

1) Family number: 72481592 (US2018359939 AA)

© PatBase

Title: SYSTEMS AND METHODS FOR MANAGING A WEIGHT OF A PLANT IN A GROW POD

Abstract: An assembly line grow pod includes a seeding region, a harvesting region, a track that extends between the seeding region and the harvesting region, a cart including a tray for holding plant matter, and a wheel coupled to the tray, where the wheel is engaged with the track, and a weight sensor positioned on the cart or the track, where the weight sensor is positioned to detect a weight of the plant matter positioned within the cart.

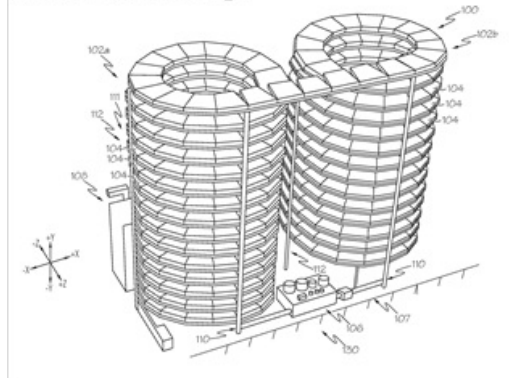
Classifications:

International (IPC 8-9): A01C A01C7/00 A01D43/00 A01D90/02 A01D91/00 A01D93/00 A01G A01G18/80 A01G31/04 A01G7/00 A01G9/00 A01G9/08 A01G9/14 A01G9/16 A01G9/24 G01B G01B13/04 G01F23/00 G01F23/20 G01G G01G11/00 G01G11/04 G01G19/34 G01G19/393 G01G19/415 G01G19/42 G01N21/31 G01N5/02 G06N99/00 G06Q50/02 G16Y10/05 G16Y20/10 G16Y20/20 H04N7/06

CPC: Y02P60/21 A01G31/042 A01G9/085 A01G9/088 A01G9/247 G01F23/20 G01G11/003 G01G11/043 G01G19/042 G01G19/393 G01G19/415 G01G19/42 G01G19/52 Y02A40/25 A01D91/00 G01N2021/1776 G01N2021/8416 G01N2021/8466 G01N21/251 G01N21/314 G01N5/02 G05B15/02 G05B2219/45003 G06Q50/02 A01G7/00 A01G9/24 H04N7/06

US: 1/1 47/65

PatBase - US2018359939_AA



Family:

Publication number	Publication date	Application number	Application date
AR112249 AA	20191009	AR2018P101648	20180614
AR112299 AA	20191016	AR2018P101665	20180614
AU2018282602 AA	20190613	AU20180282602	20180530
AU2018282607 AA	20190627	AU20180282607	20180530
BR112019016926 A2	20200414	BR20191116926	20180530
BR112019017518 A2	20200331	BR20191117518	20180530
CA3044859 AA	20190523	CA20183044859	20180530
CA3061347 AA	20191023	CA20183061347	20180530
CL2019001546 A1	20191104	CL20190001546	20190606
CL2019002064 A1	20191220	CL20190002064	20190723
CN110099562 A	20190806	CN201880005326	20180530
CN110167337 A	20190823	CN201880005947	20180530
CO20190005968 A2	20190619	CO20190005968	20190607
CO20190008085 A2	20190731	CO20190008085	20190725
EP3638005 A1	20200422	EP20180732564	20180530
EP3638006 A1	20200422	EP20180732574	20180530
ID201907675 A	20191025	ID2019PID05131	20180530
ID201908489 A	20191223	ID2019PID04976	20180530
IL267329 A0	20190829	IL20180267329	20180530
IL267454 A0	20190829	IL20180267454	20180530
IN201917021080 A	20191206	IN201917021080	20190528
IN201917023388 A	20191206	IN201917023388	20190613
JP2020522988 T2	20200806	JP20190529531T	20180530
JP2020522991 T2	20200806	JP20190532040T	20180530
KR20200018379 A	20200219	KR20197017155	20180530
KR20200018382 A	20200219	KR20197019397	20180530
MX2019010593 A1	20191015	MX20190010593	20180530
MX2019011104 A1	20191202	MX20190011104	20180530
PE20190943 A1	20190704	PE20190001237	20180530
PE20191334 A1	20190925	PE20190001722	20180530
PH2019501429 A	20200615	PH20190501429	20190620
PH2019501521 A	20200713	PH20190501521	20190627
TW201904393 A	20190201	TW20180119757	20180608
TW201904409 A	20190201	TW20180119776	20180608
US2018359939 AA	20181220	US20180985119	20180521
US2018359975 AA	20181220	US20180991614	20180529
WO18231516 A1	20181220	WO2018US35037	20180530
WO18231521 A1	20181220	WO2018US35094	20180530
ZA201903409 A	20200226	ZA20190003409	20190529

Priority:

US20170519701P 20170614 US20170519704P 20170614 US20180985119 20180521
US20180991614 20180529 WO2018US35037 20180530 WO2018US35094 20180530
CL20190002064 20190723

Probable Assignee: GROW SOLUTIONS TECH LLC

Assignee(s): (std): GARY BRET MILLAR ; GROW SOLUTIONS TECH LLC ; MARK GERALD STOTT ; MICHAEL STEPHEN HURST ; TAYLOR JOHN WOODBURY ; TODD GARRETT TUELLER

Assignee(s): HURST MICHAEL STEPHEN ; MILLAR GARY BRET ; STOTT MARK GERALD ; TUELLER TODD GARRETT ; WOODBURY TAYLOR JOHN ; グロー ソリューションズ テック エルエルシー ; 成长方案技术有限公司 ; 美商成长方案科技有限责任公司 ; 그로우 솔루션즈 테크 엘엘씨

Inventor(s): (std): GARY BRET MILLAR ; HURST MICHAEL STEPHEN ; MARK GERALD STOTT ; MICHAEL STEPHEN HURST ; MILLAR GARY BRET ; STOTT MARK GERALD ; TAYLOR JOHN WOODBURY ; TODD GARRETT TUELLER ; TUELLER TODD GARRETT ; WOODBURY TAYLOR JOHN

Inventor(s): ウッドベリー, テイラー ジョン ; ストット, マーク ジェラルド ; トゥエラー, トッド ギャレット ; ハースト, マイケル スティーブン ; ミラー, ゲイリー プレット ; 伍德伯里 泰勒 约翰 ; 史托特 马克 傑瑞德 ; 托德 加勒特 图勒 ; 托德·加勒特·图勒 ; 格雷 布雷特 米勒 ; 格雷·布雷特·米勒 ; 段勒 托德 加雷特 ; 泰勒 约翰 伍德伯里 ; 泰勒·约翰·伍德伯里 ; 米克 斯蒂芬 赫斯特 ; 米克·斯蒂芬·赫斯特 ; 米勒 蓋瑞 布瑞特 ; 赫斯特 麥可 史蒂芬 ; 马克 杰拉尔德 斯托得 ; 马克·杰拉尔德·斯托得 ; 밀라 개리 브렛 ; 스타트 마크 제럴드 ; 우드버리 테일러 존 ; 튜엘러 토드 개릿 ; 허스트 마이클 스티븐

Agent(s): MAROLITA SETIATI; MURRAY TRENTO AND ASSOCIATES PTY LTD; PISANO ANTHONY L ET AL; ROBIC; SILVA Y CIA; ZACCO SWEDEN AB; 广州三环专利商标代理有限公司 44202; 熊永强; 郝传鑫; 陳長文; 리앤목특허법인

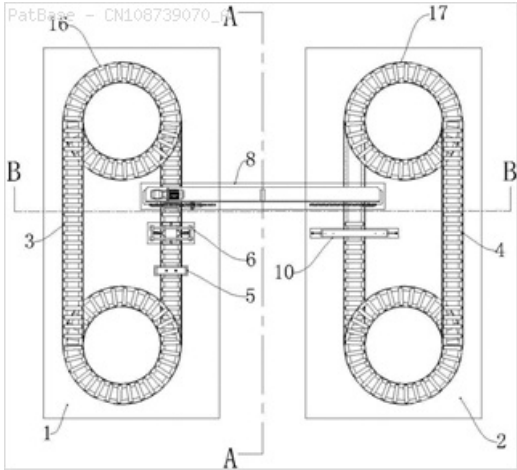
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML 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 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

2) Family number: 71752238 (CN108739070 A) © PatBase

Title: EDIBLE FUNGUS BAG CULTIVATION SYSTEM AND METHOD

Abstract: The invention relates to the technical field of edible fungus production equipment, in particular to an edible fungus bag cultivation system and method. The system comprises a hair fungus chamber, a fruiting chamber, a chain plate conveyor, a fruiting chamber chain plate conveyor, a single-direction puncture device, a multi-direction puncture device, a first weighing device, a transfer device, a second weighing device and a water injection device; the chain plate conveyor, the single-direction puncture device, the multi-direction puncture device and the first weighing device are arranged inside the hair fungus chamber, and the chain plate conveyor forms a conveying closed ring; the fruiting chamber chain plate conveyor, the second weighing device and the water injection device are arranged inside the fruiting chamber, and the fruiting chamber chain plate conveyor forms a conveying closed ring; the hairy fungus chamber is connected with the fruiting chamber through the transfer device. The automatic degree for mushroom bag cultivation can be increased, the labor intensity of workers is lowered, the production efficiency is improved, the yield is increased, and living contaminants or bacteria stick damage is avoided.

Classifications:
International (IPC 8-9): A01G18/00 A01G18/60 A01G18/69 G01G17/00
CPC: A01G18/00 A01G18/60 A01G18/69 G01G17/00



Family:

Publication number	Publication date	Application number	Application date
CN108739070 A	20181106	CN201810612916	20180614

Priority:
CN201810612916 20180614

Probable Assignee: INST AGRICULTURAL RESOURCES AND ENVIRONMENT SHANDONG ACADEMY AGRICULTURAL SCIENCES

Assignee(s): (std): INST AGRICULTURAL RESOURCES AND ENVIRONMENT SHANDONG ACADEMY AGRICULTURAL SCIENCES

Assignee(s): OF AGRICULTURAL RESOURCES AND ENVIRONMENT SHANDONG ACADEMY OF AGRICULTURAL SCIENCES INST ; 山东省农业科学院农业资源与环境研究所

Inventor(s): (std): GONG ZHIYUAN ; HAN JIANDONG ; HUANG CHUNYAN ; LI JIN ; SI CHENGLEI ; SU JIANCHANG ; XIE HONGYAN ; YANG DONG ; YANG PENG ; YAO QIANG ; ZHANG ZHENYU

Inventor(s): 司呈磊 ; 姚强 ; 宫志远 ; 张振宇 ; 李瑾 ; 杨栋 ; 杨鹏 ; 苏建昌 ; 谢红艳 ; 韩建东 ; 黄春燕

Agent(s): 孙宪维 ; 济南竹森知识产权代理有限公司(普通合伙) 37270

3) Family number: 3237013 (FR2249317 A1) © PatBase

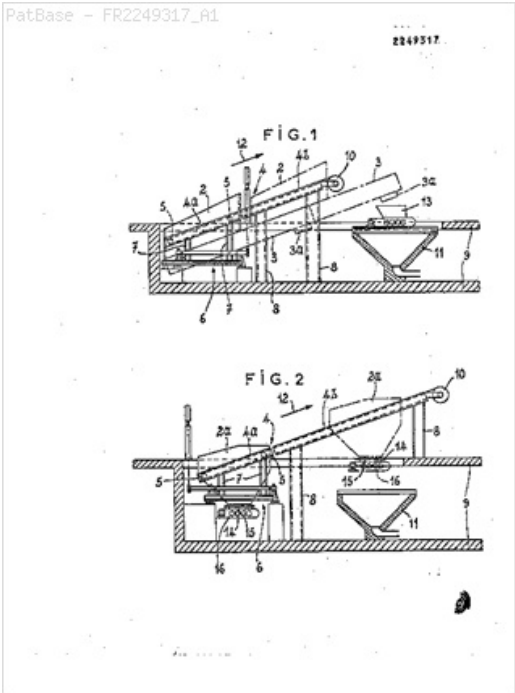
Title: HARVEST WEIGHING EQUIPMENT - RECEIVES HARVEST IN BIN FOR WEIGHING AND TRANSFERS HARVEST TO COLLECTORS

Abstract: The harvest weighing equipment has a bin (2) which can receive the amount of harvest to be weighed. The bin (2) takes up a first position on a ramp (4a) which transmits the load to a weighing platform (6). The weight of the amount of

harvest in the bin is then determined. The bin is then moved onto another ramp (4b), in line with the first ramp, by means of a cable and pulley (10). At this second position of the bin, its content is emptied into a collector (11) by means of a screw conveyor (3) parallel with the ramps. This equipment provides one working station for the weighing and for the loading into silos of the harvest.

Classifications:

International (IPC 8-9): C12G1/00 G01G13/00
International (IPC 1-7): A01G19/00 G01G17/06
CPC: C12G1/005 G01G13/003



Family:

Publication number	Publication date	Application number	Application date
FR2249317 A1	19750523	FR19730039141	19731029
FR2249317 B1	19770527	FR19730039141	19731029

Priority:

FR19730039141 19731029

Probable Assignee: LICHTFOUSE PIERRE
Assignee(s): (std): LICHTFOUSE PIERRE
Assignee(s): LICHTFOUSE PIERRE FR

4) Family number: 21108591 (DE654352 A)

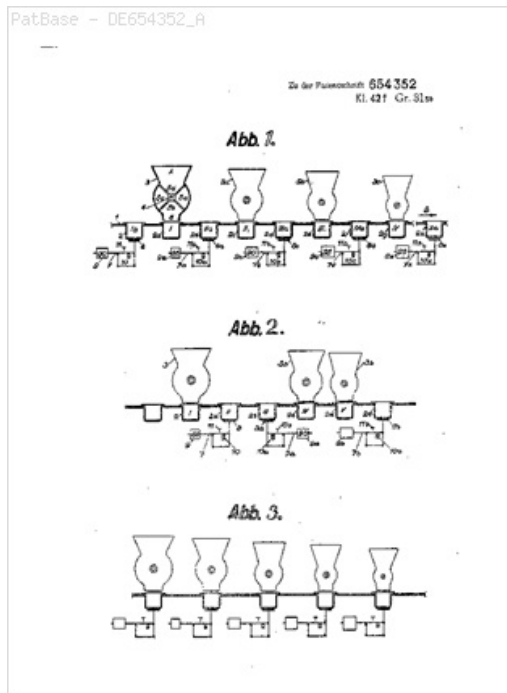
© PatBase

Title: METHOD FOR CURRENT SELBSTTÄTIGEN WEIGH OF Weighed Items (Machine translation)

Abstract: Source: DE654352 A **Machine translation:** (claim 1) 1. PATE \ TAXSPRUECHL 'i method for ongoing self methods weighing weigh items in the cargo trays for gradual succession over the target weight set weights approaching, more and more fixed scales of time and under' from these scales controlled Zugabev will pass led orrichtungen, the latter of what the cargo trays are supplied to reach the Sollfuellung with shrinking premiums, characterized in that the individual weighing gutzugaben by means known per se, raummaessig staggered and therefore GE wichtsmaessig wertuen between two Crenz @ lying and allocated to the herworgerutetien gestrebte target weight as a result of the fixed scales of the non-action or we kens of the individual scales nicely mapped. has to be based inessenen metering devices without Rueck-view is reached on the number of effective metering equipment that has become NEN. for the exercise of the device of claim proceedings Ver i, daedurcli - e-denotes that the test of a metering device and the associated emitted Wiegegutmetige more appropriate to some device not affecting balance between these two Zuteilvor directions (Fig. i) or directly bar is disposed with the further Zuteilvorrichtung (Fig. 3). Third - Device for exercise of the Ver procedure of claim i in -,label records. that that of a arbiter, - no direction emitted Wiegegutmenge jirii-concerned and the associated further influence to some devices Waaguen groups arranged sequentially and are followed by the corresponding group-wise arranged Zuteilvorrichtungen (Fig. a) .

Classifications:

International (IPC 8-9): G01G15/00 G01G15/02
International (IPC 1-7): A01G31/02 G01G15/02
CPC: G01G15/02

**Family:**

Publication number	Publication date	Application number	Application date
DE654352 A	19371223	DE1933P068522D	19331121

Priority:

DE1933P068522 19331121

Probable Assignee:

VLADIMIR DMITRIJEVIC POPOV

Assignee(s): (std):

VLADIMIR DMITRIJEVIC POPOV

5) Family number: 72481824 (US2018359968 AA)

© PatBase

Title: SYSTEMS AND METHODS FOR TRACKING SEEDS IN AN ASSEMBLY LINE GROW POD

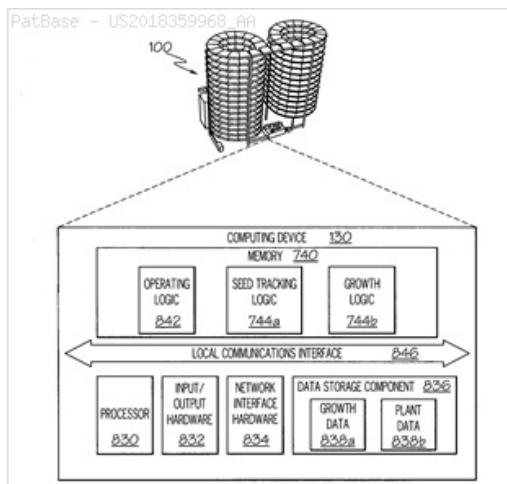
Abstract: A method for tracking seeds in an assembly line grow pod having a plurality of carts is provided. A target seed is deposited in a selected cell which is a part of a selected tray located in a selected cart travelling on an assembly line grow pod. A position of the target seed is tracked in the selected cell by determining the position of the target seed in the selected cart and determining a position of the selected cart in the assembly line grow pod. Sustenance is provided to the target seed including the selected cell. A growth factor of the target seed is determined in the selected cell. Upon determination that the growth factor of the target seed in the selected cell is below a predetermined threshold, supply of the sustenance provided to the selected cell is adjusted.

Classifications:

International (IPC 8-9): A01G27/00 A01G31/04 A01G7/06 A01G9/00 A01G9/08 A01G9/14 A01G9/24 A01G9/26 G01G11/04 G01N21/17 G01N21/25 G01N21/31 G01N21/84 G01N33/00 G01N5/02 G06Q50/02

CPC: A01G31/04 A01G31/042 A01G9/081 A01G9/088 A01G9/14 A01G9/143 G01G11/043 G01N2021/1776 G01N2021/8416 G01N2021/8466 G01N21/251 G01N21/314 G01N5/02 Y02A40/25 Y02P60/21 A01G27/003 A01G9/006 A01G9/085 A01G9/247 A01G9/26 G06Q50/02 G01N33/0098

US: 1/1 47/1.7 47/65

**Family:**

Publication number	Publication date	Application number	Application date
AR112149 AA	20190925	AR2018P101651	20180614
AR112150 AA	20190925	AR2018P101653	20180614
AU2018282527 AA	20200206	AU20180282527	20180524
AU2018286469 AA	20200206	AU20180286469	20180522
CA3069916 AA	20200114	CA20183069916	20180524
CA3074558 AA	20200302	CA20183074558	20180522
EP3637989 A1	20200422	EP20180730585	20180522
EP3637990 A1	20200422	EP20180731294	20180524
IN202027001606 A	20200124	IN202027001606	20200114

IN202047001568 A	20200124	IN202047001568	20200114
KR20200028946 A	20200317	KR20207001207	20180522
KR20200029459 A	20200318	KR20207001172	20180524
TW201904387 A	20190201	TW20180117899	20180525
TW201905823 A	20190201	TW20180118927	20180601
US2018359968 AA	20181220	US20180983799	20180522
US2018359974 AA	20181220	US20180985503	20180521
WO18231439 A1	20181220	WO2018US33786	20180522
WO18231492 A1	20181220	WO2018US34396	20180524

Priority:

US20170519660P 20170614 US20170519320P 20170614 US20180983799 20180517
US20180985503 20180521 WO2018US33786 20180522 US20180983799 20180522
WO2018US34396 20180524

Probable Assignee: GROW SOLUTIONS TECH LLC

Assignee(s): (std): GROW SOLUTIONS TECH LLC

Assignee(s): HURST MICHAEL STEPHEN ; MILLAR GARY BRET ; 美商成長方案科技有限責任公司 ; 그로우 솔루션즈 테크 엘엘씨

Inventor(s): (std): HURST MICHAEL STEPHEN ; MILLAR GARY BRET

Inventor(s): 米勒 蓋瑞 布瑞特 ; 赫斯特 麥可 史蒂芬 ; 밀러 개리 브렛 ; 허스트 마이클 스티븐

Agent(s): MURRAY TRENTO AND ASSOCIATES PTY LTD; ROBIC; SHIN MIYOUNG ET AL; ZACCO SWEDEN AB; 陳長文; 리앤목록허법인

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 JP 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 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

6) Family number: 65315459 (US2017086394 AA)

© PatBase

Title: CUT TREE INFORMATION SYSTEM

Abstract: A logging information system includes a felling machine that includes a first global positioning system receiver and a sensor configured to measure an orientation of a felling head operably connected to the felling machine, and an information system controller operable to estimate a cut tree location based on a measured global position of the felling machine and a measured orientation of the felling head of the felling machine.

Classifications:

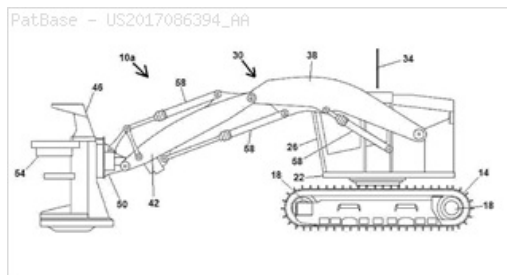
International (IPC 8-9): A01G23/08 G01B5/08 G01C19/00

G01C21/00 G01C21/34 G01G19/08 G01P15/00 G01S19/00

G01S19/13 G01S19/42 G07C5/00 H04W4/02

CPC: A01G23/08 H04W4/023

US: 1/1 701/50



Family:

Publication number	Publication date	Application number	Application date
CA2943902 AA	20170330	CA20162943902	20160930
FI20165731 A	20170331	FI20160005731	20160929
SE201651274 A1	20170331	SE20160051274	20160929
US2017086394 AA	20170330	US20160282228	20160930

Priority:

US20150235448P 20150930 US20160282228 20160930

Probable Assignee: DEERE AND CO

Assignee(s): (std): DEERE AND CO

Assignee(s): NEUMANN BRYON P

Inventor(s): (std): BRYON P NEUMANN ; NEUMANN BRYON ; NEUMANN BRYON P

Agent(s): BORDEN LADNER GERVAIS LLP

7) Family number: 61319530 (EP2962550 A1)

© PatBase

Title: A TRANSPORT DEVICE COMPRISING A STRAIN SENSOR

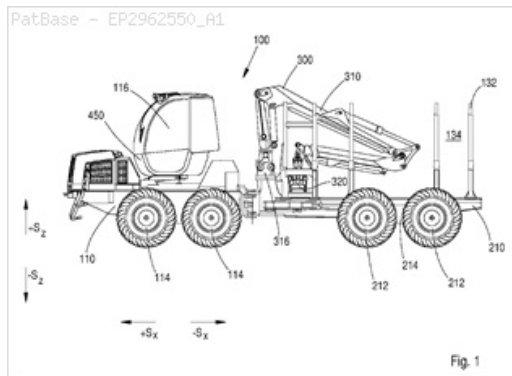
Abstract: A transport device (100) which is, unloaded and loaded, configured to travel in its longitudinal direction on the ground. The transport device (100) comprises a frame (220) extending in said longitudinal direction (plus or minus Sx), a transverse axle (220) transverse to said longitudinal direction (plus or minus Sx), and a first strain sensor (411) arranged in or on said transverse axle (220). The first strain sensor (411) is arranged in a location that is fixed in relation to said frame (210) or is fastened to said frame (210) in a stationary manner and is above or below the centre line (CT) of the transverse axle (220). In such a transport device (100), said first strain sensor (411) is configured to measure the elongation of said transverse axle (220) in said location, and the quantity of the load of the transport device (100) can be calculated on the basis of a signal or response from the first strain sensor (411).

Classifications:

International (IPC 8-9): A01G23/00 B60P1/00 G01G19/08

G01G3/14

CPC: A01G23/00 A01G23/003 G01G19/083



Family:

Publication number	Publication date	Application number	Application date
EP2962550 A1	20160106	EP20150397530	20150617
FI20145648 A	20160104	FI20140005648	20140703

Priority:

FI20140005648 20140703

Probable Assignee: DEERE AND CO

Assignee(s): (std): DEERE AND CO ; JOHN DEERE FORESTRY OY

Inventor(s): (std): HAEMAELEINEN REIJO ; JAEMSAE JOUNI ; PAAKKINEN MARKO

Agent(s): TAMPEREEN PATENTTITOIMISTO OY

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

8) Family number: 52134437 (US2012260569 AA)

© PatBase

Title: AUTOMATED GRAVIMETRIC SCREENING PLATFORM SYSTEM AND METHOD

Abstract: An automated gravimetric screening system and method controls soil moisture in a plurality of potted plants to perform water deficit experiments in a greenhouse using a stationary support platform and pot design that maintains the plants in a static location during the testing. By weighing and re-watering the pots from beneath the platform, the present system and method permits an upper gantry to capture high resolution images, temperature data, or other sensor data to quantify the plant stress level or plant canopy characteristics during the experiment.

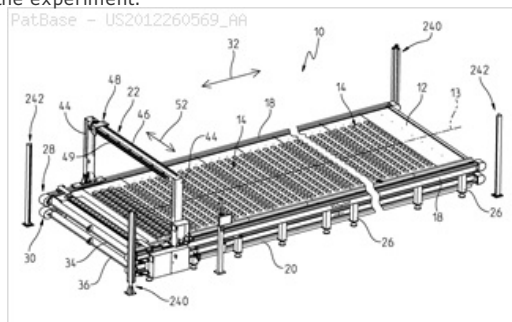
Classifications:

International (IPC 8-9): A01G A01G25/16 A01G27/00 A01G27/02 A01G31/02 A01G31/06 A01G7/00 A01G9/02 A01G9/08 A01G9/24 G01G19/00 G01G19/387

CPC: A01G25/167 A01G27/003 A01G27/02 A01G7/00 A01G9/02

A01G9/088 A01G9/143 A01G9/247 Y02A40/25

US: 1/1 47/65 47/65.5 47/66.6 47/66.7 47/79



Family:

Publication number	Publication date	Application number	Application date
AR086077 AA	20131120	AR2012P101263	20120412
AU2012250114 AA	20130221	AU20120250114	20120411
AU2012250114 BB	20141106	AU20120250114	20120411
AU2014262298 AA	20141204	AU20140262298	20141117
AU2014262298 BB	20170302	AU20140262298	20141117
BR102012008743 A2	20140513	BR20121008743	20120413
CA2832878 AA	20131009	CA20122832878	20120411
CN103747668 A	20140423	CN201280029134	20120411
CN103747668 B	20160817	CN201280029134	20120411
CN106234171 A	20161221	CN201610546515	20120411
DE602012046586 D1	20180614	DE201260046586T	20120411
EP2696670 A1	20140219	EP20120715283	20120411
EP2696670 B1	20180523	EP20120715283	20120411
HK1193004 A1	20140912	HK20140106475	20140627
HK1193004 B	20171103	HK20140106475	20140627
IN08573DN2013 A	20141219	IN2013DN08573	20131003
MX2013012049 A1	20131216	MX20130012049	20120411
MX339210 B	20160512	MX20130012049	20120411
NZ615992 A	20151127	NZ20120615992	20120411
NZ713640 A	20170224	NZ20120713640	20120411
RU2013150820 A	20150520	RU20130150820	20120411
RU2593906 C2	20160810	RU20130150820	20120411
TW201249330 A	20121216	TW20120112995	20120412
UA113171 C2	20161226	UA20130013265	20120411

US2012260569 AA	20121018	US20120444095	20120411
US2015068119 AA	20150312	US20140540695	20141113
US2015068120 AA	20150312	US20140540706	20141113
US8955252 BB	20150217	US20120444095	20120411
US9675012 BB	20170613	US20140540695	20141113
US9681611 BB	20170620	US20140540706	20141113
UY34021 A1	20121130	UY20120034021	20120413
WO12148676 A1	20121101	WO2012US33054	20120411
ZA201307258 A	20141223	ZA20130007258	20120411

Priority:

US20110476055P 20110415 WO2012US33054 20120411 AU20120250114 20120411
CN201280029134 20120411 EP20120715283 20120411 NZ20120615992 20120411
US20120444095 20120411 US20140540695 20141113 US20140540706 20141113
AU20140262298 20141117

Probable Assignee: DOW AGROSCIENCES LLC

Assignee(s): (std): DAU AGROSJENSIZ EELSI ; DONALDSON JEFFREY D ; DOW AGROSCIENCES LLC ; DOWN AGROSCIENCES LLC ; GOLGOTIU KRISTI A ; GOLGOTIU KRISTI A ; HERVE PHILIPPE ; KELLER DOUGLAS ; SWARTWOOD TROY M

Assignee(s): DOW AGROSCIENCES LLC INDIANAPOLIS ; ДАУ АГРОСАЙЕНСИЗ ЭЛЭЛСИ ; 陶氏益农公司 ; 陶氏益农公司 ; 陶氏農業科學公司

Inventor(s): (std): DONALDSON DZHEFFRI D ; DONALDSON JEFFREY ; DONALDSON JEFFREY D ; DOUGLAS KELLER ; ERVE FILIPP ; GOLGOTIU KRISTI ; GOLGOTIU KRISTI A ; GOLGOTIU KRISTI A ; GOLGOUTYU KERSTI A ; HERVE PHILIPPE ; KELLER DOUGLAS ; KELLER DUGLAS ; PHILIPPE HERVE ; SVORTVUD TROY M ; SWARTWOOD TROY ; SWARTWOOD TROY M

Inventor(s): D 凯勒 ; DONALDSON JEFFREY D TIGARD ; D·凯勒 ; GOLGOTIU KRISTI A OREGON CITY ; J D 唐纳森 ; JEFFREY D DONALDSON ; JEFFREY DONALDSON ; J·D·唐纳森 ; K A 戈尔戈蒂奥 ; KELLER DOUGLAS WEST LINN ; KRISTI A GOLGOTIU ; KRISTI GOLGOTIU ; K·A·戈尔戈蒂奥 ; P 赫维 ; P·赫维 ; SWARTWOOD TROY M SEATTLE ; T M 斯沃特伍德 ; TROY M SWARTWOOD ; TROY SWARTWOOD ; T·M·斯沃特伍德 ; ГОЛГОУТЬЮ КЕРСТИ А ; ДОНАЛЬДСОН ДЖЕФФРИ Д ; КЕЛЛЕР ДУГЛАС ; СВОРТВУД ТРОЙ М ; ЭРВЕ ФИЛИПП ; 凯勒 道格拉斯 ; 史瓦特伍德 特洛伊M ; 唐纳森 傑佛瑞D ; 葛果圖 克里斯堤A ; 赫夫 菲利普

Agent(s): ARMSTRONG IAIN CHESHIRE ; E J ; ERIC J ; FAEGRE BAKER DANIELS LLP ; FPA PATENT ATTORNEYS PTY LTD ; FREEHILLS PATENT ATTORNEYS ; HGF LTD ; LIU SHEN AND ASSOCIATES ; NIEDNAGEL TIMOTHY E ; SMART AND BIGGAR ; 刘彬 ; 北京市嘉元知识产权代理有限公司(特殊普通合伙) 11484 ; 北京市柳沈律师事务所 11105 ; 张永新 ; 譚軼群 ; 葛飞

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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

9) Family number: 54076299 (PL120511 U1)

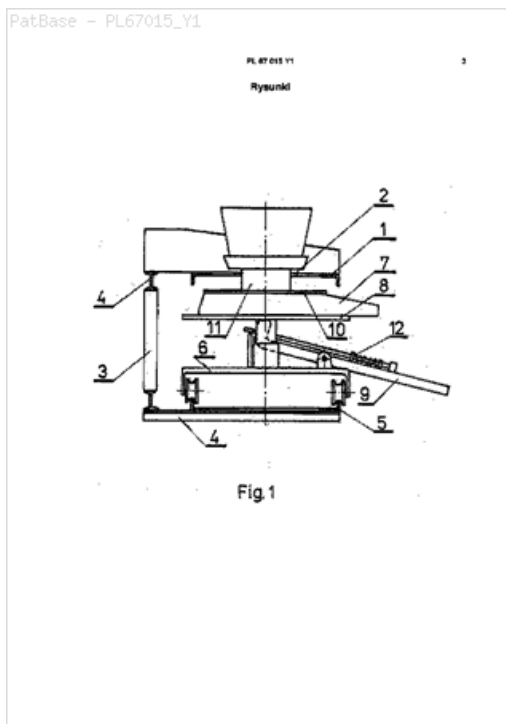
© PatBase

Title: DEVICE FOR MONITORING THE FOOD WEIGHT LOSS IN CULTIVATION PLANTS

Abstract: Source: PL120511 U1 **Machine translation:** The utility model is a device to control the weight loss food in the Experimental cultivation of plants, composed of a trolley with weighing device, which is characterized in that it has stol (1) provided with holes (2), provided that it moved the track (5) using Running (6) Device weight (7) of the pan (10) is provided in the Overlay (11), placed on a platform (8) and raised with the platform (8) by means of an articulated lever (9).

Classifications:

International (IPC 8-9): A01G9/00 G01G19/00



Family:

Publication number	Publication date	Application number	Application date

PL120511 U1	20130527	PL20110120511U	20111118
PL67015 Y1	20140228	PL20110120511U	20111118

Priority:

PL20110120511U 20111118

Probable Assignee: INST UPRAWY NAWOZENIA I GLEBOZNAWSTWA

Assignee(s): (std): INST UPRAWY NAWOZENIA I GLEBOZNAWSTWA

Assignee(s): INSTYTUT UPRAWY NAWOZENIA I GLEBOZNAWSTWA PANSTWOWY INSTYTUT BADAWCZY ; UPRAWY NAWOZENIA I GLEBOZNAWSTWA PANSTWOWY BADAWCZY INST

Inventor(s): (std): PECIO ALICJA ; STASIAK MIECZYSLAW

Inventor(s): STASIAK MIECZYSLAW

10) Family number: 3794478 (GB1348371 A)

© PatBase

Title: DEVICES FOR AUTOMATICALLY CONTROLLING THE WATERING OF PLANTS

Abstract: 1348371 Valves F O G RIDDIFORD 6 May 1971 [6 Feb 1970] 5913/70 Addition to 1192424 Heading F2V [Also in Divisions A1 and G1] A valve controlling the automatic watering of seeds and plants has a closure member defined by one limb of a bent strip 16 co-operable with seat 18 in conduit 4 to control flow through passage 17, the other limb of the strip 16 carrying a first permanent magnet 3, co-operable with a second permanent magnet 10 carried by a lever 6 pivoted at 7. In one mode of use, lever 6 carries an absorbent pad 9 and is biased by counterweight 8 to position magnet 10 with its poles adjacent unlike poles of magnet 3 so that the strip rotates counterclockwise to allow flow to the seeds c. at 14. Water also flows at 12 on to pad 9 the weight of which is eventually sufficient to rotate lever 6 clockwise to close the valve by orientating magnet 10 with its poles adjacent like poles of magnet 3. When the pad is lightened by evaporation, the valve automatically reopens and the cycle repeats. Rotatable eccentric magnet 13 provides an adjustable bias. In a modification, lever 16 is replaced by a pivoted wire frame carrying a metallic or p.t.f.e. closure ball which, when unseated, engages a cam track to urge the two magnets together. In another modification, a lever equivalent to lever 16 engages a rotary ball closure member. In other modes of use, the pad 9, which may be corrugated or pleated, can be in contact with the growing medium or dip into the water in a plant container. The pad might also be replaced by a seed or plant tray or by an adjustable, indented, rimmed plate. The valve may alternatively be opened by magnetic repulsion and closed by magnetic attraction. Closure can also be effected by the water pressure or a mechanical bias. The pipe 12 can be omitted if the outlet spray is deflected to fall on to the pad or its replacement.

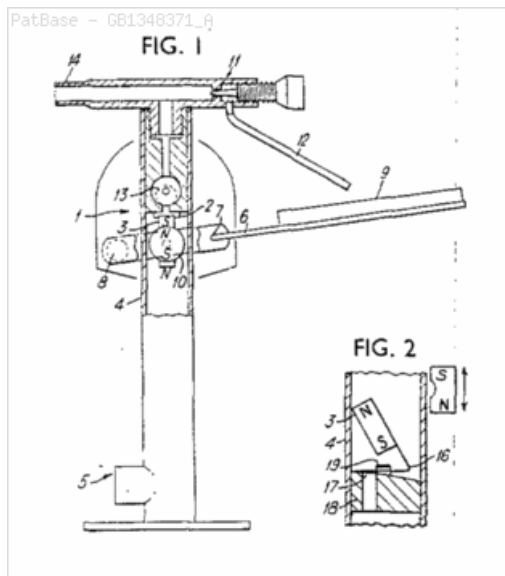
Classifications:

International (IPC 8-9): A01G25/16 F16K31/08

International (IPC 1-7): A01G27/00 F16K21/00 F16K31/08

G01G17/06

CPC: A01G25/167 F16K31/086



Family:

Publication number	Publication date	Application number	Application date
GB1348371 A	19740313		19710506

Priority:

GB19700005913 19710506

Probable Assignee:

RIDDIFORD F O G

Assignee(s): (std):

RIDDIFORD F O G

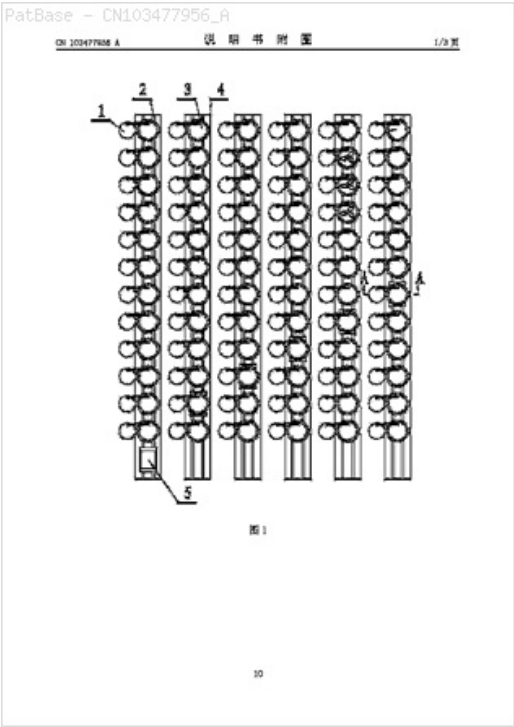
11) Family number: 55538599 (CN103477956 A)

© PatBase

Title: AUTOMATIC MEASUREMENT AND IRRIGATION SYSTEM AND METHOD FOR POT EXPERIMENT

Abstract: The invention relates to an automatic measurement and irrigation system and method for a pot experiment. The automatic measurement and irrigation system comprises a plurality of pots which are placed on a pot support; the plurality of pots are arranged along a straight line to form a row; row arrangement of a plurality of groups of pots forms a pot matrix; water injection pipes which are connected with respective water supply devices are inserted into the pots respectively; tracks for weight measuring trolleys to move on are arranged under rows and columns of the plurality of groups of pots; every track is provided with one of the weight measuring trolleys; every weight measuring trolley is provided with an operating mechanism and a lifting mechanism which is provided with a weight measuring platform. According to the automatic measurement and irrigation system and method for the pot experiment, the mode that weight measurement is performed on one row or one column of pots in the pot matrix through the weight measuring trolleys in turn is adopted and accordingly the number of weight measuring sensors is greatly reduced, the weight measuring accuracy is improved, and meanwhile the calibration maintenance cost of the weight measuring sensors is greatly reduced and the pot experiment can be accurate, the operation can be convenient, the experiment process can be easy to control, and the experiment cost can be controlled at a low level due to the weight measuring trolleys and a water injection device which is controlled by a computer.

Classifications:
International (IPC 8-9): A01G25/16 G01G19/00



Family:

Publication number	Publication date	Application number	Application date
CN103477956 A	20140101	CN201310437334	20130924
CN103477956 B	20150401	CN201310437334	20130924

Priority:

CN201310437334 20130924

Probable Assignee: CN INST WATER RESOURCES AND HYDR

Assignee(s): (std): CHINA INST OF WATER RESOURCES AND HYDROPOWER RESEARCH ; CN INST WATER RESOURCES AND HYDR

Assignee(s): 中国水利水电科学研究院

Inventor(s): (std): CHEN GENFA ; DING XIANGYI ; GAN YONGDE ; GONG JIAGUO ; LIANG LILI ; YANG GUIYU ; YE YUNTAO

Inventor(s): 丁相毅 ; 冶运涛 ; 杨贵羽 ; 梁犁丽 ; 甘永德 ; 陈根发 ; 龚家国

Agent(s): 北京国林贸知识产权代理有限公司 11001; 袁建水