seedlings of Sugarcane harvester dosed (200) spout subassembly (90) Marking of "v" section that predicts rotors 110 and intermediate liners), that align seedlings forming flow of sugarcane seedlings metered and aligned with (200); said conveyor belt-alinhadora subassembly of seedlings of "v" section (100) has output (102) that opens into bica (11) where dump the launcher sugarcane seedlings metered and aligned with (200), which launches said open flow (300) planting furrow in the soil by opener subassembly (20).

Classifications:
International (IPC 8-9): A01C5/06 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
BR102012024606 A2	20140624	BR20121024606	20120927
BR102012024606 B1	20180814	BR20121024606	20120927

Priority:

BR20121024606 20120927

Probable Assignee: SANTA IZABEL IMPLEMENTOS AGRICOLAS LTDA

Assignee(s): (std): SANTA IZABEL AGRO IND LTDA ; SANTA IZABEL IMPLEMENTOS AGRICOLAS LTDA ; SOUFER IND LTDA

Assignee(s): SOUFER INDUSTRIAL LTDA ; SANTA IZABEL AGRO INDUSTRIA LTDA

Inventor(s): (std): MARTINI ALEXANDRE HERNANDES ; ALEXANDRE HERNANDES MARTINI

3) Family number: 55718554 (US2015230394A) © PatBase

Title: FEED MECHANISM TO ALLOW POSITIVE FEEDING OF ENERGY CANES INTO A CHOPPER MECHANISM

Abstract: A feed mechanism (22) for feeding plants (24) into a chopper, including a loading mechanism (26) that uses gravity to feed plants into a chopper feed mechanism, and a chopper feed mechanism including a drive wheel (36) and a belt (38) for feeding plants to a chopper (48). A mechanical planter may include the feed mechanism. The feed mechanism may also be used in a method of planting energy cane.

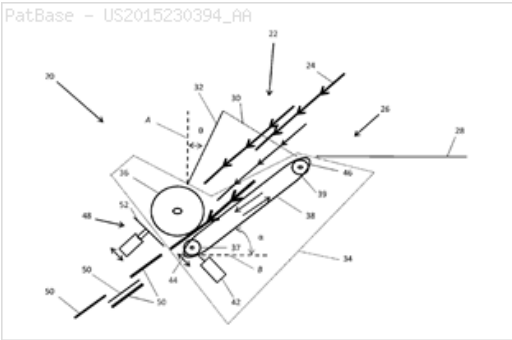
Classifications:

International (IPC 8-9): A01C1/00 A01C14/00 A01C5/06 A01C7/00

A01D45/10 A01F29/02 A01F29/10 (Advanced/Invention)

CPC: A01C11/00 A01C1/00 A01C5/062 A01C7/00 A01C14/00 A01F29/10

US: 111/109 111/112 198/562



Family:

Publication number	Publication date	Application number	Application date
BR112015002224 A2	20170704	BR20151102224	20130801
EP2879484 A1	20150610	EP20130750772	20130801
US2015230394 AA	20150820	US20130419213	20130801
WO14022642 A1	20140206	WO2013US53180	20130801

Priority:

US20120678997P 20120802

US20130784855P 20130314

US20130419213 20130801

Probable Assignee: BP PLC**Assignee(s):** (std): BP CORP NORTH AMERICA INC ; LARSEN JOHN FINLEY**Assignee(s):** BP NORTH AMERICA INC CORP ; BP PLC**Inventor(s):** (std): LARSEN JOHN FINLEY ; JOHN FINLEY LARSEN**Agent(s):** LOUSTALAN PAUL WILLIAM; DESAI REENA R 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 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 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

4) Family number: 41133293 (BRPI0602616A)

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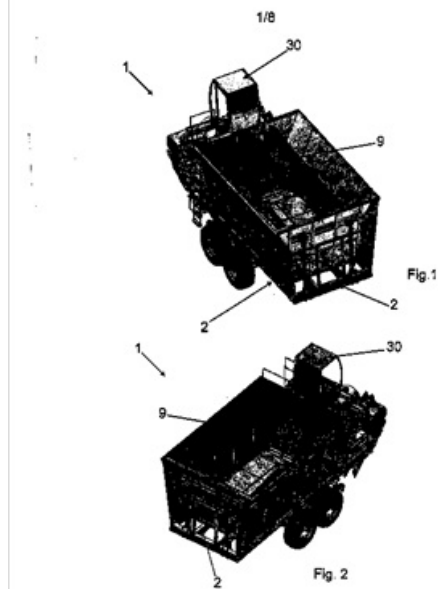
Title: EQUIPAMENTO AGRICOLA PARA PLANTACAO DE TOLETES DE CANA-DE-ACUCAR E SISTEMA DE ACIONAMENTO E CONTROLE DE ELEMENTOS TRANSPORTADORES E OUTROS EM EQUIPAMENTOS AGRICOLAS Agricultural EQUIPMENT FOR PLANTING OF SUGARCANE BILLETS AND DRIVE AND CONTROL SYSTEM OF CONVEYOR ELEMENTS AND OTHER AGRICULTURAL EQUIPMENT (Machine translation)

Abstract: Source: BRPI0602616A [PT] EQUIPAMENTO AGRICOLA PARA PLANTACAO DE TOLETES DE CANA-DE-ACUCAR E SISTEMA DE ACIONAMENTO E CONTROLE DE ELEMENTOS TRANSPORTADORES E OUTROS EM EQUIPAMENTOS AGRICOLAS. A presente invencao refere-se a um equipamento agricola (1) para plantacao de tolete de cana-de-acucar em linhas de plantio, o equipamento agricola (1) compreendendo: uma estrutura principal (2) a qual e acoplada a um elemento de tracao; sulcadores (4) e elementos de cobertura de linha de plantio (5) dispostos em linha sob a estrutura principal (2) em uma extremidade estrutural (10) proxima ao elemento de tracao; elementos transportadores (9) dispostos sobre a extremidade estrutural (10) da estrutura principal (2) em continuidade a cacamba (8) e alinhados aos pares de sulcadores (4) e elementos de cobertura de linha de plantio (5); motores (12) de acionamentos independentes, sendo um motor (12) associado a cada elemento transportador (9) de maneira que velocidades de transportes distintas podem ser atribuidas a cada elemento transportador (9); porcao inferior (7) e uma porcao traseira (84) da cacamba (8) icaveis conjuntamente; e um sistema de acionamento e controle (200) capaz de controlar os acionamentos de cada motor (12), as velocidades de transportes aplicadas a cada elemento transportador (9) e icamentos conjuntos da porcao inferior (7) e da porcao traseira (84) da cacamba (8). A invencao refere-se, ainda, a um sistema de acionamento e controle (200) de elementos transportadores (9) e outros em equipamentos agricolas (1) dotados de motores (12) associados aos elementos transportadores (9) e pelo menos uma cabine de comando (30) disposta remotamente em relacao aos motores (12) e elementos transportadores (9), o sistema acionando os motores (12) independentemente atraves de meios de regulagem de fluxo (50) controlados remotamente por meio de comandos eletronicos principais (51); compreendendo o controle remoto dos meios de regulagem de fluxo (50) disposto na cabine de comando (30); e compreendendo o acionamento independente e remoto dos motores (12) permitindo variacoes independentes de funcionamento aos elementos transportadores (9).

Machine translation: AGRICULTURAL EQUIPMENT for growing cuttings OF SUGAR CANE AND DRIVE AND CONTROL SYSTEM OF CARRIERS AND OTHER ELEMENTS IN AGRICULTURAL EQUIPMENT. The present invention relates to an agricultural equipment (1) to plant oarlock of sugar cane planting in rows, the agricultural equipment (1) comprising: a main body (2) which is coupled to an element traction; furrow openers (4) and elements of covering the seed row (5) arranged in a line under the main structure (2) structure at one end (10) next to the driving elements, elements transporters (9) arranged on the edge structural (10) of the main structure (2) continuity in the bucket (8) and the aligned pairs of furrow openers (4) and elements of covering the seed row (5), motors (12) of independent drives, and a motor (12) associated with each carrier element (9) so that differential transport velocities can be assigned to each carrier element (9), lower portion (7) and a rear portion (84) Bucket (8) jointly hoisted, and a system drive and control (200) capable of controlling the drives of each motor (12), transport speeds applied to each carrier element (9) and lifting sets the lower portion (7) and the rear portion (84) Bucket (8). The invention relates also to a drive and control system (200) element carriers (9) and other agricultural equipment (1) fitted with engines (12) associated with the transport element (9) and at least one cabin command (30) disposed remotely from the engine (12) and transport element (9), the motors driving the system (12) independently by means of flow regulation (50) controlled remotely through electronic key commands (51), including remote control of the means of flow regulation (50) provided in the cockpit (30), and including the independent and remote drive motor (12) allowing independent variations of the elements operating carriers (9).

Classifications:

International (IPC 8-9): A01C 11/00 (Advanced/Invention);
A01C 11/00 (Core/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
BRPI0602616 A	20080115	BR2006PI02616	20060515
BRPI0602616 B1	20140819	BR2006PI02616	20060515
BRPI0602616 C1	20080401	BR2006PI02616	20060515

Priority:

BR2006PI02616 20060515

Probable Assignee: CIVEMASA IMPLEMENTOS AGRICOLAS**Assignee(s):** (std): CIVEMASA IMPLEMENTOS AGRICOLAS ; CIVEMASA IMPLEMENTOS AGRICOLAS LTDA**Inventor(s):** (std): MARCHESAN JOAO CARLOS**Inventor(s):** JOAO CARLOS MARCHESAN**5) Family number: 32363354 (FR2868904B)**

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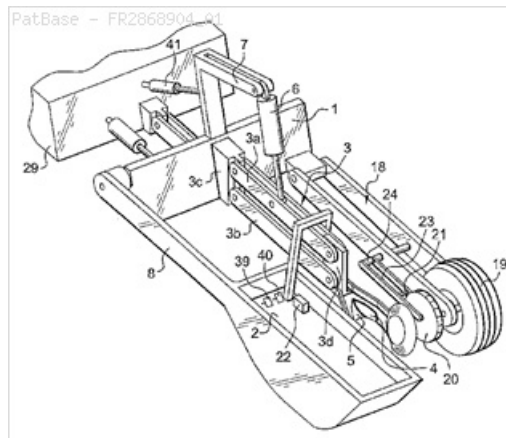
Title: DISPOSITIF DE PLANTATION

Abstract: The device has an arm (3) in the form of parallelogram and connected to a frame (1) and carrying teeth (4, 5) forming a trench in the ground. An operating device has a cross arm (7) connected to the frame and a hydraulic jack (6) connected to an upper side of the arm to control an inclination of the arm for pushing the teeth in the ground and raising the teeth. A cabin (2) is positioned such that a planting operator is near the teeth.

Classifications:**International (IPC 8-9):** A01C11/00 A01C11/02 A01C5/06

A01C5/08 (Advanced/Invention);

A01C11/00 A01C11/02 A01C5/00 (Core/Invention)

International (IPC 1-7): A01C11/00 A01C5/06 A01C5/08**CPC:** A01C5/08 A01C11/006 A01C11/02**European:** A01C11/00C A01C11/02 A01C5/08**Family:**

Publication number	Publication date	Application number	Application date
FR2868904 A1	20051021	FR20040003918	20040414
FR2868904 B1	20070817	FR20040003918	20040414

Priority:

Probable Assignee: DUPORT JEAN LOUIS
Assignee(s): (std): DUPORT JEAN LOUIS
Inventor(s): (std): DUPORT JEAN LOUIS

6) Family number: 1283480 (US4266490A)

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Title: SUGAR CANE PLANTER

Abstract: A sugar cane planter has a series of cane carrier elements which are moved through a supply of randomly oriented cane billets to select billets and deliver them to a soil furrow. The cane carrier elements move in a circular path and are maintained horizontal throughout said movement by attitude control means thereby providing sufficient time for reliable pick-up, doffing of excess billets, and billet alignment. A supply of billets to the selection mechanism is maintained from a trailed cane bin having a cane elevator. Fungicide is sprayed on the billets carried by the elevator.

Classifications:

International (IPC 8-9): A01C11/00 A01C11/02

A01C7/00 (Advanced/Invention);

A01C11/02 (Advanced/Non-invention);

A01C11/00 A01C11/02 A01C7/00 (Core/Invention)

International (IPC 1-7): A01C11/00 A01C11/02 A01C19/00 A01C5/06

A01C7/00 A01C7/18 A01C7/20

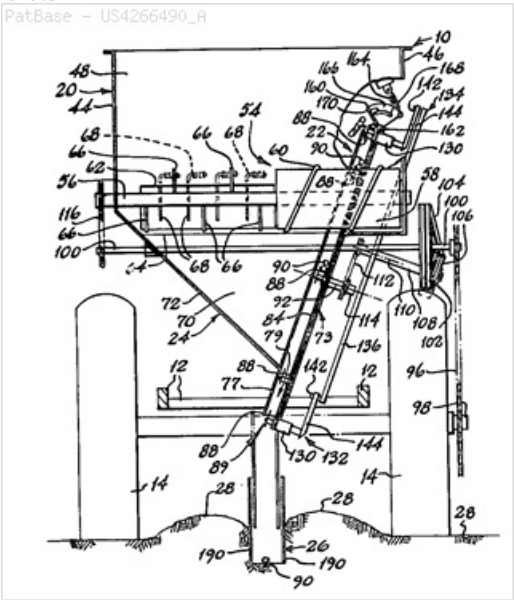
CPC: Y10S111/905 Y10S111/907 A01C11/00

European: A01C11/00

US: 111/104 111/170 111/3 111/77 111/905 111/907 221/174 221/254 221/263

JP F-Term: 2B060 2B060/AA01 2B060/AA02 2B060/AB01 2B060/AC00 2B060/AC06 2B060/BA04 2B060/CA15 2B060/CB01 2B060/CB03 2B060/CB06 2B060/CB11 2B060/CB16 2B060/CB17 2B060/CB25 2B060/CB30 2B060/CC02 2B065 2B065/AA04 2B065/AA05 2B065/AB10 2B065/AC08 2B065/AC09

JP F-Index: A01C11/02/X A01C11/02/Z A01C11/02/371/Z



Family:

Publication number	Publication date	Application number	Application date
AR209968 A1	19770615	AR19760263596	19760611
AU197614493 A1	19771208	AU19760014493	19760601
AU501518 B2	19790621	AU19760014493	19760601
BR7603865 A	19770405	BR19760003865	19760614
CU21047 A	19810110	CU19760034538	19760612
CU21047 L	19810110	CU19760034538	19760612
CU34538 A	19831004	CU19760034538	19760612
CU34538 L	19831004	CU19760034538	19760612
CU34538 O	19810110	CU19760034538	19760612
ES448765 A1	19780416	ES19760448765	19760610
IT1060763 A	19820930	IT19760023813	19760531
JP52006620 A2	19770119	JP19760068208	19760610
US4266490 A	19810512	US19760691653	19760601
ZA7603482 A	19770525	ZA19760003482	19760601

Priority:

GB19750025290 19750612

Probable Assignee: MASSEY FERGUSON SERVICES NV

Assignee(s): (std): MASSEY FERGUSON AUSTRALIA LTD ; MASSEY FERGUSON SERVICES NV

Assignee(s): MASSEY FERGUSON SERVICES NV NL ; MASSEY FERGUSON SERVICES NV ; MASSEY FERGUSON SERVICES NV ; MASSEY FERGUSON SERVICES NV ; MASSEY FERGUSON PERCENT AUSTRALIA LTD ; MASSEY FERGUSON percent AUSTRALIA It LTD

Inventor(s): (std): HAINES ; HAINES R ; HAINES ROLF ; MILLER REID ; REID R M ; REID ROBERT M ; MILLER REID ROBERT ; REID R

Inventor(s): RM REID ; RORUFU HEINTSU ; ROBAATO MIRAA RIIDO ; R HAINES ; R M REID ; MILLER REID ROBERT NL ; HAINES ROLF NL ; HAINES R REID RM

Agent(s): HA; GRIFFITH HACK

7) Family number: 2162217 (US4696241A)

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Title: CANE BILLET PLANTER

Abstract: PCT No. PCT/AU85/00118 Sec. 371 Date Feb. 3, 1986 Sec. 102(e) Date Feb. 3, 1986 PCT Filed Jun. 3, 1985 PCT Pub. No. WO85/05531 PCT Pub. Date Dec. 19, 1985.Apparatus for planting cane billets including a bin assembly for carrying cane billets to be planted, a rotor supported at one end of the bin assembly, the rotor having a plurality of vanes which gather billets from the top of the bin assembly and direct billets into grooves between the vanes for depositing into a hopper, the hopper having a pair of endless conveying chains at its lower end, the chains moving in opposite directions to convey billets to feed chutes for depositing in a planting furrow.

Classifications:

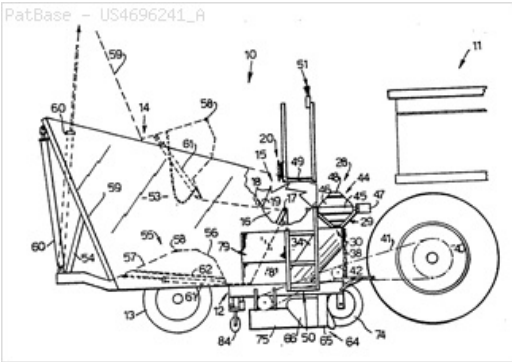
International (IPC 8-9): A01C11/00 A01C9/00 (Advanced/Invention);
A01C9/00 (Advanced/Non-invention);
A01C11/00 A01C9/00 (Core/Invention)

International (IPC 1-7): A01C11/00

CPC: Y10S111/907 Y10S111/926 A01C11/00

European: A01C11/00 A01C9/00

US: 111/104 111/111 111/3 111/907 111/926



Family:

Publication number	Publication date	Application number	Application date
AU198544377 A1	19851231	AU19850044377	19850603
AU582168 B2	19890316	AU19850044377	19850603
BRPI8506763 A	19860923	BR1985PI06763	19850603
US4696241 A	19870929	US19860830524	19860203
WO8505531 A1	19851219	WO1985AU00118	19850603
ZA8504158 A	19860430	ZA19850004158	19850603

Priority:

AU1984PG05349 19840601 WO1985AU00118 19850603

Probable Assignee: MORELLINI P

Assignee(s): (std): MORELLINI P ; MORELLINI PETER

Assignee(s): PETER MORELLINI

Inventor(s): (std): PETER MORELLINI ; MORELLINI PETER

Agent(s): JOHN RG GARDINER

Designated states: AU BR US

8) Family number: 42088413 (BRPI0805050B)

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Title: PLANTADORA DE ETAPA UNICA DE TOLETES DE CANA-DE-ACUCAR E RESPECTIVO METODO PARA O PLANTIO DE TOLETES DE CANA-DE-ACUCAR

Abstract: Source: BRPI0805050B [PT] aparelho ou plantador de toletes de cana, e respectivo metodo. um plantador de tolete de cana pode, em uma escavacao, remover o topo de uma camada de solo para formar um canteiro, os toletes despejados de cana-de-acucar sobre o canteiro, repoe o solo de volta sobre os toletes de cana-de-acucar para formar um monticulo irregular, e modela o monticulo de modo que o topo do monticulo seja relativamente plano e cada lado do monticulo esteja inclinado em um angulo que promove o aquecimento do solo pelo sol.

Classifications:

International (IPC 8-9): A01B13/02 A01C14/00

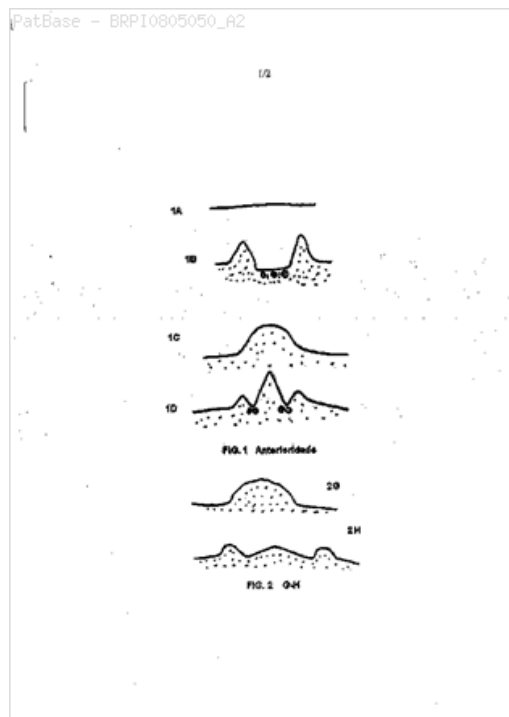
A01C5/06 (Advanced/Invention);

A01B13/00 A01C14/00 (Core/Invention)

International (IPC 1-7): A01C5/06

CPC: A01C11/00

European: A01C11/00

**Family:**

Publication number	Publication date	Application number	Application date
AU2007202931 BA	20080724	AU20070202931	20070625
AU2007202931 BI	20080731	AU20070202931	20070625
AU2007202931 CA	20120524	AU20070202931	20070625
AU2010100955 AD	20101007	AU20100100955	20100830
AU2010100955 BD	20101014	AU20100100955	20100830
AU2012203373 AA	20120628	AU20120203373	20120530
BRPI0805050 A2	20100427	BR2008PI05050	20080625
BRPI0805050 B1	20171212	BR2008PI05050	20080625

Priority:

AU20070202931 20070625 AU20100100955 20100830 AU20120203373 20120530

Probable Assignee: PAUL MIZZI

Assignee(s): (std): MIZZI FAMILY HOLDINGS PTY LTD ; MIZZI PAUL ; MIZZI PAUL LAURENCE ; PAUL LAURENCE MIZZI ; PAUL MIZZI

Assignee(s): MIZZI ENGINEERING PTY LTD

Inventor(s): (std): MIZZI PAUL LAURENCE ; PAUL LAURENCE MIZZI

Agent(s): CULLENS PTY LTD; HOPGOODGANIM; CULLENS PATENT AND TRADE MARK ATTORNEYS; SPRUSON AND FERGUSON