

15 Documents

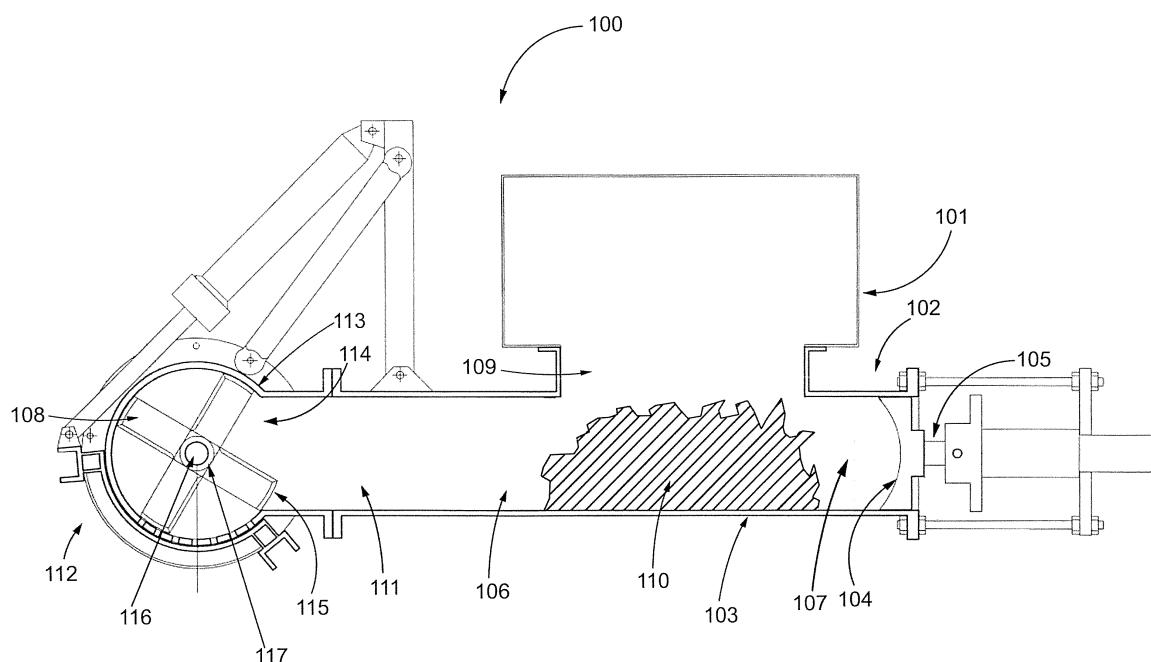
Publication numbers	Title	Current assignees
EP3326728 A1	Method and apparatus for transforming municipal solid organic and inorganic waste into aggregates	IBIRCOM
EP-733466 A2	Compacting device for inorganic solid urban waste	BIORIENTATI PLASTIC
WO2017201595 A1	Method for recovering and producing plastics contained in sanitary pads and diapers	AMBITEC
EP2820363 A1	Machine for compacting organic waste and integrated system for the separation and differential treatment of each typology of waste	R T INDUSTRY S
CN110142999 A	Plant liquid extraction device for producing graphene composite material and extraction process thereof	SHANXI DEER NEW ENERGY AUTOMOBILE, ...
CN209631351U U	Milling equipment of processing usefulness is bred to scorpion	NANJING TUAI BIOLOGICAL MEDICINE TECHNOLOGY
CN2571753U Y	Light hollow thermo-insulation brick made of solid refuse	CHANG QUANSHENG, ...
CN104370487 A	Solid garbage light hollow insulation brick	JIANG HUA
CN106824473 A	Water hyacinth fine crusher	YANCHENG MINGTIAN MACHINERY
EP2387475 A2	A composite material and method of preparing the same from substantially unsorted waste	UBQ MAT
US7717999 B1	Titanium production waste byproduct as partial cement replacement	TRONOX
CN109265033 A	Method for preparing building material lightweight aggregate and heat insulating particles by using inorganic solid waste	LONG DESHUN
CN107930793 A	Cutting device for citronella distilling	FANGCHENGANG RUNHE AGRICULTURE & FORESTRY TECHNOLOGY
CN106622536 A	Water hyacinth pulverizing and dehydrating machine	YANCHENG MINGTIAN MACHINERY
US20040043097 A1	Apparatus for and method of transforming useful material into molded or extruded articles	BOULDIN

Family 1/15 - FAMPAT - ©Questel

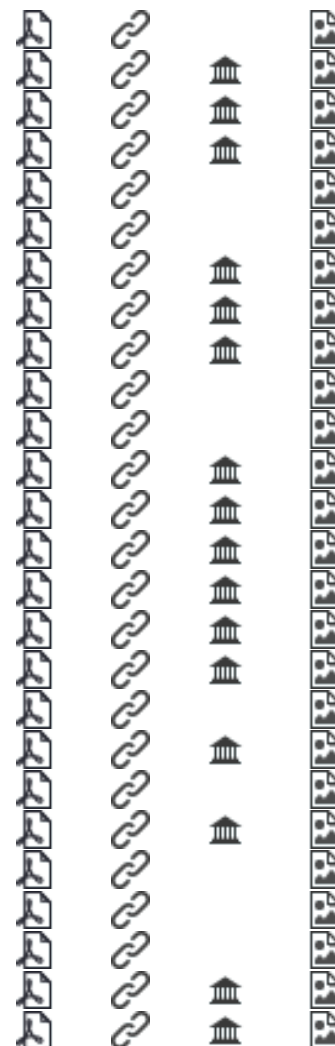
Title

(EP3326728)

Method and apparatus for transforming municipal solid organic and inorganic waste into aggregates

Images**Publication numbers with kind code & date**

LT3326728	T	2019-12-27	LT3326728
PT3326728	T	2019-12-05	PT3326728T
DK3326728	T3	2019-12-02	DK3326728T
EP3326728	B1	2019-09-04	EP3326728
RU2697384	C1	2019-08-13	RU2697384
ZA201801053	B	2019-07-31	ZA201801053
AU2015403040	B2	2019-05-09	AU2015403040
NZ739586	A	2019-03-29	NZ-739586
BR112018000614	A2	2018-09-18	BR112018000614
CR20180106	A	2018-09-04	CR201800106
MX2018000742	A	2018-08-15	MX2018000742
JP2018520873	A	2018-08-02	JP2018520873
US20180214885	A1	2018-08-02	US20180214885
IN201817006055	A	2018-06-01	IN201817006055
EP3326728	A1	2018-05-30	EP3326728
CN107921491	A	2018-04-17	CN107921491
BR112018000614	A1	2018-04-03	BR112018000614
KR20180033220	A	2018-04-02	KR20180033220
IL256657	A	2018-02-28	IL-256657
SG11201800381R	A	2018-02-27	SG11201800381R
AU2015403040	A1	2018-02-22	AU2015403040
CO2018001162	A2	2018-02-09	CO2018001162
AR105300	A1	2017-09-20	AR-105300
UY36777	A	2017-01-31	UY--36777
CA2992682	A1	2017-01-26	CA2992682
WO2017/013272	A1	2017-01-26	WO201713272



Abstract

(EP3326728)

Method and apparatus (100) for transforming organic and inorganic solid urban waste into aggregates, comprising an extruding machine connected to a reactor. The extruding machine is formed by an extrusion cylinder (103) through which a piston circulates (104) inside an extrusion cavity (106), which comprises three sections (107, 110, 111) and is fed with a parget obtained after pre-processing the waste. The end (115) of the third section (111) is connected to the reactor (112) through an opening (114). The reactor's longitudinal shaft is formed by a rotatory steel shaft (116) in which some steel blades are arranged (108), whose ends play the roles of cutting, hammering, punching and hydraulic helix as they rotate. Between the end of the blades and the wall of the reactor, there is a clearance of more than 0,1 mm of thickness. The reactor has a discharge valve (300) to discharge the parget present in the boundary area through some openings (304), once it has been processed by a series of pressure, vibration energy and decompression cycles.

Inventors

GARÍN ROTONDARO IÑAKI JOSÉ

GNÄDINGER OSCAR MIGUEL

Latest standardized assignees - inventors removed

IBIRCOM

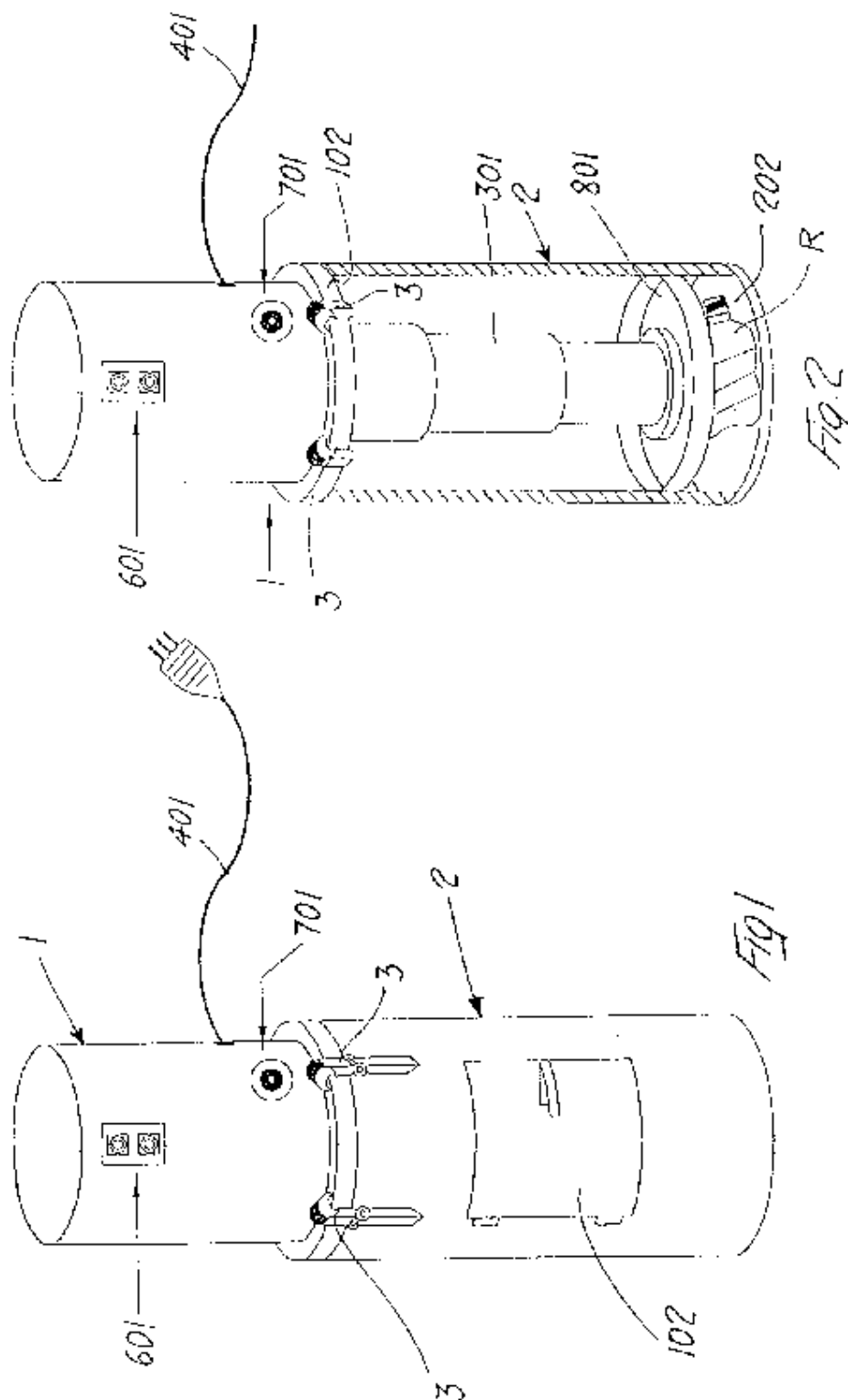
Family 2/15 - FAMPAT - ©Questel

Title

(EP-733466)

Compacting device for inorganic solid urban waste

Images



Publication numbers with kind code & date

DE69615072	T2	2002-06-27	DE69615072
DE69615072	D1	2001-10-18	DE69615072
AT205445	T	2001-09-15	ATE205445
EP0733466	B1	2001-09-12	EP-733466
US5768988	A	1998-06-23	US5768988
IT1280627	B1	1998-01-23	IT1280627
EP0733466	A3	1997-02-05	EP-733466
JP08277003	A	1996-10-22	JP08277003
CA2171994	A1	1996-09-25	CA2171994
EP0733466	A2	1996-09-25	EP-733466
ITAL950001	A1	1996-09-24	IT95AL0001



ITAL950001

D0

1995-03-24

IT95AL0001

**Abstract**

(EP0733466)

In order to carry out a compaction of the inorganic solid urban wastes, in particular hollow bodies, packages, or the like for the reduction of the dimensions and volumes of said hollow and bulky bodies (R), for example containers and packages in general, such as plastic bottles, carton and/or paste-board boxes, vessels, tanks, tins, pots, blisters, glass bottles, etc., and a more efficient household differentiated collection, the invention provides a compacting device which exhibits a construction and limited dimensions typical of usual household appliances for personal and private use. According to the invention, the device has a modular-type structure and its configuration may vary optionally from a minimum structure comprising at least a motor or hand-operated (107) compacting unit (1) which can be coupled (3) with at least a waste (R) collection and compaction container (2, 2'), to more and more complex structures. <IMAGE>

Inventors

MELONI GIANFRANCO

Latest standardized assignees - inventors removed

BIORIENTATI PLASTIC

Family 3/15 - FAMPAT - ©Questel

Title

(WO2017201595)

Method for recovering and producing plastics contained in sanitary pads and diapers

Publication numbers with kind code & date

WO2017/201595

A1

2017-11-30

WO2017201595



BR102016012020

A2

2016-08-23

BR102016012020



BR102016012020

A1

2016-07-12

BR102016012020

**Abstract**

(WO2017/201595)

The present invention patent relates to a method for recovering and producing plastics contained in sanitary pads and diapers, belonging to the chemical sector, more particularly relating to sanitary pads and diapers for personal use, producing PE (polyethylene) and PP (polypropylene) pellets, with the aim of re-using the material discarded during the production of sanitary pads and diapers, since the industrial applicability of PE and PP in the production of sanitary pads and diapers is extremely important and their cost extremely high, requiring a strict control, any losses in the production system caused by the high speed of the machines, as well as processing losses, being considered high losses for the industry. The present invention patent relates to a continuous and closed-loop process for recovering and producing plastics contained in sanitary pads and diapers, comprising the following steps: a) feeding the system; b) grinding in a cutting mill; c) agglutinating; d) extruding (the plastics); e) conveying the pellets; and f) centrifuging.

Inventors

DA SILVA MARCIO NUNES

Latest standardized assignees - inventors removed

AMBITEC

Family 4/15 - FAMPAT - ©Questel

Title

(EP2820363)

Machine for compacting organic waste and integrated system for the separation and differential treatment of each typology of waste

Images

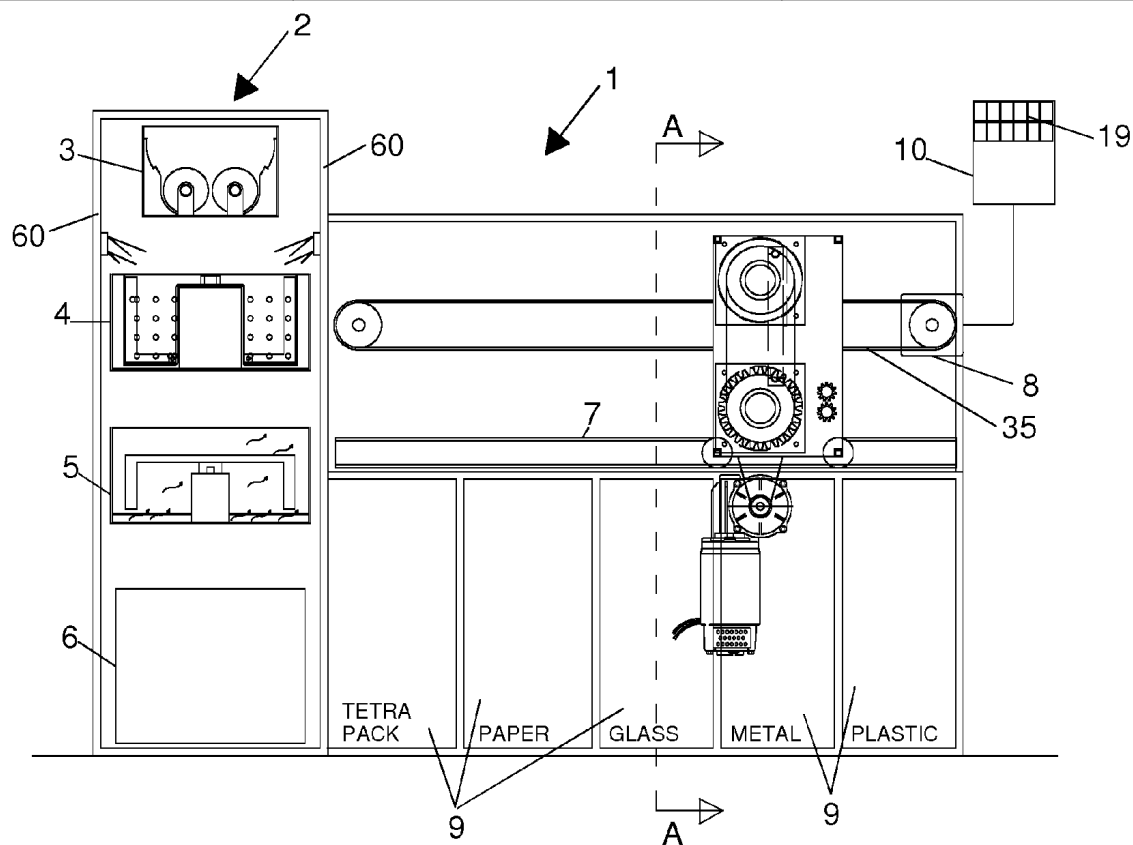


Fig. 1

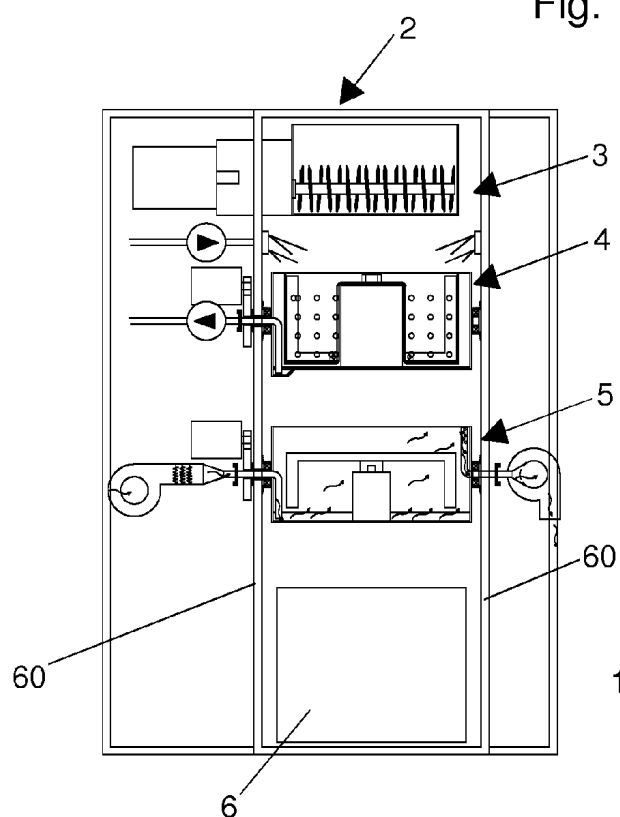


Fig. 2

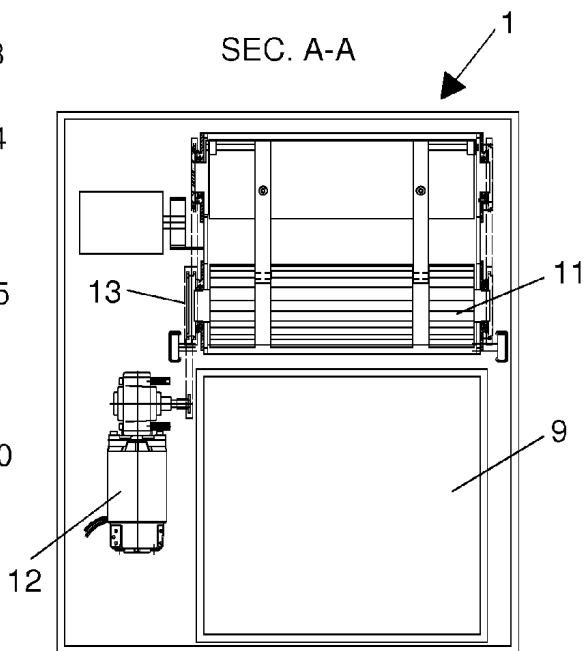


Fig. 3

Publication numbers with kind code & date

EP2820363	B1	2018-07-18
EP2820363	A1	2015-01-07
WO2013/128351	A1	2013-09-06
ITRM20120073	A1	2013-08-28

EP2820363
EP2820363
WO2013128351
IT2012RM0073



ITRM20120073

A1 2013-08-28

IT2012RM0073

**Abstract**

(EP2820363)

Compactor machine (2) for organic solid waste comprising grinding means (3) of the organic solid waste, centrifugation means (4) of the ground organic solid waste and drying means (5) of the ground and centrifuged organic solid waste. Also described is an integrated system for the differential treatment of waste comprising, in addition to said compactor machine (2) of the organic solid waste, a further machine (1) for compacting non organic solid waste and separating it on the basis of the material making up the inorganic solid waste. Dried organic waste and compacted recyclable materials are collected in biodegradable paper/plastic bags, to be directly sent to the successive processes of reuse.

Inventors

ROMANAZZI PASQUALE

Latest standardized assignees - inventors removed

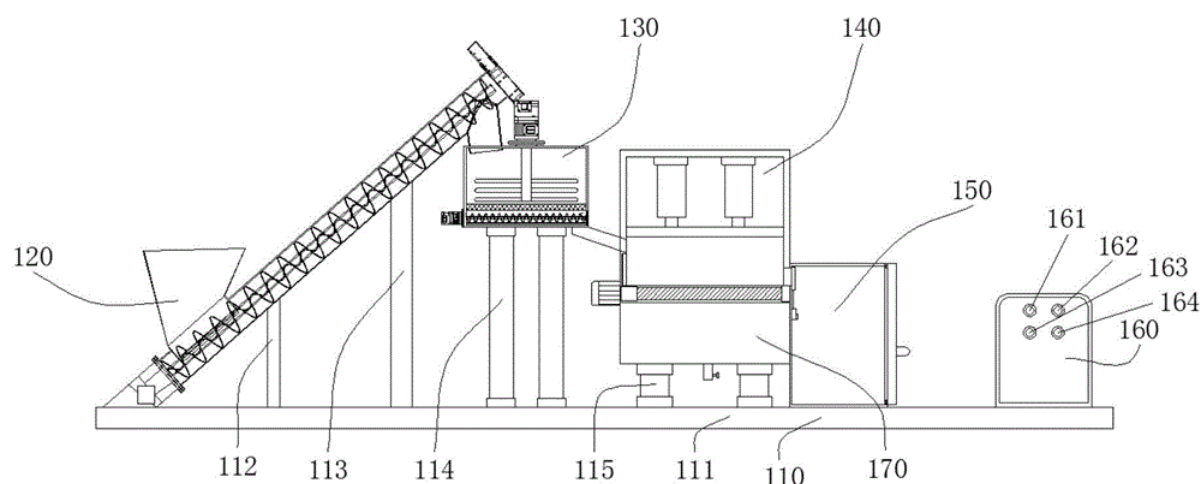
R T INDUSTRY S

Family 5/15 - FAMPAT - ©Questel

Title

(CN110142999)

Plant liquid extraction device for producing graphene composite material and extraction process thereof

Images**Publication numbers with kind code & date**

CN110142999

A 2019-08-20

CN110142999

**Abstract**

(CN110142999)

The invention discloses a plant liquid extraction device for producing a graphene composite material and an extraction process thereof. The plant liquid extraction device comprises a support structure, a first auger conveyor, a crushing mechanism, a pressing mechanism, a waste collecting mechanism, a control box and a plant liquid collecting mechanism. The pressing mechanism includes a pressing chamber, a hydraulic cylinder, a pressure plate, a first groove, a push plate, a second motor, a bearing, a screw rod, a sleeve, a first through groove, a second groove and a through hole; the second motor is arranged, an output shaft of the second motor drives the screw rod to rotate in the bearing, the sleeve is transmitted and drives the push plate to move, the push plate accordingly pushes plant waste in the pressing chamber into the first through groove, the stretchable end of a linear actuator drives a baffle to move downwards, a second through groove is opened, plant waste liquid enters a waste collection chamber through the second through groove, and the waste is collected; and manual cleaning is not needed, the whole plant liquid extraction process is automatically implemented, and the working hour of workers is saved.

Inventors

NAN HUI

LIU ZHAORONG

GONG QIAOJUAN

LI WEIWEI

LI GUOQIN

HAN HAIXIA

SUN XIAOLING

Latest standardized assignees - inventors removed

SHANXI DEER NEW ENERGY AUTOMOBILE

YUNCHENG FENGXI NEW ENERGY DEVELOPMENT

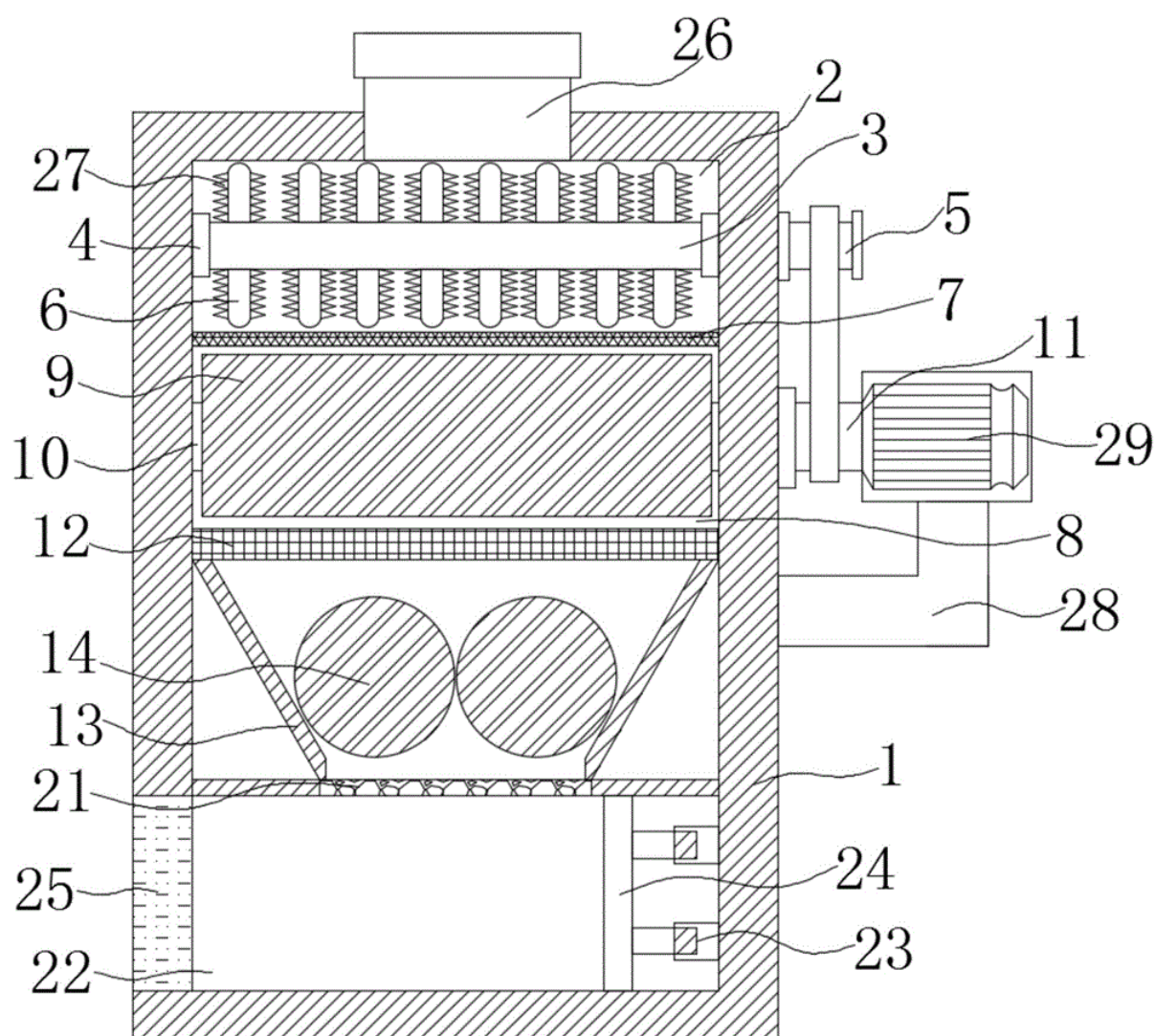
YUANCHENG UNIVERSITY

Family 6/15 - FAMPAT - ©Questel

Title

(CN209631351U)

Milling equipment of processing usefulness is bred to scorpion

Images**Publication numbers with kind code & date**[CN209631351](#)

U

2019-11-15

CN209631351U

**Abstract**

(CN209631351)

The utility model discloses a milling device for scorpion breeding and processing, which belongs to the technical field of scorpion breeding and processing, and comprises a milling box, a crushing cavity is arranged at the upper end inside the milling box, the middle end of the crushing cavity is provided with a rotary rod, a plurality of groups of crushing knives are fixedly connected with the outer side of the rotary rod, the lower end of the crushing cavity is provided with a grinding

cavity, a first grinding rod is arranged in the grinding cavity, the lower end of the grinding cavity is provided with a fine grinding cavity, two groups of second grinding rods are arranged in the fine grinding cavity, the lower end of the fine grinding cavity is provided with an extrusion cavity, the scorpions are crushed through the crushing cavity, then double grinding is carried out through the grinding cavity and the fine grinding cavity again, so that the grinding effect is better, meanwhile, the volume of the scorpion powder in each stage can be controlled through the arrangement of a plurality of layers of filter screens, and further, the powder entering the extrusion cavity is extruded out from the filter screens, thereby the milling effect, the obtained product is more uniform, and the subsequent use is more convenient.

Inventors

SHI YUELONG

GE MENGHONG

YANG YAN

JIANG MINGMING

YUAN LINGFENG

LIU WENBIN

Latest standardized assignees - inventors removed

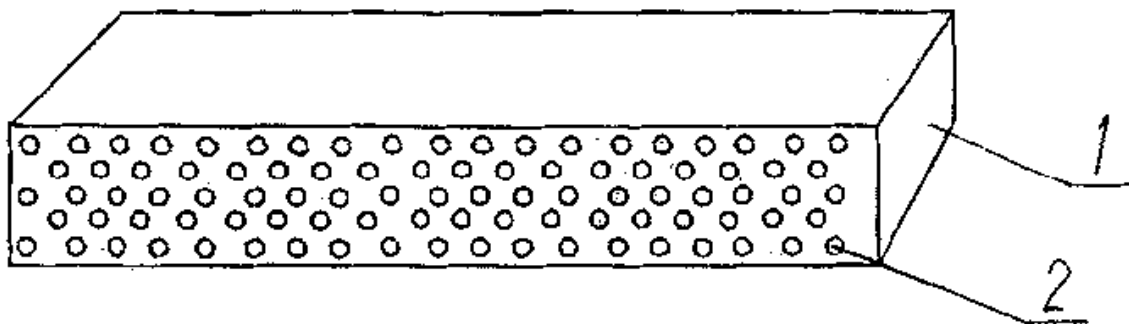
NANJING TUAI BIOLOGICAL MEDICINE TECHNOLOGY

Family 7/15 - FAMPAT - ©Questel

Title

(CN2571753U)

Light hollow thermo-insulation brick made of solid refuse

Images**Publication numbers with kind code & date**[CN2571753](#)

Y

2003-09-10

CN2571753U

**Abstract**

(CN2571753)

The utility model relates to a light hollow thermal-insulation brick made of solid refuse. The brick body is a rectangular cube formed by vibrating, extruding and molding pellets which are mixed with additives, adhesives and water, wherein, the pellets are formed by pulverization of inorganic domestic solid waste and building waste; forty to eighty small holes are distributed on the brick body, the pore diameter of each of the pores is 3MM to 13MM, the height of the brick body is 105MM, the width is 42MM, and the length is 227MM. The utility model can change the solid refuse into resource, avoid the overbreak of clay resource, reduce the damage of forest land, and be favorable to environment protection. The brick body has the advantages of porosity, light weight, high strength, and good thermal insulation.

Inventors

CHANG QUANSHENG

MA ZHUJIANG

Family 8/15 - FAMPAT - ©Questel

Title

(CN104370487)

Solid garbage light hollow insulation brick

Publication numbers with kind code & date[CN104370487](#)

A

2015-02-25

CN104370487

**Abstract**

(CN104370487)

The invention relates to a solid garbage light hollow insulation brick, the brick is in a rectangular cube shape, and is made by mixing, vibrating, extruding and moulding of house refuse inorganic solid wastes, pellet crushed by building garbage, an additive, an adhesive and water, the brick is characterized in that 40-80 small holes are distributed on the brick, and the best quantity of the small holes can be 60. The aperture of the small hole is 3-13mm. The specification of the brick is characterized in that height is 105mm, width is 42mm, and length is 227mm. The solid garbage light hollow insulation brick has the beneficial effect that solid garbage wastes can be recycled, disordered mining of clay resource can be avoided, woodland destroy is reduced, and environmental protection is convenient. The brick has multiple holes, and has the advantages of light weight, high strength, difficult damage and good insulation effect; and can be used for building insulation.

Inventors

JIANG HUA

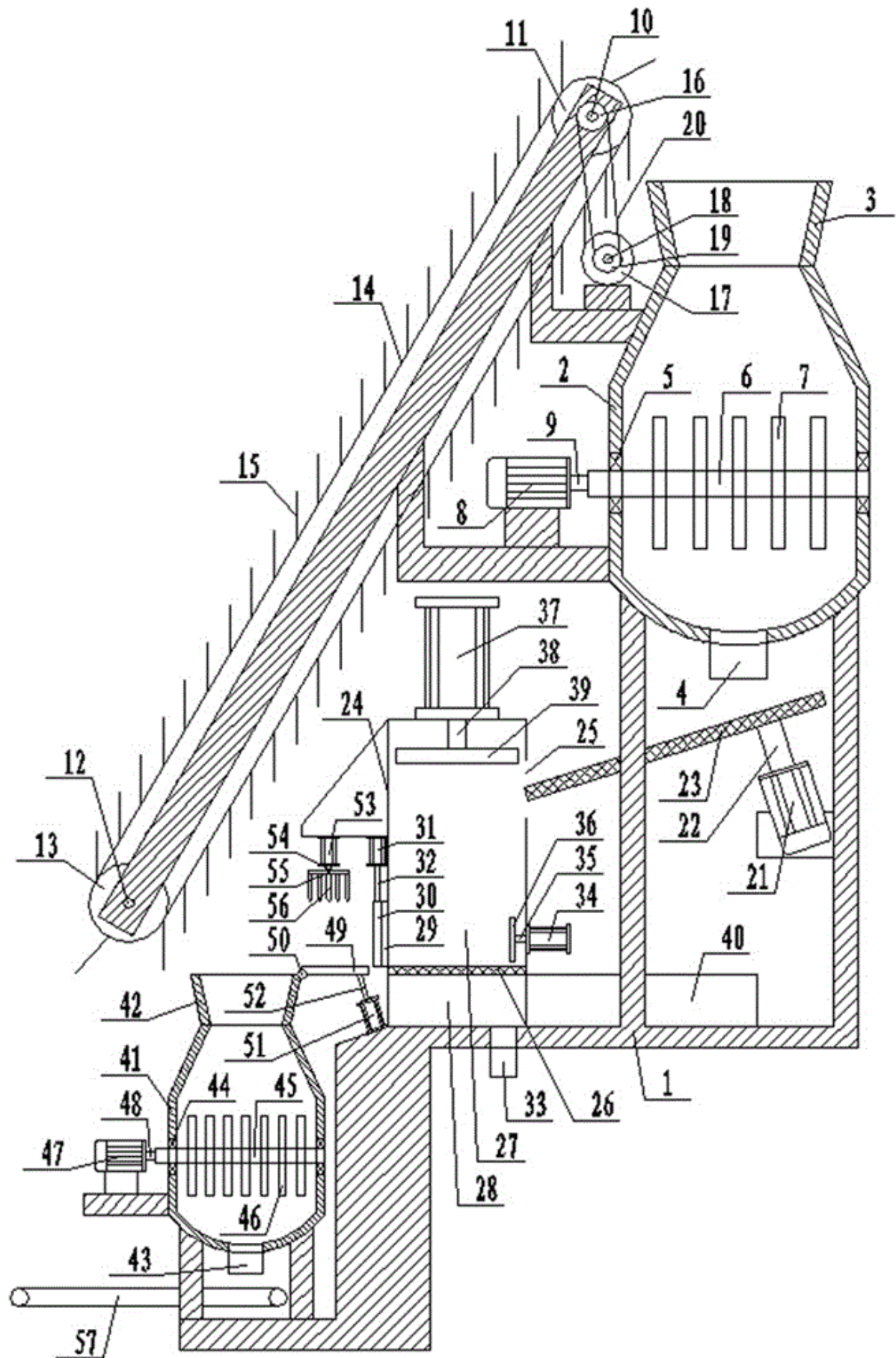
Family 9/15 - FAMPAT - ©Questel

Title

(CN106824473)

Water hyacinth fine crusher

Images



Publication numbers with kind code & date

CN106824473

A 2017-06-13

CN106824473



Abstract

(CN106824473)

The invention discloses a water hyacinth fine crusher. The water hyacinth fine crusher comprises a frame. A coarse

crusher is arranged at the upper end of the frame; a cone-shaped feed inlet of the coarse crusher is formed at the upper end of the coarse crusher; a discharge port of the coarse crusher is formed at the lower end of the coarse crusher; a first rotary shaft is transversely and rotatably arranged in the coarse crusher through a first bearing pedestal; a plurality of coarse crushing blades are uniformly arranged on the first rotary shaft; one end of the first rotary shaft extends out of the coarse crusher and is connected to a motor shaft of a first driving motor; the first driving motor is fixedly arranged on the frame; an upper belt wheel is rotatably arranged at the upper end of the frame on one side of the coarse crusher through an upper rotary shaft; a lower belt wheel is rotatably arranged at the lower end of the frame on one side of the coarse crusher through a lower rotary shaft; the upper belt wheel and the lower belt wheel are connected through a conveyor belt; the upper end of the conveyor belt is matched with the cone-shaped feed inlet of the coarse crusher; and a plurality of steel hooks are uniformly arranged on the conveyor belt.

Inventors

LI LIMING

WANG MING

LI LINSHENG

Latest standardized assignees - inventors removed

YANCHENG MINGTIAN MACHINERY

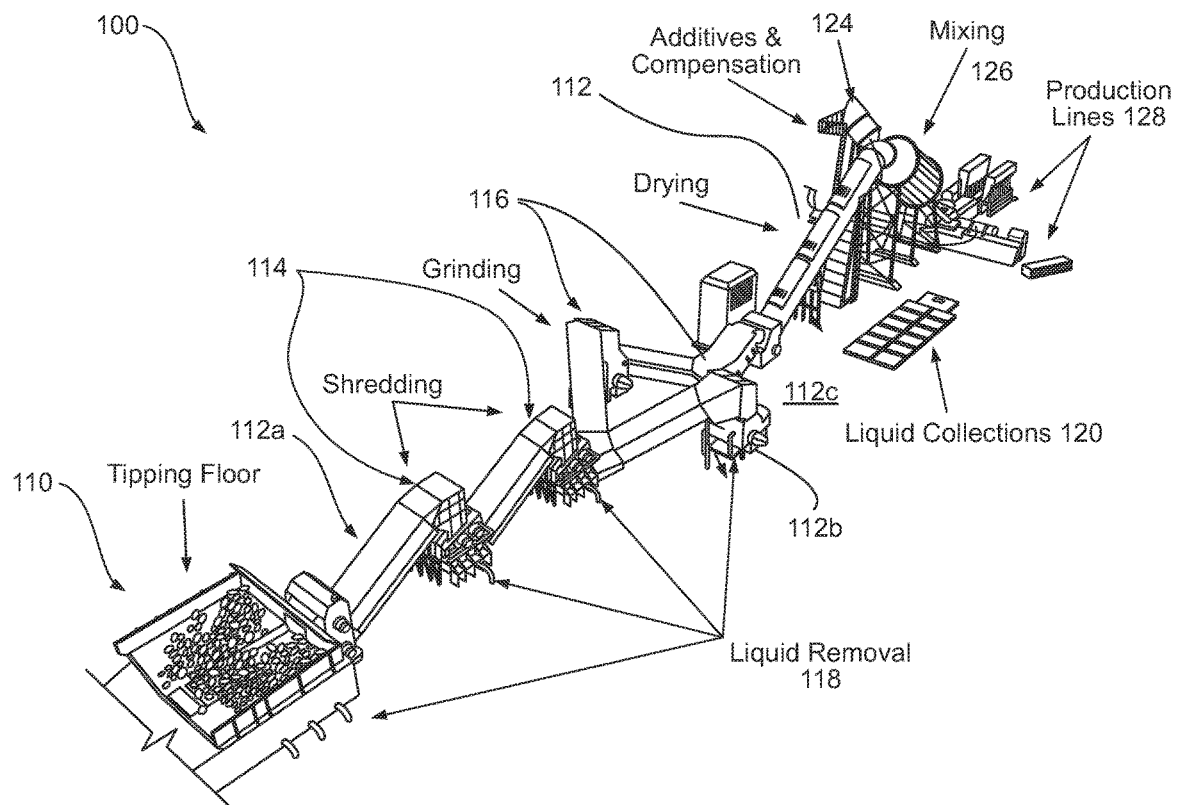
Family 10/15 - FAMPAT - ©Questel

Title

(EP2387475)

A composite material and method of preparing the same from substantially unsorted waste

Images



Publication numbers with kind code & date

BRPI1005144

B1 2019-11-19

BR201005144

MX361924

B 2018-12-19

MX-361924

US20180319066

A1 2018-11-08

US20180319066

JP6339420

B2 2018-06-06

JP6339420

US9914256

B2 2018-03-13

US9914256



IL254297	A	2017-10-31	IL-254297				
IL214103	B	2017-09-28	IL-214103				
BRPI1005144	A2	2017-07-18	BR201005144				
IN272153	B	2016-03-25	IN-272153				
US20160075072	A1	2016-03-17	US20160075072				
JP5883651	B2	2016-02-12	JP5883651				
EA022135	B1	2015-11-30	EA--22135				
CN102348514	B	2015-11-25	CN102348514B				
JP2014221473	A	2014-11-27	JP2014221473				
CA2749908	C	2014-10-21	CA2749908				
KR101271162	B1	2013-06-05	KR101271162				
AU2010205364	B2	2013-05-16	AU2010205364				
JP2012515080	A	2012-07-05	JP2012515080				
EA201101083	A1	2012-04-30	EA201101083				
IN6099/DELNP/2011	A	2012-02-17	IN2011DN06099				
CN102348514	A	2012-02-08	CN102348514				
MX2011007626	A	2012-01-18	MX2011007626				
EP2387475	A2	2011-11-23	EP2387475				
US20110272858	A1	2011-11-10	US20110272858				
KR20110104567	A	2011-09-22	KR20110104567				
IL214103	A	2011-08-31	IL-214103				
SG173006	A1	2011-08-29	SG-173006				
AU2010205364	A1	2011-08-18	AU2010205364				
WO2010/082202	A3	2010-09-10	WO201082202				
CA2749908	A1	2010-07-22	CA2749908				
WO2010/082202	A2	2010-07-22	WO201082202				

Abstract

(EP2387475)

A composite material having thermoplastic properties and comprising organic matter and optionally one or both of inorganic matter and plastic with unique characteristics is provided. Such a composite material may be prepared from waste such as domestic waste. For preparation of the composite material, waste is dried, optionally particulated. The dried and optionally particulated waste material is then heated, while mixing under shear forces. The composite material is processed to obtain useful articles.

Inventors

TAMIR YUVAL

Latest standardized assignees - inventors removed

UBQ MAT

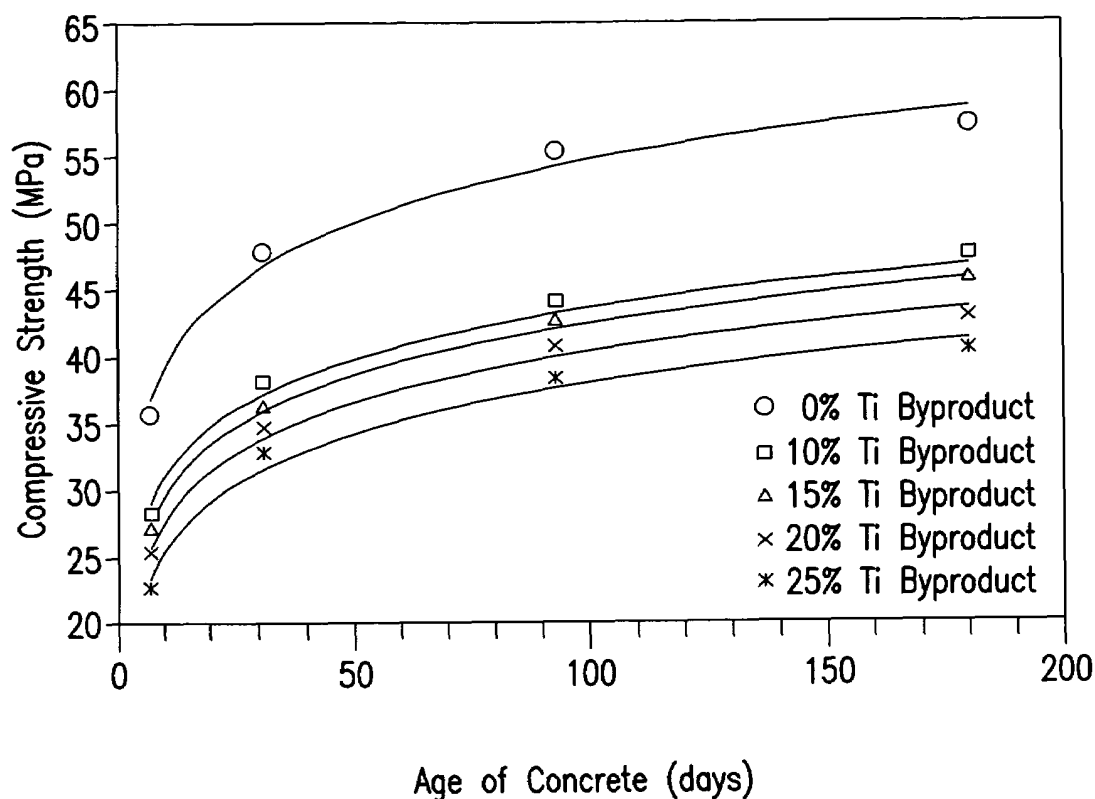
Family 11/15 - FAMPAT - ©Questel

Title

(US7717999)

Titanium production waste byproduct as partial cement replacement

Images



Publication numbers with kind code & date

US7824322	B2	2010-11-02	US7824322
US20100206198	A1	2010-08-19	US20100206198
US7717999	B1	2010-05-18	US7717999



Abstract

(US7717999)

An industrial waste byproduct from a titanium metal or a titanium dioxide production process can be utilized as a partial cement replacement. In some embodiments, the byproduct can comprise a byproduct from the production of titanium dioxide pigment from a sulphate process or from a chloride process. The cement can be used to make concrete and other cementitious material products for structural and non-structural uses, for example, grout, mortar, gunite, stucco, masonry, decorative stonework, bricks, blocks, roof tiles, floor tiles, cobblestones, pavers, combinations thereof, and the like.

Inventors

ALMUSALLAM TAREK H
 KHAN MOHAMMAD IQBAL
 AL-ZEGHAYER YOUSEF SALEH
 AL-MASRY WAHEED ATIA
 TRABZUNI FADI MOHAMED

Latest standardized assignees - inventors removed

TRONOX

Family 12/15 - FAMPAT - ©Questel

Title

(CN109265033)

Method for preparing building material lightweight aggregate and heat insulating particles by using inorganic solid waste

Publication numbers with kind code & date

CN109265033	A	2019-01-25	CN109265033
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Abstract

(CN109265033)

The invention belongs to the technical field of preparation of building materials, and discloses a method for preparing building material lightweight aggregate and heat insulating particles by using inorganic solid waste. The method comprises: 1) preparing a mixture, wherein inorganic solid waste and an adhesive are uniformly mixed to prepare a mixture; 2) coating thermal insulation particles or athermal insulation particle precursor with the mixture, wherein the mixture obtained in the step 1) is placed in a mold and spread flatly, and the surface of thermal insulation particles or a thermalinsulation particle precursor is uniformly coated with the mixture; and 3) carrying out drying curing, wherein the coated surface of the thermal insulation particles or thermal insulation particle precursor is treated, and drying curing is performed to obtain the lightweight high-strength thermal insulation aggregate. According to the present invention, the reinforcement and the sealing of the thermal insulation particles are achieved, and the final product effectively regenerates and utilizes the inorganic solid waste, such that the advantages of turning of waste into treasure, energy savingenergy and environmental protection are achieved, the thermal insulation particles are improved, and the method is suitable for wide-scale promotion.

Inventors

LONG DESHUN

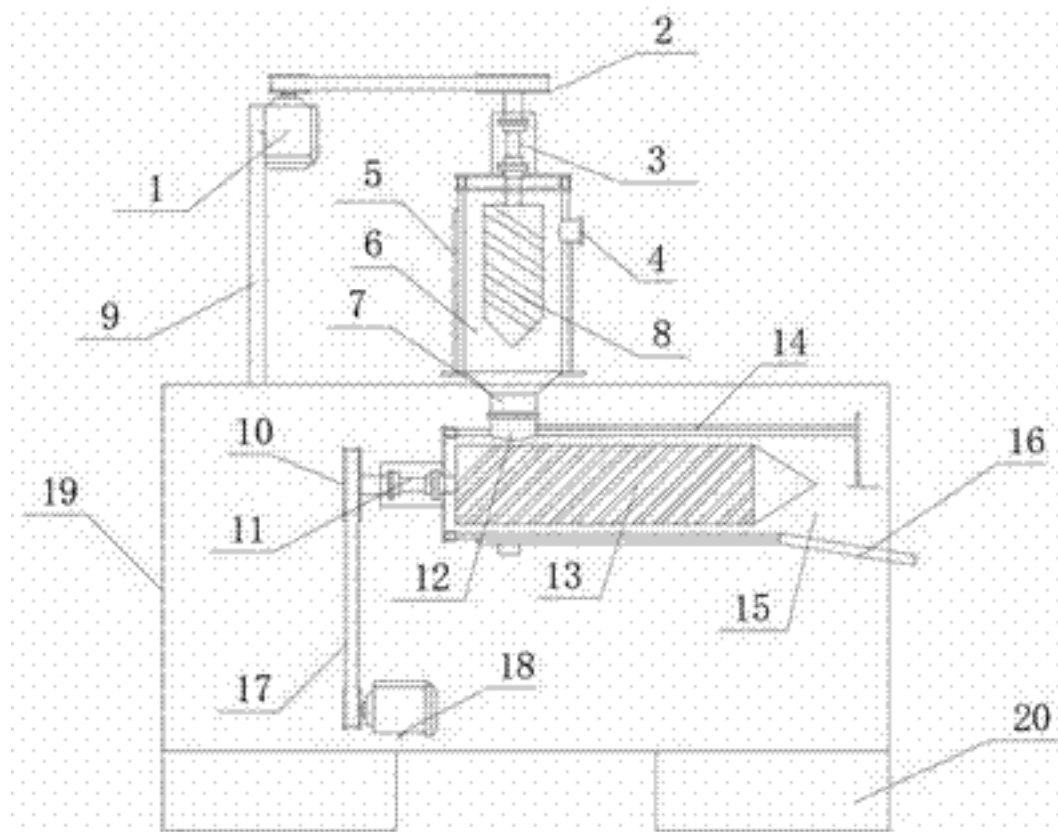
Family 13/15 - FAMPAT - ©Questel

Title

(CN107930793)

Cutting device for citronella distilling

Images



Publication numbers with kind code & date

CN107930793

A 2018-04-20

CN107930793



Abstract

(CN107930793)

The invention discloses a cutting device for citronella distilling. The cutting device for citronella distilling comprises a first motor, a first belt wheel, a first rotary shaft, a first feeding inlet, a storage barrel, an extrusion chamber, a first discharging outlet, a roller, a supporting frame, a second belt wheel, a second rotary shaft, a second feeding inlet, a cutting bar, a cutting roller, a grinding chamber, a second discharging outlet, a belt, a second motor, a machine body, a base, a cutting blade and a spiral blade. The cutting device for citronella distilling has the beneficial effects that the first rotary shaft rotates to drive the roller 8 to rotate anticlockwise; as the spiral blade rotates leftwards and continuously generates pressure on

citronella inside the extrusion chamber under the driving of the roller, the speed of the citronella entering the first discharging outlet is improved; the second motor is used for driving the second rotary shaft to rotate, and the cutting bar is driven to rotate anticlockwise; and as the cutting blade rotates leftwards, thereby generating rightward pushing force on the citronella, and then the citronella is moved rightwards.

Inventors

LI DUO

Latest standardized assignees - inventors removed

FANGCHENGGANG RUNHE AGRICULTURE & FORESTRY TECHNOLOGY

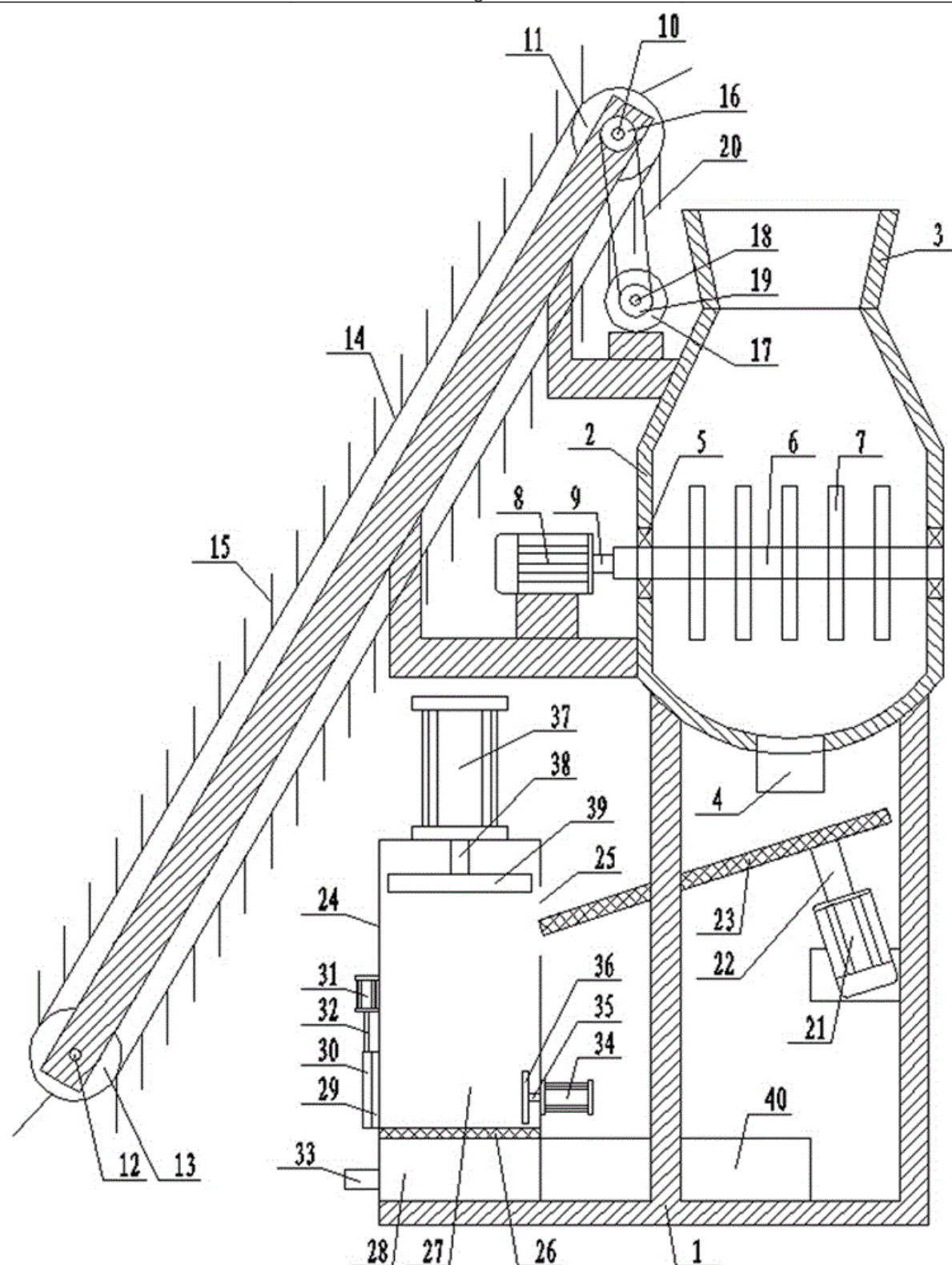
Family 14/15 - FAMPAT - ©Questel

Title

(CN106622536)

Water hyacinth pulverizing and dehydrating machine

Images



Publication numbers with kind code & date

CN106622536

A 2017-05-10

CN106622536



Abstract

(CN106622536)

The invention discloses a water hyacinth pulverizing and dehydrating machine. The water hyacinth pulverizing and dehydrating machine comprises a machine frame; a pulverizing machine is arranged at the upper end of the machine frame; a conical feeding port is formed in the upper end of the pulverizing machine; a discharging port is formed in the lower end of the pulverizing machine; a rotating shaft is transversely and rotatably arranged in the pulverizing machine through a bearing pedestal; a plurality of pulverizing edges are arranged on the rotating shaft uniformly; one end of the rotating shaft stretches out of the pulverizing machine to be connected with a motor shaft of a first driving motor; the first driving motor is fixedly arranged on the machine frame; an upper belt wheel is rotatably arranged at the upper end of the

machine frame on one side of the pulverizing machine through an upper rotating shaft; a lower belt wheel is rotatably arranged at the lower end of the machine frame on one side of the pulverizing machine through a lower rotating shaft; the upper belt wheel and the lower belt wheel are connected through a conveying belt; the upper end of the conveying belt cooperates with the conical feeding port; a plurality of steel hooks are arranged on the conveying belt uniformly.

Inventors

LI LIMING

WANG MING

LI LINSHENG

Latest standardized assignees - inventors removed

YANCHENG MINGTIAN MACHINERY

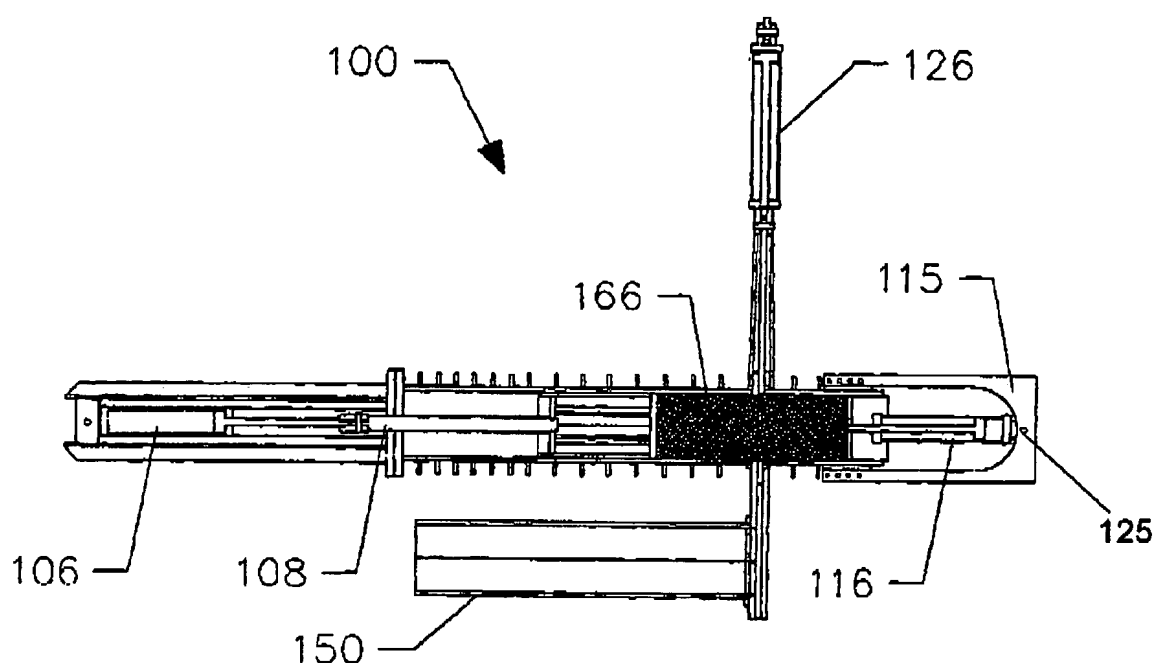
Family 15/15 - FAMPAT - ©Questel

Title

(US7311504)

Apparatus for and method of transforming useful material into molded or extruded articles

Images



Publication numbers with kind code & date

[US7311504](#)

B2 2007-12-25

US7311504

[US20040043097](#)

A1 2004-03-04

US20040043097



Abstract

(US20040043097)

A material handling exit section in the nature of a material extruder and mold combination for shaping the material exiting a hydrolyzer, comprising an extrusion chamber and a plunger assembly attached to the extrusion chamber and further including a working cylinder having a cylinder shaft and a ram operably connected to the shaft enabling the ram to move the material within the extrusion chamber upon actuation of the cylinder and the extension of the shaft therefrom.

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