

18 Documents

Publication numbers	Title	Current assignees
CN107755223 A	Lifting method of corrosion resistance chemical pumps housing	ANHUI TENGLONG PUMP & VALVE MANUFACTURING
CN106348944 A	Ecological fertilizer for killing pests	QINGDAO TAIXING BIOLOGICAL ENGINEERING
US3563399 A	Method for circulating grain stored in a circular bin	SHIVVERS ANITA
CN104359288 A	Wind permeation-type dryer capable of scraping material	HUNAN SUNDY SCIENCE & TECHNOLOGY
CN106766770 A	Wine processing material drying device convenient to clean	
CN105091514 A	Coal sample online drying device based on collecting and manufacturing integration and online drying method	HUNAN SUNDY SCIENCE & TECHNOLOGY
CN104215042 A	Camellia seed drying device	HUNAN SHENNONG CAMELLIA OLEIFERA TECHNOLOGY DEVELOPMENT
CN102989204 A	Material raking device of clarifying tank	BROTHER ENVIRONMENTAL PROT EQUIPMENT ENGINEERING
US3755917 A	Rotary sweep apparatus for drying wet grain	CLAYTON & LAMBERT MANUFACTURING
CN1093458 A	Improved method and apparatus for spreading and drying grain	SHIVVERS
CN204227832U U	Wind permeation type dryer capable of scraping material	HUNAN SUNDY SCIENTIFIC & TECHNOLOGY DEVELOPMENT
CN2519896U Y	Multi-layer rotary type dryer	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE
CN2389337U Y	Filter dryer	JIANYE INSTALLATION ENGINEERIN
CN2114124U U	Multi-layer vertical fluid-bed dryer	ENGINEERING THERMO PHYSICS INS
CN1165072 A	Controlling device share method for robot	ZHU TIANLAI
JP06060788U U	Liquid quantitative feed pump	NIWA SHOJI
JP06060788 A	Piezoelectric relay	SHARP
JP03232539 A	Dryer	SHIYOUSAN ENGINEERING

Family 1/18 - FAMPAT - ©Questel

Title

(CN107755223)

Lifting method of corrosion resistance chemical pumps housing

Publication data including kind & date[CN107755223](#)

A

2018-03-06

CN107755223

**Abstract**

(CN107755223)

The present invention discloses a method for improving the corrosion resistance of the chemical pumps housing, comprising the following steps: (1) a mechanical housing of the blast treatment chemical pumps, controlling the surface roughness of 1.6-3.2 μm , in its surface uniformly sprayed on the modified solution and, drying processing 20-30 min suspension is sprayed on the surface of the housing ; (2) F46 applied chemical pumps, controlling the thickness of the coating 1-2 mm until the coating after drying ; (3), chemical pumps will be placed in the housing at a temperature of 260-270 $^{\circ}\text{C}$ in a furnace, heat treatment 18-22 min post, taken out, put into cold water, chilled to a surface temperature of 150-160 $^{\circ}\text{C}$ at, taken out, cooled to room temperature, processing is complete. The present invention provides a method of corrosion resistance of the chemical pumps up the housing, the operation is simple, low cost, small three waste during production, is environment-friendly, resulting chemical pumps, wherein the fluoroplastic thin film on the surface adhesive bond is stronger, does not fall off easily, and has excellent corrosion resistance, greatly improving the corrosion resistance of the chemical pumps.

Inventors

XU XIANGYUAN

Latest standardized assignees - inventors removed

ANHUI TENGLONG PUMP & VALVE MANUFACTURING

Family 2/18 - FAMPAT - ©Questel

Title

(CN106348944)

Ecological fertilizer for killing pests

Publication data including kind & date[CN106348944](#)

A

2017-01-25

CN106348944

**Abstract**

(CN106348944)

The invention discloses ecological fertilizer for killing pests. The ecological fertilizer consists of the following formula ingredients in parts by weight: 60-80 parts of organic fertilizer, 5-7 parts of active functional bacteria, 45-55 parts of humic scorched earth, 15-25 parts of straw powder, 25-35 parts of microorganism integral fertilizer, 30-50 parts of stems and leaves of plants, 40-50 parts of ecological potash fertilizer and 15-25 parts of bitter tea powder. The ecological fertilizer can perform the function of killing pests and preventing diseases and insect pests, a phenomenon that people kill pests with pesticide can be avoided, and natural environment is protected.

Inventors

QIAN XIN

Latest standardized assignees - inventors removed

QINGDAO TAIXING BIOLOGICAL ENGINEERING

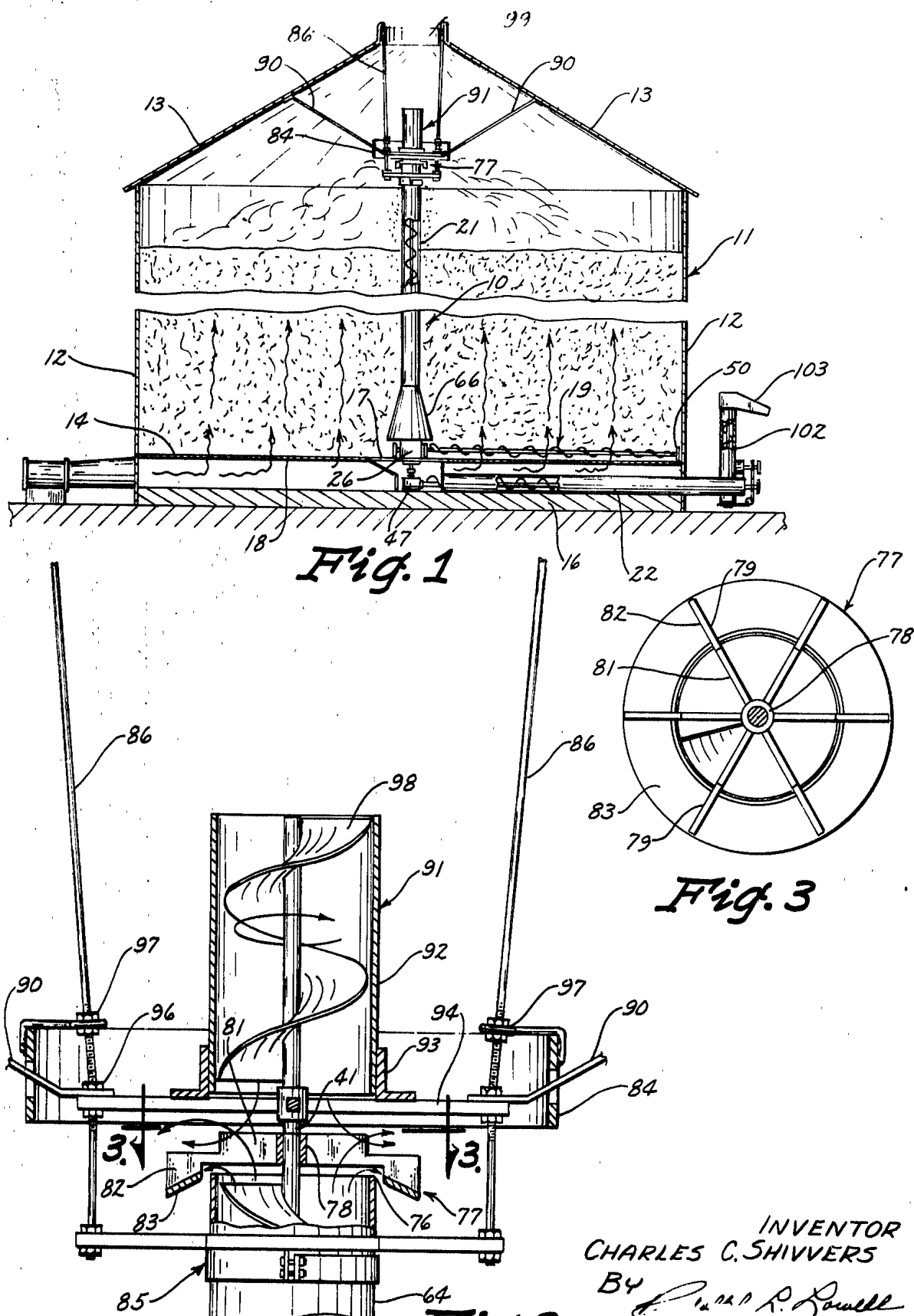
Family 3/18 - FAMPAT - ©Questel

Title[\(US3563399\)](#)

Method for circulating grain stored in a circular bin

Images

SHEET 1 OF 3



Publication data including kind & date

US3563399

A 1971-02-16 US3563399

US3563399

B1 1986-08-12 US3563399

Abstract



(US3563399)

A sweep auger radially mounted within a storage bin is rotatable horizontally across the bin floor about a vertical axis located centrally of the bin. An upright distributing auger arranged coaxially with the vertical axis has its lower end adjacent the inner end of the sweep auger and its upper end spaced from the roof of the bin. The sweep auger is of a construction such that for each complete revolution across the bin floor it moves predetermined volumes of material over given axial sections thereof for delivery to the distributing auger. The material or grain discharged from the distributing auger is spread across the top surface of the grain stored in the bin. All of the grain in the bin is thus acted upon continuously for circulation through the bin for drying purposes. Field grain may be introduced through the roof of the bin for concurrent distribution and circulation with the grain already in the bin. A bin unloading auger is located below the bin floor to receive grain directly from the sweep auger for discharge exteriorly of the bin.

Inventors

SHIVERS CHARLES C

Latest standardized assignees - inventors removed

SHIVVERS ANITA

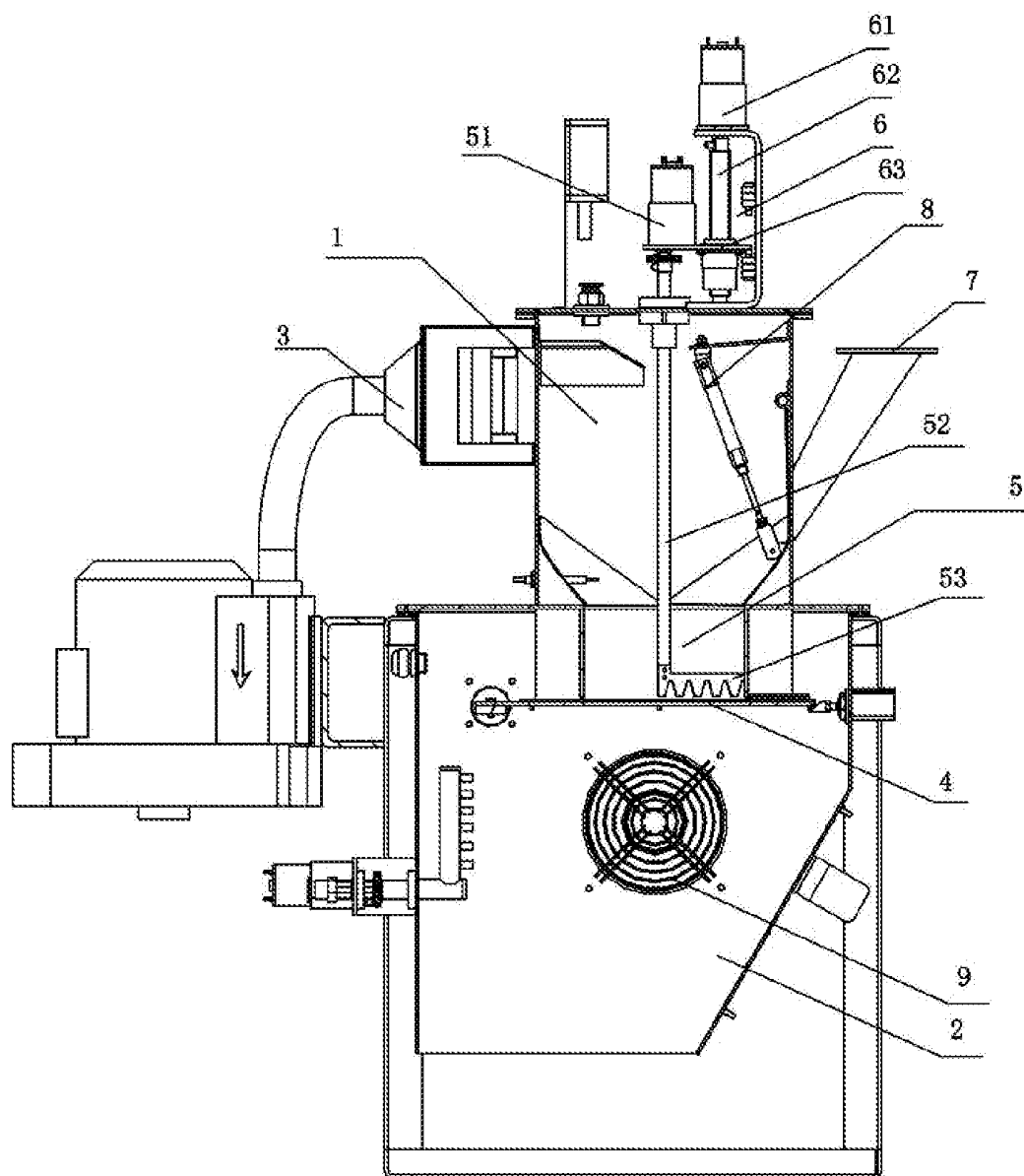
Family 4/18 - FAMPAT - ©Questel

Title

(WO201666105)

Wind permeation-type dryer capable of scraping material

Images



Publication data including kind & date

CN104359288	A	2015-02-18	CN104359288
WO2016066105	A1	2016-05-06	WO201666105
CN104359288	B	2016-09-28	CN104359288B
US2017138667	A1	2017-05-18	US20170138667
AU2015341148	A1	2017-05-25	AU2015341148



Abstract

(WO201666105)

A wind permeation-type dryer capable of scraping material, comprising a cavity and a heating assembly (3); the cavity comprises an experiment cavity (1) and a dropping cavity (2); the experiment cavity (1) is located above the dropping cavity (2); the heating assembly (3) communicates with the experiment cavity (1) or the dropping cavity (2); the cavity is provided with a sieve tray assembly (4) therein for placing material; the sieve tray assembly (4) is provided with a rotating scraping assembly (5) thereabove for scraping and flattening the material on the sieve tray assembly (4); the rotating scraping assembly (5) comprises a rotating drive piece (51), a rotating rod (52) and a scraping sheet (53); one end of the rotating rod (52) is connected to the rotating drive piece (51), and the other end is connected to the scraping sheet (53) adjacent to the sieve tray assembly (4); the rotating drive piece (51) drives the rotating rod (52) to rotate so as to drive the scraping sheet (53) to rotate together therewith, such that the material contacting the scraping sheet (53) is scraped and flattened. The device has an automatic sample flattening function, ensures the uniformity of sample drying, and increases a

working efficiency.

Inventors

ZHU XIANDE

ZHANG ZHONGTAO

ZHU QING

Latest standardized assignees - inventors removed

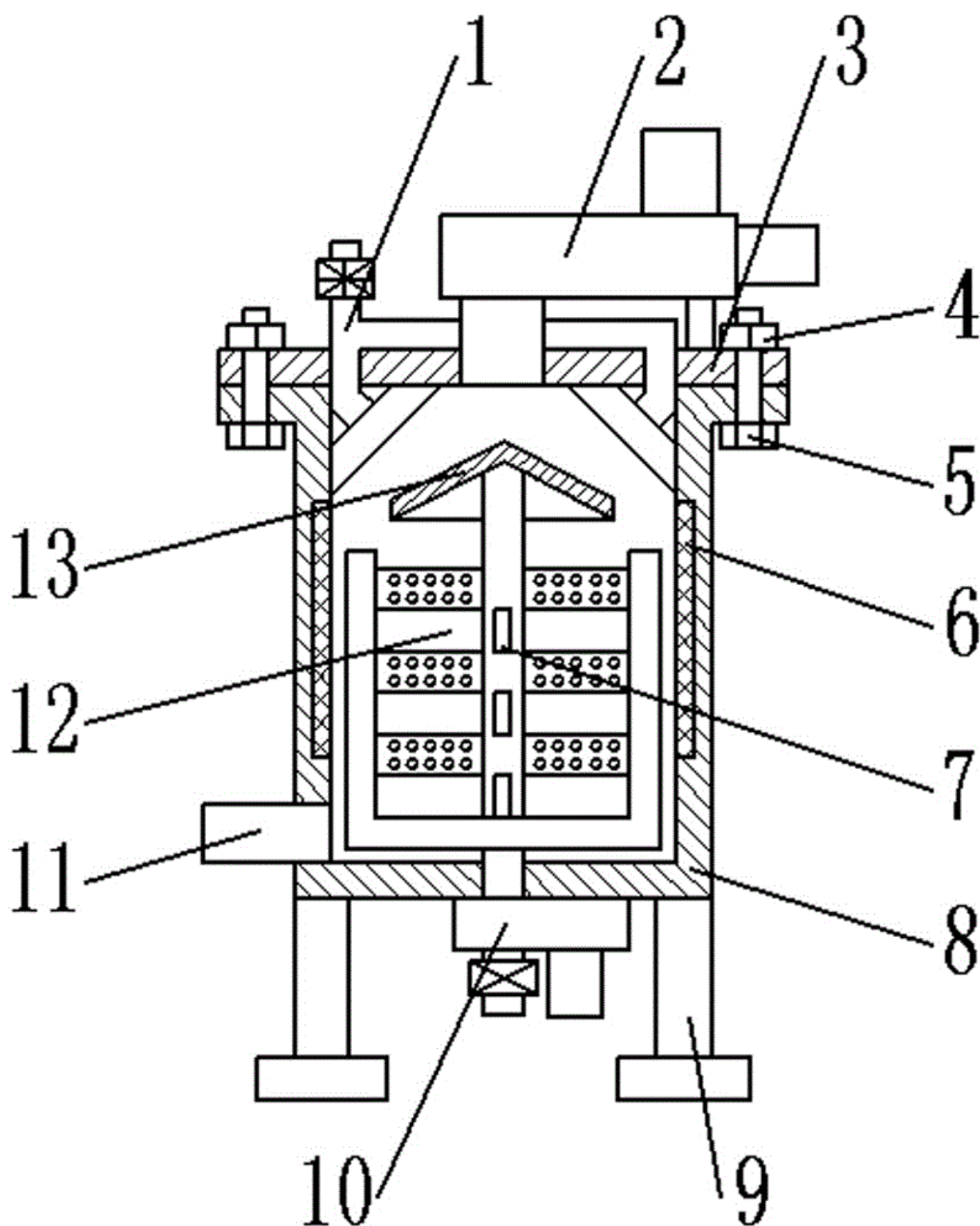
HUNAN SUNDY SCIENCE & TECHNOLOGY

Family 5/18 - FAMPAT - ©Questel

Title

(CN106766770)

Wine processing material drying device convenient to clean

Images

Publication data including kind & date

CN106766770

A

2017-05-31

CN106766770

**Abstract**

(CN106766770)

The invention provides a wine processing material drying device convenient to clean. The wine processing material drying device comprises a tank body and an upper cover, wherein a drying cavity is formed in the tank body; the upper cover is provided with a feeding device and a cleaning device; the feeding device is composed of a conveying pipe and a feeding pipe; the cleaning device is composed of a three-way pipe, a pressure pump, a first nozzle and a second nozzle; a mixing device is arranged in the drying cavity; the mixing device is composed of a mixing shaft, a mixing blade and a scraping plate; the bottom of the mixing shaft is connected with the drying device, and the top of the mixing shaft is fixedly connected with a material guiding disc; the drying device is composed of a driving box, a rotary motor and an air inlet pipe; and an electric heater is inlaid into the inner wall of the tank body. According to the wine processing material drying device, the feeding device is arranged, so that the phenomena of low drying speed and bad drying quality which are caused by adding excessive raw materials once are avoided; the used tank body is cleaned by the cleaning device; materials are mixed by the mixing device; and the raw materials are uniformly heated by the drying device.

Inventors

QING QI

Family 6/18 - FAMPAT - ©Questel

Title

(WO201700883)

Coal sample online drying device based on collecting and manufacturing integration and online drying method

Images

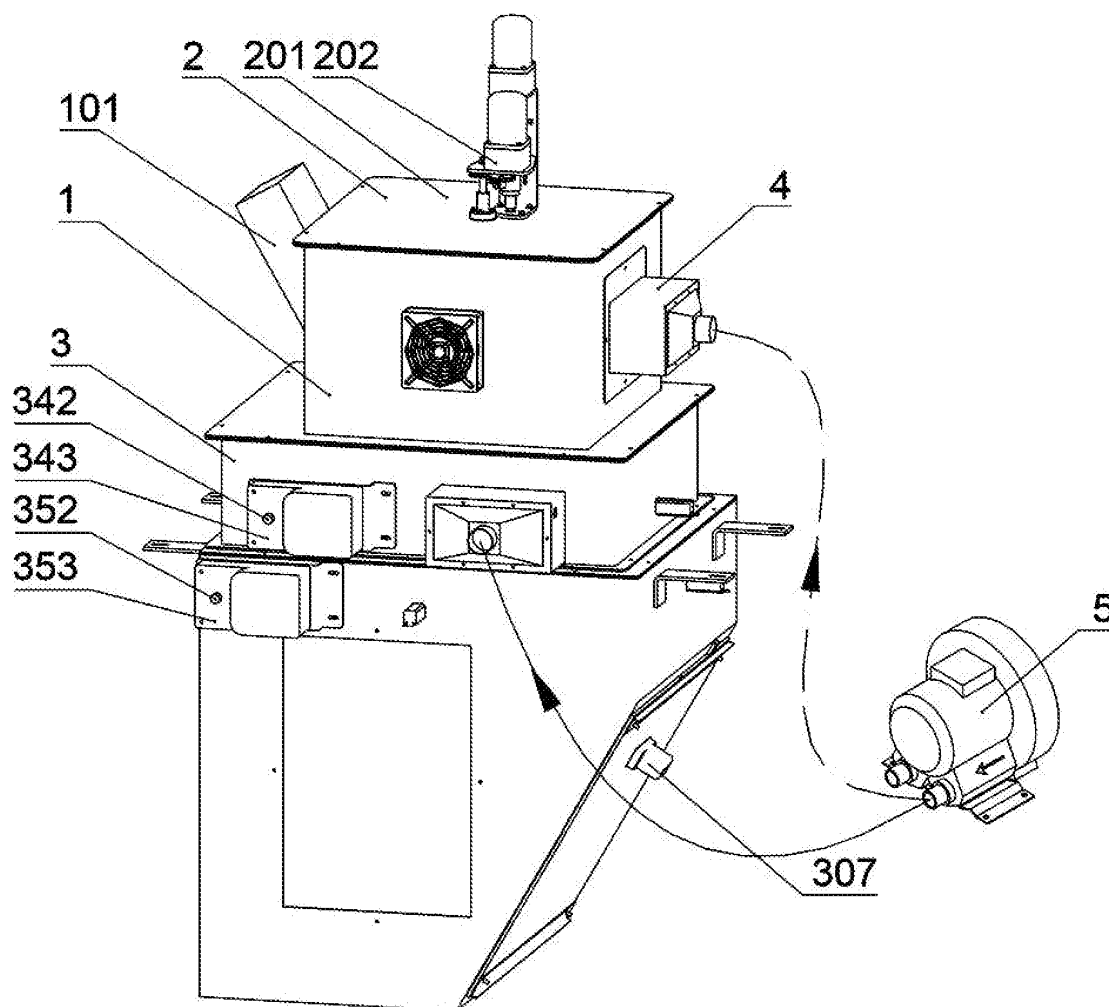


图 1

Publication data including kind & date

CN105091514	A	2015-11-25	CN105091514
WO2017000883	A1	2017-01-05	WO2017000883

**Abstract**

(WO201700883)

Provided are a coal sample online drying device based on collecting and manufacturing integration and an online drying method. The drying device comprises a drying chamber (1), a drying chamber upper cover assembly (2), a material falling chamber (3), a heating assembly (4) and an air blower (5), wherein the drying chamber (1) is used for containing a coal sample to be detected and completing a drying operation, the air blower (5) is used for conveying air heated by the heating assembly (4) into the drying chamber (1), the material falling chamber (3) is located below the drying chamber (1), and the coal sample which has been dried in the drying chamber (1) falls into the material falling chamber (3). The online drying method is a control method based on the online drying device, wherein by means of blowing heating from bottom to top or from top to bottom along with stirring, high pressure air enters the drying chamber (1) via the heating assembly (4) to form a relatively closed space, and the heated high pressure air passes through a coal seam to carry away moisture in the coal sample so as to achieve drying. The drying device is simple and compact in structure, convenient to operate, and high in automation degree.

Inventors

ZHU XIANDE

ZHANG ZHONGTAO

ZHU QING

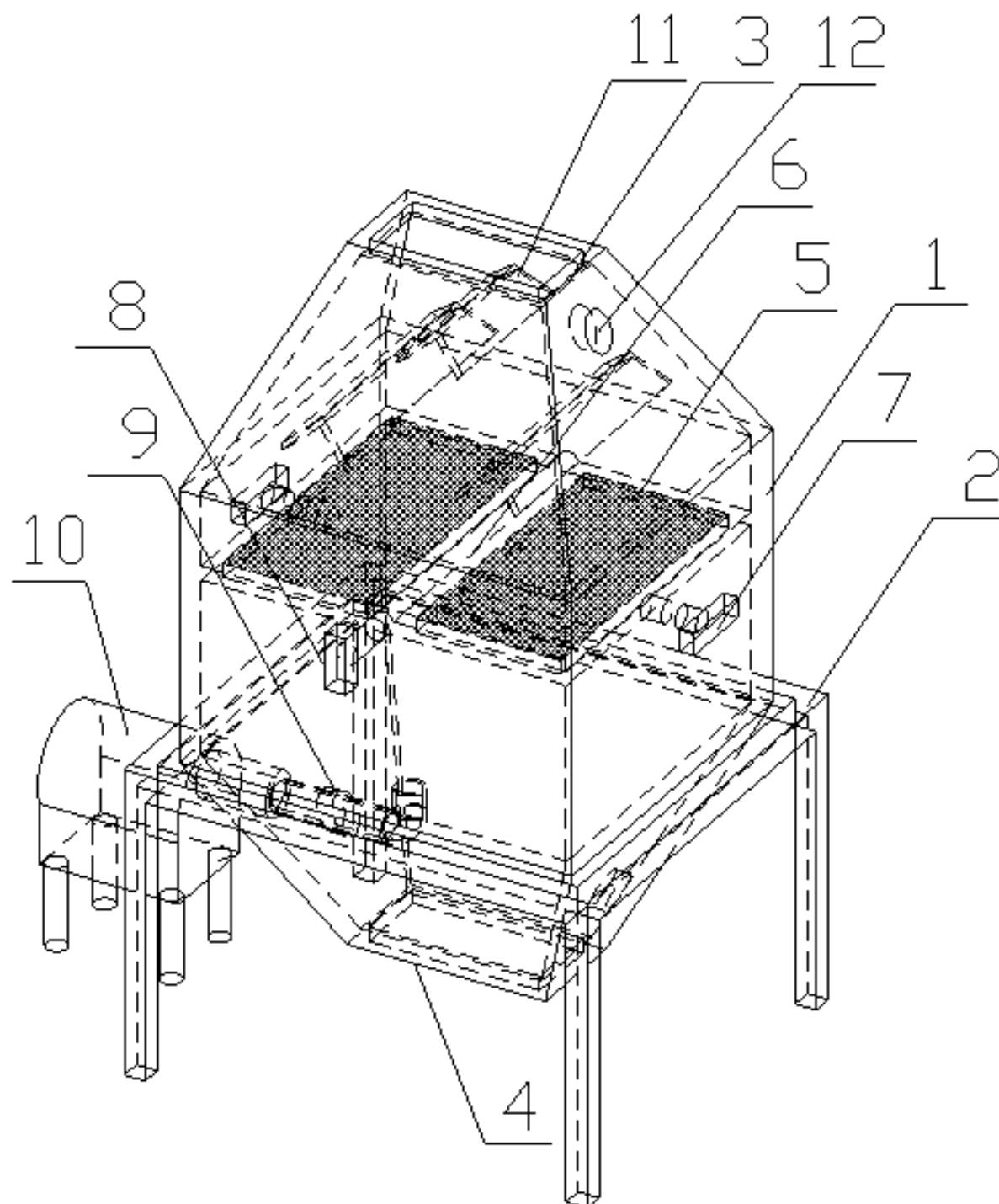
Latest standardized assignees - inventors removed

HUNAN SUNDY SCIENCE & TECHNOLOGY

Family 7/18 - FAMPAT - ©Questel

Title**(CN104215042)**

Camellia seed drying device

Images**Publication data including kind & date**[CN104215042](#)

A

2014-12-17

CN104215042

**Abstract****(CN104215042)**

The invention relates to the field of edible oil processing equipment, in particular to a camellia seed drying device. The camellia seed drying device comprises a drying cylinder and a frame; the drying cylinder is an olive-shaped cylinder and is arranged on the frame; the top of the drying cylinder is provided with a feeding hole, the bottom of the drying cylinder is provided with a discharge hole, and the middle of the drying cylinder is provided with a netty partition; the partition is

connected with the drying cylinder through a rotating shaft; at least two bolts are arranged below the partition and are arranged oppositely; one end of the rotating shaft extends out of the drying cylinder, and the extended part is provided with a rocking handle; the lower part of the drying cylinder is provided with an air inlet, and an electric power heat source air blower is arranged at the air inlet; a distributing guide block is arranged on the upper part of an inner cavity of the drying cylinder and below the feeding hole, and is of a dovetail shape; two ends of the distributing guide block are connected with the inner wall of the drying cylinder; when a plurality of distributing guide blocks are arranged, the distributing guide blocks are distributed in a step shape. The camellia seed drying device is simple in structure, and camellia seeds can be uniformly distributed on the partition, so that the camellia seeds are heated uniformly, the drying effect is better and the efficiency is higher.

Inventors

LI WANYUAN

Latest standardized assignees - inventors removed

HUNAN SHENNONG CAMELLIA OLEIFERA TECHNOLOGY DEVELOPMENT

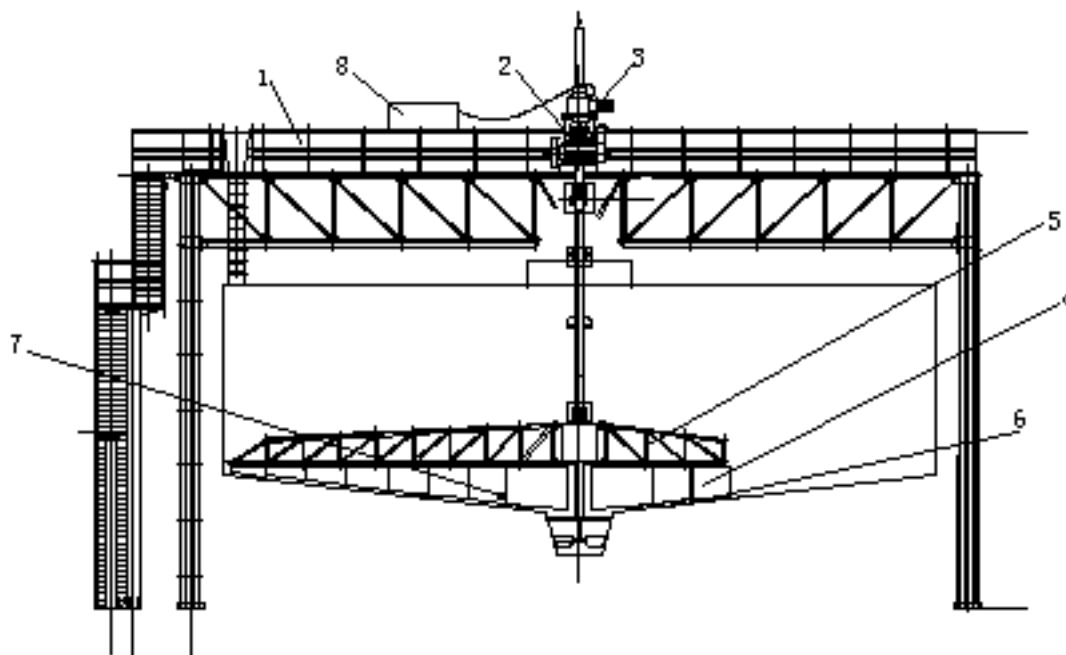
Family 8/18 - FAMPAT - ©Questel

Title

(CN102989204)

Material raking device of clarifying tank

Images



Publication data including kind & date

CN102989204

A

2013-03-27

CN102989204



Abstract

(CN102989204)

The invention relates to a material raking device of a clarifying tank. The material raking device comprises a device body and a scraper device arranged in the device body, wherein double motors, namely a rotary motor and a lifting motor, are arranged on the scraper device; the scraper device comprises a scraper frame and a scraper arranged on the scraper frame; and the scraper on the scraper frame and near the inner side of the scraper frame is an arched scraper. The material raking device of the clarifying tank, disclosed by the invention, has the advantages that due to the arrangement of the arched scraper, the material raking device can be well adaptive to a working environment with relatively high resistance; the mud scraping efficiency is ensured; simultaneously, the material raking device is difficult to damage; due to the arrangement of the lifting motor, when a mud layer is relatively thick, the scraper is driven by the lifting motor to ascend and then descend according to requirements; and therefore, the material raking device has good adaptability; the material raking device disclosed by the invention is capable of detecting the resistance of the scraper affected in the working

process in real time; and therefore, corresponding measures can be made according to practical conditions; the scraper and related equipment are prevented from being damaged; and the service life of the material raking device is prolonged.

Inventors

ZHOU YUANBO

YU DESHUN

YU JIAHONG

LV JUN

YU KUN

Latest standardized assignees - inventors removed

BROTHER ENVIRONMENTAL PROT EQUIPMENT ENGINEERING

Family 9/18 - FAMPAT - ©Questel

Title**(US3755917)**

Rotary sweep apparatus for drying wet grain

Images

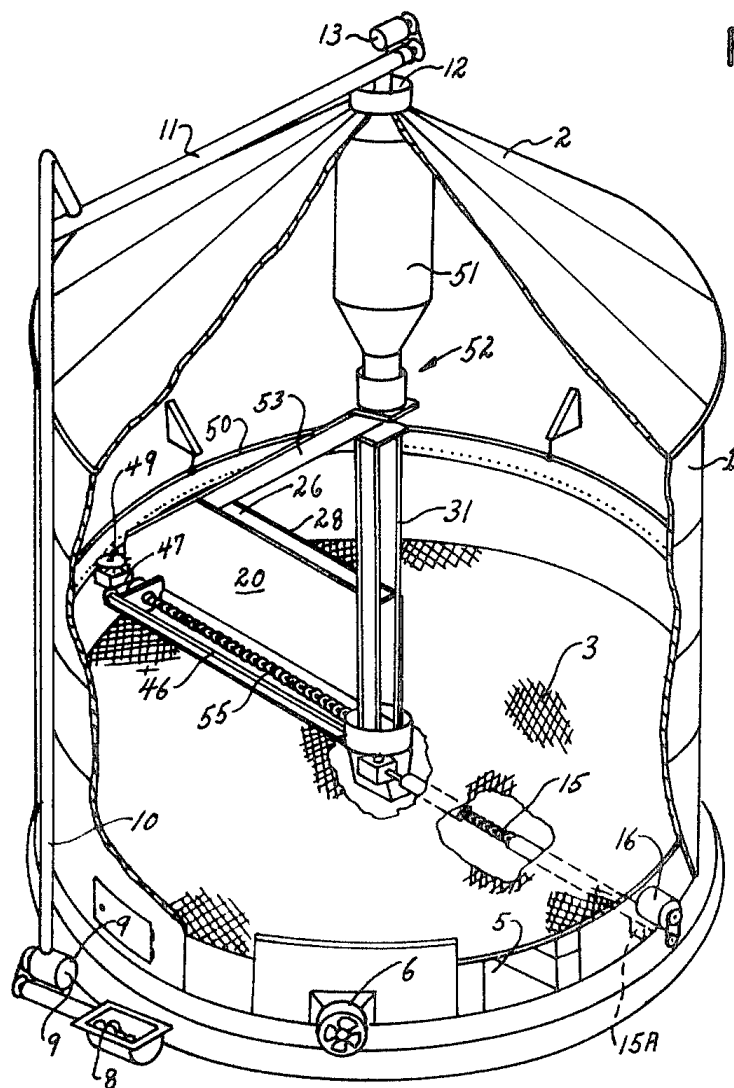


FIG. 1

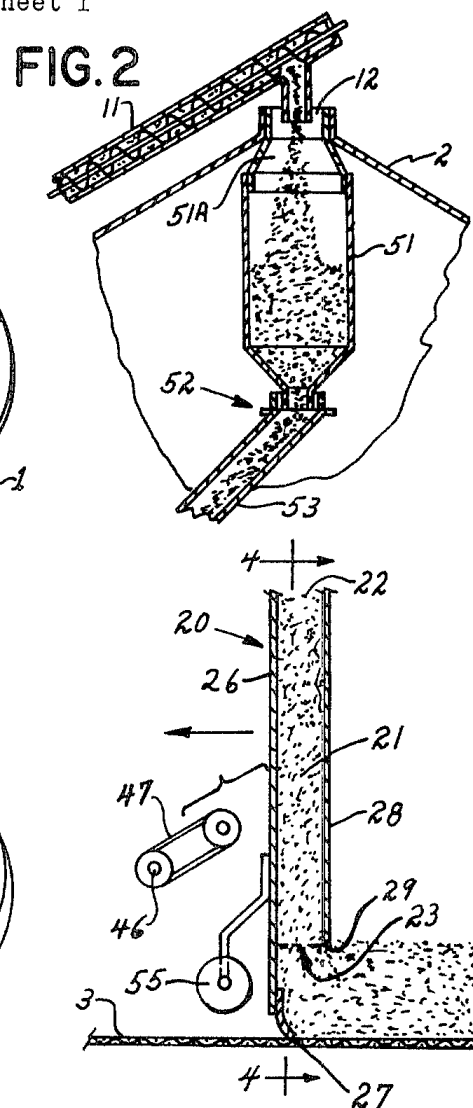


FIG. 2

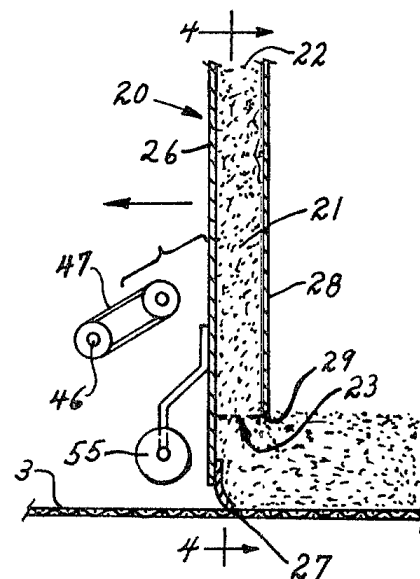


FIG. 3

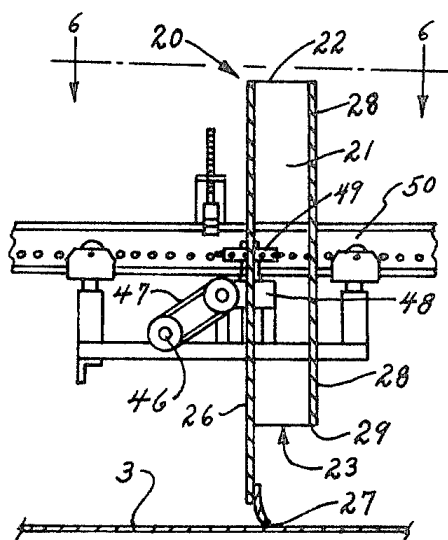


FIG. 5

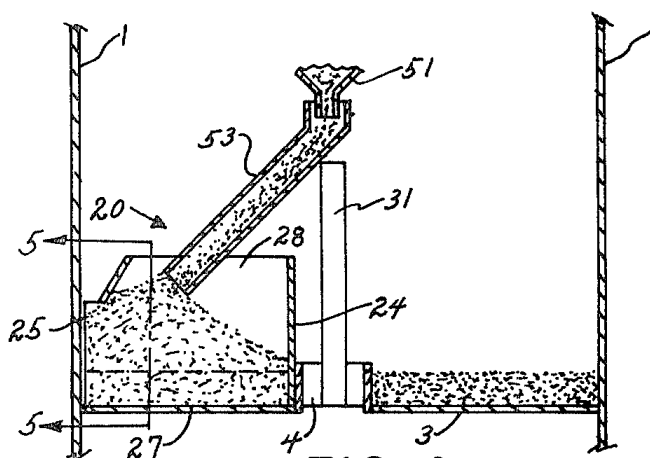


FIG. 4

Publication data including kind & date

US3755917

A 1973-09-04 US3755917



Abstract

(US3755917)

A rotary sweep duct is mounted in a grain drying bin for rotational sweep movement about the vertical center axis of the bin

and fashioned to provide a radially-wide, "rotationally-narrow," vertically-high passageway having an upper or top inlet to receive incoming wet grain and a bottom radially-wide, "rotationally-narrow" slot-like grain outlet extending over the radial width of the perforated floor of the bin. The duct has four vertical walls including (a) inner-axial and outer-peripheral end walls and (b) front and rear radially-wide vertically-high side walls, the lower radial edge of the front wall being closely adjacent the floor, and the lower radial edge of the rear wall being spaced, upwardly from the floor, a predetermined distance corresponding to the desired thickness of the layer of grain to be deposited or formed on the floor.

The incoming wet grain is fed to the upper inlet of the duct and falls gravitationally through the duct which constrains it to pile up on the floor and in the duct in the form of a radially wide "rotationally-narrow" column, the lower end of which rests upon the bin floor. A drive motor outside of the bin rotates the duct forwardly so that the lower radial edge of its rear wall now levels off the lower end of said column at said desired thickness and thus permits the gravitational feed of additional grain from the column in the rotating duct to the floor. Wet grain feed means is provided to supply incoming grain to the upper inlet of the rotary sweep duct at a rate sufficient to maintain said column of grain within the duct.

Inventors

LAMBERT C

Latest standardized assignees - inventors removed

CLAYTON & LAMBERT MANUFACTURING

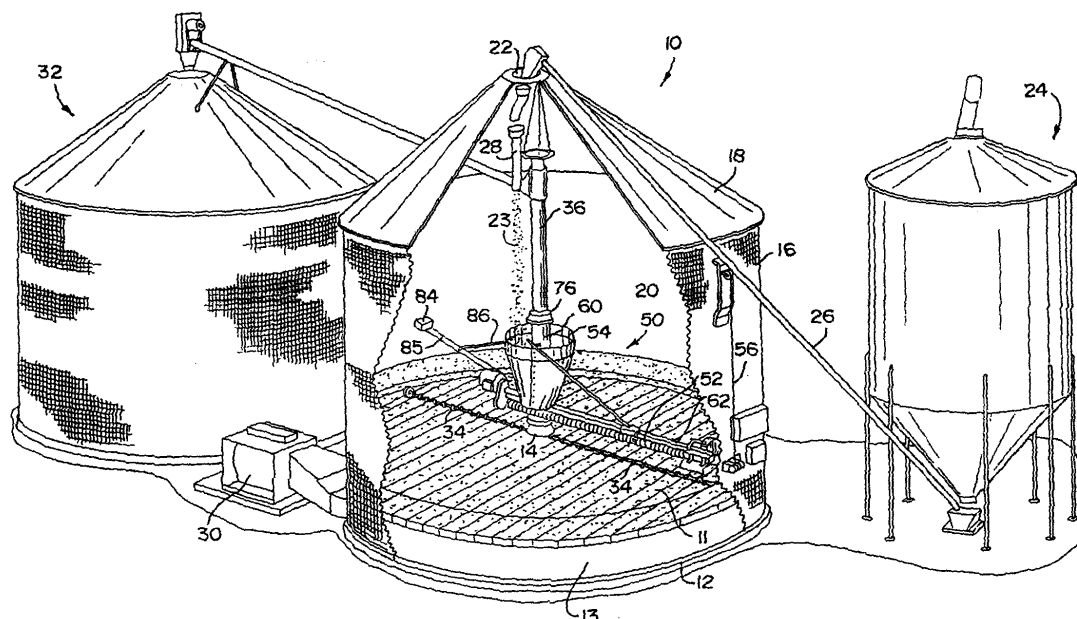
Family 10/18 - FAMPAT - ©Questel

Title

(CN1093458)

Improved method and apparatus for spreading and drying grain

Images



Publication data including kind & date

CN1093458

A 1994-10-12 CN1093458



Abstract

(CN1093458)

A distributing and leveling device 50 is arranged on a drying storehouse 10 rotatably and can rotate around a vertical axle of the drying storehouse; the leveling device comprises a support 51, a collection funnel 54, a distributing auger 52

extending along a radial direction; the distributing auger 52 distributes the cereal particle material evenly on the whole radial width of the dried bottom surface 11 of the drying storehouse 10.No matter the grain in the drying storehouse is increased on net or decreased on net; an even surface state is always kept basically in the storehouse.

Inventors

SHIVVERS CHARLES C

SCHROEDER MICHAEL J

SHIVVERS CARL C

Latest standardized assignees - inventors removed

SHIVERS

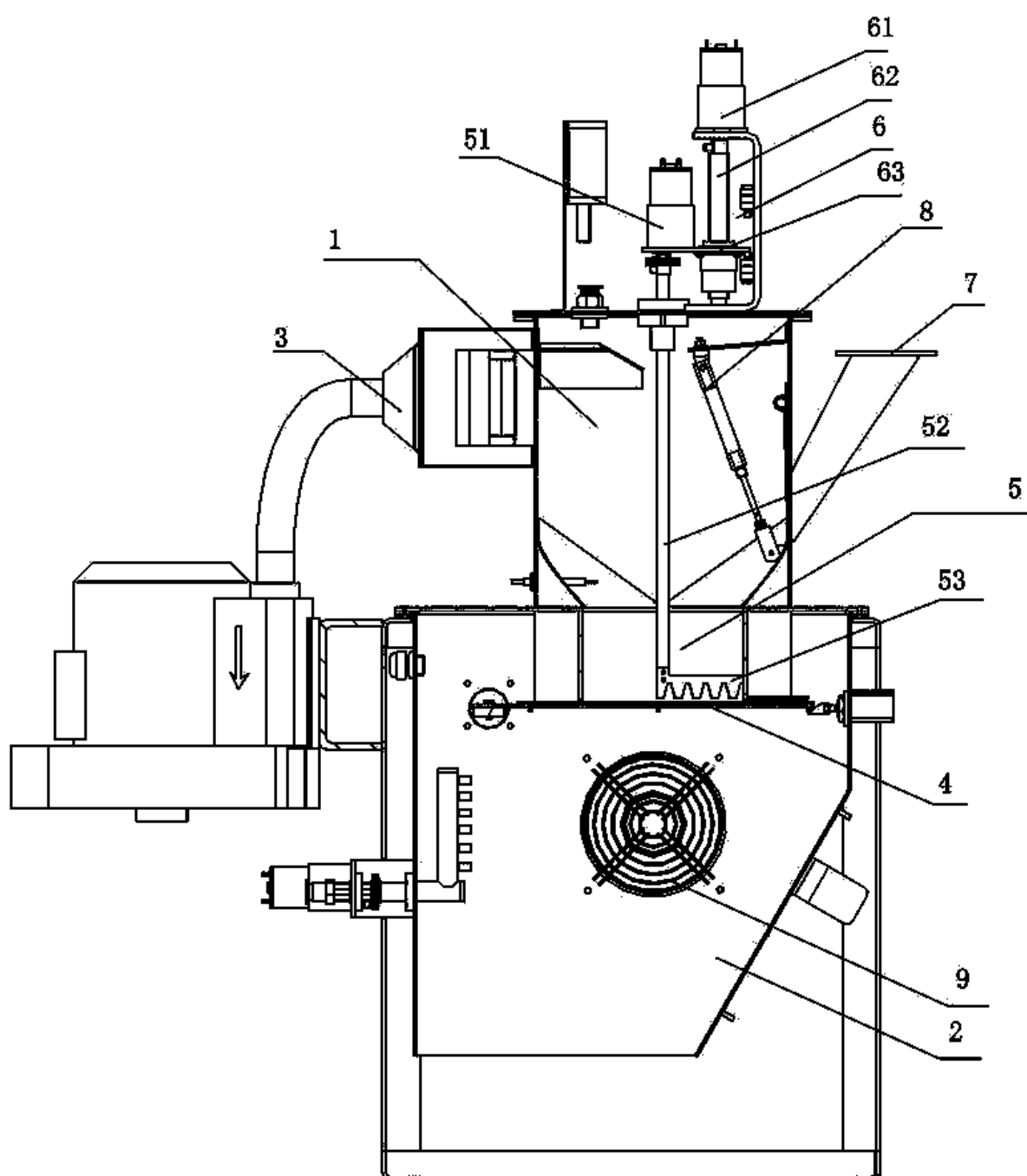
Family 11/18 - FAMPAT - ©Questel

Title

(CN204227832U)

Wind permeation type dryer capable of scraping material

Images



Publication data including kind & date



[CN204227832](#)

U 2015-03-25 CN204227832U

Abstract

(CN204227832U)

The utility model provides a wind permeation type dryer capable of scraping material, which comprises a chamber and a heating assembly, wherein the chamber comprises an experiment chamber and a dropping chamber, the experiment chamber is located upon the dropping chamber, the heating assembly communicates with the experiment chamber or the dropping chamber, a sieve tray assembly for containing the material is arranged in the chamber, a rotary scraping assembly for scraping the material on the sieve tray assembly even is arranged over the sieve tray assembly, the rotary scraping assembly comprises a rotation driver, a rotary rod and a scraping plate, one end of the rotary rod is connected with the rotation driver, the other end of the rotary rod is connected with the scraping plate close to the sieve tray assembly, and when the rotation driver drives the rotary rod to rotate, the scraping plate is driven to rotate, so that the material in contact with the scraping plate is scraped even. The wind permeation type dryer has a simple structure, is convenient to operate, is low in energy consumption, has an automatic sample-evening function, ensures the uniformity of sample drying, increases working efficiency, and decreases the labor intensity of operators.

Inventors

ZHANG ZHONGTAO

ZHU QING

Latest standardized assignees - inventors removed

HUNAN SUNDY SCIENTIFIC & TECHNOLOGY DEVELOPMENT

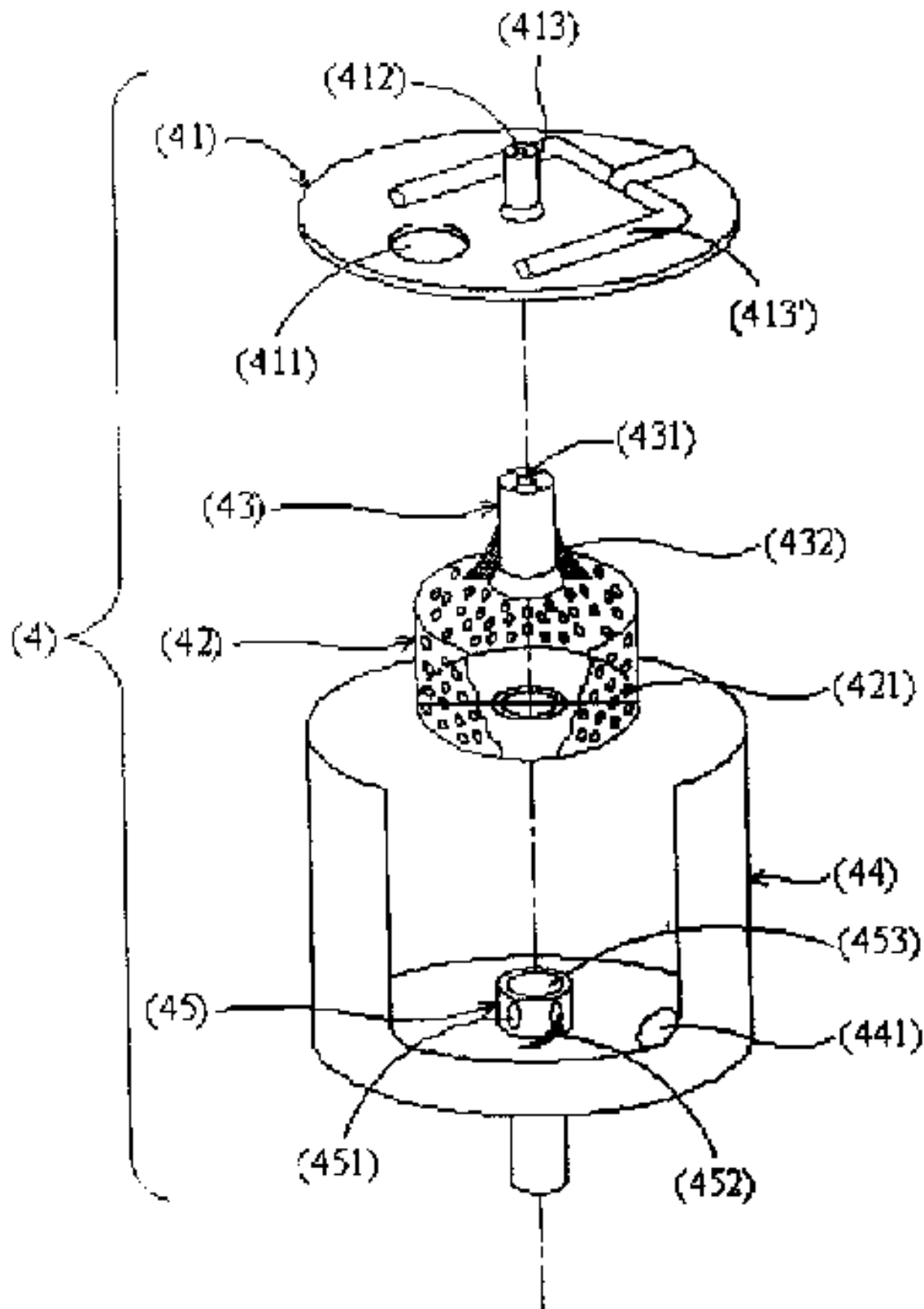
Family 12/18 - FAMPAT - ©Questel

Title

(CN2519896U)

Multi-layer rotary type dryer

Images

**Publication data including kind & date**

CN2519896

Y

2002-11-06

CN2519896U

**Abstract**

(CN2519896U)

The utility model relates to a multilayer rotary fryer, comprising an outer cylinder, an inner cylinder kit with a plurality of extruding strips arranged in the outer cylinder, an inner cylinder scraper group which is arranged in the inner cylinder kit in the rotary mode, and an agitation tablet group which is arranged in the outer cylinder in a rotary mode. Therefore, the drying efficiency is remarkably increased.

Inventors

CAI QIMING

ZHANG ZANYUAN

LAI CHONGGUANG

Latest standardized assignees - inventors removed

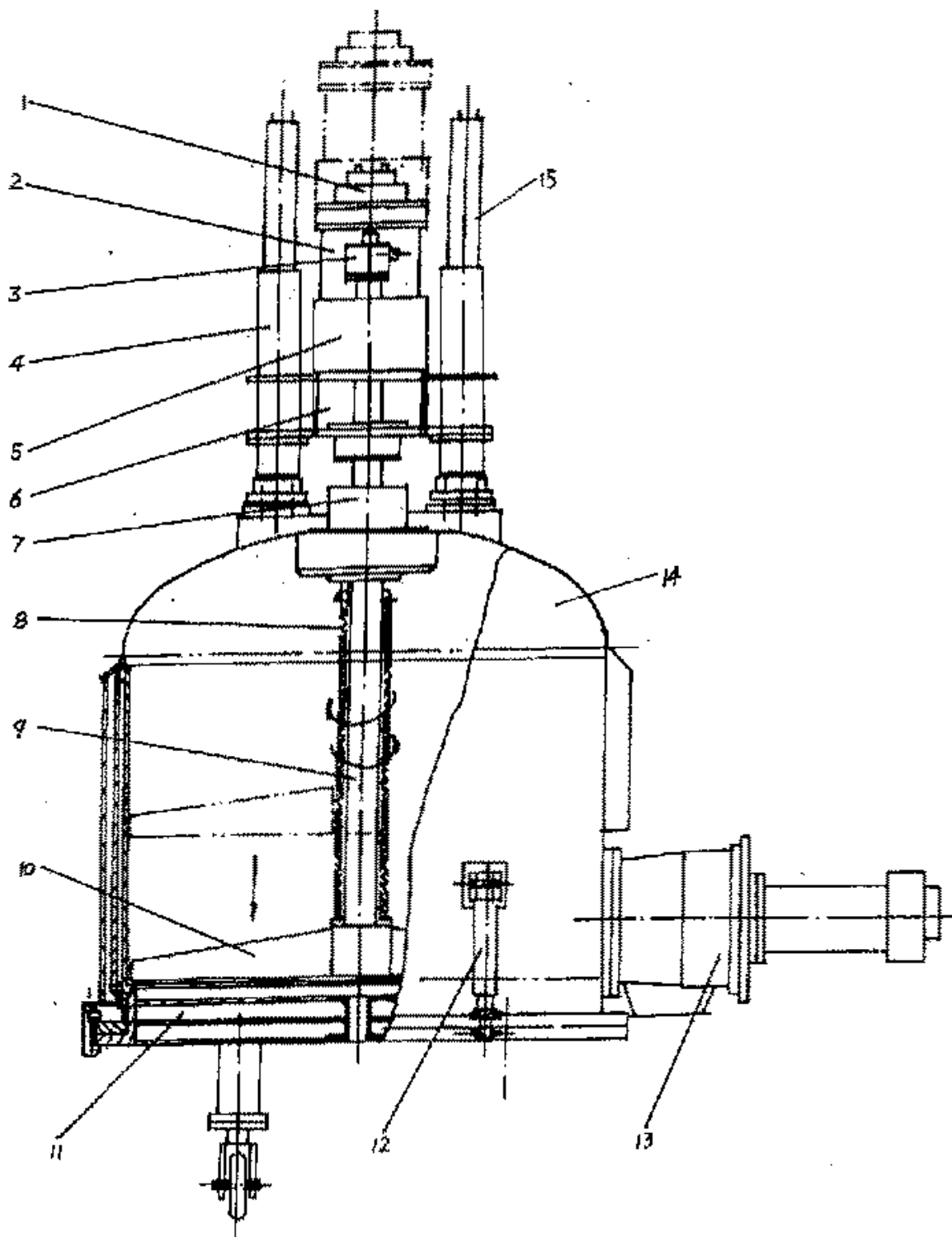
INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE

Family 13/18 - FAMPAT - ©Questel

Title

(CN2389337U)

Filter dryer

Images

[CN2389337](#)

Y 2000-07-26 CN2389337U

Abstract

(CN2389337U)

The utility model relates to a filter dryer, which is provide with a hydraulic pump station for providing power supply, a tank, a stirrer and a jacket heating device for drying materials in the tank. The utility model is characterized in that the filter dryer is also provide with a stirring lifting device, a shaft heating device, a mechanical sealing device, a plurality of sealing bodies and a discharging valve, wherein, the stirring lifting device comprises a hydraulic motor, a speed reducer, double columns, a lifting hydraulic cylinder, a box body and a hydraulic cylinder bracket; the shaft heating device comprises a rotary joint, a shaft sleeve, inner pipes arranged in an inner hole of a stirring shaft and an inner cavity of a stirring vane. The utility model has the functions of filtration, washing and drying to avoid the material backing process of intermediate procedures, and the product can achieve sterile requirement.

Inventors

YUE JIN

CHEN JINGPU

JIA JINCAI

Latest standardized assignees - inventors removed

JIANYE INSTALLATION ENGINEERIN

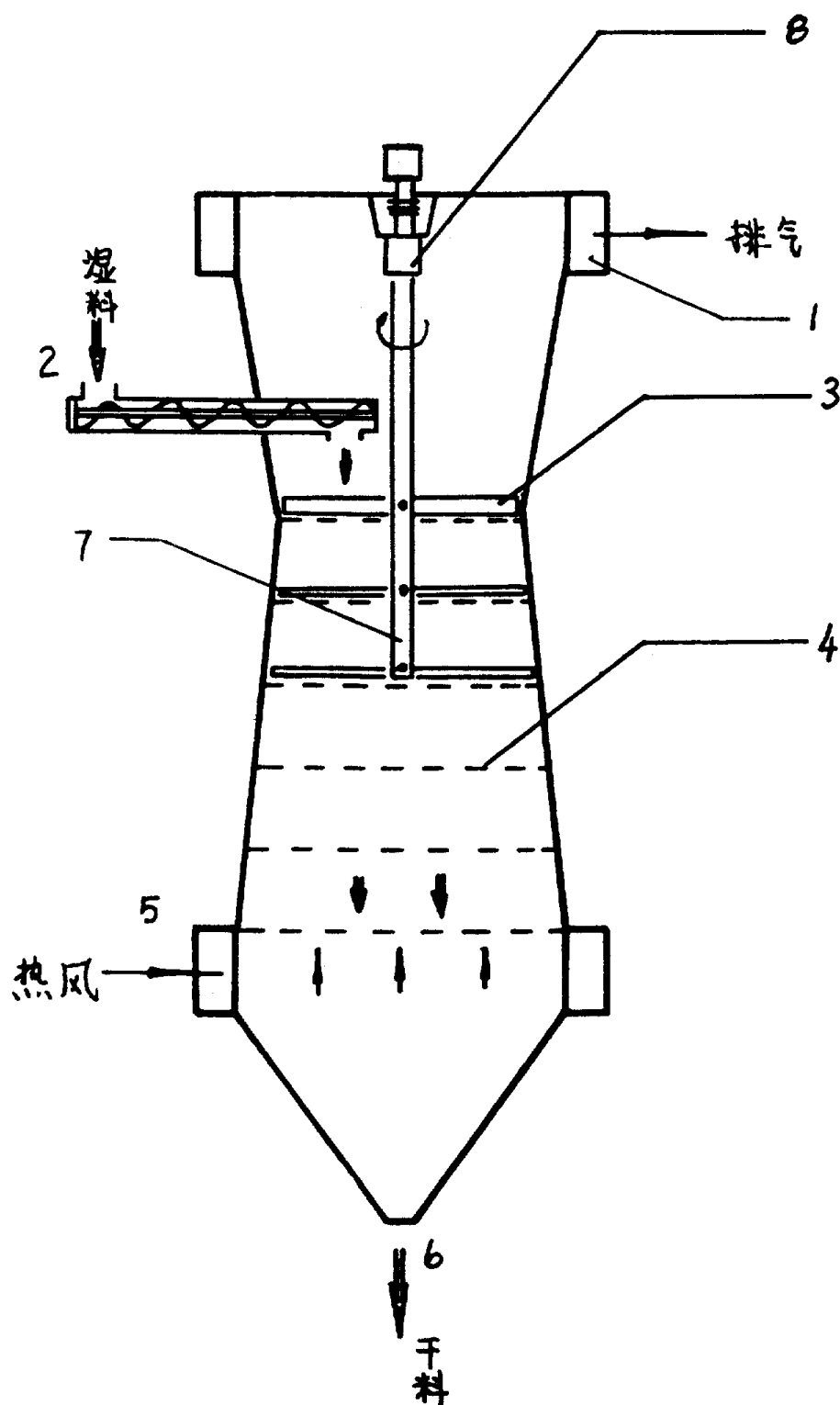
Family 14/18 - FAMPAT - ©Questel

Title

(CN2114124U)

Multi-layer vertical fluid-bed dryer

Images



Publication data including kind & date

CN2114124	U	1992-08-26	CN2114124U
CN91227773	Y	1993-05-12	CN91227773U



Abstract

(CN91227773U)

The utility model belongs to a drying apparatus for granules, which is mainly composed of a tower body with a variable cross section, a stirring device and a plurality of distribution plate layers with different aperture ratios and different sieve diameters, wherein, the gradually decreased aperture ratios of the distribution plates are adopted from top to bottom to be

matched with proper apertures. A method of multi-layer stirring and a backswept arc blade structure are adopted, so that the utility model has the characteristics of stable material transmission, material agglomeration and adhesion prevention, favor for the peripheral and radial even pull of the material, etc., and the purpose of strengthening the drying process is obtained. Thus, the utility model can be widely used for drying highly wetted granular materials.

Inventors

DENGYING LIU

Latest standardized assignees - inventors removed

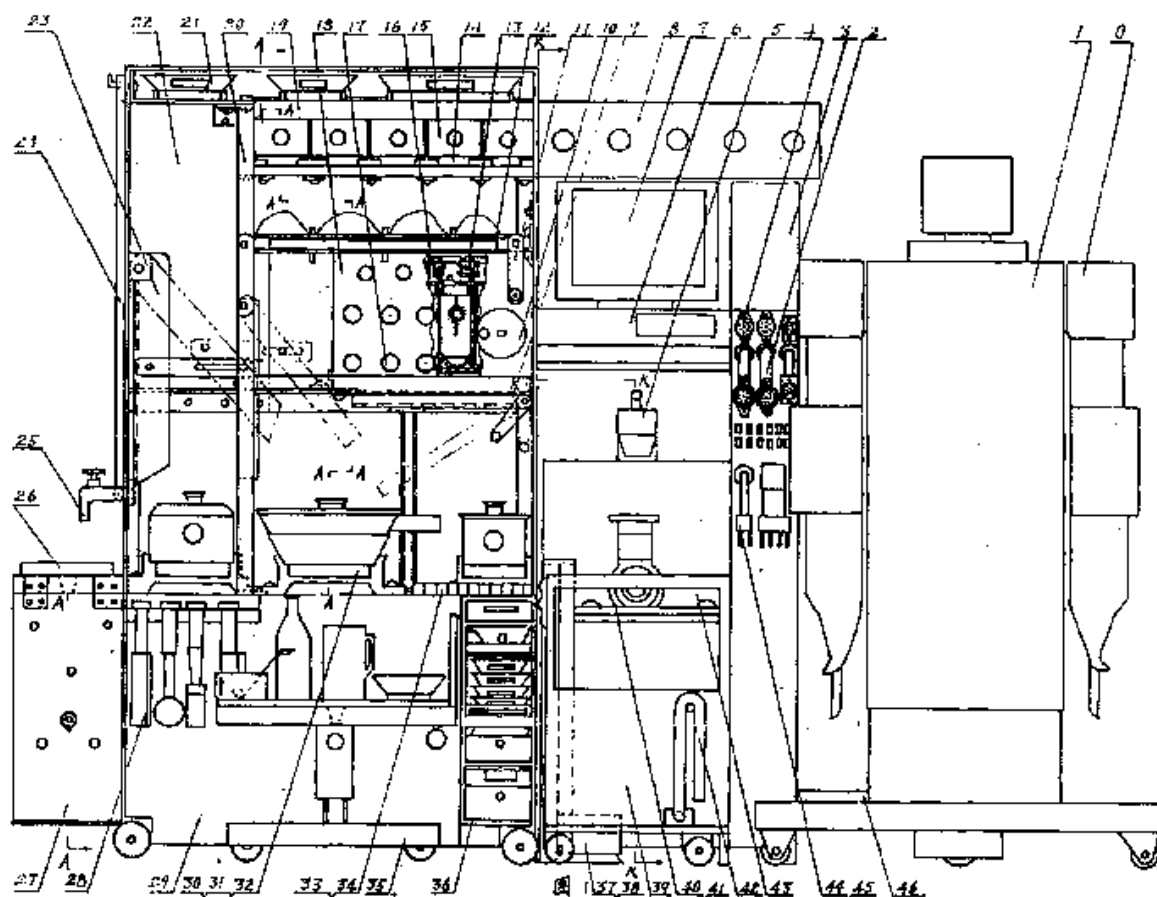
ENGINEERING THERMO PHYSICS INS

Family 15/18 - FAMPAT - ©Questel

Title

(CN1093458C)

Controlling device share method for robot

Images**Publication data including kind & date**[CN1165072](#)

A 1997-11-19 CN1165072

[CN1093458](#)

C 2002-10-30 CN1093458C

**Abstract**

(CN1093458C)

A common application method for control apparatus of robot features that the interfaces for other systems associated with robot are additionally installed to the control apparatus for increasing its utilization rate. Said interfaces can be used for preliminary automation system of house and new robots for industry, agriculture, medicine, cooking and cleaning.

Inventors

ZHU TIANLAI

Family 16/18 - FAMPAT - ©Questel

Title

(JP06060788U)

Liquid quantitative feed pump

Publication data including kind & date

JPH0660788	U	1994-08-23	JP06060788U
JP2587704	Y2	1998-12-24	JP2587704Y



Abstract

(JP2587704Y)

[Objective] Making the tube deform, fixed quantity it makes the liquid spit out In the pump, way you can exchange the tube simply, It does.

[Constitution] The pushing of the soft tube 4 which parallels to the inside of the cylindrical wall 2 Roller 8 for pressure in one end of U shape roller axis 9 revolution unrestrictedly taking You attach. Other than roller axis 9 end formation to center of rotor 5 Slide it inserts unrestrictedly in the support hole 10 which it does. Rotor 5 In the peripheral section the engagement hole 12 where one end of roller axis 9 is inserted It forms. One end of roller axis 9 is inserted in the engagement hole 12, [te] roller 8 is kept in a state where pushing pressure of tube 4 is possible, With the revolution of rotor 5, with that roller 8 tube 4 change Shape being able to point, it makes pump action do. To pull roller axis 9, the person in charge When pulls one end of roller axis 9 from the combination hole and 12 pulls out support Focusing on the holding hole 10 roller axis 9 to turn, roller 8 pushing pressure Making move to cancellation position, you exchange tube 4.

Inventors

Akio Matsunaga

Latest standardized assignees - inventors removed

NIWA SHOJI

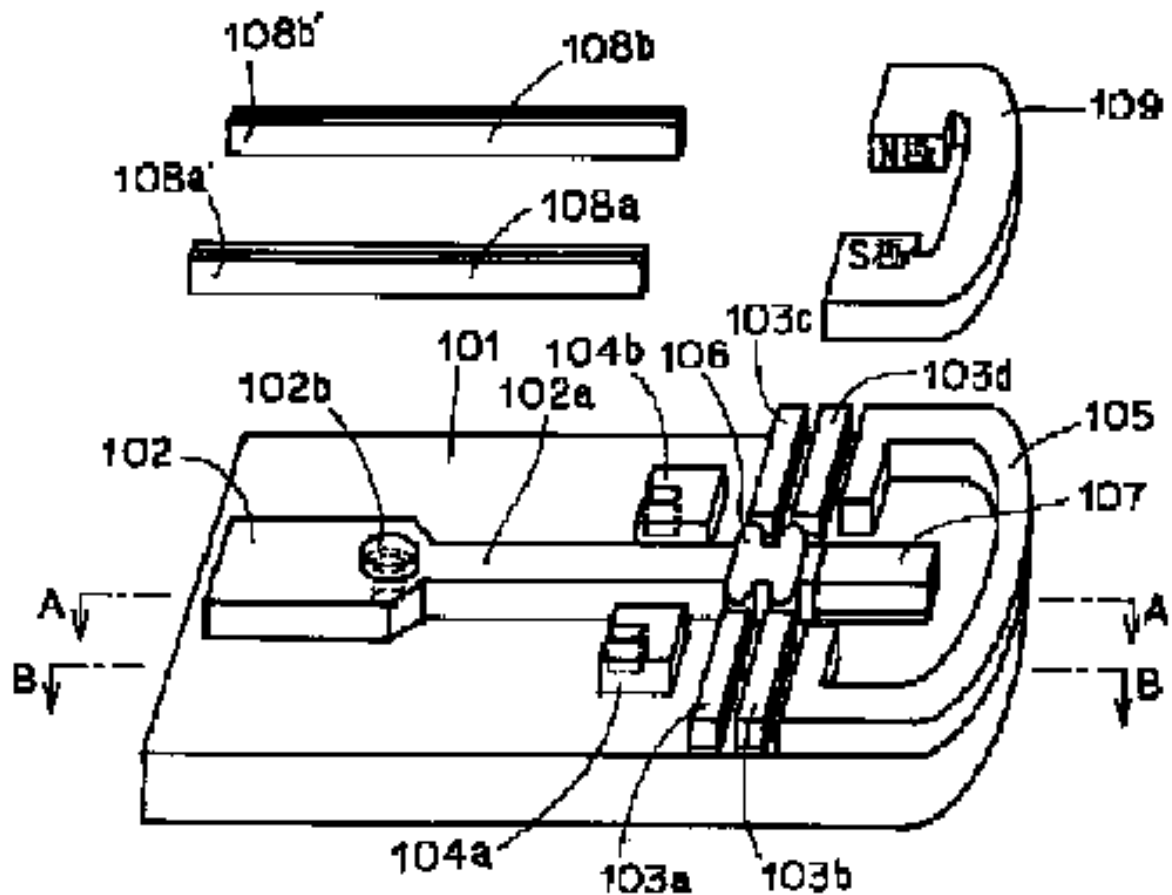
Family 17/18 - FAMPAT - ©Questel

Title

(JP06060788)

Piezoelectric relay

Images

**Publication data including kind & date**

JPH0660788

A 1994-03-04 JP06060788

**Abstract**

(JP06060788)

PURPOSE: To provide a piezoelectric relay with less power consumption by using piezoelectricity as a driving source for switching the contact opening and closing of a micro-relay and using a permanent magnet as a driving source for contact attraction. **CONSTITUTION:** A piezoelectric relay has a base 101 consisting of silicon monocrystal; a movable piece 102 consisting of a semiconductor polycrystal formed on the base with silicon process as a base; a pair of bimorph piezoelectric bodies 108 arranged on the substrate with the movable piece 102 between; a permanent magnet 109 provided near the top end of the movable piece 102; and a plurality of fixed contact layers 103 formed on the substrate main surface through an

insulator. The movable piece 102 has an attracting part formed of a magnetic body on the surface opposed to the permanent magnet 109 and a movable contact layer 106 for opening and closing the fixed contact layers 103. By applying a voltage to the bimorph piezoelectric body 108, this is used as a driving source, and the movable contact layer 106 is driven to open and close the fixed contact layers 103.

Inventors

HIRATA SUSUMU

ISHII YORISHIGE

KIMURA KAZUHIRO

INUI TETSUYA

OTA KENJI

Latest standardized assignees - inventors removed

SHARP

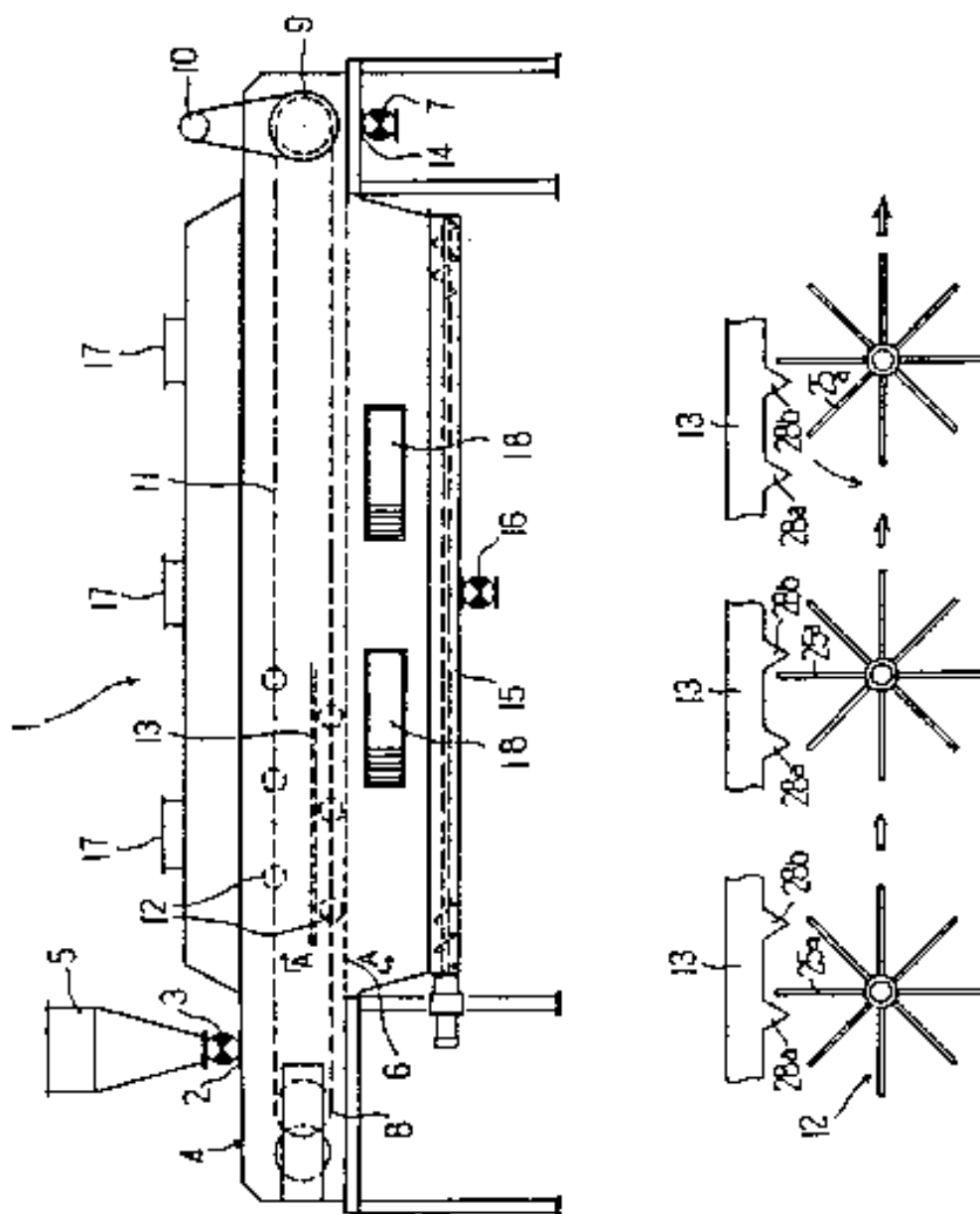
Family 18/18 - FAMPAT - ©Questel

Title

(JP03232539)

Dryer

Images

**Publication data including kind & date**

JPH03232539	A	1991-10-16	JP03232539
JPH0660788	B2	1994-08-10	JP94060788
JP1932063	C	1995-05-12	JP1932063

**Abstract**

(JP1932063)

PURPOSE:To ensure uniform drying by providing scrapers having agitating vanes along a screen on the screen and providing a rack having pawls in contact with the scrapers.
CONSTITUTION:Materials which are required to be dried and are charged from a hopper 5 in a supply port are placed on the screen 6 and are sent by the scrapers 12 moving from one end to the other. The materials required to be dried are heat exchanged with the hot wind heated up by fin heaters 18 from

below the screen 6 and are thereby dried. The scrapers 12 rotate and send the materials required to be dried toward a discharge port while agitating the materials during this process. The materials existing between the agitating vanes 25a are scraped up and uniformly dried by the rotation of the scrapers 12. The scrapers 12 are rotated by the contact of the pawls 28a, 28b formed on the rack 13 with the agitating vanes 25a. The uniform drying is executed in this way.

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