

20 Documents

Publication numbers	Title	Current assignees
CA2096644 A1	Method and installation for processing animal excrement and liquid manure	G. Hartford, ...
KR20160131187 A	Solid-liquid separation device of two-stage dewatering system with inclined drum screen and double taper screen	KUKJAE ENV TECHNOLOGY
KR20130118677 A	Excrements separator	PARK HYUN SUK
DE102007016443 A1	Drum screen separator for partial separation of solid containing liquid medium in biogas system, has press and supporting rollers and/or drum screen synchronized by motor and rotatably propelled on same circumferential speed	UTS BIOGASTECHNIK
CN107216905 A	Oil-water separator for treating plastic garbage	HENAN DIZHILYU ENVIRONMENTAL PROTECTION TECHNOLOGY
DE202017101623 U1	Separator with lifting beam conveying	HUGO VOGELSANG MASCHB
CA3031475 A1	Material and/or fuel produced from biomass	ANTACOR
CN206843376U U	Oil water separator that plastic refuse handled	HENAN DIZHILYU ENVIRONMENTAL PROTECTION TECHNOLOGY
KR101542930 B1	Apparatus for separating solid from mixture including slits by movig wire	KOREA WATER TECHNOLOGY
CN108191474 A	Animal excrement harmless resource utilization intelligent treatment system and method	QINGDAO TECHNOLOGICAL UNIVERSITY
KR20160061838 A	Processing system for excretion of animals	YUMUNG EMC
WO9967174 A1	Treatment of waste produced by farm animals raised under confined conditions	STEVEN N COLBERT
WO200280699 A2	Method and system for preparing extraction meal from sun flower seeds for animal feed	WALTER ULRICH
CN208500789U U	Animal waste harmless of resources recycling intelligent processing system	QINGDAO TECHNOLOGICAL UNIVERSITY
CN107540432 A	Process and equipment for high-speed recycling and treatment of organic wastes and generation of organic fertilizer thereby	BEIJING 3G ECO TECHNOLOGY
CN103420690 A	System for rapidly making fertilizer using household waste	TIANZI ENVIRONMENT PROT INVEST HOLDING
CN107309243 A	Treatment method for plastic garbage	HENAN DIZHILYU

Publication numbers	Title	Current assignees
		ENVIRONMENTAL PROTECTION TECHNOLOGY
CN107202328 A	Plastic garbage treatment system	HENAN DIZHILYU ENVIRONMENTAL PROTECTION TECHNOLOGY
CN108889767 A	Novel method and utilizing kitchenware waste disposal system	ZHEJIANG BAISIDA TECHNOLOGY
WO201096505 A1	Internally reinforced structural composites and associated methods of manufacturing	ADVANCED GREEN INNOVATIONS, ...

AU656807	B2	1995-02-16	AU-656807
HUT68619	A	1995-07-28	HU-T68619
JP2545041	B2	1996-10-16	JP2545041
EP0559858	B1	1997-02-12	EP-559858
AT148878	T	1997-02-15	ATE148878
DE59208041	D1	1997-03-27	DE59208041
ES2103963	T3	1997-10-01	ES2103963



Abstract

(EP-559858)

The invention concerns a method of processing animal excrement and **liquid manure** (fluid-**solid** materials) in order to utilize the ammonia in the material in non-volatile, chemically bound form as fertilizer, and the disposal by combustion of the polluting constituents of the material which are not easy to react chemically, or residues arising from the process, such as residual ammonia, methane gas or strong-smelling gaseous substances such as skatoles and mercaptans. The method is characterized in that the non-bonded and/or dissolved ammonia in the material is converted, by the addition of carbon dioxide and gypsum, into a non-volatile nitrogenous fertilizer which is readily absorbed by plants. Exhaust air from animal-husbandry facilities is preferably used as the source of carbon dioxide. Strong-smelling substances, residual ammonia and methane and other volatile substances from the exhaust air are removed from the material usually in a stripping procedure by passing oxygen, preferably in the form of air, and in particular exhaust air from animal-husbandry facilities, into the material. Such substances are combusted over a thermal catalyst, or in combustible gas, when they leave the installation.

Inventors

HALFTER GEORG

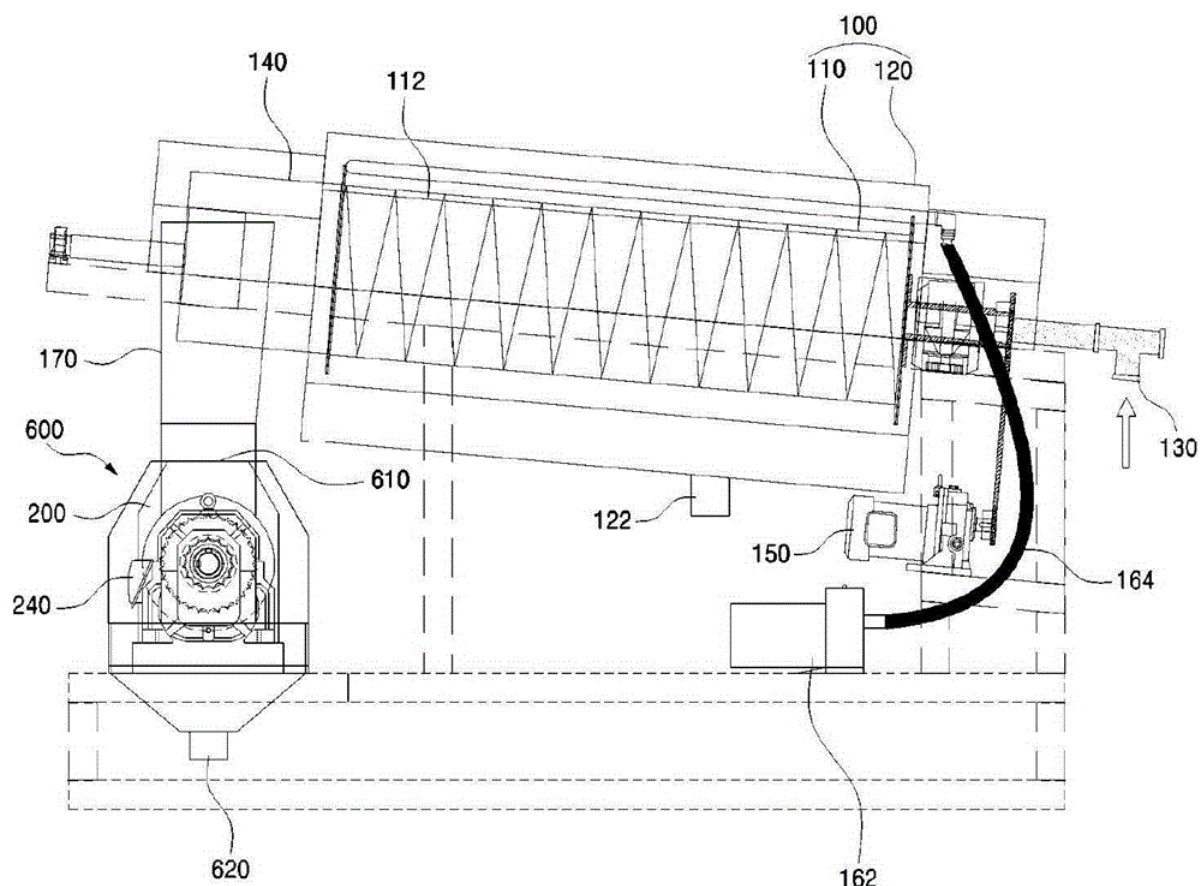
Family 2/20 - FAMPAT - ©Questel

Title

(CN106110751)

Solid-liquid separation device of two-stage dewatering system with inclined drum screen and double taper screen

Images



Publication data including kind & date

KR20160131187	A	2016-11-16	KR20160131187
CN106110751	A	2016-11-16	CN106110751
KR101703731	B1	2017-02-07	KR101703731

**Abstract**

(CN106110751)

The invention discloses a **solid-liquid** separation device of a two-stage dewatering system with an inclined drum screen and a double taper screen. The **solid-liquid** separation device comprises the inclined drum screen, which is installed upwards inclinedly from a near end to a far end, and is used to realize primary dewatering by rotating a first conveying propeller under driving of a first **motor**; the double taper screen, which is disposed on the lower part of the far end of the inclined drum screen, comprises a plurality of inner screen formed by a plurality of first through holes and an outer screen formed by a plurality of second through holes having larger diameters than that of the first through holes and disposed on the outer side of the inner screen and is used to realize secondary dewatering by rotating a second conveying propeller under driving of a second **motor**; a wedge-shaped wire screen, which is disposed on the end of the far end of the double taper screen in a communicated manner, comprises a plurality of screen parts installed at certain intervals to form a cylinder shape and a combination part used for inserting of screen parts in grooves of a concave-convex part in one side in order to carry out further dewatering process; an exhaust opening disposed in the end of the far end of the wedge-shaped screen.

Inventors

LI ZHENSHUO

Latest standardized assignees - inventors removed

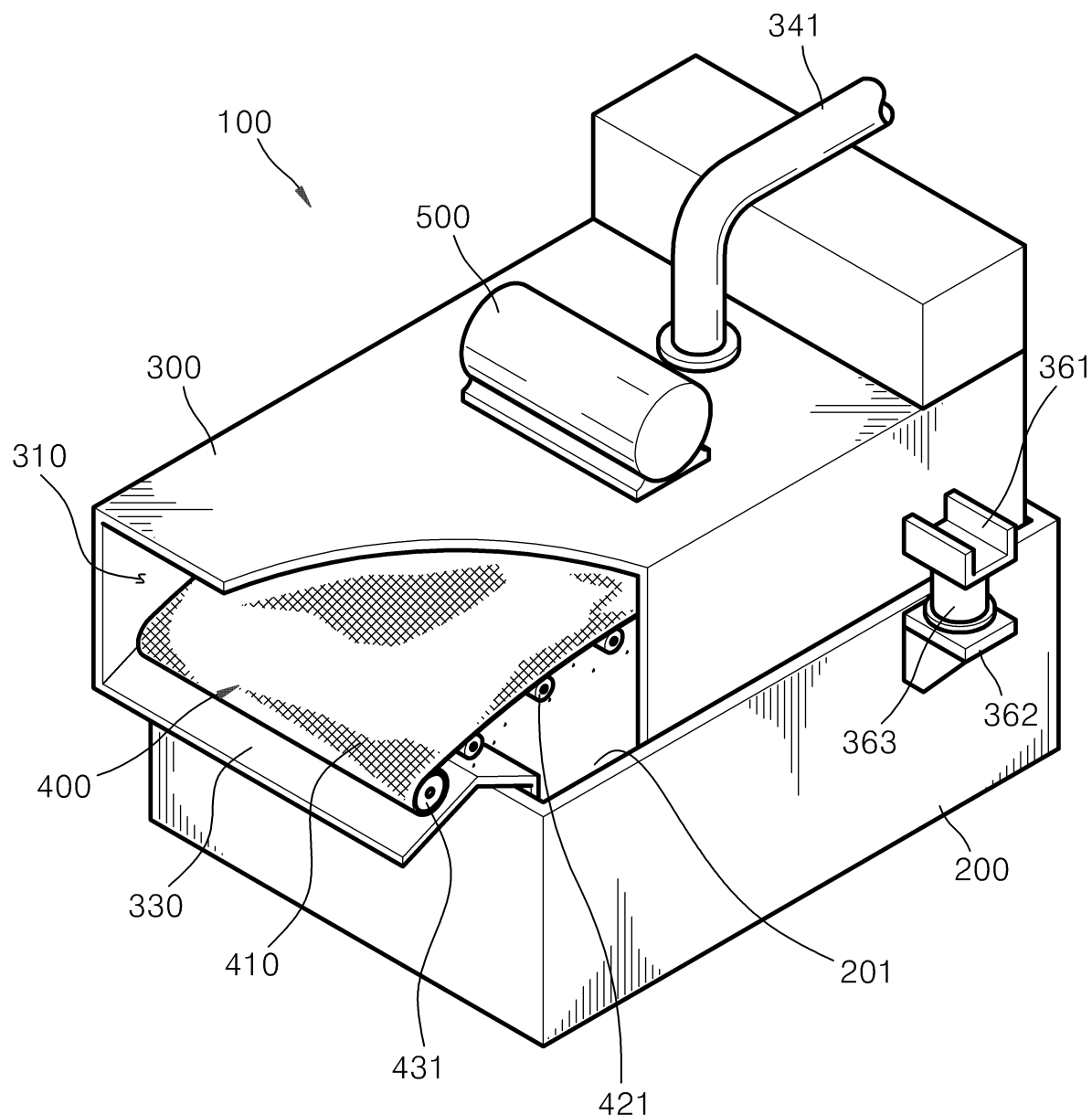
KUKJAE ENV TECHNOLOGY

Family 3/20 - FAMPAT - ©Questel

Title

(KR101347874)

Excrements **separator****Images**



Publication data including kind & date

KR20130118677	A	2013-10-30	KR20130118677
KR101347874	B1	2014-01-03	KR101347874



Abstract

(KR101347874)

PURPOSE: A livestock excrement **solid-liquid separator** is provided to properly move the **solid** material through the vibrator, and improve the separation efficiency by not generating a sagging of the filter according to have a tension application portion even in the long use by having the tension application portion which applies the tension. **CONSTITUTION:** An excrement **separator** comprises a storage tank (200) in which the opening is formed in the upper side; a vibrating body (300) in which the lower side corresponding to the opening is opened, and the inlet port is formed in one side so that the excrements is injected to the inside, and which is suspended on the upper side of the storage tank with the suspended unit; and multiple through holes which are formed in order to filter the **solid** material and pass through the **liquid** material of the excrement which is flowed in from the inlet port to the storage tank; a filter (410) which is supported from a supporting unit which is installed in the vibrating body; a first **solid** material separating unit (400) which includes the tension application portion for applying the tension in the main filter; a vibrator (500) which vibrates the vibrating body in order to discharge the **solid** material which is filtered with the main filter by installing in the vibrating body to the other side direction of the vibrating body.

Inventors

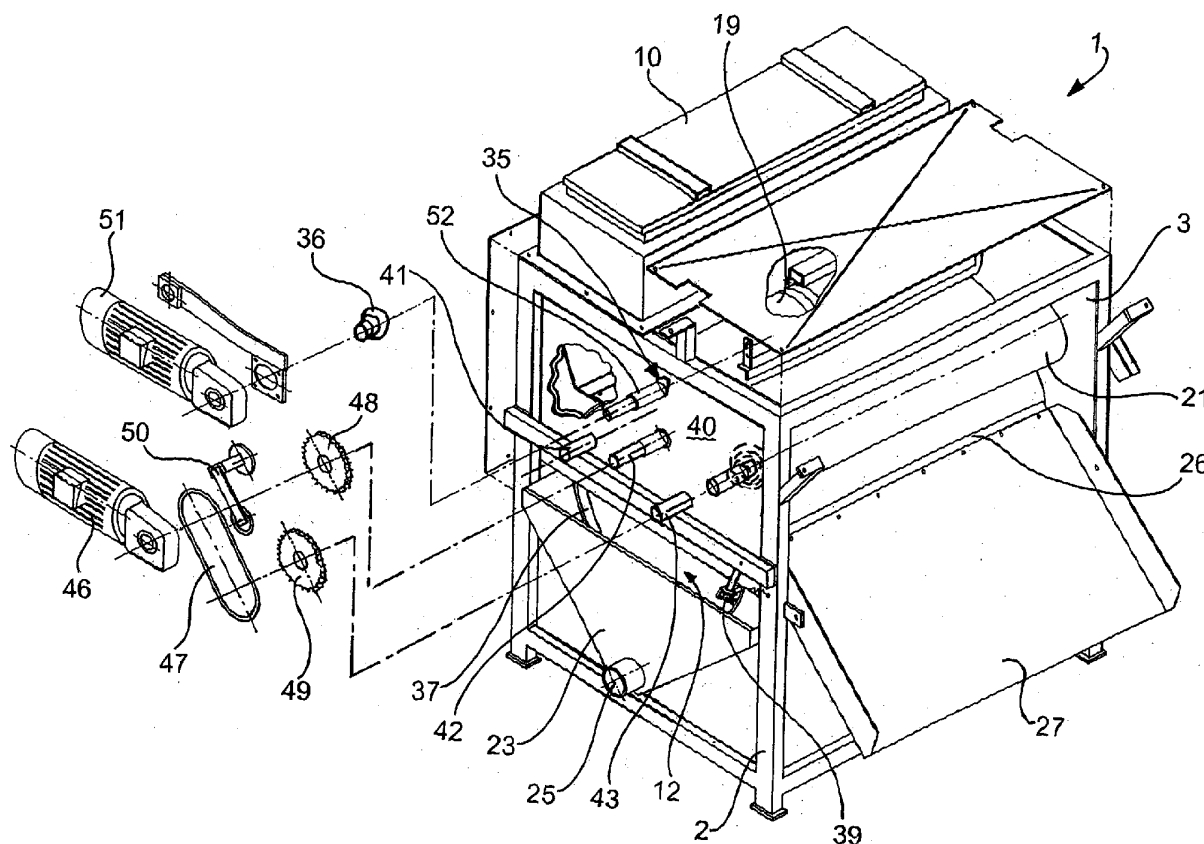
PARK HYUN SUK

Family 4/20 - FAMPAT - ©Questel

Title

(DE102007016443)

Drum screen **separator** for partial separation of **solid** containing **liquid** medium in biogas system, has press and supporting rollers and/or drum screen synchronized by **motor** and rotatably propelled on same circumferential speed

Images**Publication data including kind & date**[DE102007016443](#)

A1 2008-10-09

DE102007016443

**Abstract**

(DE102007016443)

The **separator** (1) has a collecting tray (23) with an outlet (25) under a drum screen (12) to separate a **liquid** by pressurizing with press rollers (19, 21). Supporting rollers (18, 20, 22) rotatably supported at a rack (2) and a housing (3) are provided over a length of the screen. The supporting rollers abut at an inner side of a drum wall. The press and supporting rollers and/or the drum screen are synchronized by a **motor** e.g. hydraulic **motor**, and are rotatably propelled on a same circumferential speed. A stripper (26) made of **plastic**, metal, or rubber provides contact pressure to the screen.

Inventors

BUERGER ADAM

Latest standardized assignees - inventors removed

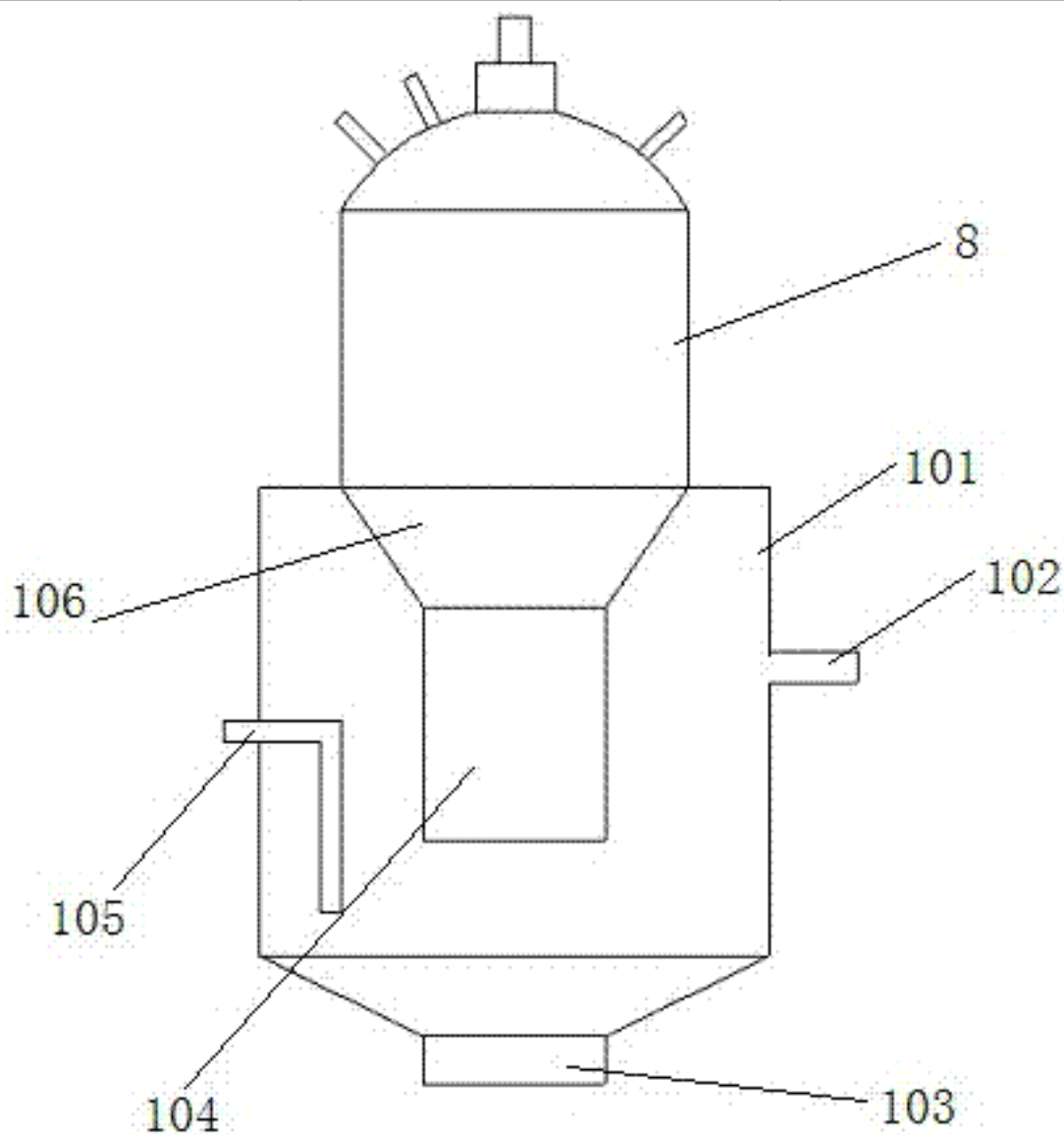
UTS BIOGASTECHNIK

Family 5/20 - FAMPAT - ©Questel

Title

(CN107216905)

Oil-water **separator** for treating **plastic** garbage**Images**

**Publication data including kind & date**

CN107216905

A

2017-09-29

CN107216905

**Abstract**

(CN107216905)

The invention relates to an oil-water separator for treating plastic garbage. The oil-water separator for treating plastic garbage is suitable for a plastic garbage treatment system. The oil-water separator comprises an oil-water separator shell, an oil outlet, a drain outlet, a liquid inlet pipe, a water draining pipe and a liquid collecting plate, wherein the oil-water separator shell is arranged at the lower end of a condenser; the oil outlet is formed on the oil-water separator shell; the drain outlet is formed at the bottom of the oil-water separator shell; the liquid inlet pipe is arranged in an inner chamber of the oil-water separator shell and is of tubular shape; the upper end of the liquid inlet pipe is connected with the liquid collecting plate; the lower end of the liquid inlet pipe is opening; the water draining pipe is arranged on the oil-water separator shell; the position of the water outlet at the upper end of the water draining pipe is lower than the position of the oil outlet; the liquid collecting plate is arranged in the inner chamber of the oil-water separator shell and is arranged as an inverted conical thin-wall hollow body; and the upper end of the liquid collecting plate is connected with a first-stage condenser shell on the condenser while the lower end is connected with the liquid inlet pipe. The oil-water separator for treating plastic garbage has the characteristics of capability of realizing the oil-water separating function of the plastic garbage treatment system, simple and compact structure and convenience in operation.

Inventors

ZHANG ZHENTANG

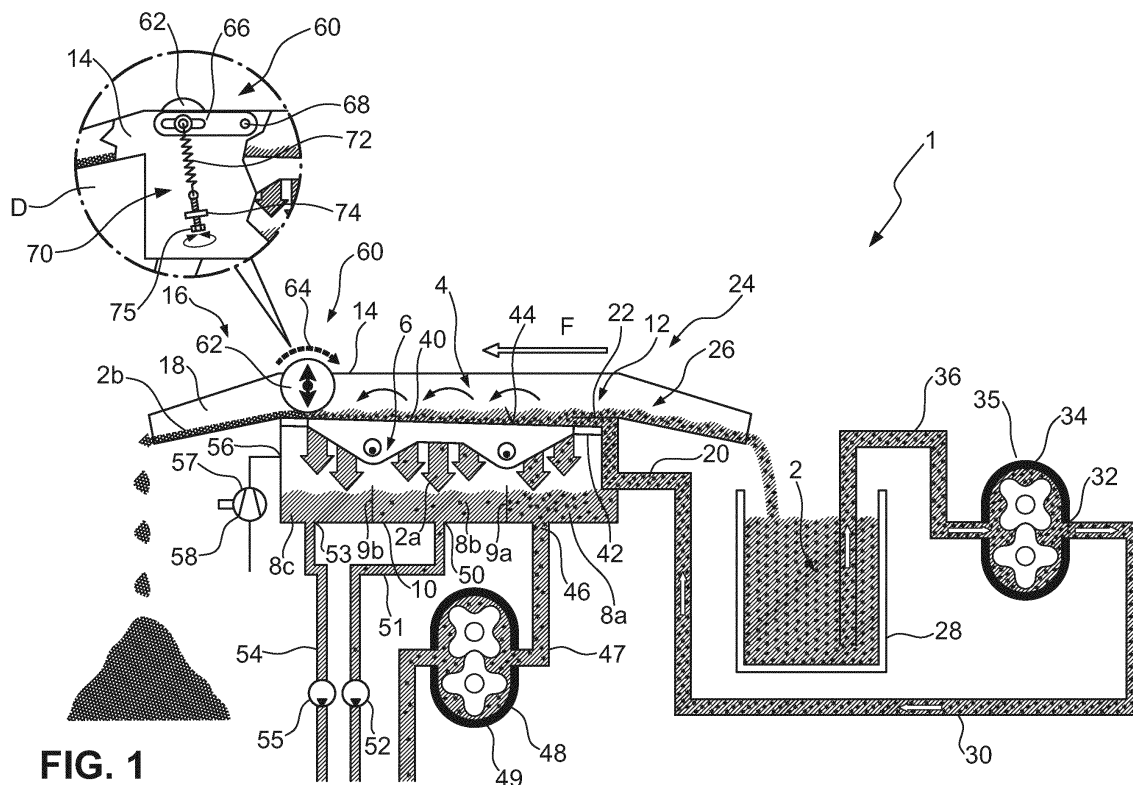
YU HUALONG

Latest standardized assignees - inventors removed

Family 6/20 - FAMPAT - ©Questel

Title

(WO2018172346)

Separator with lifting beam conveying**Images****FIG. 1****Publication data including kind & date**

DE202017101623

U1 2018-08-02

DE202017101623

WO2018172346

A1 2018-09-27

WO2018172346

**Abstract**

(WO2018172346)

The present invention relates to a **separator** apparatus (1) for separating solids from liquids (2), which apparatus comprises a conveying device (4) for conveying a **solid-containing liquid** (2), a drive (6) for driving the conveying device (4) and at least one first receiving chamber (8a, 8b, 8c) which is arranged below the conveying device (4) and is provided for the purpose of receiving downward-flowing **liquid** (2a), wherein the conveying device (4) has at least one first **sieve** unit (40) that is provided in order to form, in operation, a filter cake (2b) on a first **sieve** face (44) of the first **sieve** unit (40), and a first support unit (42) corresponding to the first **sieve** unit (40), wherein the first **sieve** unit (40) can be moved by means of the drive (6) on a first movement path (B) such that the filter cake (2b) can be moved by means of the first **sieve** unit (40) along a first section (B1) of the first movement path (B) in a conveying direction (F), and can be supported along a second section (B2) of the first movement path (B) by means of the first support unit (42).

Inventors

HERTWIG MARTIN

VOGELSANG HUGO

KRAMPE PAUL

Latest standardized assignees - inventors removed

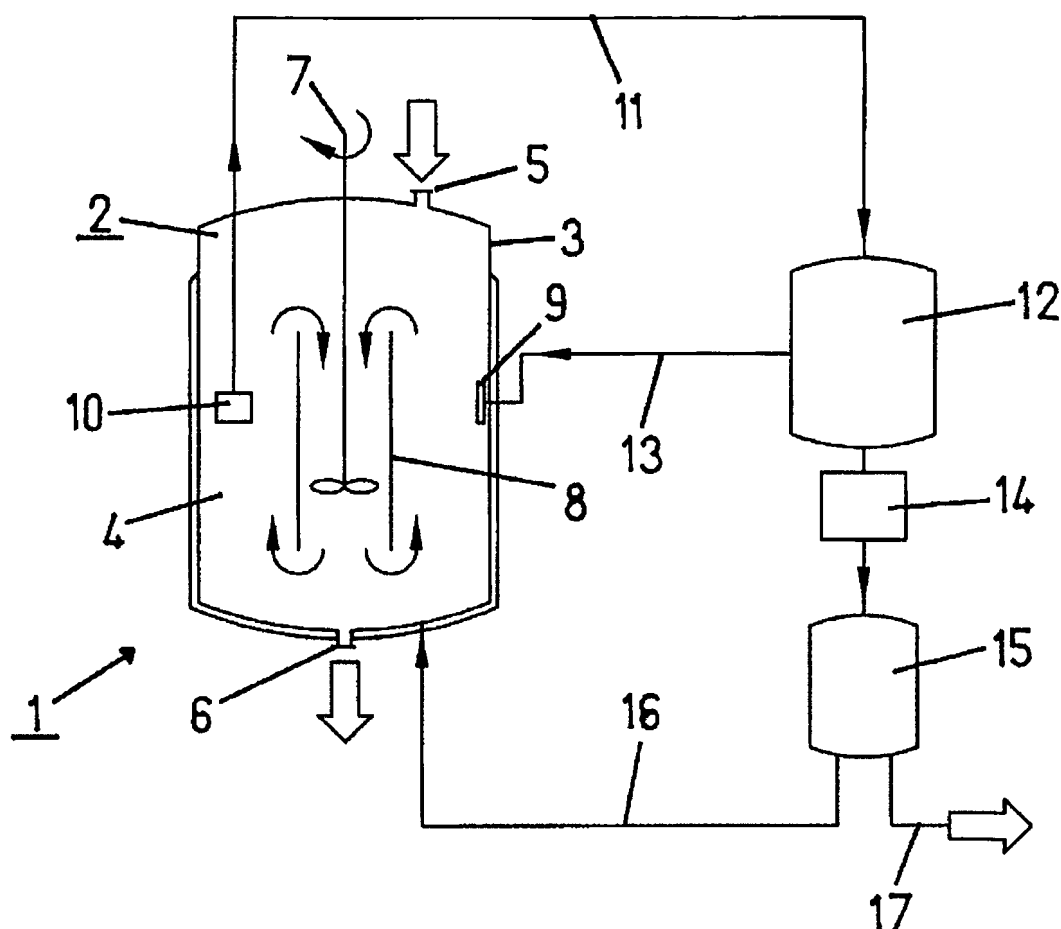
HUGO VOGELSANG MASCHB

Family 7/20 - FAMPAT - ©Questel

Title

(EP2106435)

Material and/or fuel produced from biomass

Images**Publication data including kind & date**

CA3031475	A1	2008-07-10	CA3031475
WO2008081407	A2	2008-07-10	WO200881407
WO2008081410	A2	2008-07-10	WO200881410
WO2008081408	A2	2008-07-10	WO200881408
WO2008081409	A2	2008-07-10	WO200881409
CA2710719	A1	2008-07-10	CA2710719
AU2007340905	A1	2008-07-10	AU2007340905
DE102008058444	A1	2009-05-28	DE102008058444
AP200904939	A0	2009-08-31	AP200904939
KR20090105952	A	2009-10-07	KR20090105952
EP2106435	A2	2009-10-07	EP2106435
MX2009007043	A	2009-10-13	MX2009007043
WO2008081407	A3	2009-10-15	WO200881407
WO2008081410	A3	2009-10-15	WO200881410
WO2008081408	A3	2009-10-15	WO200881408
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EA200900892	A1	2010-02-26	EA200900892
CN101679893	A	2010-03-24	CN101679893



JP2010514881	A	2010-05-06	JP2010514881				
US20100162619	A1	2010-07-01	US20100162619				
IN2712/KOLNP/2009	A	2010-08-13	IN2009KN02712				
ZA200905190	B	2011-01-26	ZA200905190				
SG177926	A1	2012-02-28	SG-177926				
NZ578521	A	2012-05-25	NZ-578521				
AU2007340905	B2	2012-09-13	AU2007340905				
EP2106435	A4	2012-11-21	EP2106435				
JP2014074171	A	2014-04-24	JP2014074171				
UA106581	C2	2014-09-25	UA-106581				
EG26861	A	2014-11-09	EG--26861				
JP5664840	B2	2015-02-04	JP5664840				
BRPI0721240	A1	2015-05-26	BR200721240				
BRPI0721240	A2	2015-07-28	BR200721240				
KR101600545	B1	2016-03-07	KR101600545				
KR20160028523	A	2016-03-11	KR20160028523				
US9512376	B2	2016-12-06	US9512376				
KR101734391	B1	2017-05-11	KR101734391				
IN285315	B	2017-07-21	IN-285315				
US20170283725	A1	2017-10-05	US20170283725				
CN107460017	A	2017-12-12	CN107460017				
BRPI0721240	B1	2018-08-07	BR200721240				
JP6418478	B2	2018-11-07	JP6418478				

Abstract

(EP2106435)

The invention relates to a material and/or fuel that is produced from biomass.Said material and/or fuel can be produced according to a method, wherein the biomass is treated at a temperature of above 100 degrees Celsius and a pressure of above 5 bar for a duration of treatment of at least one hour.

Inventors

PEUS DOMINIK DR

Latest standardized assignees - inventors removed

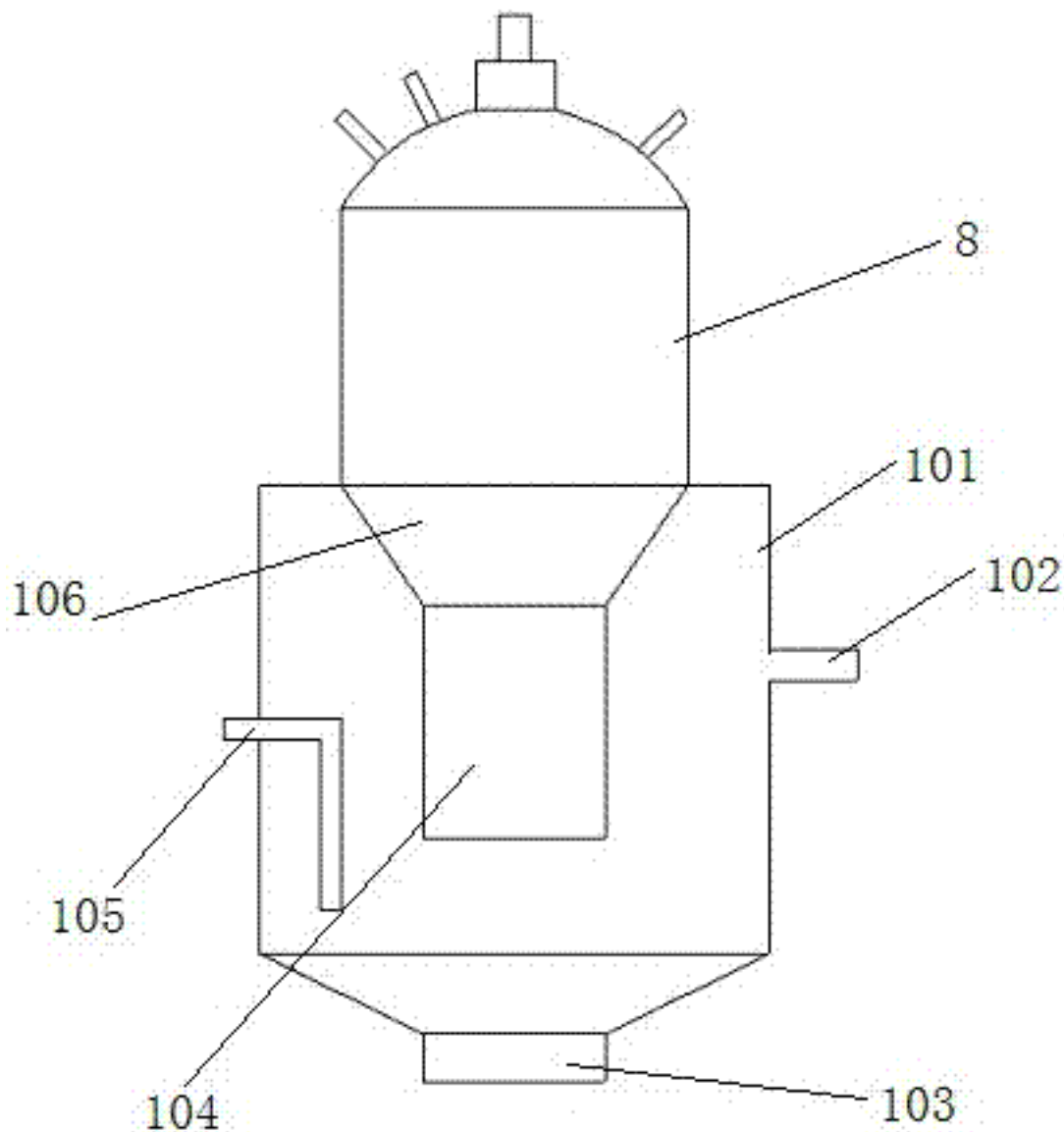
ANTACOR

Family 8/20 - FAMPAT - ©Questel

Title

(CN206843376U)

Oil water **separator** that **plastic** refuse handled**Images**

**Publication data including kind & date**

CN206843376

U

2018-01-05

CN206843376U

**Abstract**

(CN206843376U)

The utility model provides an oil water separator that plastic refuse handled, is applicable to a plastic refuse processing system, including the oil water separator shell, and oil -out, drain, feed liquor pipe, outlet pipe, catch tray, the oil water separator shell install the lower extreme at the condenser, the oil -out install on the oil water separator shell, the drain setting in the bottom of oil water separator shell, the feed liquor pipe install at oil water separator shell cavity, for the tubulose, the upper end is connected with the catch tray, the lower extreme is uncovered, the outlet pipe setting on the oil water separator shell, the position height of upper end delivery port of outlet pipe be less than the position height of oil -out, the catch tray install the inner chamber at the oil water separator shell, for the back taper thin -wall hollow body, lower extreme and inlet pipe connection are connected with one -level condenser shell on the condenser in its upper end, have the water oil separating function that can realize plastic refuse processing system, simple structure is compact, convenient operation's characteristics.

Inventors

ZHANG ZHENTANG

YU HUALONG

Latest standardized assignees - inventors removed

HENAN DIZHILYU ENVIRONMENTAL PROTECTION TECHNOLOGY

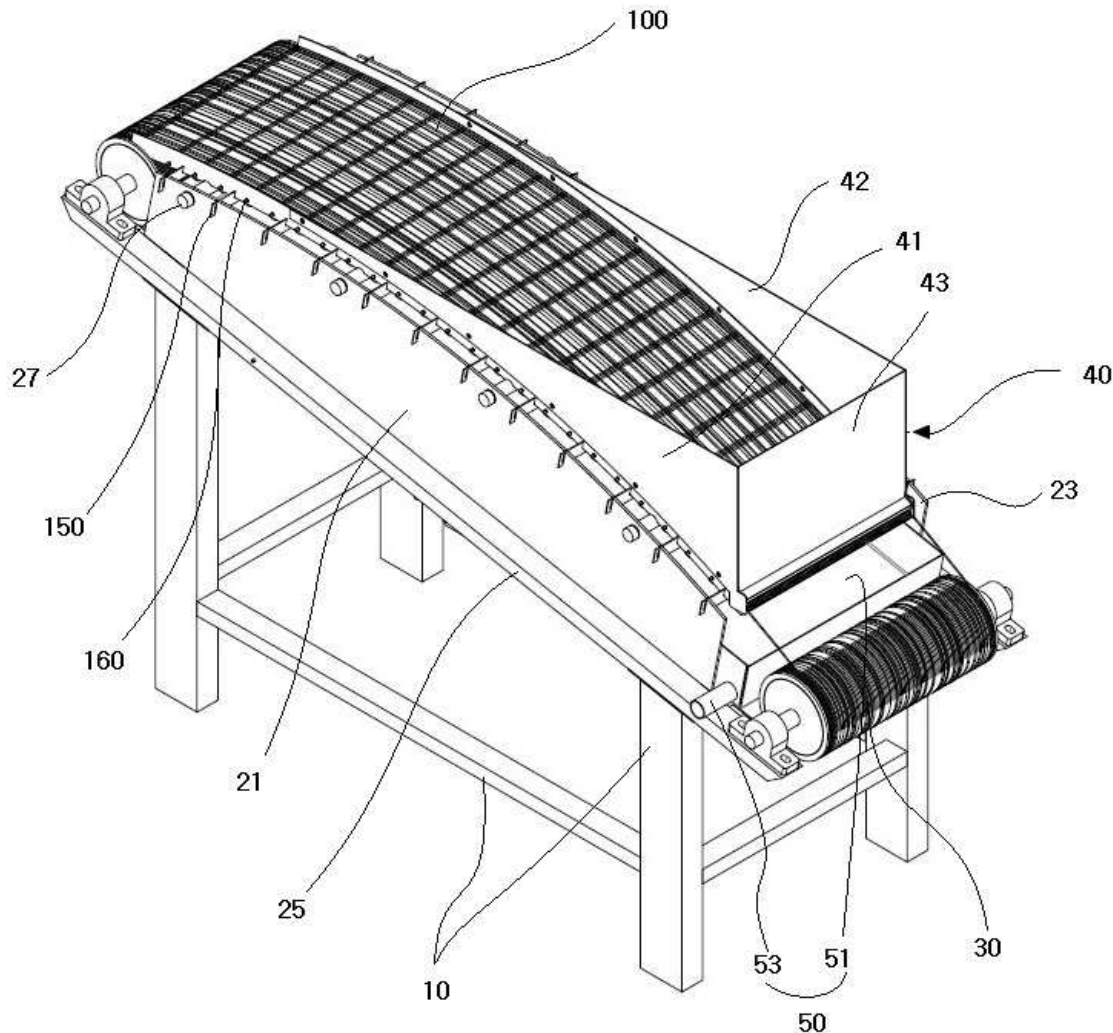
Family 9/20 - FAMPAT - ©Questel

Title

(KR101542930)

Apparatus for separating **solid** from mixture including slits by movig wire

Images



Publication data including kind & date

[KR101542930](#)

B1 2015-08-10

KR101542930



Abstract

(KR101542930)

The present invention relates to a mixture separation apparatus having wire holes formed by a moving wire. The mixture separation apparatus can effectively remove **solid** particles or a microorganism membrane which clog holes when a mixture is filtrated, is maintained and managed in an easy manner, and has a simple structure. The present invention provides the mixture separation apparatus including: a mixture separation **sieve** having a plurality of plates, arranged at intervals to separate the mixture into **liquid** and **solid** particles by using the size of the particles of the inserted mixture, and the moving wire which is arranged in spaces, formed between the plates, and moves while dividing the spaces into a plurality of the wire holes; a main body frame having side frames arranged on both side of the mixture separation **sieve** to support the mixture separation **sieve**; a support frame arranged on a lower portion of the main body frame to support the main body frame; and a wire transferring unit which transfers the moving wire to transfer the **solid** particles, sieved by the mixture separation **sieve**, in the lengthwise direction.

Inventors

PARK KYEUNG SIK

LEE JOO YEOUL

PARK JI HWAN

PARK SEUNG HWAN

Latest standardized assignees - inventors removed

KOREA WATER TECHNOLOGY

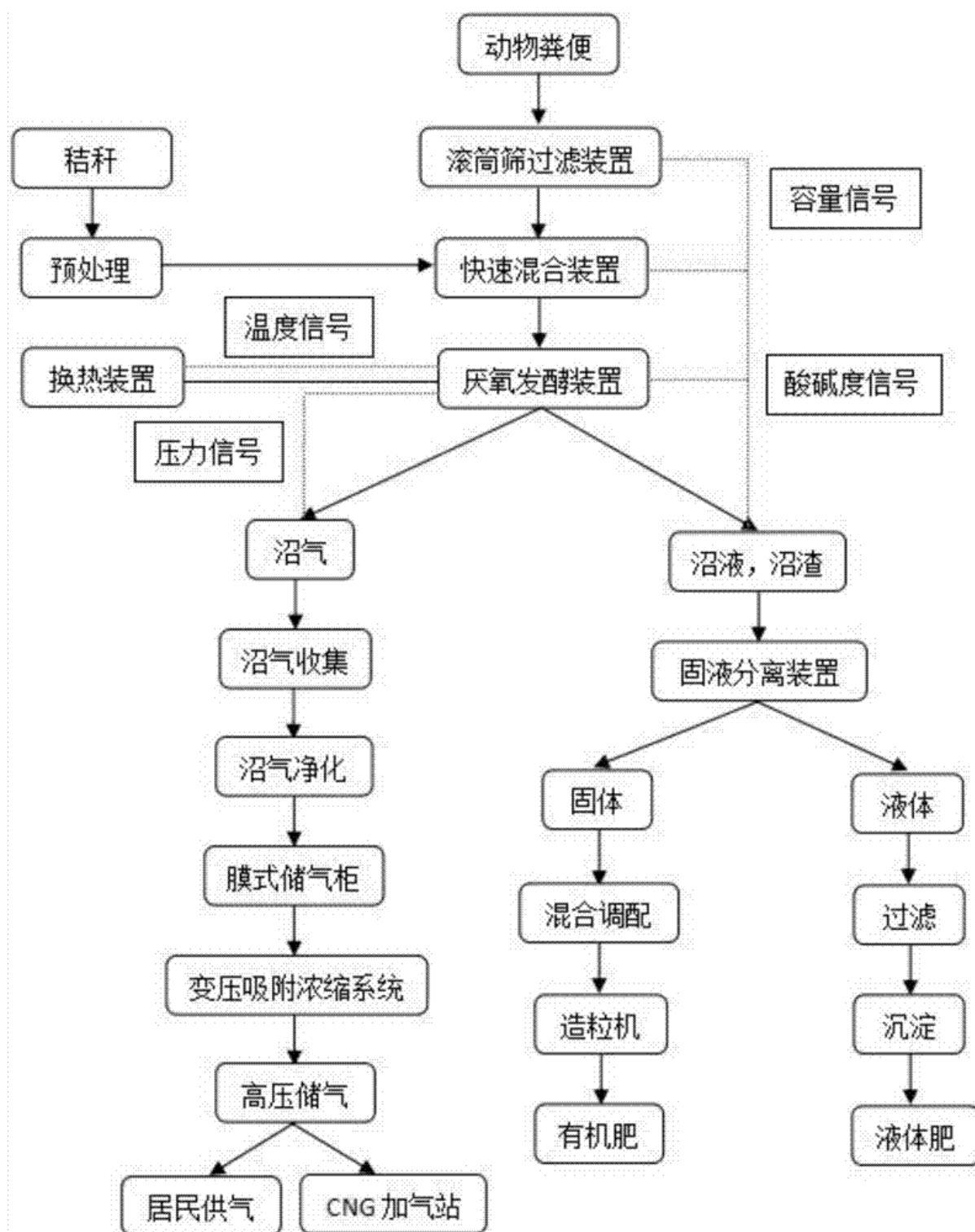
Family 10/20 - FAMPAT - ©Questel

Title

(CN108191474)

Animal excrement harmless resource utilization intelligent treatment system and method

Images



CN108191474

A 2018-06-22 CN108191474

Abstract

(CN108191474)

The invention discloses an animal excrement harmless resource utilization intelligent treatment system and method. The system comprises a roller sieve filtering device, a fast mixing device, an anaerobic fermentation device, a marsh gas collecting device, a gas purification assembly, a gas storage device and a solid-liquid treatment assembly, wherein the roller sieve filtering device is used for removing impurities in animal excrement; the fast mixing device is used for mixing the screened animal excrement with stalks subjected to biological fermentation; the anaerobic fermentation device is used for performing anaerobic fermentation on the mixed materials; the marsh gas collecting device is used for collecting marsh gas generated in the anaerobic fermentation device; the gas purification assembly is used for performing desulfurization, dewatering and decarburization treatment on the marsh gas collected by the marsh gas collecting device; the gas storage device is used for performing constant pressure storage on the gas purified by the gas purification assembly; the solid-liquid treatment assembly is used for separating biogas slurry and biogas residue after the fermentation, preparing the treated biogas slag into organic fertilizer, and preparing the treated biogas slurry into liquid fertilizer. The animal excrement harmless resource utilization intelligent treatment system and method have the advantages that multiple functions of excrement fermentation, marsh gas production, organic fertilizer preparation and the like are integrated; the technical process is shortened; the efficiency is greatly improved; meanwhile, a yield increase novel path is also developed for people in regions with developed breeding industry.

Inventors

LI ZHANGHE

LI RUNZE

WANG XIAOMING

XING XUDONG

ZHANG YANBIN

REN YANXIN

HOU YALI

Latest standardized assignees - inventors removed

QINGDAO TECHNOLOGICAL UNIVERSITY

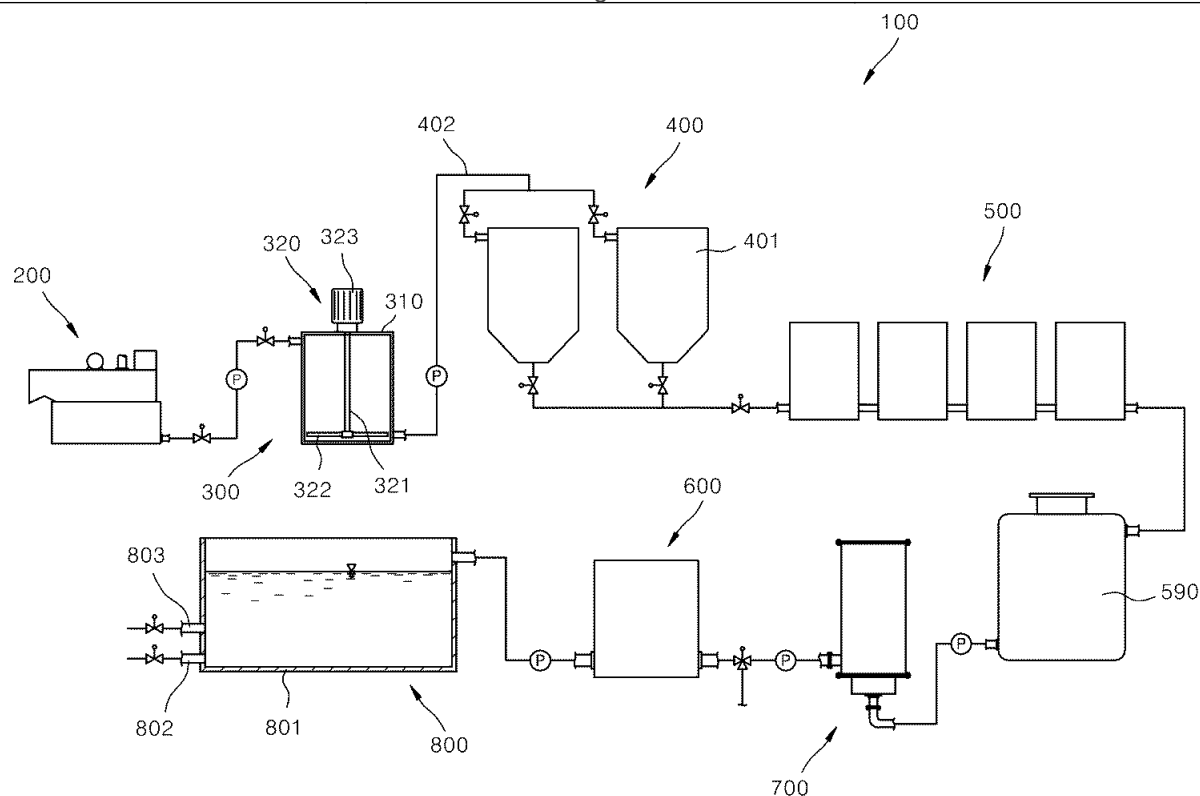
Family 11/20 - FAMPAT - ©Questel

Title

(KR101758124)

Processing system for excretion of animals

Images



Publication data including kind & date

KR20160061838	A	2016-06-01	KR20160061838
KR101758124	B1	2017-07-26	KR101758124



Abstract

(KR101758124)

The present invention relates to a system for treating excretions of animals, which collects excretions of animals, separates solids from the excretions, and then treats the solids-free excretions by supplying oxygen and ozone thereto. The system for treating excretions of animals comprises: a **solid/liquid** separation unit which separates excretions, supplied via an excretion supply unit, into solids and a **liquid** treatment target; an agitation unit which receives the treatment target separated from the excretions via the **solid/liquid** separation unit, and agitates the treatment target; a fermentation unit which receives the treatment target from the agitation unit and ferments the treatment target; an aeration unit which receives the treatment target from the fermentation unit and dissolves oxygen in the treatment target; a filtering unit which receives the treatment target in which the oxygen has been dissolved from the aeration unit and filters out harmful material included in the treatment target; an ozone dissolution unit which mixes ozone with the treatment target supplied from the filtering unit; and a precipitation unit which receives the treatment target in which the ozone has been dissolved from the ozone dissolution unit and precipitates impurities included in the treatment target.

Inventors

KOO HEUNG HOE

Latest standardized assignees - inventors removed

YUMUNG EMC

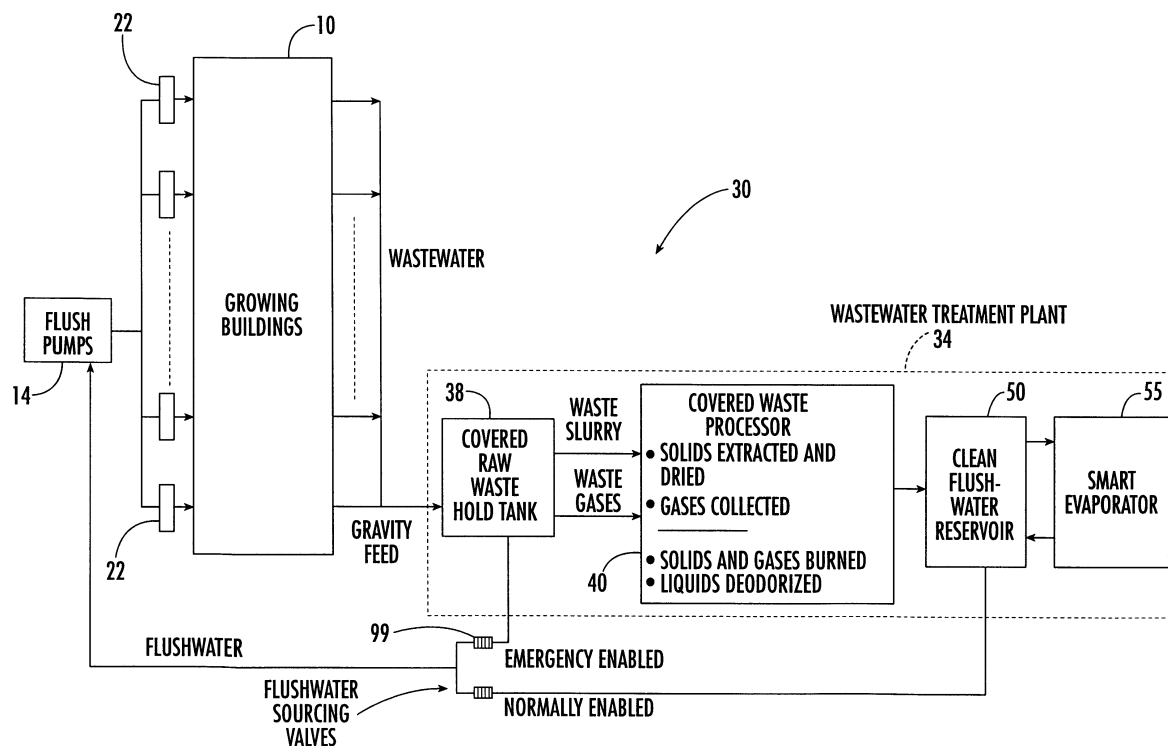
Family 12/20 - FAMPAT - ©Questel

Title

(EP1117617)

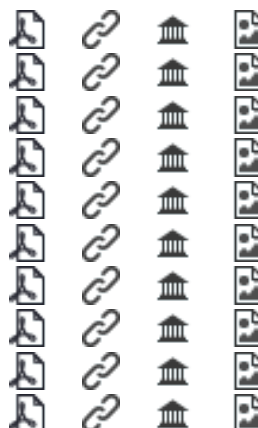
Treatment of waste produced by farm animals raised under confined conditions

Images



Publication data including kind & date

WO9967174	A1	1999-12-29	WO9967174
AU4579499	A	2000-01-10	AU9945794
WO9967174	A9	2000-04-06	WO9967174
US6190566	B1	2001-02-20	US6190566
BR9912211	A	2001-04-10	BR9912211
BRPI9912211	A1	2001-04-10	BRPI9912211
EP1117617	A1	2001-07-25	EP1117617
US20010013497	A1	2001-08-16	US20010013497
CN1313835	A	2001-09-19	CN1313835
JP2002518034	A	2002-06-25	JP2002518034



Abstract

(EP1117617)

Noxious odors and water pollution commonly associated with raising of hogs, cattle or poultry under confined conditions are eliminated by replacing the conventional waste lagoon and waste spreading fields with a wastewater treatment plant (34). The treatment plant (34) extracts **manure** from the wastewater, then dries (40) and burns (40) the **manure** along with collected waste gases. The **liquid** waste portion is filtered (40), deodorized (40) and then recirculated to the growing buildings (10) via pump (14) as flushwater.

Inventors

KOLBER STEVEN N

Latest standardized assignees - inventors removed

STEVEN N COLBERT

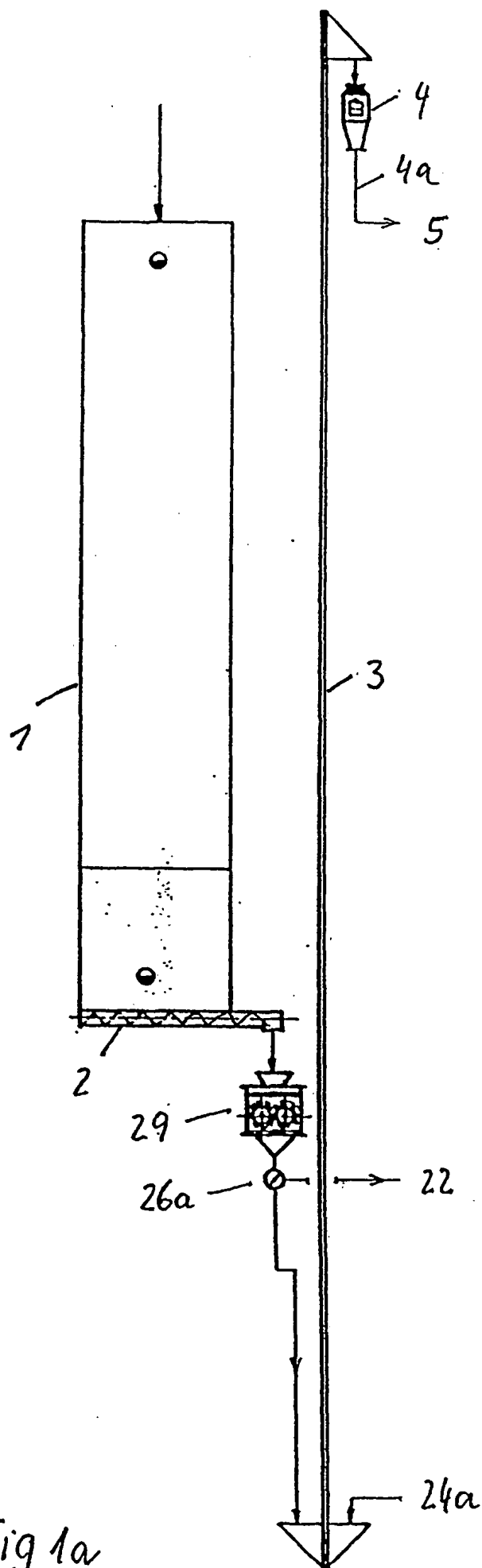
Family 13/20 - FAMPAT - ©Questel

Title

(EP1372409)

Method and system for preparing extraction meal from sun flower seeds for animal feed

Images



Publication data including kind & date

WO02080699	A2	2002-10-17	WO200280699
CA2443073	A1	2002-10-17	CA2443073
DE10117421	A1	2002-10-24	DE10117421
WO02080699	A3	2002-12-12	WO200280699
NO20034467	A	2003-10-06	NO200304467
NO20034467	D0	2003-10-06	NO200304467
EP1372409	A2	2004-01-02	EP1372409
CZ20032859	A3	2004-01-14	CZ200302859
UA75645	C2	2004-01-15	UA--75645
MXPA03009045	A	2004-02-12	MX2003PA009045
MD20030263	A	2004-02-29	MD200300263
SK13582003	A3	2004-03-02	SK200301358
ZA200308043	B	2004-04-28	ZA200308043
CN1512841	A	2004-07-14	CN1512841
US20040146628	A1	2004-07-29	US20040146628
BG108304	A	2004-07-30	BG-108304
JP2004524042	A	2004-08-12	JP2004524042
HU0400286	A2	2004-08-30	HU200400286
BR0208864	A	2004-10-19	BR200208864
BRPI0208864	A1	2004-10-19	BRPI0208864
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PL366695	A1	2005-02-07	PL2002366695
AT288205	T	2005-02-15	ATE288205
DE50202169	D1	2005-03-10	DE50202169
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DK1372409	T3	2005-06-20	DK1372409T
IN0940/MUMNP/2003	A	2005-06-24	IN2003MN00940
SI1372409	T1	2005-06-30	SI1372409T
PT1372409	E	2005-06-30	PT1372409
ES2237680	T3	2005-08-01	ES2237680
HRP20030896	A2	2005-08-31	HRP20030896
CZ296608	B6	2006-04-12	CZ-296608
SK285055	B6	2006-05-04	SK-285055
YU76603	A	2006-05-25	YU200300766
NO322574	B1	2006-10-30	NO-322574
BG64933	B1	2006-10-31	BG--64933
MD3221	B2	2007-01-31	MD---3221
HRP20030896	B1	2007-02-28	HRP20030896
RU2297155	C2	2007-04-20	RU2297155
IN205426	B	2007-06-29	IN-205426
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MEP9809	A	2011-12-20	ME--P9809				
BR0208864	B1	2013-08-13	BR200208864				

Abstract

(EP1372409)

The invention relates to a method and a system for preparing waste-free extraction meal from the seeds of conventional sunflowers for animal feed for monogastrics or ruminants. The extraction meal from shell kernels and shells with adherent kernel parts is mechanically structured, chunks of extraction meal material are comminuted, kernel parts adhering to the shells are removed and the shells are coarsely comminuted while maintaining and improving the structure and the structured particles are separated into two fractions containing various amounts of crude proteins and crude fibers, one protein-rich fraction which is suitable for feeding monogastrics is obtained and one fraction containing crude fibers which is suitable for feeding ruminants is obtained, being subjected to a decomposition process in order to increase nutritive value and digestibility.

Inventors

WALTER ULRICH

Latest standardized assignees - inventors removed

WALTER ULRICH

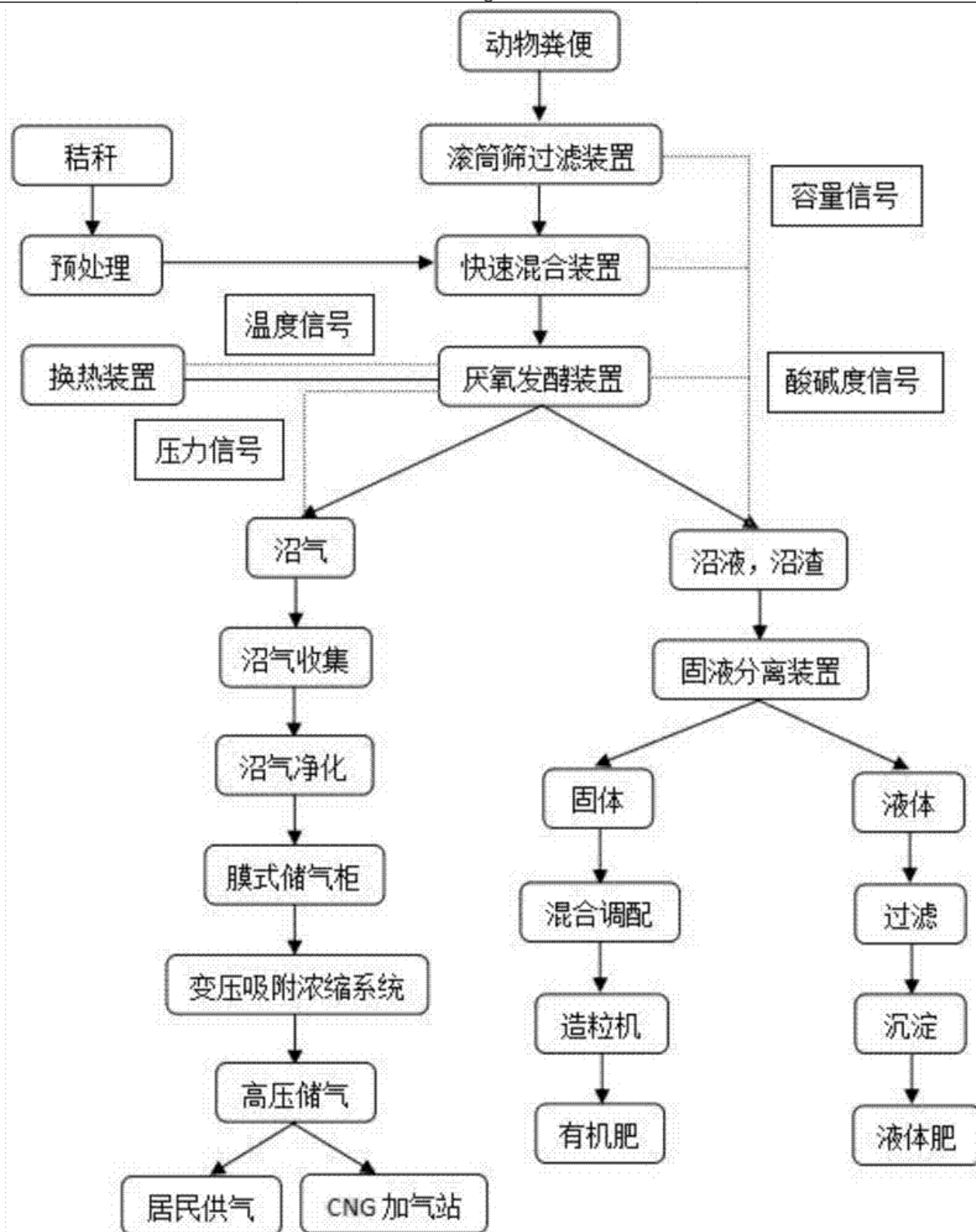
Family 14/20 - FAMPAT - ©Questel

Title

(CN208500789U)

Animal waste harmless of resources recycling intelligent processing system

Images



Publication data including kind & date

CN208500789

U

2019-02-15

CN208500789U



Abstract

(CN208500789U)

The present utility model discloses an animal waste harmless of resources recycling intelligent processing system, comprising: a drum screen filter, to remove impurities in the animal feces; rapid mixing device, after a passing through the animal excrement will be screened for biological fermentation mixed straw; anaerobic fermentation apparatus, the mixed material is subjected to anaerobic fermentation; biogas collection device, to be collected for anaerobic fermentation biogas generated within the device; gas purification assembly, to the biogas collection device collecting biogas desulfurizing, dehydrating, decarburization treatment; gas storage device, the gas purification assembly for constant pressure of gas purged storage; **solid-liquid** processing component, the fermented biogas and the biogas fluid separation, processing and producing organic fertilizer to the biogas; processed to **liquid** fertilizer into biogas fluid. The present utility model set fermented **manure**, generating a biogas, such as a multi-function to an integral system, organic **manure**, greatly reduced is

also greatly improved the efficiency of the procedure, but also for people in developed areas farming yield Increase one opens a new route.

Inventors

XING XUDONG

WANG XIAOMING

REN YANXIN

DENG CUNZHI

ZHANG YANBIN

HOU YALI

LI ZHANGHE

Latest standardized assignees - inventors removed

QINGDAO TECHNOLOGICAL UNIVERSITY

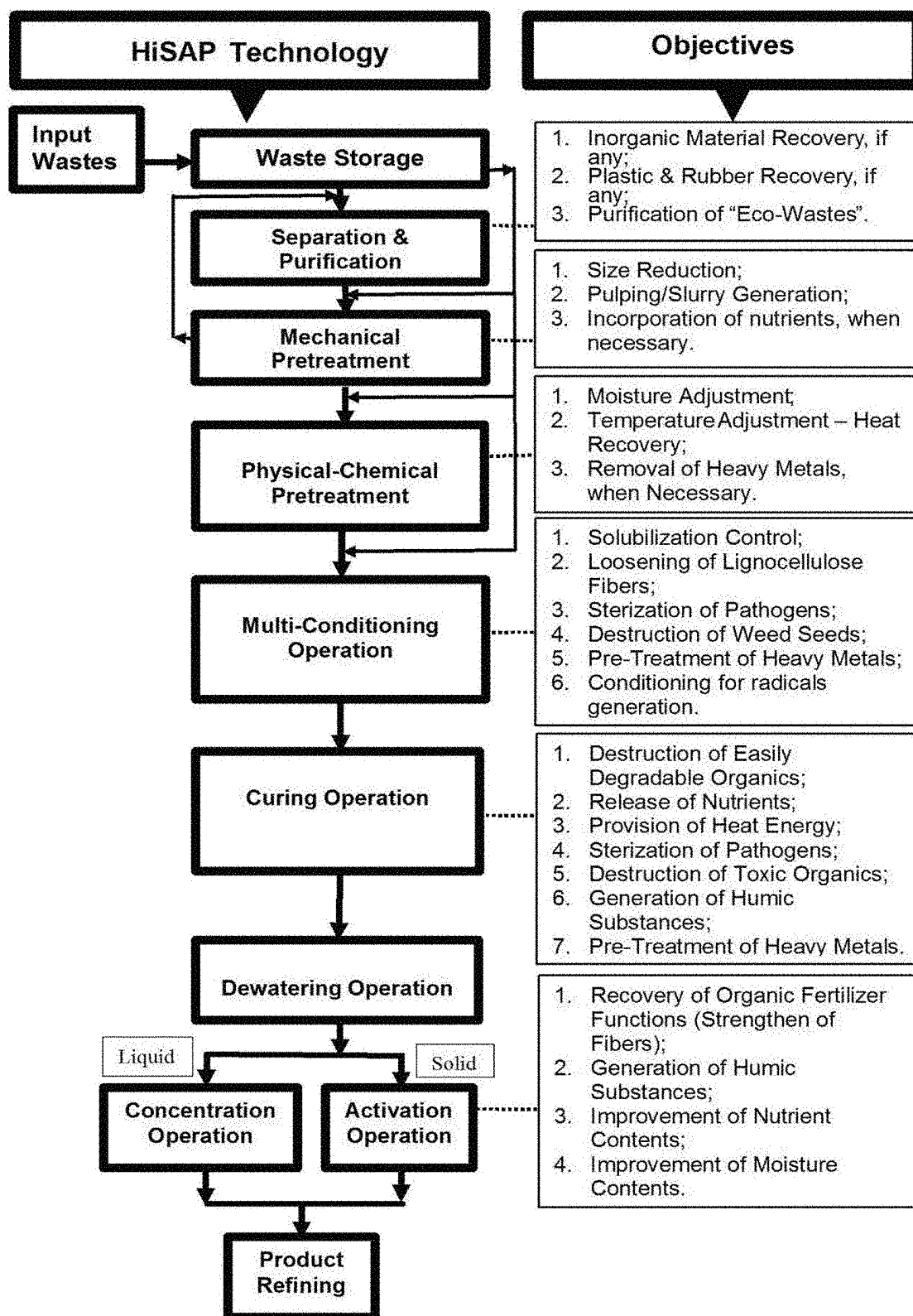
Family 15/20 - FAMPAT - ©Questel

Title

(US20180370867)

Process and equipment for high-speed recycling and treatment of organic wastes and generation of organic fertilizer thereby

Images



Publication data including kind & date

CN107540432 A 2018-01-05 CN107540432
 US20180370867 A1 2018-12-27 US20180370867



Abstract

(US20180370867)

Methods and equipment for high-speed production and improving quality of **liquid** and **solid** organic fertilizers from organic **solid** wastes by (1) pre-treatment system, for purification, size reduction, and slurry generation, (2) HiSAP recycling system using slurry generated to form soluble compounds of easily degradable organics, and insoluble compounds of moderately degradable organics of mainly lignocellulosic materials, and production of organic radicals, reactive oxygen species

including superoxygen, hydroperoxyl radical, hydrogen peroxide, and hydroxyl radical to thermally decomposing easily degradable organic and curing remaining compounds therein, and (3) product refining system to produce organic fertilizers, to enhance 7 major functions and capabilities including moisture absorption and holding, nutrients adsorption and holding, soil particles holding and conserving, soil air ventilation, soil water transmission, soil thermal insulation, and generation of plant growth stimulation agents, and pollution elimination as sterilizing pathogens and parasites, detoxicating toxic organics, and removing heavy metals therefrom.

Inventors

LU JAMES CHENG-SHYONG

Latest standardized assignees - inventors removed

BEIJING 3G ECO TECHNOLOGY

Family 16/20 - FAMPAT - ©Questel

Title

(WO201527873)

System for rapidly making fertilizer using household waste

Images

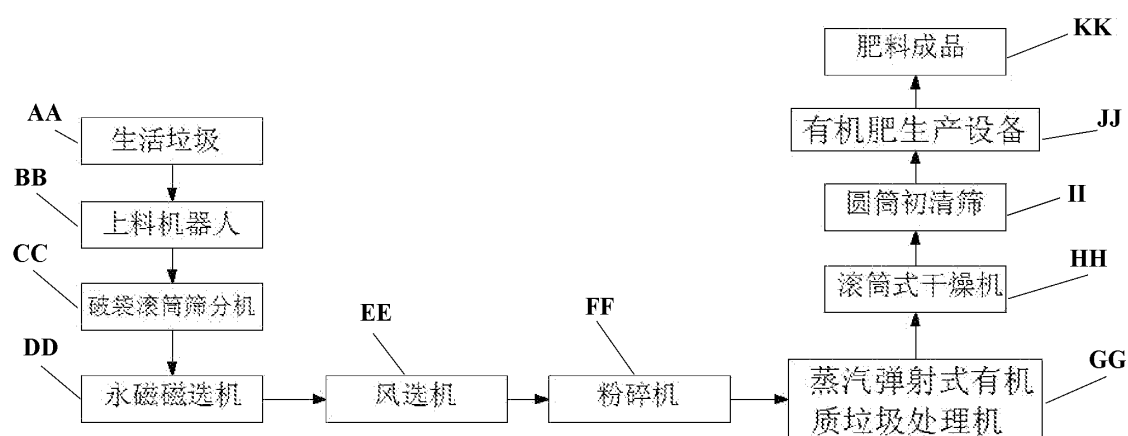


图 1 /FIG. 1

AA Household waste

BB Feeding robot

CC Bag-breaking drum screening machine

DD Permanent magnetic separator

EE Winnowing machine

FF Pulverizer

GG Steam ejection-type organic waste disposer

HH Drum drier

II Cylinder pre-cleaning screen

JJ Organic fertilizer production equipment

KK Fertilizer product

Publication data including kind & date

CN103420690	A	2013-12-04	CN103420690
WO2015027873	A1	2015-03-05	WO201527873
CN103420690	B	2015-10-07	CN103420690B
RU2015157120	A	2017-07-05	RU2015157120



Abstract

(WO201527873)

The invention relates to a system for rapidly making fertilizer using household waste. The system comprises a feeding robot, a bag-breaking drum screening machine, a permanent magnetic separator, a winnowing machine, a steam ejection-type organic waste disposer, a drum drier, a cylinder pre-cleaning screen, a conveyor and organic fertilizer production equipment. The feeding robot is connected with an inlet of the bag-breaking drum screening machine through the conveyor, an outlet of the bag-breaking drum screening machine is connected with an inlet of the permanent magnetic separator, an

outlet of the permanent magnet magnetic **separator** is connected with an inlet of the winnowing machine, the winnowing machine is connected with the steam ejection-type organic waste disposer, which is connected with an inlet of the drum drier, an outlet of the drum drier is connected with an inlet of the cylinder pre-cleaning screen through the conveyor, and the cylinder pre-cleaning screen is connected with the organic fertilizer production equipment through the conveyor. The present invention features a short fertilizer-making time, a large waste throughput, a high fertilizer efficiency, convenient production, high operability, effectively solves the problems that the waste pollutes the environment and harms the ecology, realizes recycling, and is environmentally friendly.

Inventors

GAO WEIHUA

Latest standardized assignees - inventors removed

TIANZI ENVIRONMENT PROT INVEST HOLDING

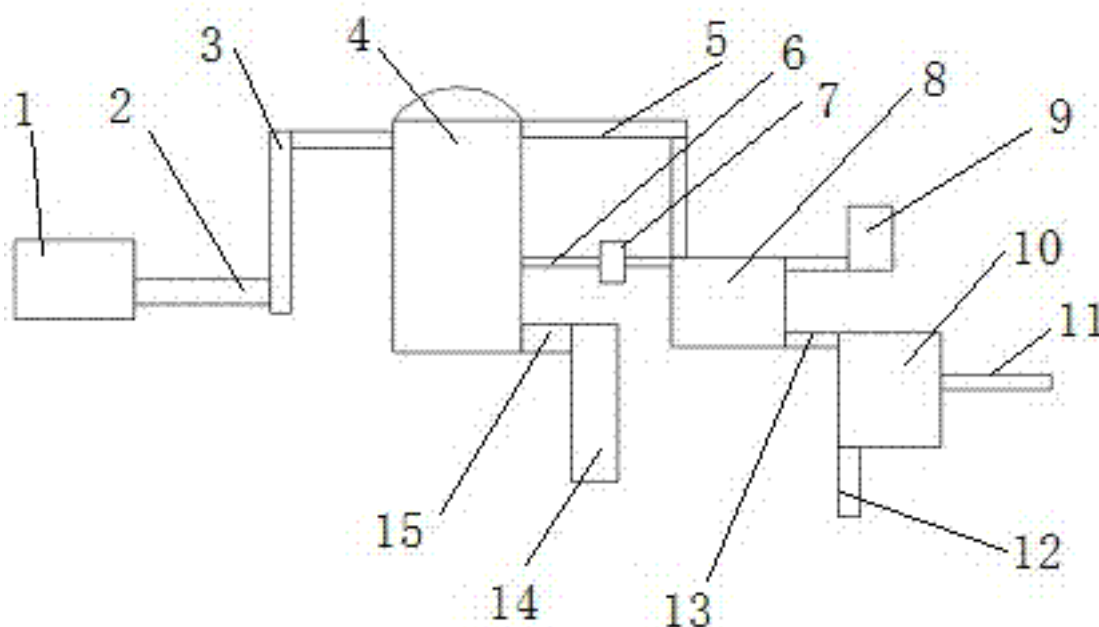
Family 17/20 - FAMPAT - ©Questel

Title

(CN107309243)

Treatment method for **plastic** garbage

Images



Publication data including kind & date

CN107309243

A 2017-11-03 CN107309243



Abstract

(CN107309243)

The invention discloses a treatment method for **plastic** garbage and belongs to the field of garbage treatment. The treatment method comprises the following steps that 1, the **plastic** garbage is pretreated; 2, the sorted **plastic** garbage is loaded into conveying equipment; 3, the **plastic** garbage is put into a cracking furnace to be subjected to normal-pressures anaerobic continuous cracking; 4, waste residues discharged from the cracking furnace are put into block extrusion equipment; 5, steam generated by the cracking furnace passes through a neutralizing device; 6, the steam generated by the cracking furnace is put into a condenser; 7, combustible gas after passing through the condenser is conveyed to a gas storage tank; 8, **liquid** discharged by the condenser is conveyed to an oil-water **separator**; 9, **liquid** treated by the neutralizing device is proportioned to form **liquid** fertilizers; and 10, the above steps are achieved through a **plastic** garbage treatment system. The characteristics that continuous cracking of the multi-component **plastic** garbage can be achieved, in the cracking process, no **solid** or **liquid** or gas which pollutes the environment is discharged, comprehensive utilization of the **plastic** garbage is achieved, and energy is saved are achieved.

Inventors

ZHANG ZHENTANG

YU HUALONG

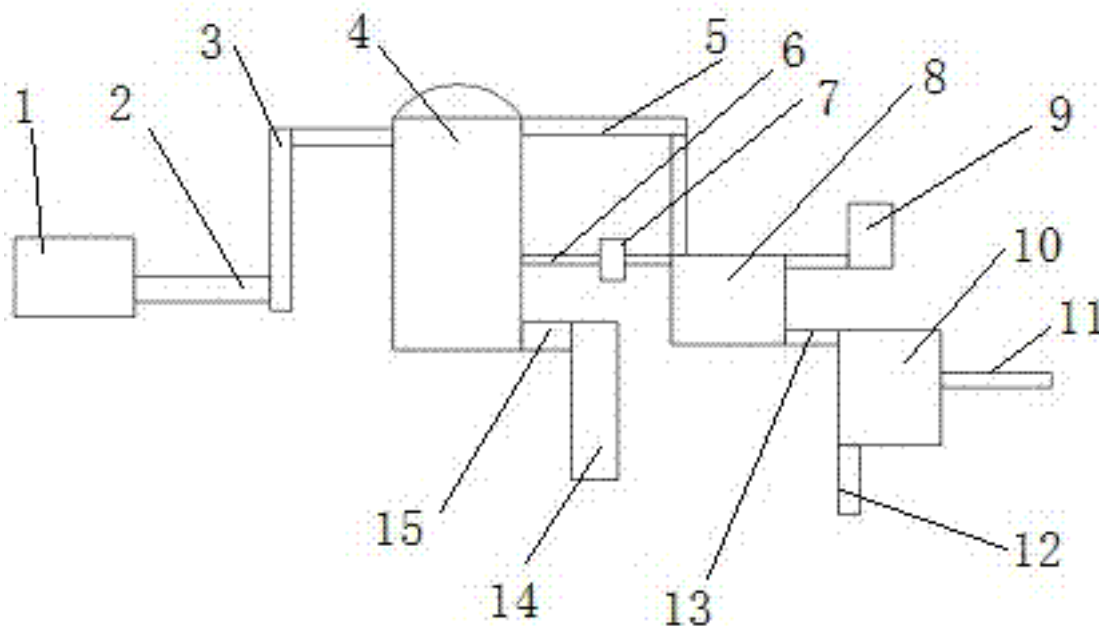
Latest standardized assignees - inventors removed

HENAN DIZHILYU ENVIRONMENTAL PROTECTION TECHNOLOGY

Family 18/20 - FAMPAT - ©Questel

Title

(CN107202328)

Plastic garbage treatment system**Images****Publication data including kind & date**[CN107202328](#)

A

2017-09-26

CN107202328

**Abstract**

(CN107202328)

The invention discloses a **plastic** garbage treatment system, and belongs to the field of garbage treatment. The **plastic** garbage treatment system comprises a pretreatment system, conveying equipment, an additive adding device, a cracking furnace, a neutralizing device, a fuel gas recycling system, a condenser, an oil-water **separator**, building block producing equipment and an oil material storing device; the pretreatment system is installed at the feeding inlet end of the conveying equipment; the conveying equipment is installed between the pretreatment system and the cracking furnace; the cracking furnace is installed at the discharging outlet end of the conveying equipment; the neutralizing device is installed over the cracking furnace; the fuel gas recycling system is installed between the condenser and the cracking furnace; the condenser is installed on one side of the cracking furnace; the oil-water **separator** is installed on the lower portion of the condenser, and the building block producing equipment is installed on one side of the cracking furnace. The **plastic** garbage treatment system has the advantages that continuous cracking of multi-component **plastic** garbage can be achieved, no **solid** or **liquid** or gas polluting the environment is discharged in the cracking process, comprehensive utilization of the **plastic** garbage is achieved, and energy resources are saved.

Inventors

ZHANG ZHENTANG

YU HUALONG

Latest standardized assignees - inventors removed

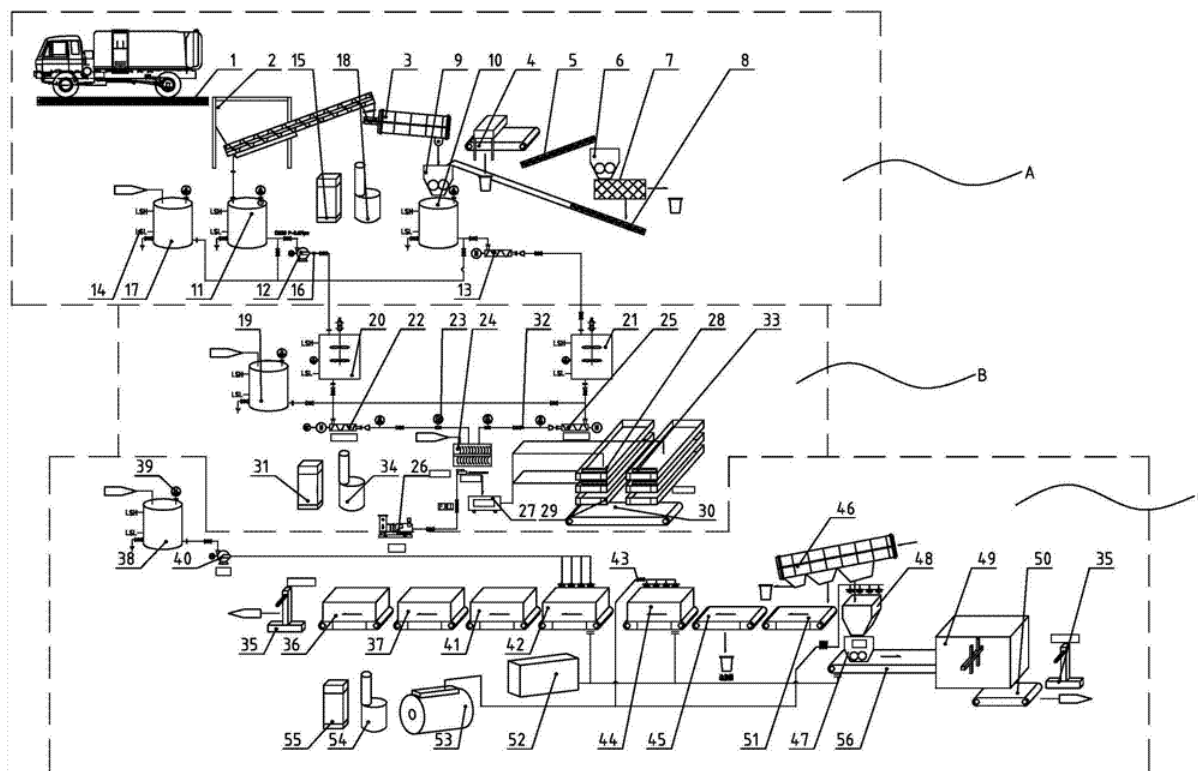
HENAN DIZHILYU ENVIRONMENTAL PROTECTION TECHNOLOGY

Family 19/20 - FAMPAT - ©Questel

Title

(CN108889767)

Novel method and utilizing kitchenware waste disposal system

Images**Publication data including kind & date**

CN108889767

A 2018-11-27 CN108889767

**Abstract**

(CN108889767)

A novel method and utilizing kitchenware waste disposal system, the system includes a pretreatment system, and back-end processing system cultured insect; the pre-processing system includes a sequential arrangement of the magazine, the large bowl sorters, gold exploration machine, large auger material, the shredder, and a small roller drum sorter sorting undersized smaller coil; culture system includes means for mixing air from the reservoir and a scratch pool insect scratch pool of material within the slurry was stirred mixer, a blender discharge end of automatic dispensing machines are connected to stirred, the ingredients automatically dispensing machine is provided with a delivery duct, ingredient delivery conduit outlet end of the stub with cultured worm groove; back-end processing system includes a worm fecal the trommel, the trommel is provided with a feces separator section insects, bugs and other debris separation section separating section. With the scientific utilization, a reasonable processing system, in conjunction with total automation, precision instrument assistance, from early pre-processing to the rear end of the processing, the degree of 95% or more automated, and the rear end of extremely high yield value added benefits.

Inventors

CHAI HONGHUI

WU JUN

CHEN YUEFEI

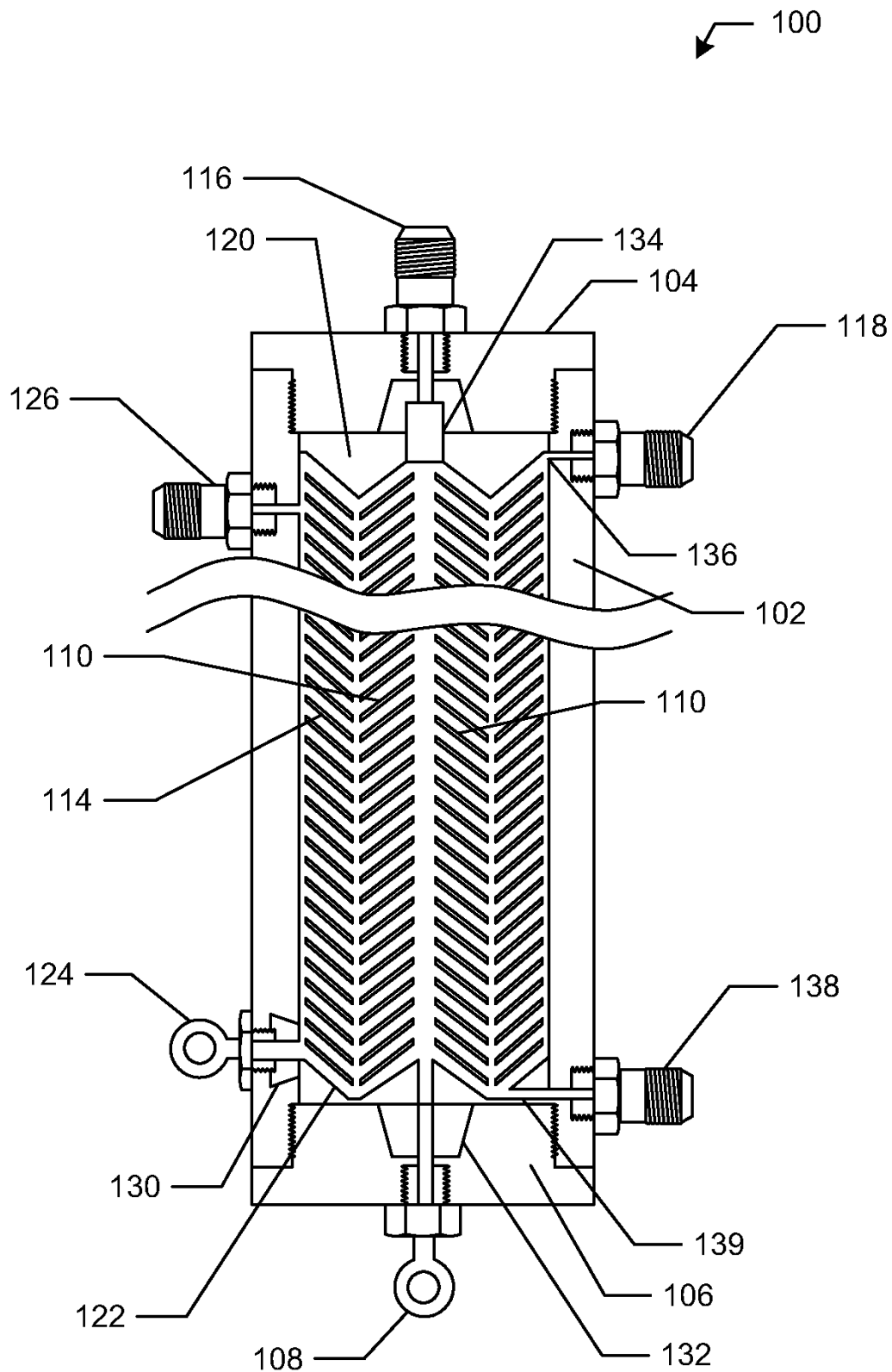
WU YUEJUAN

XIE WANLI

Latest standardized assignees - inventors removed

ZHEJIANG BAISIDA TECHNOLOGY

Images



Publication data including kind & date

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Abstract

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Internally reinforced structural composites, suitable uses for such composites, and associated methods of manufacturing are disclosed herein. In one embodiment, a method of making a reinforced structural component includes forming a precursor having a crystal structure with a plurality of lattice layers and exfoliating the precursor. As a result, a distance between adjacent pairs of the plurality of lattice layers is expanded. The method also includes wrapping the exfoliated precursor with a surface support material around at least a portion of a circumference of the individual lattice layers in the exfoliated precursor.

Inventors

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