



New connection on: : 27-10-2018 : 01:42:48 - Last disconnection on: : 25-10-2018 : 05:54:12

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

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 Database: EPODOC

[EPODOC: SS 1] strawberry and picker

Results in EPODOC 13

[SS 2] ..v

[EPODOC: SS 2] ..LI



1/13 © EPODOC / EPO

PN - [CN108207332](#) A 20180629

PR - CN201810256558 20180327

AP - CN201810256558 20180327

DT - I

CNOI - [A01D46/30](#) ; [B25J15/10](#) ; [B25J19/00](#) ; [B25J19/02](#)

PA - UNIVZHENGZHOU

TI - Flexible **strawberry picker** and full-automatic **strawberry** picking spider cart using same

AB - The invention provides a low-cost flexible **strawberry picker** and a full-automatic **strawberry** picking spider cart. The flexible **strawberry picker** comprises a base, wherein at least three four-bar linkages with the same structure are circumferentially arranged on the base; each four-bar linkage comprises a main arm, a finger section, an auxiliary arm and a base which are sequentially articulated; the tail end of the finger section extends downward to form a clamping end, and the clamping ends of three finger sections are arranged oppositely; the upper end of the main arm is articulated with the base, and an elastic tension device is arranged between the auxiliary arm and the base; and a pull rope drive device is arranged between the main arm and the base. A camera is arranged on the **picker** to realize automatic identification, and an ultrasonic positioning device is arranged to determine the position, so that ripe strawberries can be automatically identified while the distance is determined. The clamping ends can be flexibly closed and

opened at the same time, and also serve as buffer devices to prevent from damaging the strawberries while the cost is low. The clamping ends are flat clamping devices which prevent clamping failure and is easy to control; and the **picker** is arranged on a delta mechanical arm and a walking device and can walk and move automatically.

2/13 © EPODOC / EPO

PN - [CN206835674U](#) U 20180105
 PR - CN20172705436U 20170617
 AP - CN20172705436U 20170617
 DT - I
 PA - UNIVSOUTHWESTPETROLEUM
 TI - Novel fruit **picker**
 AB - The utility model relates to a novel fruit **picker** is mainly become with tensioning wheel set by support, conveying chain, micro motor, blade, driven sprocket, handle, switch, drive sprocket, decelerator, motor, power. The conveying chain opens when meshing with driven sprocket, catches on the fruit stalk of fruit such as **strawberry**, cherry to cut off the fruit stalk through rotatory blade, conveying chain and driven sprocket after -separating are closed, carry the fruit and obstruct and transport fruit, the conveying chain opens when meshing with drive sprocket once more, puts down fruit to realize the harvesting of fruit. This harvesting ware simple structure, convenient operation is fit for supplementary manual type and picks fruit such as cherry, **strawberry**.

3/13 © EPODOC / EPO

PN - [CN107135741](#) A 20170908
 PR - CN20171459892 20170617
 AP - CN20171459892 20170617
 DT - I
 CNOI - [A01D46/253](#)
 PA - UNIVSOUTHWESTPETROLEUM
 TI - Novel fruit **picker**
 AB - The invention relates to a novel fruit **picker**, mainly comprising a support, a conveyer chain, a miniature motor, blades, a driven sprocket, a handle, a switch, a driving sprocket, a speed reducer, a motor, a power supply and a tension wheel; the conveyer chain opens when meshing with the driven sprocket, thereby hooking stems of fruits such as **strawberry** and cherry, and cutting off the stems through the rotating blades; the conveyer chain closes after disengaging with the driven sprocket, thereby clamping the stems and conveying the fruits; the conveyer chain opens again when meshing with the driving sprocket, thereby lowering the fruits to finish picking of the fruits. The novel fruit **picker** is simple in structure, convenient to operate and suitable for assisting manual modes in picking the fruits such as cherry and **strawberry**.

4/13 © EPODOC / EPO

PN - [CN106143735](#) A 20161123
 PR - CN20161466454 20160618
 AP - CN20161466454 20160618
 DT - I

CNOI - [A01D46/00](#) ; [A01D46/22](#) ; [B62K5/02](#)
CNOA - [B62K2204/00](#)
PA - HUANG YINTAO
TI - **Strawberry picker** vehicle
AB - The invention relates to a **strawberry picker** vehicle designed to solve the technical problem that existing like products are inconvenient to fold and assemble and disassemble and have a singular mode of seat position and height adjustment as well as use. A frame of the **picker** frame includes a head frame and an underframe, travelling wheels include a front motor wheel and rear travelling wheels, one end of the underframe is connected with the head frame, the front motor wheel is disposed at the head frame, a seat is disposed at a seat frame, and a battery is connected with the front motor wheel and a control switch through a circuit; the **strawberry picker** vehicle is characterized in that the other end of the underframe is connected with a backrest, the rear travelling wheels are disposed symmetrically on two sides of a travelling wheel frame, and the travelling wheel frame is bent in an arc shape and is fixed to the rear of the backrest; the front motor wheel travels in ridge spacing of field ridges, the rear travelling wheels travel across in the ridge spacing of field ridges on two sides of the front motor wheel, and a width of the underframe is less than the ridge spacing of the field ridges; meanwhile, the height of the **picker** vehicle, the height of a handlebar, the backrest and the seat position are adjustable, and the **picker** vehicle can be folded for storage and can be used as a common electric bicycle or a common bicycle.

5/13 © EPODOC / EPO

PN - [CN205485695U](#) U 20160817
PR - CN20162203835U 20160315
AP - CN20162203835U 20160315
DT - I
PA - UNIV ANHUI SCI & TECHNOLOGY
TI - **Strawberry** warmhouse booth intelligent?monitoring control system based on thing networking
AB - The utility model relates to a **strawberry** warmhouse booth intelligent?monitoring control system based on thing networking belongs to intelligent greenhouse big - arch shelter field, and it is as an organic whole that this system collects automatic control, automatic acquisition, automatic processing, carries out real -time monitoring and automatic control through sensor technology, the wireless transport technology of zigBee, artificial intelligence technique etc. To greenhouse environmental parameter. The system mainly includes central treater, light acquisition module, temperature and humidity acquisition module, CO2 concentration collection module etc. According to **strawberry** growth characteristic and requirement, carry out automatic regulation and control to a great deal of factor in the greenhouse, can realize the control to sightseeing **picker** and staff's safety, realize the control of big -arch shelter safety to realize voice broadcast and music instant music, still can realize controlling florescence and the mature phase of **strawberry** according to the characteristic of **strawberry** itself and the poor temperature management technique of quotations utilization of future market, with the demand that satisfies market and the profit of increase peasant household.

6/13 © EPODOC / EPO

PN - [US1551057](#) A 19250825

PR - US19230627406 19230324
 AP - US19230627406 19230324
 DT - *; Rep
 CCI - [A01D46/247](#)
 TI - **Strawberry picker**

7/13 © EPODOC / EPO

PN - [US3964245](#) A 19760622
 PR - US19740506898 19740917
 AP - US19740506898 19740917
 DT - *
 CT - [US1733211](#) A []; [US3084496](#)
 A [];
[US3178873](#) A []; [US3183654](#)
 A [];
[US3635005](#) A []; [US3665687](#)
 A []

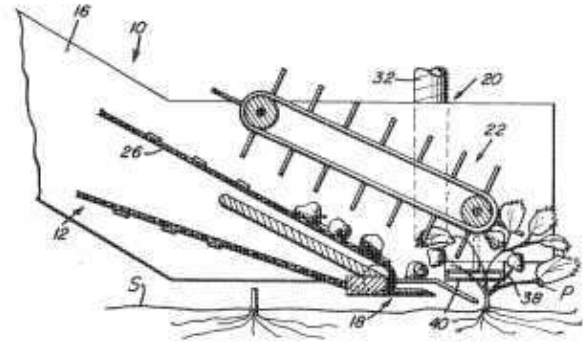
CCI - [A01D46/00](#)

CCA - [Y10S56/08](#)

PA - S K H & S INC

TI - Air pickup system
 for **strawberry** pickers

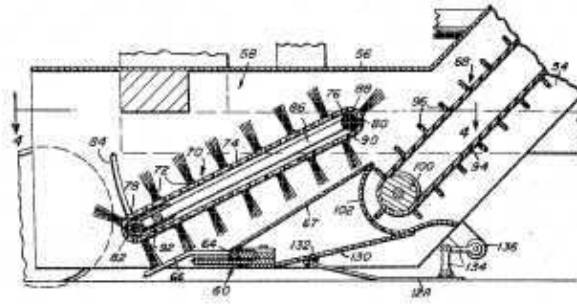
AB - A pickup head for a machine which picks strawberries, and like crops, has a frame moveable along a crop row by a **picker** chassis on which the frame is mountable. A severing assembly is mounted on the frame for cutting a crop in the crop row from a plant associated with the crop. The crop is lifted into the severing assembly by an arrangement including a duct disposed for directing a gaseous stream beneath the crop and lifting same into communication with the severing assembly for cutting of the crop. The gas is directed under pressure just above the ground so as to put pressure against the crop and thereby bringing the crop into communication with the severing assembly.



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PN - [US3698171](#) A 19721017
 PR - US19700068336 19700831
 AP - USD3698171 19700831
 DT - *
 CT - [US3107475](#) A []; [US1907467](#)
 A [];
 [US3307338](#) A []; [US3088264](#)
 A [];
 [GB1144662](#) A []

 CCI - [A01D46/00](#)
 CCA - [Y10S56/15](#)
 PA - CHARLES L HECHT
 TI - MECHANICAL PICKER FOR
 STRAWBERRIES
 AB - A self-propelled **strawberry**
 harvester including a series
 of picking fingers which move
 along close to the ground so
 as to engage under and lift
 the berry clusters for a
 severing thereof from the
 plant by a sickle bar. A leafer
 belt moves the clusters
 rearwardly up onto and along
 the fingers to the sickle bar
 and upwardly therefrom onto
 an upwardly and rearwardly
 inclined conveyor elevator
 which in turn discharges the
 severed clusters onto a
 foraminous belt for
 movement through a cleaning
 unit consisting of an
 underlying blower fan and an
 overlying suction fan. The
 cleaned clusters are
 subsequently discharged into
 a collection box or container.
 The height of the picking head
 is vertically adjustable in
 response to variations in
 ground level. The sickle
 utilizes elongated narrow
 knives and ledger plates on
 equal spacing with the
 picking fingers.



9/13 © EPODOC / EPO

PN - [US3460332](#) A 19690812
 PR - US19660565514 19660715

AP - USD3460332 19660715
 DT - *; Rep
 CT - || STSE (A)
 [US924552](#) A 19090608 [] (LIZZIE E HOLMES [US])
 [US2732675](#) A 19560131 []
 [US2780904](#) A 19570212 [] (FMC CORP)
 [US2780905](#) A 19570212 [] (BRINTON DARLINGTON THOMAS)
 [US2783605](#) A 19570305 [] (HELEEN EDWIN O)
 [US2789408](#) A 19570423 [] (BLOXHAM RALPH H)
 CCI - [A01D46/00](#)
 PA - UNIV IOWA STATE RES FOUND INC
 TI - **STRAWBERRY PICKER**

10/13 © EPODOC / EPO .

PN - [US885569](#) A 19080421
 PR - US19070388519 19070814
 AP - US19070388519 19070814
 DT - I
 CUI - [B26B27/007](#)
 PA - BERGQUIST ARTHUR E [US]
 TI - **STRAWBERRY-PICKER**

11/13 © EPODOC / EPO .

PN - [FR2415949](#) A1 19790831
 PR - FR19780002680 19780131
 AP - FR19780002680 19780131
 DT - *; Rep
 CT - || STSE (A1)
 [FR997603](#) A 19520108 [] (HERBORT MASCHF AUGUST);
 [FR2060671](#) A5 19710618 [] (ATOMIC ENERGY AUTHORITY UK);
 [FR1252022](#) A 19610127 [] (MOBILE MINERAL EXTRACTIONS PTY)
 CCI - [A01G5/00](#) ; [B07B13/11](#)
 PA - DARBONNE STE CIVILE [FR]
 TI - **Picker for strawberry plants** - which are oriented and discharged by centrifuge to conveyor before passing to counting and bundling stations
 AB - Plants are fed singly through a funnel to a centrifuge which throws them out to one or other of two belt conveyors. The larger plants pass to the upper conveyor. Leaves and runners are removed by a cutter, and the plants are counted before collecting at a partition. When the required number of plants have arrived at the partition a jack is operated to discharge them for bundling and then removal on a conveyor.

12/13 © EPODOC / EPO .

PN - [CA258476](#) A 19260302
 PR - CAT258476 00000000
 AP - CAD258476 00000000
 DT - I
 PA - COURSE SIDNEY W

TI - **STRAWBERRY PICKER**

13/13 © EPODOC / EPO

PN - [CA1078192](#) A 19800527

PR - CA19760244498 19760129

AP - CA19760244498 19760129

DT - I

PA - HECHTCHARLES L

TI - AIR PICKUP SYSTEM FOR MECHANICAL **STRAWBERRY** PICKERS

AB - A pickup head for a machine which poicks strawberries, and like crops, has a frame moveable along a crop row by a **picker** chaasis on which the drame is mountable. A severing assembly is mounted on the frame for cutting a crop in the crop row from a plant associated with the crop. The crop is lifted into the severing assembly by an arrangement including a duct disposed for directing a gaseous stream beneath the crop and lifting same into communication with the severing assembly for cutting of the crop. The gas is directed under pressure just above the ground so as to put pressure against the crop and thereby bringing the crop into communication with the severing assembly.

[SS 2]