

Search query (13): [SP]: i claim:1. apparatus for transplanting of vegetables or other plants, comprising: structure defining a pair of elongated, juxtaposed chambers each presenting an upper end, an opposed, lower delivery end and sidewalls between said upper and lower ends, one of said chambers being adapted to receive a plant, and the other chamber being adapted to receive a liquid selectively openable stopper means adjacent the delivery ends of said chambers for respectively retaining the plant and liquid within the chambers, said stopper means for said other chamber including an elongated, selectively reciprocable operating rod carrying a liquid flow-blocking stopper adjacent the lower end thereof, said rod being shiftable between a raised position permitting liquid flow through the associated lower delivery end, and a lowered, flow blocking position and operating means for selectively opening said stopper means for delivery of a plant from said one chamber and liquid from said other chamber, said operating means including a pivotal handle operatively coupled with an upper end of said operating rod, and adjustable means for delivery of a preselected quantity of liquid from said other chamber upon pivoting of said handle, said adjustable means comprising-- . structure defining an opening through said sidewall of said other chamber, and shiftable means operably coupled with said operating rod and extending at least in part through said opening, said shiftable means including structure for permitting selective adjustment of the quantity of liquid delivered by manipulation exteriorly of said other chamber.2. apparatus as set forth in claim 1, including structure adjacent the delivery ends of said chambers for boring of plant-receiving openings in the earth.3. apparatus as set forth in claim 1, said stopper means further comprising an elongated, tapered, first body depending from said one chamber, and means pivotally supporting said first body for movement between a closed position for retaining a plant, and an open position permitting the plant to fall downwardly under the influence of gravity, there being an elongated, tapered second body depending from said other chamber, said first and second bodies cooperatively presenting a generally conical earth-boring member when said first body is in the closed position thereof.4. apparatus as set forth in claim 1, said adjustable liquid delivery means comprising: an apertured rocker member positioned adjacent said handle with said operating rod passing through the rocker member, for engagement by said handle upon pivoting thereof means pivotally mounting said rocker member for pivoting about an axis transverse to the longitudinal axis of said operating rod when said handle is pivoted a rotatable cam carried by said rod above said rocker member means biasing said rocker member to a position beneath said cam and with said operating rod in its lowered, liquid flow-blocking position, said cam being rotatably adjustable for varying vertical movement of said rod upon pivoting of said handle and consequent engagement with said rocker member.5. apparatus as set forth in claim 1, said operating means including structure for substantially simultaneously opening the stopper means for both of said chambers.

Results: 10

Search history

Search yizemachine (Results 0)

1:

Search zhengzhou (Results 206)

2:

Search hand and held and (vegetable OR agricultural) (Results 49048)

3:

Search 3 and transplanter (Results 82)

4:

Search 3 and manual (Results 13893)

5:

Search wantuo (Results 2)

6:

Search transplanter and (agricultural) (Results 745)

7:

Search zhengzhou or wantou or yize (Results 229)

8:

Search 8 or yizemachine (Results 229)

9:

Search pn=WO2016049217 (Results 1)

10:

Search [SP]: amended claims received by the international bureau on 28 march 2016 (28.03.2016) 1. a computer-implemented method, comprising: receiving input data from a plurality of sensors processing the input data to generate one or more output maps generating a planting pattern for a planting operation using the one or more output maps, the planting pattern defining a plurality of locations wherein each location of the plurality of locations is associated with at least one species of plant to be planted at the location by a planting platform and one or more planting conditions determining a quantity of planting platforms available dividing the planting pattern into a plurality of portions based on the quantity of planting platforms available uploading to each available planting platform a corresponding portion of the plurality of portions and executing the planting operation using the available planting platforms. 2. the computer-implemented method of claim 1, wherein the planting platforms include one or more unmanned aerial vehicles (uavs). 3. the computer-implemented method of claim 1, wherein the one or more output maps include terrain data identifying one or more of structures, terrain types, and debris, and wherein generating a planting pattern for a planting operation using the one or more output maps includes identifying areas for planting based on the terrain data. 4. the computer-implemented method of claim 3, wherein generating a planting pattern for a planting operation using the one or more output maps further comprises: applying one or more terrain thresholds to the tags in the one or more output maps and tagging one or more regions of the one or more output maps with threshold data to generate one or more enriched output maps. 5. the computer-implemented method of claim 4, further comprising: comparing the enriched output maps to planting requirements for a payload identifying, based on the comparison, one or more planting regions for the payload and 47 defining the planting pattern for the payload based on a density level associated with the payload. 6. a planting apparatus comprising: a casing comprising an inner surface and an outer surface, wherein a first end portion of the casing is closed to form a chamber and a second end portion of the casing is open a payload in the chamber, the payload including planting material and matrix material and a lid having a lower surface and an upper surface, the lower surface adapted to seal the second end portion of the casing. 7. the planting apparatus of claim 6, wherein the casing is made of biodegradable materials and includes a nutrient mixture specific to the payload. 8. the planting apparatus of claim 7, wherein the casing is substantially conical and wherein one or more of the casing and the lid are adapted to break upon impact with a planting environment, exposing the payload to the planting environment. 9. the planting apparatus of claim 6, further comprising: a pushrod connected to the lower surface of the lid and extending through the first end portion of the casing, wherein at impact with a substrate the pushrod causes the lid to open. 10. the planting apparatus of claim 6, further comprising: one or more wings connected to the upper surface of the lid, the one or more wings adapted to cause the planting apparatus to spin when released from a first height. 11. the planting apparatus of claim 6, wherein the outer surface of the casing comprises one or more stabilization surfaces, the one or more stabilization surfaces adapted to cause the planting apparatus to spin about its axis. 12. the planting apparatus of claim 6, wherein the upper surface of the lid comprises one or more stabilization surfaces extending from the upper surface of the lid. 13. the planting apparatus of claim 6, further comprising: one or more sensors integrated with the casing 48 an energy generation system connected to an energy storage system, wherein the energy storage system provides energy to the one or more sensors wherein the one or more sensors include at least one communication module and at least one environmental sensor, the at least one communication module configured to transmit data from the at least one environmental sensor to a second planting apparatus. 14. the planting apparatus of claim 13, wherein the second planting apparatus includes a second communication module configured to transmit data received from a plurality of planting apparatuses to a base station. 15. an automated planting system, comprising: a planting system including a chamber connected to a trigger-controlled firing mechanism, a barrel, and a feeder, wherein the trigger-controlled firing mechanism is configured to direct a pod fed into the chamber by the feeder, through the barrel a trigger control system connected to the trigger-controlled firing mechanism and configured to receive data from one or more sensors, wherein the trigger control system is configured to determine a position of the mobile transport platform using the one or more sensors compare the position of the mobile transport platform to a first location in a planting pattern and determine that the position is within a threshold distance of the first location and cause the trigger-controlled firing mechanism to fire a pod at the first location. 16. the automated planting system of claim 15, further comprising: a mobile transport platform coupled to the planting system, the mobile transport platform including the one or more sensors, wherein the mobile transport platform is a unmanned aerial vehicle. 17. the automated planting system of claim 15, wherein the firing mechanism further comprises: a high pressure chamber connected to the chamber via an electronically controlled valve, wherein when the trigger control system causes the trigger controlled firing mechanism to fire the pod by opening the electronically controlled valve. 18. the automated planting system of claim 17, wherein the high pressure chamber includes a compressed gas cylinder that pressurizes the high pressure chamber. 19. the automated planting system of claim 17, further comprising: a gimbal rotatably coupling the planting system to the mobile transport platform. 20. the automated planting system of claim 15, further comprising: a mapping system configured to receive data from the one or more sensors, wherein the mapping system generates

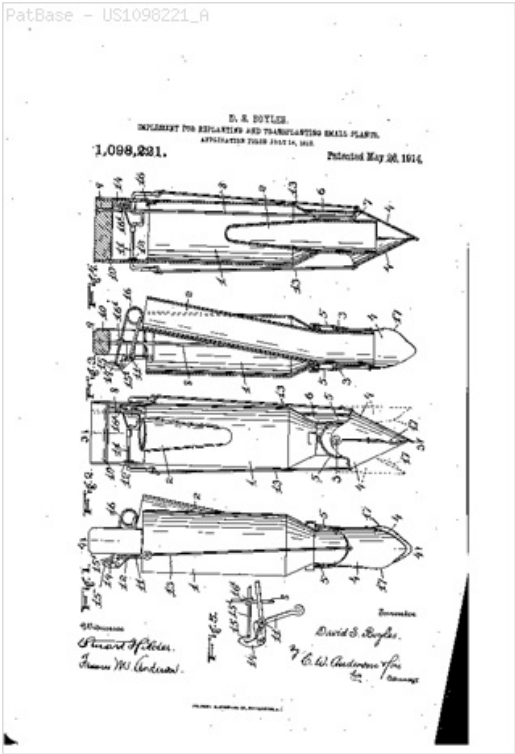
the planting pattern based on the data from the one or more sensors. 21. the computer-implemented method of claim 5, wherein the payload includes one or more of one or more of: planting material for the at least one species of plant at least one organism support matrix material or sensor. 22. the computer-implemented method of claim 21 further comprising: defining the planting pattern for the payload based on a distribution of plant species in an area represented by the output maps. 23. the computer-implemented method of claim 21 further comprising: defining the planting pattern for the payload based on soil restoration requirements. 24. the computer-implemented method of claim 21 further comprising: defining the planting pattern for the payload based on one or more decorative patterns. 25. the computer-implemented method of claim 1, wherein each location of the plurality of locations is further associated with one or more of one or more of: at least one organism support matrix material or sensor. 26. the automated planting system of claim 15 wherein the trigger control system is further configured to cause the trigger-controlled firing mechanism to fire a pod based on a signal received from a user device. (Results 9)

Search pn=US5040471 (Results 1)
12:

Search [SP]: i claim:1. apparatus for transplanting of vegetables or other plants, comprising: structure defining a pair of elongated, juxtaposed
13: chambers each presenting an upper end, an opposed, lower delivery end and sidewalls between said upper and lower ends, one of said chambers being adapted to receive a plant, and the other chamber being adapted to receive a liquid selectively openable stopper means adjacent the delivery ends of said chambers for respectively retaining the plant and liquid within the chambers, said stopper means for said other chamber including an elongated, selectively reciprocable operating rod carrying a liquid flow-blocking stopper adjacent the lower end thereof, said rod being shiftable between a raised position permitting liquid flow through the associated lower delivery end, and a lowered, flow blocking position and operating means for selectively opening said stopper means for delivery of a plant from said one chamber and liquid from said other chamber, said operating means including a pivotal handle operatively coupled with an upper end of said operating rod, and adjustable means for delivery of a preselected quantity of liquid from said other chamber upon pivoting of said handle, said adjustable means comprising--. structure defining an opening through said sidewall of said other chamber, and shiftable means operably coupled with said operating rod and extending at least in part through said opening, said shiftable means including structure for permitting selective adjustment of the quantity of liquid delivered by manipulation exteriorly of said other chamber.2. apparatus as set forth in claim 1, including structure adjacent the delivery ends of said chambers for boring of plant-receiving openings in the earth.3. apparatus as set forth in claim 1, said stopper means further comprising an elongated, tapered, first body depending from said one chamber, and means pivotally supporting said first body for movement between a closed position for retaining a plant, and an open position permitting the plant to fall downwardly under the influence of gravity, there being an elongated, tapered second body depending from said other chamber, said first and second bodies cooperatively presenting a generally conical earth-boring member when said first body is in the closed position thereof.4. apparatus as set forth in claim 1, said adjustable liquid delivery means comprising: an apertured rocker member positioned adjacent said handle with said operating rod passing through the rocker member, for engagement by said handle upon pivoting thereof means pivotally mounting said rocker member for pivoting about an axis transverse to the longitudinal axis of said operating rod when said handle is pivoted a rotatable cam carried by said rod above said rocker member means biasing said rocker member to a position beneath said cam and with said operating rod in its lowered, liquid flow-blocking position, said cam being rotatably adjustable for varying vertical movement of said rod upon pivoting of said handle and consequent engagement with said rocker member.5. apparatus as set forth in claim 1, said operating means including structure for substantially simultaneously opening the stopper means for both of said chambers. (Results 10)

Title: IMPLEMENT FOR REPLANTING AND TRANSPLANTING SMALL PLANTS.

Classifications:
International (IPC 1-7): A01C11/02
CPC: A01C5/02
US: 111/108



Family:

Publication number	Publication date	Application number	Application date
US1098221 A	19140526	US19130779027	19130714

Priority:
US19130779027 19130714

Probable Assignee:	BOYLES DAVID S
Assignee(s): (std):	BOYLES DAVID S
Assignee(s):	DAVID S BOYLES
Inventor(s): (std):	BOYLES DAVID S
Inventor(s):	DAVID S BOYLES

Title: PLANTING DEVICE

Abstract: 1. In a planting device, a tank for liquid, a shovel fixed to the lower part of said device, a movable shovel pivoted to said fixed shovel, a plant tube fastened to said tank and leading into the space between said shovels, yielding means normally urging said pivoted shovel toward said fixed shovel, means to rotate said pivoted shovel away from said fixed shovel, a valve casing in the bottom of said tank consisting of a housing with a top opening and a bottom opening, a valve rod movable through said top opening and carrying a valve for said top opening and a valve for said bottom opening, said valves being placed within said housing so that when said valve rod is lifted, said top opening is closed and then said bottom opening is uncovered, and when said rod is lowered said bottom opening is covered and then said top opening is uncovered, a handle attached to said device, means placed near said handle for operating said valve rod, said valve rod being extended through said bottom opening and pivoted to said movable shovel.

Classifications:

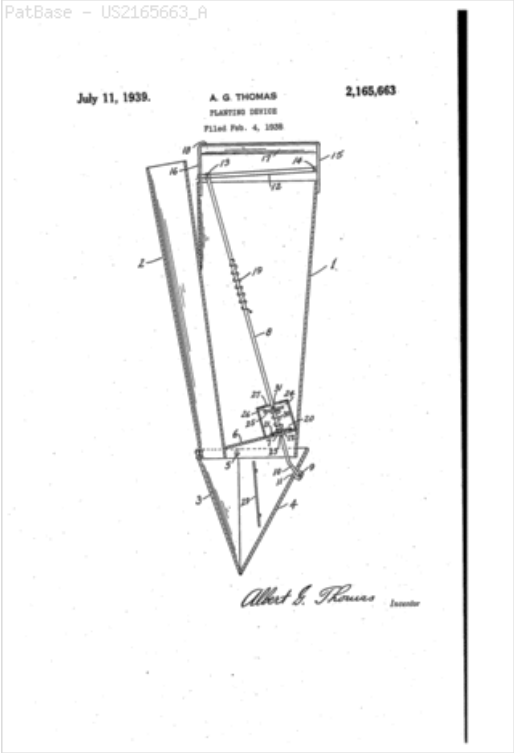
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A01C7/00 (Core/Invention)

International (IPC 1-7): A01C5/02

CPC: A01C7/02

European: A01C7/02

US: 111/108 222/447



Family:

Publication number	Publication date	Application number	Application date
US2165663 A	19390711	US19380188597	19380204

Priority:

US19380188597 19380204

Probable Assignee: SYDNOR THOMPSON MFG CO IN

Assignee(s): (std): SYDNOR THOMPSON MFG CO IN ; SYDNOR THOMPSON MFG COMPANY IN

Assignee(s): SYDNOR THOMPSON MFG COMPANY INC ; SYDNOR THOMPSON MFG CO INC

Inventor(s): (std): THOMAS ALBERT G

Title: PLANTING DEVICE

Abstract: 1. In a planting device, a tank for liquid, a shovel fixed to the lower part of said device, a movable shovel pivoted to said fixed shovel, a plant tube fastened to said tank and leading into the space between said shovels, yielding means normally urging said movable shovel toward said fixed shovel, a handle attached to said tank, a valve in the bottom of said tank, a valve rod attached to said valve, a portion of said valve rod being inclined relative to the rest of said rod to act as a cam portion and the upper portion of said rod terminating in a catch, a movable element adjacent said handle and linked to said movable shovel and coacting with said catch when said element is manually moved relative to said handle, a guide for said valve rod, said guide being fastened to said tank and having an inclined surface against which said cam portion on said valve rod will strike to move said rod and catch laterally so that said catch will be disengaged from contact with said movable element and so as to allow said valve rod to drop to close said valve after said valve rod and valve have been lifted a predetermined distance by means of said element.

Classifications:

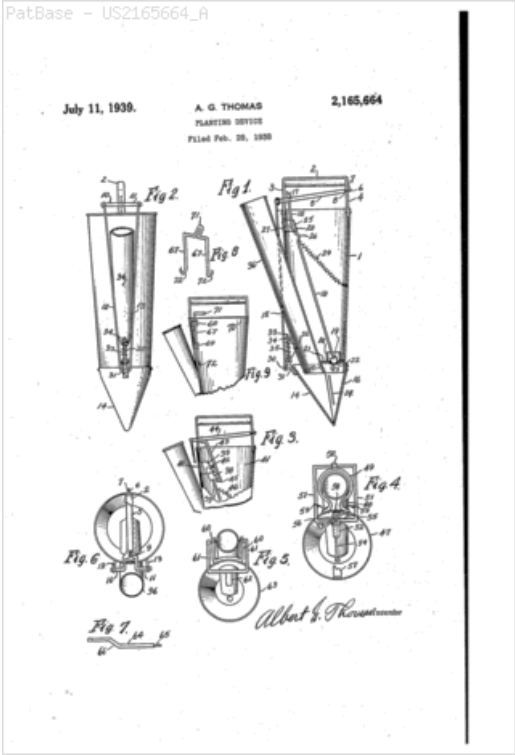
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A01C7/00 (Core/Invention)

International (IPC 1-7): A01C5/02

CPC: A01C7/02

European: A01C7/02

US: 111/108



Family:

Publication number	Publication date	Application number	Application date
US2165664 A	19390711	US19380193022	19380228

Priority:

US19380193022 19380228

Probable Assignee: SYDNOR THOMPSON MFG CO IN

Assignee(s): (std): SYDNOR THOMPSON MFG CO IN ; SYDNOR THOMPSON MFG COMPANY IN

Assignee(s): SYDNOR THOMPSON MFG COMPANY INC ; SYDNOR THOMPSON MFG CO INC

Inventor(s): (std): THOMAS ALBERT G

Title: PLANT SETTER

Abstract: 1. A plant- setter comprising a tube ha-ving a receiving end and a. discharge end, upwardly and outwa1'dly extending guide rnernders mounted on said tube, shovel elements having pointed ends and slidably mounted on the guide elements and arranged in converging relation and capable of having the pointed ends thereof to come in contact with each other below the discharge end of the tube for facilitating the insertion of the shovel elements into the ground to form a. hole and to prevent a plant from moving fully out of t-he tube by way of the discharge end thereof, levers pivotally mounted on the tube, means connecting the levers to the shovel elements, spring means connected to said levers for normally positioning the shovel elements with the free ends thereof in engagement and positioned below the discharge end of the tube, operating handles pivotelly mounted on the tube and connected to said levers to permit manual actuation of the shovel elements upwardly with respect to the discharge end of the tube for depositing a plant in the hole, and hand grips mounted on the tube adjacent the operating handles.

Classifications:

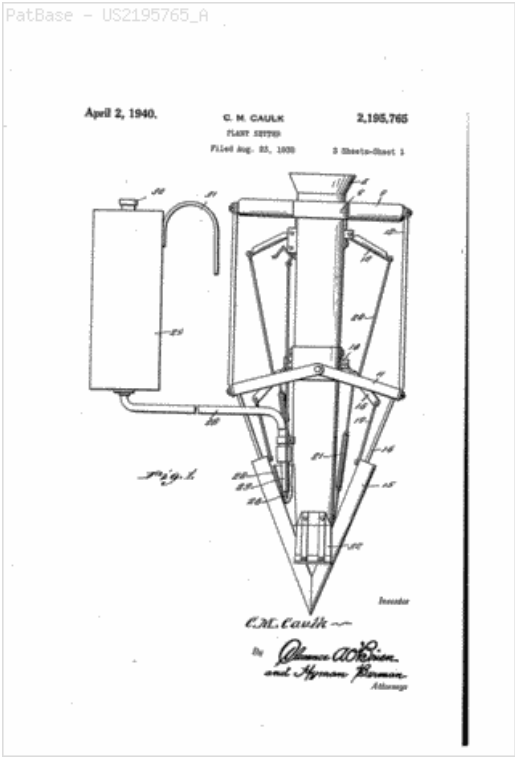
International (IPC 8-9): A01C5/02 (Advanced/Invention);
A01C5/00 (Core/Invention)

International (IPC 1-7): A01C7/02

CPC: A01C5/02

European: A01C5/02

US: 111/108



Family:

Publication number	Publication date	Application number	Application date
US2195765 A	19400402	US19380226394	19380823

Priority:

US19380226394 19380823

Probable Assignee:

L A CAULK

Assignee(s): (std):

L A CAULK

Inventor(s): (std):

CAULK CLAYTON M

Title: Hand vegetable transplanter with assembly for varying quantity of liquid dispensed.

Abstract: Apparatus (10) for transplanting of vegetables or other plants is provided which eliminates stoop labor while properly placing plants (142) within earth openings (84); at the same time, a measured quantity of liquid (42) is delivered to the opening (84). The apparatus (10) includes a pair of elongated, juxtaposed, frustoconical chamber (12, 14) each equipped with selectively actuatable stopper means (16, 18) adjacent the lower ends thereof. Actuation of a pivotal operating handle (90) simultaneously opens the stopper means (16, 18) for delivery of a plant (142) and liquid (42) to a plant site. An adjusting assembly (106) is provided for varying the amount of liquid (42) delivered during each transplanting operation.

Classifications:

International (IPC 8-9): A01C5/02 (Advanced/Invention);
A01C5/00 (Core/Invention)

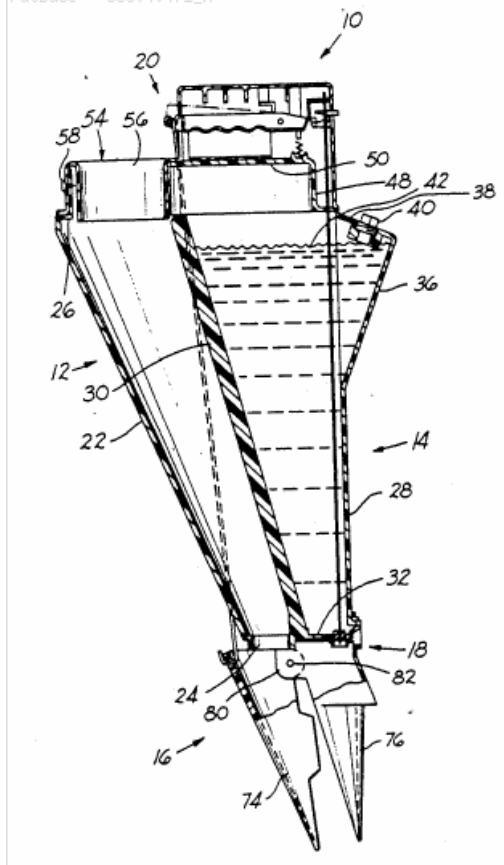
International (IPC 1-7): A01C23/02 A01C5/02

CPC: A01C5/02

European: A01C5/02

US: 111/108 111/7.2 111/95

PatBase - US5040471_R



Family:

Publication number	Publication date	Application number	Application date
US5040471 A	19910820	US19900557910	19900725

Priority:

US19900557910 19900725

Probable Assignee: UNIV KANSAS STATE

Assignee(s): (std): UNIV KANSAS STATE

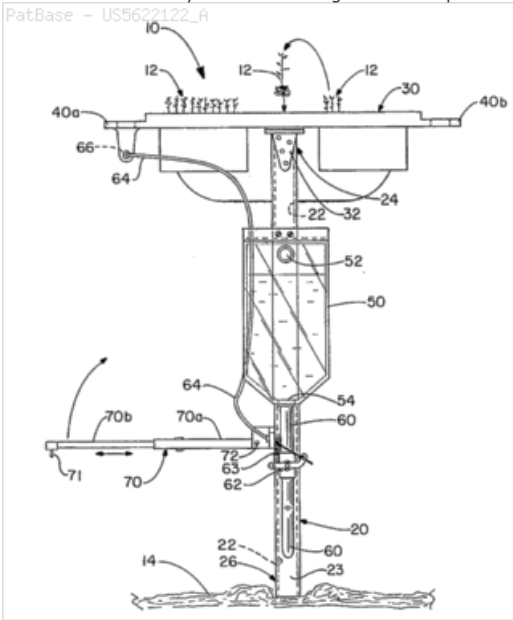
Assignee(s): KANSAS STATE UNIV ; KANSAS STATE UNIVERSITY RESEARCH FOUNDATION

Inventor(s): (std): LAMONT JR WILLIAM J

Title: Garden tool for planting plants

Abstract: A garden tool tool to assist a gardener in planting plants in previously cultivated soil. The garden tool allows a gardener to plant plants such as vegetables, flowers, and tree seedlings in cultivated soil with a minimum of effort and without kneeling or bending over. Also, once the plant is inserted into the soil, the garden tool provides a simple and effective mechanism for a gardener to provide the newly planted plant with a quantity of water and/or fertilizer. The garden tool includes an elongated planting member having a bore formed therethrough connecting an upper open end of the planting member to a lower open end of the planting member. A plant carrying tray is connected to the upper open end of the planting member and provides a surface for supporting a plurality of plants to be planted using the tool. The tool may include one or more tanks to be filled with water, fertilizer and the like such that each newly planted plant can be watered immediately upon planting. The garden tool may also include a plant positioning guide to assist an operator of the apparatus in properly locating a plant relative to an adjacent plant. Also, the garden tool conveniently folds for storage and transport.

Classifications:
International (ipc 8-9): A01C5/04 (Advanced/Invention); A01C5/00 (Core/Invention)
International (ipc 1-7): A01C11/00
CPC: A01C5/04 A01C11/006
European: A01C11/00 A01C11/00C A01C11/02 A01C5/04
US: 111/100 111/106 47/1.01 47/1.01R 47/101



Family:

Publication number	Publication date	Application number	Application date
US5622122 A	19970422	US19960585881	19960116

Priority:

US19960585881 19960116

Probable Assignee:

ADAIR NEWELL

Assignee(s):

ADAIR NEWELL

Inventor(s): (std):

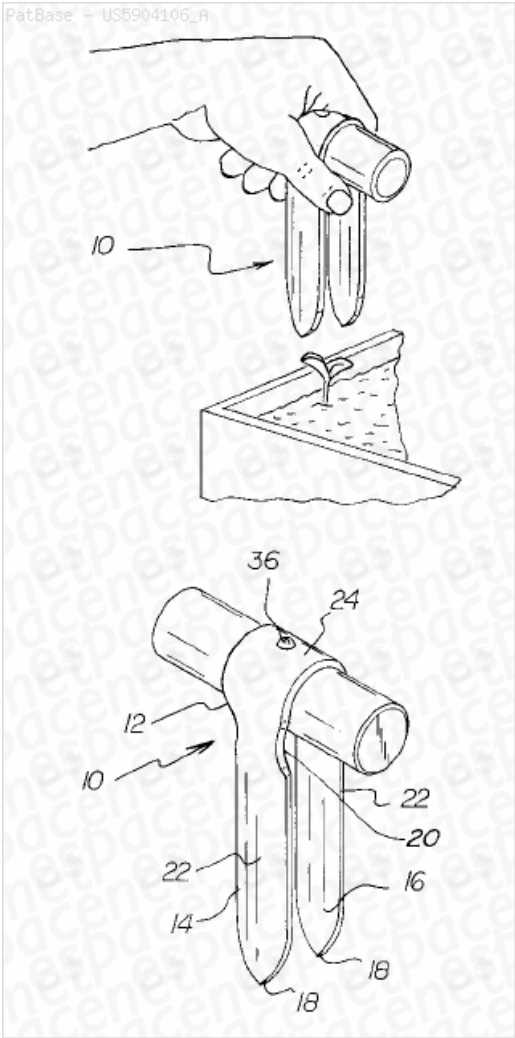
ADAIR NEWELL

Title: Seedling transfer tool

Abstract: A seedling transfer tool including a flexible inverted U-shaped blade assembly in an essentially inverted U-shaped configuration with two generally parallel fingers. Each finger has a U-shaped lower end terminating in a point and facing arcuate recesses at its upper end. A central section is provided having a generally semi-circular cross-section between its upper and lower ends. The blade assembly also has a downwardly facing U-shaped intermediate section which couples the fingers with a central aperture therethrough. The axis of the intermediate section is at a right angle from the axes of the central sections of the fingers. A screw extends through the apertures of the blade assembly and cylinder coupling the blade assembly and cylinder.

Classifications:

International (IPC 8-9): A01C5/02 (Advanced/Invention);
A01C5/00 (Core/Invention)
International (IPC 1-7): A01C11/02
CPC: A01C5/02
European: A01C5/02
US: 111/106 D8/4



Family:

Publication number	Publication date	Application number	Application date
US5904106 A	19990518	US19980124735	19980730

Priority:

US19980124735 19980730

Probable Assignee:

SWIFT LUCY

Assignee(s):

SWIFT LUCY ; SWIFT SR JOHN E

Inventor(s): (std):

SWIFT LUCY ; SWIFT SR JOHN E

Title: IMPROVED PLANTING TUBE

Abstract: A seedling planting tube having an elongate body (12) with an open upper end for receiving a seedling and an operable closure (22) at the lower end. The planting tube includes actuator (40) for opening closure (22), said actuator (40) being operationally associated with dispenser (74) for dispensing beneficial chemical in a tablet (4) or solid unit dose form to a locus. Actuation of the actuator (40) opens closure (22) and forms a planting hole in the ground as well as operating dispenser (74).

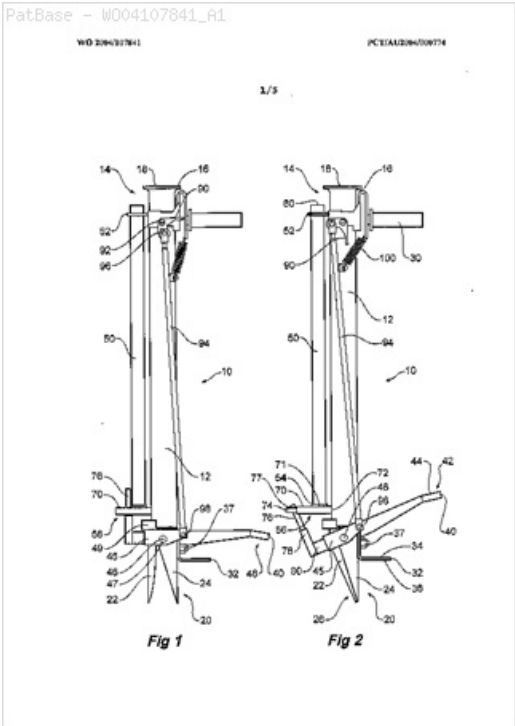
Classifications:

International (IPC 8-9): A01C5/02 A01G23/04 (Advanced/Invention);
A01C5/00 A01G23/00 (Core/Invention)

International (IPC 1-7): A01C5/02 A01G23/04

CPC: A01C5/02

European: A01C5/02



Family:

Publication number	Publication date	Application number	Application date
AU2003902878 A0	20030626	AU20030902878	20030610
AU2004244674 AA	20041216	AU20040244674	20040610
WO04107841 A1	20041216	WO2004AU00774	20040610

Priority:

AU20030902878 20030610 AU20040244674 20040610 WO2004AU00774 20040610

Probable Assignee: ROGERS A

Assignee(s): (std): ROGERS A ; ROGERS ALAN

Assignee(s): ALAN ROGERS

Inventor(s): (std): ROGERS ALAN

Inventor(s): ALAN ROGERS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD

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

Title: GRANULE DISPENSING TOOL

Abstract: A granule dispensing device is provided and includes a chamber having a predetermined volume for housing granules and defining a flow path for a flow of granules, a valve assembly for controlling the flow path, and an actuator configured to actuate the valve assembly for dispensing the granules.

Classifications:

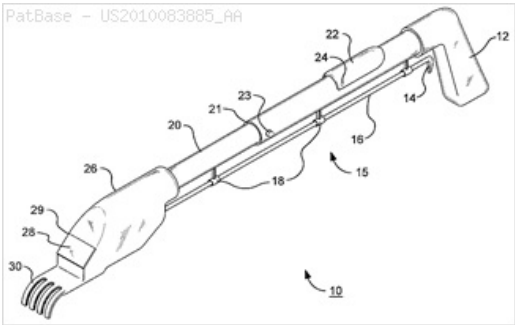
International (IPC 8-9): A01C5/02 (Advanced/Invention);

A01C5/00 (Core/Invention)

CPC: A01C15/02

European: A01C15/02

US: 111/95



Family:

Publication number	Publication date	Application number	Application date
US2010083885 AA	20100408	US20080246145	20081006
US7735436 BB	20100615	US20080246145	20081006

Priority:

US20080246145 20081006

Probable Assignee:

MODARESI HEIDAR A

Assignee(s): (std):

MODARESI HEIDAR A

Inventor(s): (std):

MODARESI HEIDAR A

Agent(s):

ADAMS INTELLECTUAL PROPERTY LAW

Title: METHOD OF PLANTING PLANT AND PROTECTION SLEEVE AND TOOL FOR THIS

Abstract: When planting plants (P), a recess is formed in the ground (M) by the operation of a planting means (2) at a first end (3) of a plant channel of a tool (15), a plant is introduced into a second end (4) of the tool and the plant is allowed to fall through the tool and down into the recess. One or several insect protection sleeves (40) are introduced into and are supported in a protection channel (20) that is extended along the plant channel and prior to each introduction of a plant into the plant channel a protection sleeve is introduced into the plant channel at a position (1A) between its ends. After receiving the protection sleeve in the plant channel a plant is introduced into the second end thereof and falls into the introduced protection sleeve and the protection sleeve is allowed to fall down into the recess together with a plant received in said protection sleeve.

Classifications:

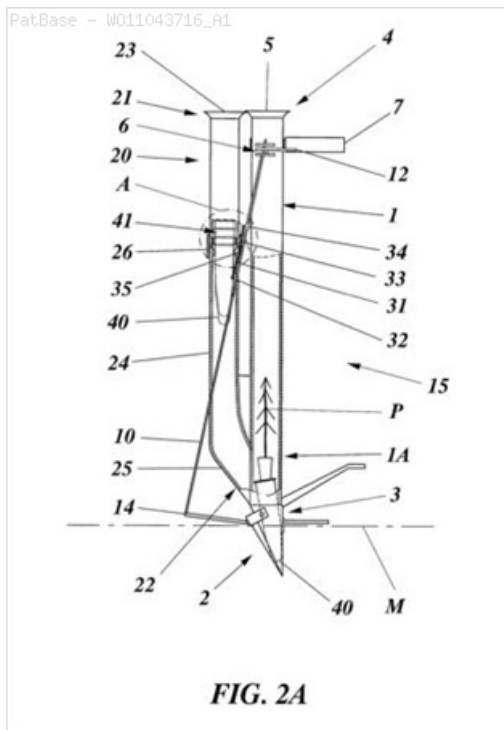
International (IPC 8-9): A01C11/00 A01C11/02 A01C5/02

A01G13/02 A01G13/10 (Advanced/Invention);

A01C11/00 A01G13/02 (Advanced/Non-invention)

CPC: A01C5/02 A01C11/02 A01G13/0212 A01G13/10

European: A01C11/02 A01C5/02 A01G13/02B1 A01G13/10



Family:

Publication number	Publication date	Application number	Application date
EP2485578 A1	20120815	EP20100822315	20100928
EP2485578 A4	20180110	EP20100822315	20100928
SE200901275 A1	20100817	SE20090001275	20091005
SE533305 C2	20100817	SE20090001275	20091005
WO11043716 A1	20110414	WO2010SE51042	20100928
WO11043716 A9	20110609	WO2010SE51042	20100928

Priority:

SE20090001275 20091005 WO2010SE51042 20100928

Probable Assignee: BJOERKEMAR CONSTRUCTION AND CONS

Assignee(s): (std): BJOERKEMAR CONSTRUCTION AND CONS ; BJOERKEMAR CONSTRUCTION AND CONSULTING BCC AB ; BJOERKEMAR HANS ; SUNDBLAD LARS GOERAN

Inventor(s): (std): SUNDBLAD LARS GOERAN ; BJOERKEMAR HANS

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