

100 Documents

Publication numbers	Title	Current assignees
EP-608268 A1	Sterile pelleted feed product and extruder apparatus for producing same	WENGER
EP2933360 A1	Methods for manufacturing bulked continuous filament	ALADDIN MANUFACTURING
EP3538356 A1	Polyethylene terephthalate coloring systems and related methods	ALADDIN MANUFACTURING
US20110286296 A1	Screw extruder for continuous and solvent-free resin emulsification	XEROX
JP2010230263 A	Waste fuel transporting screw conveyor to incinerator	NIPPON PAPER INDUSTRIES
EP2017062 A1	A screw housing for a double screw extruder , the double screw extruder and a method for manufacturing a screw housing	SCHNABL, ERWIN
EP-848660 A1	Process for producing profiled materials, in particular for door and window production	MEET EHRNST JOZEF, ...
EP-330003 A1	Screw extruder .	POTTINGER
CN2434119U Y	Single screw extruder for mfg. fiber cement slab by high pressure extruding process	BEIJING NEW BUILDING MATERIALS BNBM
EP2833986 A1	Twin screw extruder press for solid/fluid separation	GREENFIELD SPECIALTY ALCOHOLS
EP1123154 A1	Rotor-stator mixing apparatus especially for single screw extruder	KALTOR
EP3727792 A1	Production of containers with recycling by twin- screw extruder	SIDEL PARTICIPATIONS
EP-662926 A1	Transport device with a screw conveyor	MITSUI ENGINEERING & SHIPBUILDING, ...
CN211665439U U	Manufacturing device with friction-resistant tipping paper	ZHEJIANG BENKETE TIPPING PAPER
JP2010119898 A	Screw type filtration dehydrator	TSURUMI MANUFACTURING
EP3102988 A1	Drive system for conveyor, extruder , thrust and traction devices, synchronizing applications and center winds	GONZÁLEZ-VILLAR JUAN CARLOS
DE4213213 A1	Machine for prodn. of sheet from scrap thermoplastics and paper - has breaker for respective raw bales, disintegrator, chips stores and dispenser, extruder with flat sheet die, cooling rollers and edge trimmers	SCHNAUSE ROLF24105 KIEL
CN205187202U U	Can evaporate screw conveyer group of preimpregnation wood chip in advance	HENAN DAZHI PAPER EQUIPMENT INTEGRATION ENGINEERING

Publication numbers	Title	Current assignees
EP1827142 A1	Defibration of tobacco material	BRITISH AMERICAN TOBACCO
EP2224059 A1	Grass type unbleached paper products and production method thereof	SHANDONG FUYIN PAPER & ENVIRONMENTAL PROT TECHNOLOGY
CN203994805U U	Spiral conveying presser for manufacturing balance paper	HANGZHOU XIANJIN SPEICAL PAPER INDUSTRY
EP3681684 A1	Polyethylene terephthalate coloring method and system for manufacturing a bulked continuous carpet filament	ALADDIN MANUFACTURING
EP3496929 A1	Method for charging an extruder	TROESTER
JP2013208728 A	Method for manufacturing thermoplastic resin composition and powder raw material extruder	TORAY INDUSTRIES
CN206718412U U	Automatic feeding device of double -screw extruder	DONGGUAN DOUBLE BOND NEW MATERIAL
EP-945244 A1	Process for the manufacture of environmental friendly papers as well as corresponding papers	LUNG MENG ENVIRONMENTAL FRIEND
DE10335366 A1	Installing stabilization column in the ground, by measuring rotation speed and feed rate of conveyor screw driven into ground	BAUER SPEZIALTIEFBAU
CN107642005 A	Novel paper product manufacturing device	TIANJIN AUTUMN EDGE PAPER PRODUCTS
EP3589473 A1	Method of manufacturing bulked continuous carpet filament	ALADDIN MANUFACTURING
EP1597427 A1	A method and a plant for producing and treating wood fibres	METSO PAPER
CN204124864U U	Compression roller conveying device for paper diapers	JINJIANG SHUNCHANG MACHINE MANUFACTURING
EP2931761 A1	Process for degrading (co)polymers in an extruder and extruder for carrying out the process	HENKEL
EP3672772 A1	Method for incorporating solids for the production of thermally sensitive polymers in a planetary roller extruder	TESA
CN207551496U U	Wrapping paper adsorption paper feeding device	PROSPERITY PAPER PRODUCT
CN205058536U U	Processing packing area production feed arrangement	QUANZHOU MANJIANGHONG MACHINERY MANUFACTURING
KR20110016760 A	Manufacturing device and a method of a pellet using a waste filter paper of a waste air cleaner and a pellet molded product manufactured from the same	LEE, Kang Jin
US20140160796 A1	Light Guide Plate and Fabrication Method Thereof, Extrusion	BOE TECHNOLOGY, ...

Publication numbers	Title	Current assignees
	Equipment, Backlight Module and Display Device	
CN102677532 A	Process for preparing cultural paper by utilizing full-recovered pulp	NINE DRAGON PAPER
CN105500659 A	Device and process for manufacturing nylon carrier roller tube	PAPER PO FIRST MACHINERY MANUFACTURING
CN111805942 A	Rubber-coated fiber cord fabric manufacturing method based on rubber coating through extruder	TRIANGLE GROUP
EP2455424 A1	Method for continuous production of a prepolymer based on phenol resins, oxazolines and epoxides	EVONIK OPERATIONS
CN106283934 A	Paper mold forming system	ZHONGSHAN MINYA PAPER PRODUCTS
US5662280 A	Process and apparatus for controlling paper feed to a shredder	RICOH
CN207512516U U	Multi -functional stoving type paper products making devices	TIANJIN QIUYUAN PAPER PRODUCTS
EP3281765 A2	Device for feeding an extruder	TROESTER
AU2016234917 A1	System and methods for manufacturing bulked continuous filament	ALADDIN MANUFACTURING
US4802632 A	Method and apparatus for treating end portion of roll paper	HAMADA PRINTING PRESS MANUFACTURING , ...
JP2020040099 A	Compression molding device	FUJI CAR MANUFACTURING
EP-550800 A2	Molded product	BEYER INDUSTRY PRODUCTS
EP3130323 A1	Drug delivery system, and drug delivery device	YUYAMA MANUFACTURING
CN102444056 A	Five-layer resolvable or degradable environmental friendly paper and production method thereof	DRAGON UNION ENVIRONMENTAL PROTECTION PAPER
CN208288482U U	Pressfitting formula paper removing devices about belt	BAODING XINJIE PAPER
EP-635542 A2	Fiber reinforced thermoplastic resin, process for production of same, and extruder	TORAY INDUSTRIES
CN208095992U U	A compression conveyor for collecting disallowable china cypress scraps of paper of cigarette production in -process	HONGTA
CN105620990 A	Intelligent electric garbage truck device	NINGBO INSTITUTE OF INTELLIGENT MANUFACTURING INDUSTRY, ...
CN103726382 A	Pure straw Chinese art paper and chloride-free bleaching production process thereof	ANHUI JING COUNTY MILLENNIUM ANCIENT XUAN PAPER

Publication numbers	Title	Current assignees
US4121967 A	Screw conveyor in pulp-making equipment	REINHALL PER
EP2367914 A2	Processing biomass	XYLECO
CN107619170 A	Curing and drying treatment method of papermaking sludge	DONGGUAN TAICHANG PAPER INDUSTRY
EP2780158 A1	Screw press ii	VOITH
KR101407093 B1	Screen apparatus for rpf system	PANASIA PAPER KOREA, ...
CN102677515 A	Process for preparing recovered pulp with high whiteness and high cleanliness	NINE DRAGON PAPER
CN112064417 A	Toilet paper prepared from natural color bamboo pulp and processing technology thereof	SIXIAN SHUYI PAPER PRODUCTS
JP2013022518 A	Electroosmotic dewatering apparatus	TSURUMI MANUFACTURING
EP-990733 A1	Method for killing germs in a material containing papermaking fibres and apparatus for applying the method	VOITH PAPER
EP1448845 A2	Production of pulp from cellulosic fibrous raw materials and recovery of chemicals and energy from pulp liquors	BIOREGIONAL MINIMILLS
EP1470905 A1	Method for disintegrating hydrate polymer	NIPPON SHOKUBAI
CN201485749U U	Wet process feed preparation equipment for grass fiber raw materials and roller type grass washing machine thereof	BEIJING JINGCHENG XINXING PAPER ENGINEERING TECHNOLOGY
FR2922141 A1	Recycling of polyolefin film waste previously shredded, crushed, and fragmented, useful to obtain granules to prepare formulations, comprises compressing waste fragment, extruding, compression melting, filtrating the fragmented wastes	MPR POLYMERS SOC PAR ACTIONS S
CN109399245 A	Screw conveying system	NINE DRAGONS PAPER INDUSTRIES
CN208005765U U	Paper cutter circles round greatly	BAODING CHENGXIN PAPER
CN105921494 A	Domestic rubbish disposal system	HEBEI GLORY ENVIRONMENTAL PROTECTION EQUIPMENT MANUFACTURING
CN101451324 A	Pulp and black liquor prepared by grass type raw material, preparation method and use thereof	SHANDONG FUYIN PAPER MAKING ENVIRONMENTAL PROTECTI
US5299681 A	Conveyor equipment	MURATA MANUFACTURING
EP-845933 A2	Circuit-substrate- conveyor system	FUJI MACHINE MANUFACTURING
CN210944039U U	Folding device of double-channel three-dimensional splicing	SHANGHAI XUHENG

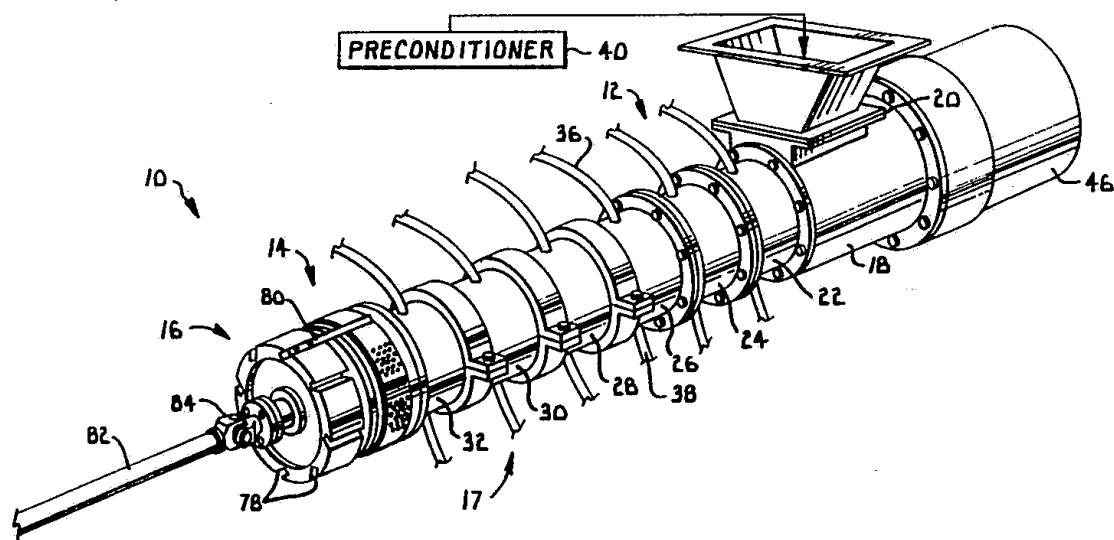
Publication numbers	Title	Current assignees
	box gluing machine	PRECISION MACHINERY MANUFACTURING DONGTAI
GB-805074 A	Improvements in or relating to labelling machines	MEYER GEO J MANUFACTURING
EP1787007 A2	Impact excavation system and method	PDTI HOLDINGS
CN205855477U U	Loading attachment is used in paper production	QUANZHOU HUAXIANG PAPER INDUSTRY
CN110172867 A	Paper added with tobacco stalk and preparation method and device thereof	INTERNATIONAL PAPER & SUN CARTONBOARD
KR101621472 B1	Apparatus for manufacturing highly dense soft soap having wrapping paper with ventilation hole	KIM, MIN-KYU
EP3527647 A1	Carbonized fuel production apparatus and carbonized fuel production method	ECO RESEARCH INSTITUTE, ...
US2355091 A	Apparatus for the treatment and removal of chemicals from cooked or digested fiber pulp	BROWN PAPER MILL
EP2290157 A2	Used paper recycling apparatus and its constituent devices	SEED
EP1870161 A1	Document shredder device	ECO
CN102601886 A	Rich mineral paper masterbatch extruding granulator set	KUNSHAN KEXING RUBBER & PLASTIC MACHINERY
EP-811182 A1	Image forming apparatus	CASIO COMPUTER, ...
JP2008063694 A	Method for smoothing wet paper and press part of paper making machine	OJI HOLDINGS
GB-712150 A	Improvements in and relating to machines for making paper containers	NATIONAL PAPER BOTTLE
CN104129182 A	Manufacturing method of printed paperboard and paper feeding mechanisms for manufacturing method	ZHANJIANG CIGARETTE PACKAGING MATERIAL PRINTING
CN203298655U U	Automatic firework assembling device	CHANGSHA YANDA MACHINERY MANUFACTURING
JP2017064949 A	Extruder and production method of thermoplastic resin composition using the same	ASAHI KASEI, ...
EP2217645 A1	Manufacturing method of foamed heat-insulating material utilizing paper and starch	GLOBAL ECO REFOAM
EP2069431 A2	Process for producing a biopolymer nanoparticles product	ECOSYNTHETIX
CN101451328 A	Un-bleaching pulp prepared by alkaline steam cooking wheat straw raw material, preparation method and use thereof	SHANDONG FUYIN PAPER MAKING ENVIRONMENTAL PROTECTI
JP2007211184 A	Thermoplastic elastomer composition and method for	JSR

Publication numbers	Title	Current assignees
	producing the same	
EP2302018 A1	Method and system for continuous dry moving of a material for loading a pressurised reactor which is to be partially oxidised	BAIRAMIJAMAL FARAMARZ
CN206013649U U	Paper corrugated board produces conveyer	ANJI GELIN PAPER BOX FACTORY
EP-928309 A1	Process for producing thermoplastics	STYROLUTION EUROPE
US3591165 A	Method and apparatus for handling sheet material, signatures and the like	SMYTH MANUFACTURING

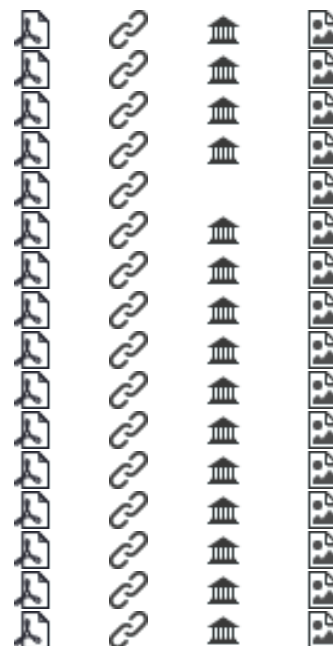
Family 1/100 - FAMPAT - ©Questel

Title

(EP-608268)

Sterile pelleted **feed** product and **extruder** apparatus for producing same**Images****Publication numbers with kind code & date**

DE69217980	T2	1997-06-12	DE69217980
ES2098537	T3	1997-05-01	ES2098537
DE69217980	D1	1997-04-10	DE69217980
DK0608268	T3	1997-03-24	DK-608268T
AT149291	T	1997-03-15	ATE149291
EP0608268	B1	1997-03-05	EP-608268
CN1031101	C	1996-02-28	CN1031101C
AU661046	B2	1995-07-13	AU-661046
JPH06510909	A	1994-12-08	JP06510909
EP0608268	A4	1994-10-05	EP-608268
EP0608268	A1	1994-08-03	EP-608268
US5242292	A	1993-09-07	US5242292
CN1075243	A	1993-08-18	CN1075243
AU2682292	A	1993-05-03	AU9226822
CA2115653	A1	1993-04-15	CA2115653
WO93/06742	A1	1993-04-15	WO9306742

**Abstract**

(EP0608268)

An apparatus (10) and method for the production of sterile, pelleted **feed** products includes an **extruder** device (12) equipped with a pelleting head (14) adjacent the outlet end of the **extruder** barrel (17). The pelleting head (14) includes an annular die section (52) having die openings (58) therethrough which is secured to the **extruder** barrel (17), forming an extension thereof; a rotatable, multiple-vane plate (66) is secured to the **screw** (42) of the device (12) and cooperates with the die section (52) to form pellets. A rotatable knife (16) cuts emerging extrudate to size the pellets. In an alternative embodiment, the plate (66) is separately powered for rotation independent of the **extruder screw** (42), preferably by a prime mover (102) coupled with a short **extruder screw** section (100) which supports the plate (66). Preferably, the **extruder** device (12) is equipped with an upstream preconditioner (40) to moisturize and uniformly mix dry **feed** ingredients and to at least partially precook the mixture.

Inventors

WENGER LAVON G

Latest standardized assignees - inventors removed

WENGER

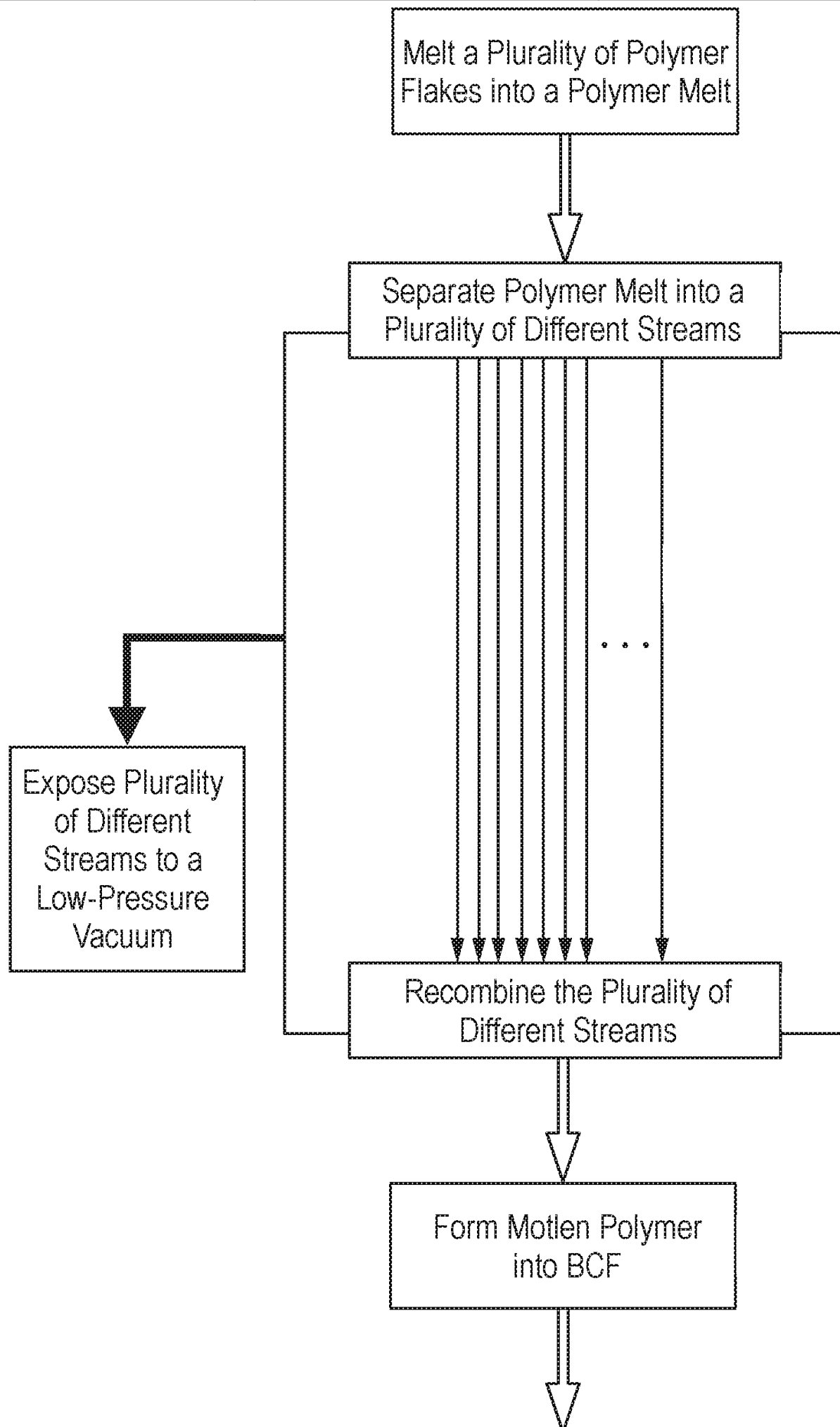
Family 2/100 - FAMPAT - ©Questel

Title

(EP2933360)

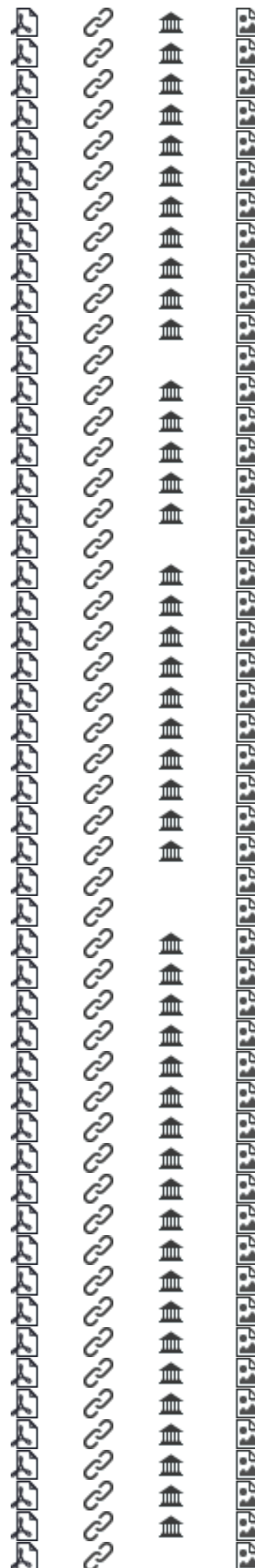
Methods for **manufacturing** bulked continuous filament

Images



Publication numbers with kind code & date

WO2020/247609	A1	2020-12-10	WO2020247609
EP3221107	B8	2020-12-09	EP3221107
US20200368940	A1	2020-11-26	US20200368940
EP3221107	B1	2020-11-04	EP3221107
US20200307030	A1	2020-10-01	US20200307030
EP3221119	B1	2020-09-30	EP3221119
EP3375916	B1	2020-09-30	EP3375916
EP3456502	B1	2020-09-30	EP3456502
US20200262122	A1	2020-08-20	US20200262122
US20200262124	A1	2020-08-20	US20200262124
US10744681	B2	2020-08-18	US10744681
HUE048300	T2	2020-07-28	HUE048300
EA035690	B1	2020-07-27	EA--35690
ES2775510	T3	2020-07-27	ES2775510
US20200206981	A1	2020-07-02	US20200206981
US10695953	B2	2020-06-30	US10695953
EP3666938	A1	2020-06-17	EP3666938
PL3221120	T3	2020-06-01	PL3221120
US10654211	B2	2020-05-19	US10654211
US10647046	B2	2020-05-12	US10647046
US10639818	B2	2020-05-05	US10639818
CN107419343	B	2020-04-24	CN107419343B
US20200122360	A1	2020-04-23	US20200122360
AU2019200759	B2	2020-04-09	AU2019200759
US20200086529	A1	2020-03-19	US20200086529
US20200055213	A1	2020-02-20	US20200055213
EA201992031	A1	2020-01-28	EA201992031
US10538016	B2	2020-01-21	US10538016
MX371054	B	2020-01-14	MX-371054
MX371055	B	2020-01-14	MX-371055
US10532495	B2	2020-01-14	US10532495
US10532496	B2	2020-01-14	US10532496
EP3221120	B1	2020-01-08	EP3221120
EA201991807	A1	2019-12-30	EA201991807
US20190381699	A1	2019-12-19	US20190381699
CA2968273	C	2019-12-17	CA2968273
US20190368074	A1	2019-12-05	US20190368074
EP3573801	A1	2019-12-04	EP3573801
US10493660	B2	2019-12-03	US10493660
US10493662	B2	2019-12-03	US10493662
US10493663	B2	2019-12-03	US10493663
US10493664	B2	2019-12-03	US10493664
EA033832	B1	2019-11-29	EA--33832
EA033812	B1	2019-11-28	EA--33812
US20190360122	A1	2019-11-28	US20190360122
US10487422	B2	2019-11-26	US10487422
US20190344479	A1	2019-11-14	US20190344479
CA2968272	C	2019-10-22	CA2968272
US10427328	B2	2019-10-01	US10427328
US10428442	B2	2019-10-01	US10428442
KR10-2019-0108143	A	2019-09-23	KR20190108143



IN201937030418	A	2019-09-20	IN201937030418				
US20190283278	A1	2019-09-19	US20190283278				
CA2968225	C	2019-09-10	CA2968225				
CN110225808	A	2019-09-10	CN110225808				
KR10-2016301	B1	2019-08-30	KR102016301				
AU2018200762	B2	2019-08-29	AU2018200762				
US20190263022	A1	2019-08-29	US20190263022				
US20190255740	A1	2019-08-22	US20190255740				
AU2018212971	A1	2019-08-15	AU2018212971				
CA2968226	C	2019-07-30	CA2968226				
IN316703	B	2019-07-24	IN-316703				
EP3501785	A1	2019-06-26	EP3501785				
EA032057	B1	2019-04-30	EA--32057				
EA201892584	A1	2019-04-30	EA201892584				
US20190118413	A1	2019-04-25	US20190118413				
US20190118450	A1	2019-04-25	US20190118450				
US20190105827	A1	2019-04-11	US20190105827				
US10239247	B2	2019-03-26	US10239247				
EP3456502	A1	2019-03-20	EP3456502				
US10232542	B2	2019-03-19	US10232542				
AU2019200759	A1	2019-02-21	AU2019200759				
AU2017232137	B2	2019-01-24	AU2017232137				
EP3424664	A1	2019-01-09	EP3424664				
EP3424665	A1	2019-01-09	EP3424665				
US20180326622	A1	2018-11-15	US20180326622				
US10124513	B2	2018-11-13	US10124513				
EP3375916	A1	2018-09-19	EP3375916				
CA3049554	A1	2018-08-02	CA3049554				
WO2018/140884	A1	2018-08-02	WO2018140884				
BR112017008402	A2	2018-06-19	BR112017008402				
BR112017008402	A1	2018-05-29	BR112017008402				
EP3220782	A4	2018-04-04	EP3220782				
EP3221119	A4	2018-04-04	EP3221119				
BR112017010469	A2	2018-04-03	BR112017010469				
EP3221107	A4	2018-03-28	EP3221107				
EP3221120	A4	2018-03-28	EP3221120				
BR112017010469	A1	2018-03-20	BR112017010469				
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KR10-1829219	B1	2018-02-19	KR101829219				
KR101829205	B1	2018-02-19	KR101829205				
MX2017005360	A	2018-02-09	MX2017005360				
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AU2015350080	B2	2017-11-02	AU2015350080				
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EP3220782	A1	2017-09-27	EP3220782				
EP3221107	A1	2017-09-27	EP3221107				
EP3221119	A1	2017-09-27	EP3221119				
EP3221120	A1	2017-09-27	EP3221120				
CN107206656	A	2017-09-26	CN107206656				

CN107107387	A	2017-08-29	CN107107387				
CN107107440	A	2017-08-29	CN107107440				
VN53583	A	2017-08-25	VN--53583				
VN53584	A	2017-08-25	VN--53584				
VN0017103	B	2017-07-25	VN--17103B				
US20170203486	A1	2017-07-20	US20170203486				
US20170203487	A1	2017-07-20	US20170203487				
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IN201747020554	A	2017-06-23	IN201747020554				
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KR10-2017-0066662	A	2017-06-14	KR20170066662				
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US9636845	B2	2017-05-02	US9636845				
US9636860	B2	2017-05-02	US9636860				
US9630353	B2	2017-04-25	US9630353				
US9630354	B2	2017-04-25	US9630354				
US20170106566	A1	2017-04-20	US20170106566				
US9550338	B2	2017-01-24	US9550338				
CN104040040	B	2016-12-07	CN104040040B				
US20160318225	A1	2016-11-03	US20160318225				
US9409363	B2	2016-08-09	US9409363				
IN2378/CHENP/2014	A	2016-07-01	IN2014CN02378				
CA2968225	A1	2016-05-26	CA2968225				
CA2968226	A1	2016-05-26	CA2968226				
CA2968272	A1	2016-05-26	CA2968272				
CA2968273	A1	2016-05-26	CA2968273				
WO2016/081474	A1	2016-05-26	WO201681474				
WO2016/081495	A1	2016-05-26	WO201681495				
WO2016/081508	A1	2016-05-26	WO201681508				
WO2016/081568	A1	2016-05-26	WO201681568				
EP2933360	A1	2015-10-21	EP2933360				
HK1201892	A1	2015-09-11	HK1201892				
EA201401327	A1	2015-05-29	EA201401327				
KR10-1502874	B1	2015-03-24	KR101502874				
US20150076725	A1	2015-03-19	US20150076725				
US20150076744	A1	2015-03-19	US20150076744				
US20150069652	A1	2015-03-12	US20150069652				
US20150069655	A1	2015-03-12	US20150069655				
EP2748358	B1	2015-03-11	EP2748358				
KR10-2015-0003714	A	2015-01-09	KR20150003714				
VN40259	A	2014-12-25	VN--40259				
AU2013267847	B2	2014-11-20	AU2013267847				

CN104040040	A	2014-09-10	CN104040040				
US20140225293	A1	2014-08-14	US20140225293				
KR10-2014-0095566	A	2014-08-01	KR20140095566				
EP2748358	A1	2014-07-02	EP2748358				
BR112014009197	A1	2014-05-20	BR112014009197				
AU2013267847	A1	2014-03-27	AU2013267847				
US20130320581	A1	2013-12-05	US20130320581				
US20130324677	A1	2013-12-05	US20130324677				
US20130324692	A1	2013-12-05	US20130324692				
WO2013/180941	A1	2013-12-05	WO2013180941				
US8597553	B1	2013-12-03	US8597553				

Abstract

(EP2933360)

A method of **manufacturing** bulked continuous carpet filament which, in various embodiments, comprises: (A) grinding recycled PET bottles into a group of flakes; (B) washing the flakes; (C) identifying and removing impurities, including impure flakes, from the group of flakes; (D) passing the group of flakes through an MRS **extruder** while maintaining the pressure within the MRS portion of the MRS **extruder** between 0.5 and 5 millibars; (E) passing the resulting polymer melt through at least one filter having a micron rating of less than about 50 microns; and (F) forming the recycled polymer into bulked continuous carpet filament that consists essentially of recycled PET.

Inventors

CLARK THOMAS

Latest standardized assignees - inventors removed

ALADDIN MANUFACTURING

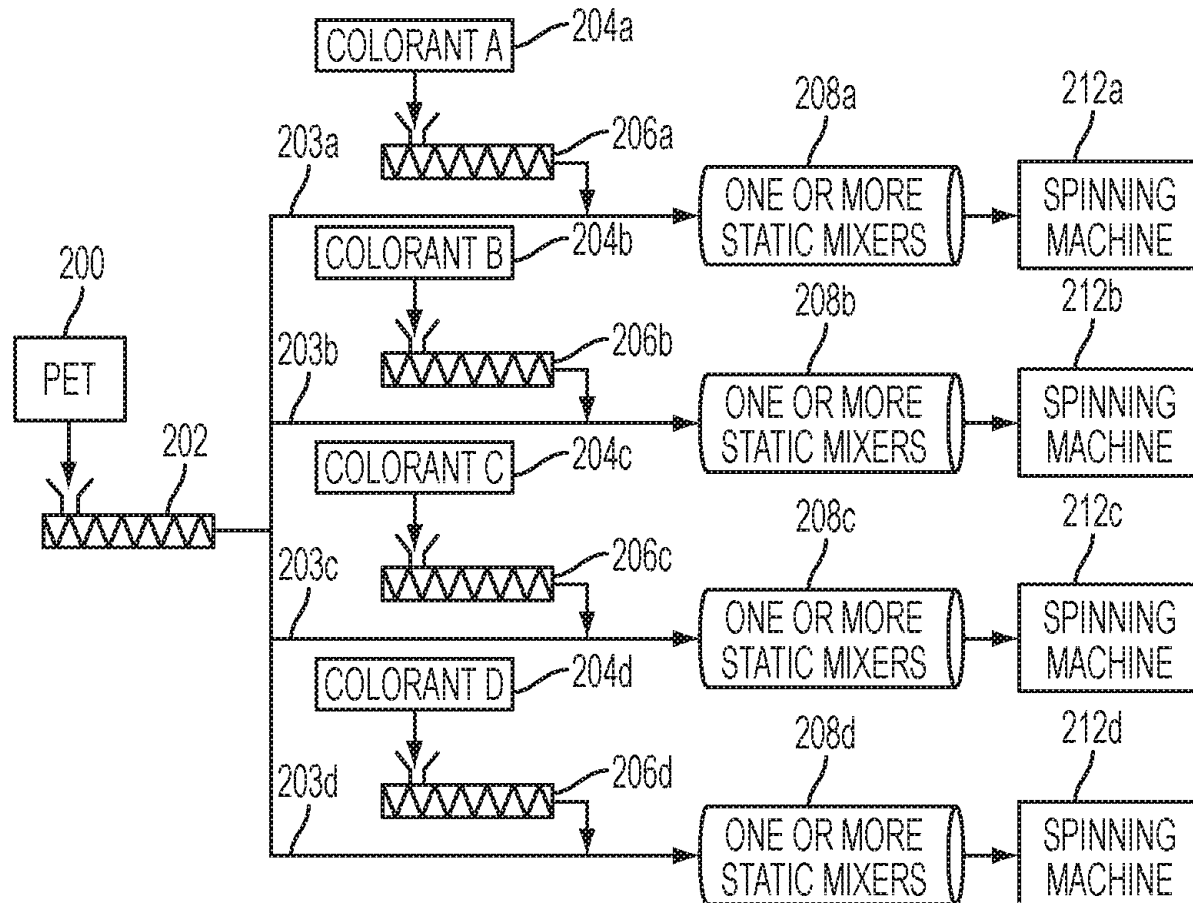
Family 3/100 - FAMPAT - ©Questel

Title

(EP3538356)

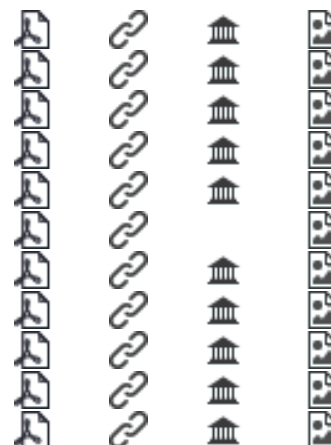
Polyethylene terephthalate coloring systems and related methods

Images



Publication numbers with kind code & date

US10751915	B2	2020-08-25	US10751915
EP3538356	A4	2020-05-27	EP3538356
EP3538356	A1	2019-09-18	EP3538356
US20190257004	A1	2019-08-22	US20190257004
CN109963704	A	2019-07-02	CN109963704
KR10-2019-0076026	A	2019-07-01	KR20190076026
AU2017356903	A1	2019-05-09	AU2017356903
CA3039554	A1	2018-05-17	CA3039554
WO2018/089346	A1	2018-05-17	WO201889346
US20180126595	A1	2018-05-10	US20180126595
US20180127893	A1	2018-05-10	US20180127893



Abstract

(EP3538356)

A method of **manufacturing** a plurality of colors of bulked continuous carpet filament from a single multi-screw **extruder** which, in various embodiments, comprises: (A) passing PET through an **extruder** that melts the PET and purifies the resulting PET polymer melt; (B) adding a liquid colorant to the polymer melt using a liquid metering system; (C) using one or more static mixers (e.g., up to forty static mixers) to substantially uniformly mix (e.g., homogeneously mix) the polymer melt and the liquid colorant; and (D) **feed** the uniformly mixed and colored polymer melt into a spinning machines that turns the polymer into filament for use in **manufacturing** carpet, rugs, and other products.

Inventors

CLARK THOMAS R

Latest standardized assignees - inventors removed

ALADDIN **MANUFACTURING**

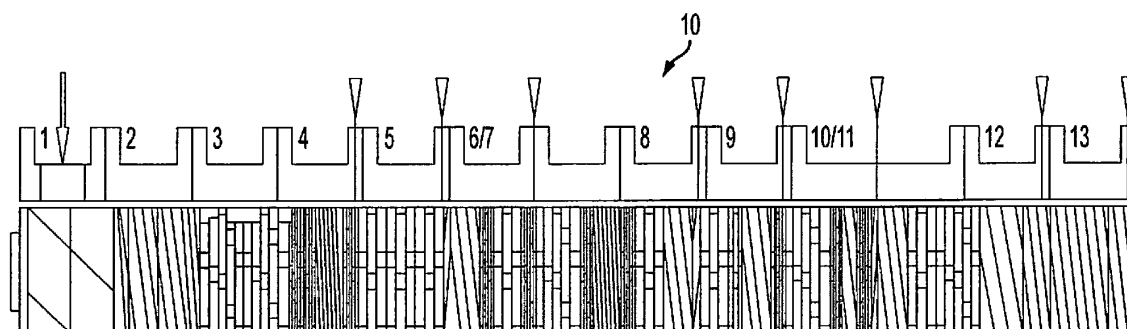
Family 4/100 - FAMPAT - ©Questel

Title

(US8608367)

Screw extruder for continuous and solvent-free resin emulsification

Images



Publication numbers with kind code & date

CA2740325	C	2014-10-28	CA2740325
US8608367	B2	2013-12-17	US8608367
JP2011240334	A	2011-12-01	JP2011240334
US20110286296	A1	2011-11-24	US20110286296
CA2740325	A1	2011-11-19	CA2740325



Abstract

(US20110286296)

A **screw extruder** is presented including a **feed** hopper for receiving materials and a body member having at least one supply port and at least one outlet port. The **screw extruder** also includes a **screw** positioned within the body member and movable along a channel defining a longitudinal axis. The **screw extruder** further includes a drive shaft for rotatably driving the **screw** along the channel. The **screw extruder** may be configured to mix the materials received via the **feed** hopper with a series of one or more forward, neutral, and reverse kneading elements.

Inventors

CHUNG JOO T
HIGUCHI FUMII
FAUCHER SANTIAGO
LEONARDO JOSEPH L
ANDAYA BRIAN

Latest standardized assignees - inventors removed

XEROX

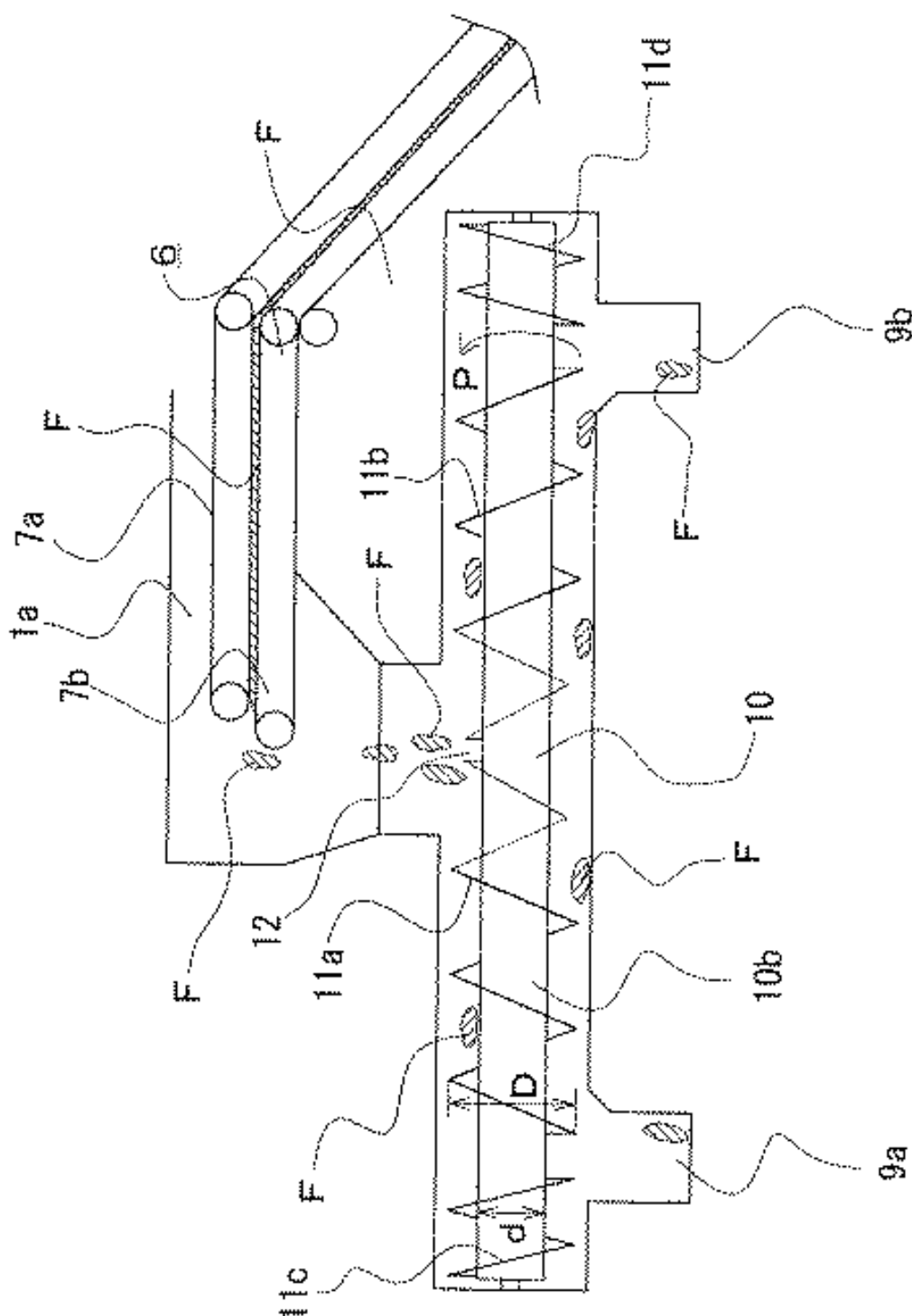
Family 5/100 - FAMPAT - ©Questel

Title

(JP2010230263)

Waste fuel transporting **screw conveyor** to incinerator

Images



Publication numbers with kind code & date

JP2010230263

A

2010-10-14

JP2010230263



Abstract

(JP2010230263)

PROBLEM TO BE SOLVED: To provide a waste fuel transporting **screw conveyor** to an incinerator capable of preventing long objects such as a packing band included in waste **paper** residue and the like from being tangled in the **screw conveyor** disposed in a combustion furnace of the incinerator for uniformly charging the waste fuels such as RPF (Refuse **Paper** & Plastic Fuel), waste plastic, DIP (De-Inked Pulp) residue, waste **paper** residue and **paper** sludge into the furnace.

SOLUTION: A shaft diameter d of a **conveyor** shaft 10b of the **screw conveyor** 10 is larger than $1/2$ of an outer diameter D of **screw** blades 11a, 11b. Both of the **screw** blades 11a, 11b of the **screw conveyor** 10 are mounted on the **conveyor** shaft 10b in a state their twisting directions are opposite to each other, and a central section of the **conveyor** shaft 10b kept into contact with the **screw** blades 11a, 11b is free from members dividing parts of the **screw** blades 11a, 11b, such as partitioning blades.

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Inventors

SATO HIROBUMI

Yuichi Yatsu

KAMATA SEIJI

Kobayashi Bunya

Takashi Konno

Latest standardized assignees - inventors removed

NIPPON **PAPER** INDUSTRIES

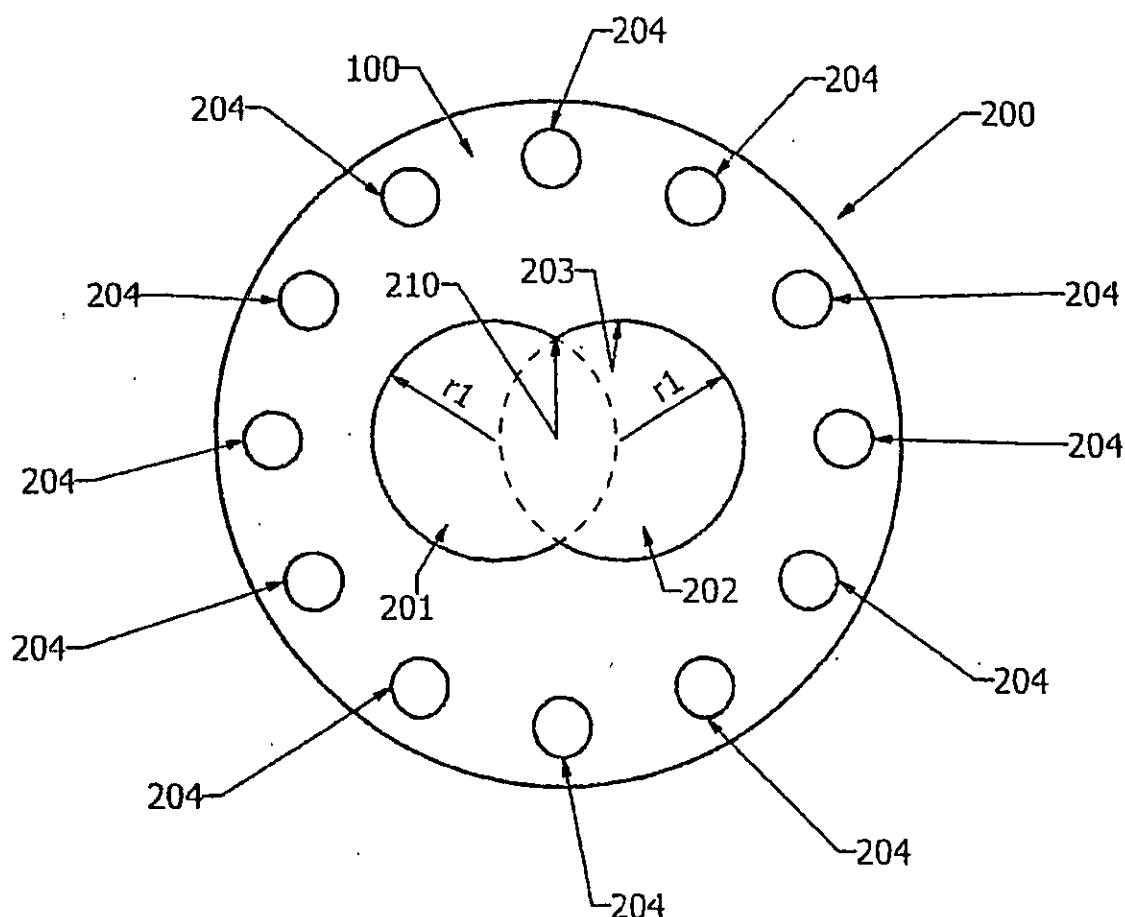
Family 6/100 - FAMPAT - ©Questel

Title

(EP2017062)

A **screw** housing for a double **screw extruder**, the double **screw extruder** and a method for **manufacturing** a **screw** housing

Images



Publication numbers with kind code & date

AT511976	T	2011-06-15	ATE511976
EP2017062	B1	2011-06-08	EP2017062
US20100260883	A1	2010-10-14	US20100260883
WO2009/010125	A3	2009-06-04	WO200910125



WO2009/010125

A2

2009-01-22

WO200910125



EP2017062

A1

2009-01-21

EP2017062

**Abstract**

(EP2017062)

A flange for a **screw** housing (500) of a double **screw extruder**, the flange comprising a flange body, and a flange bore formed in the flange body and having a shape of two partially overlapping circles, wherein the flange bore has an inner perimeter corresponding to an outer perimeter of an accommodation chamber for two **extruder** screws.

Inventors

SCHNABL ERWIN

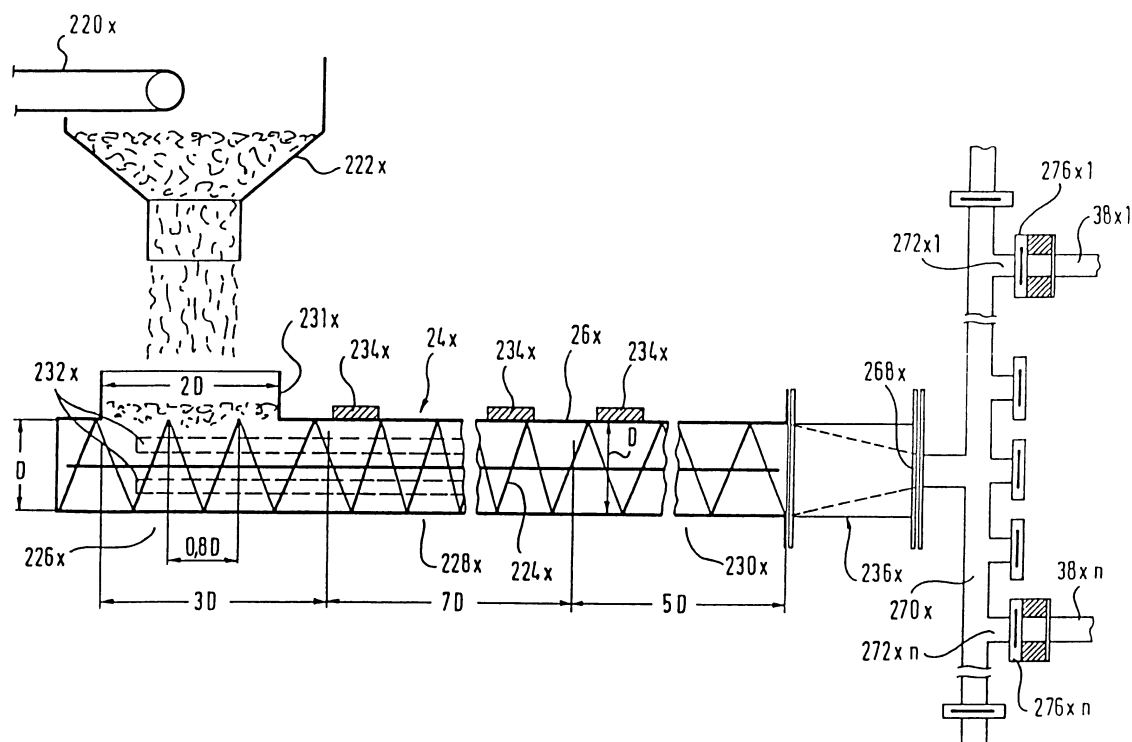
LAMMER ANDREAS

Family 7/100 - FAMPAT - ©Questel

Title

(EP-848660)

Process for producing profiled materials, in particular for door and window production

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

CZ296283

B6

2006-02-15

CZ-296283

DE59708207

D1

2002-10-17

DE59708207

AT223799

T

2002-09-15

ATE223799

EP0921931

B1

2002-09-11

EP-921931

PL183807

B1

2002-07-31

PL-183807

RU2177412

C2

2001-12-27

RU2177412

DE59607960

D1

2001-11-22

DE59607960

AT207006

T

2001-11-15

ATE207006

PL181921

B1

2001-10-31

PL-181921

EP0848660

B1

2001-10-17

EP-848660

HU219845

B

2001-08-28

HU-219845

US6237208

B1

2001-05-29

US6237208

PL331614

A1

1999-08-02

PL97331614

BR9610203

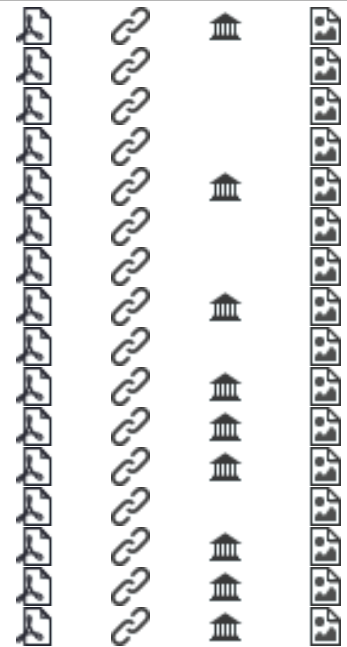
A

1999-07-06

BR9610203



EP0921931	A1	1999-06-16	EP-921931
HU9802429	A3	1999-03-01	HU9802429
HU9802429	A2	1999-01-28	HU9802429
BA96133	A	1998-12-28	BA9600133
DE19680705	D2	1998-10-29	DE19680705
CZ82798	A3	1998-08-12	CZ9800827
PL325055	A1	1998-07-06	PL96325055
EP0848660	A1	1998-06-24	EP-848660
TR199800382	T1	1998-05-21	TR199800382
NO980665	L	1998-04-16	NO-980665
AU4299497	A	1998-03-06	AU9742994
WO98/07559	A1	1998-02-26	WO9807559
NO980665	D0	1998-02-17	NO9800665
AU6925096	A	1997-03-12	AU9669250
WO97/06942	A1	1997-02-27	WO9706942
DE19530270	A1	1997-02-20	DE19530270



Abstract

(EP0848660)

In one embodiment of the invention, thermoplastic cuttings and additives made of vegetable fibres are mixed together and thermally plasticised. The thermoplasticised mixture is shaped by an extrusion die into a preliminary section. After a rest time, the cooled and thus hardened preliminary section is further shaped by cutting into an intermediate section. The rest time is calculated so that most of the expected shrinkage occurs during said time. The intermediate section is superficially coated with a plastic film. The thus obtained end section may be used to produce window casements or door leaves and door and window frames.

Inventors

MEETH ERNST JOSEF

Family 8/100 - FAMPAT - ©Questel

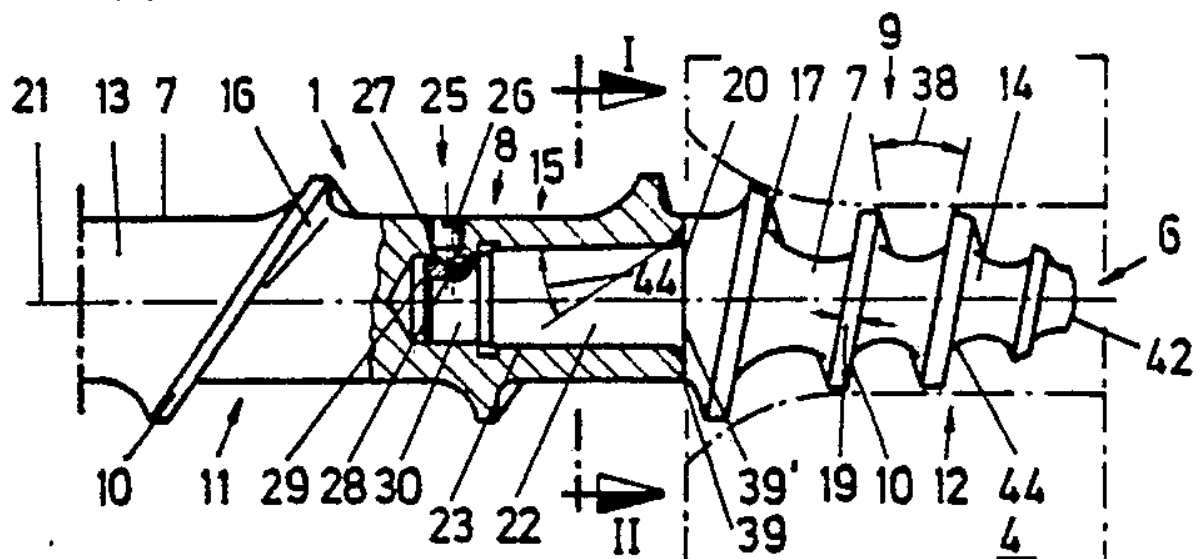
Title

(EP-330003)

Screw extruder.

Images

Fig. 2



EP0330003	B2	1995-11-08	EP-330003				
DE58900644	D1	1992-02-13	DE58900644				
AT71018	T	1992-01-15	ATE071018				
EP0330003	B1	1992-01-02	EP-330003				
DE3806146	A1	1989-09-07	DE3806146				
EP0330003	A1	1989-08-30	EP-330003				

Abstract

(EP0330003)

Screw extruder comprising a **screw** (1) consisting of two sections (11, 12), the connection of which is provided by a surface-bearing coupling which is held under prestress using a safety device. The second **screw** part (12) at the free **screw** end consists of wear- resistant material, in which the dimensions of the **screw** core, **screw** thread and of the **screw** end are in conformity with the requirements of the material to be extruded. <IMAGE>

Inventors

FRAUSCHER JOSEF

GROISBOECK FRANZ

LEPOSA WOLFGANG

POECHERSTORFER MANFRED

Latest standardized assignees - inventors removed

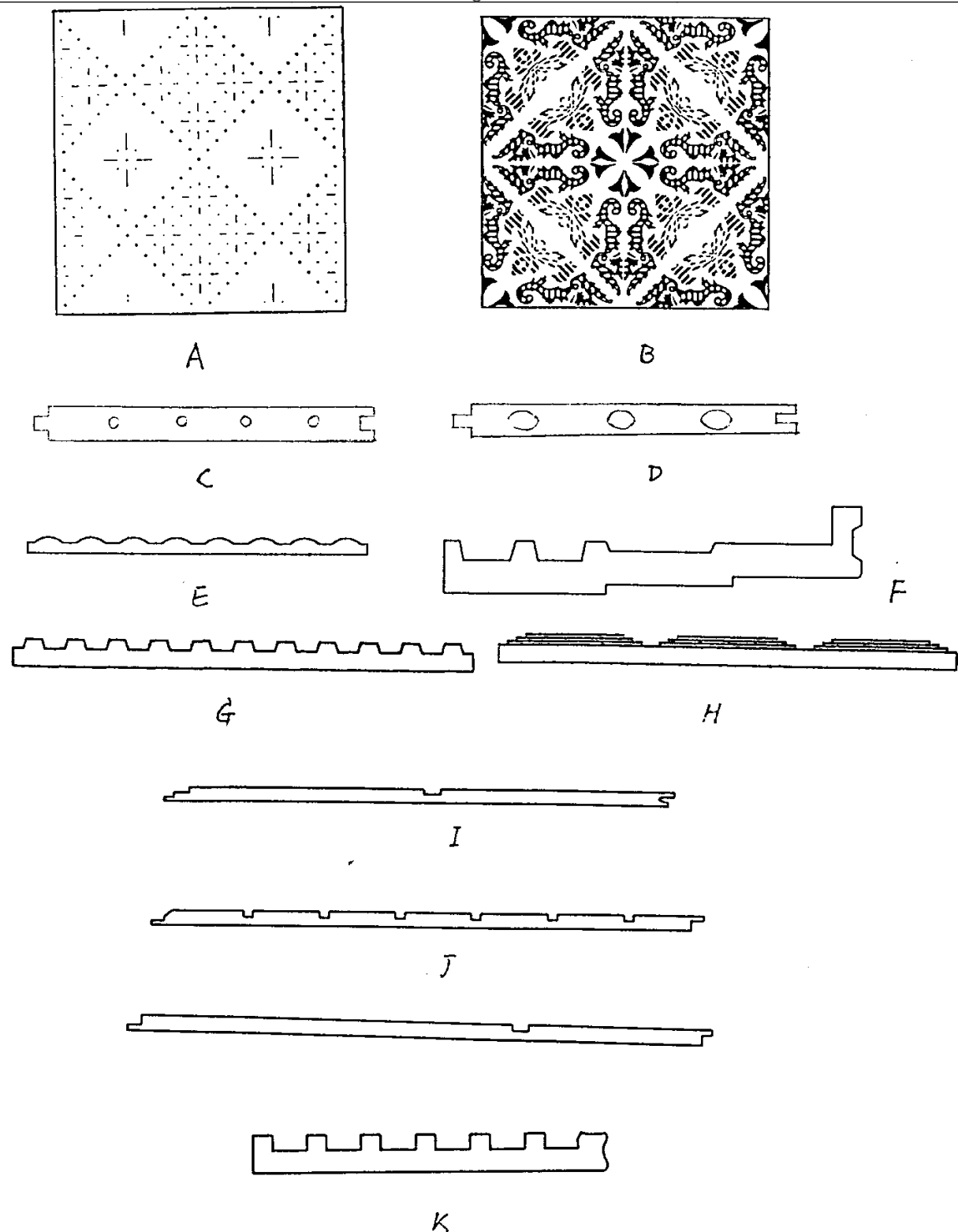
POTTINGER

Family 9/100 - FAMPAT - ©Questel

Title

(CN2434119U)

Single **screw extruder** for mfg. fiber cement slab by high pressure extruding process**Images**



Publication numbers with kind code & date

CN2434119

Y 2001-06-13

CN2434119U



Abstract

(CN2434119)

The utility model discloses a single **screw extruder** for mfg. fiber cement slabs by a high pressure extruding process. The utility model is characterized in that material which is sufficiently mixed and kneaded is fed into a twin-**screw** feeder of the **extruder** to **feed** to a vacuum chamber in a rotary mode; a slicing device on the side wall of the vacuum chamber slice the material; the material is toggled into the single **screw extruder** by a kick-out device; a single **screw** is arranged in the single **screw extruder**; an evacuating device is started to cause the vacuum chamber to maintain a negative pressure in order to suck air in the lamellar material to cause the material to be dense and to be continuously extruded from an **extruder** die; the varieties and the sizes of products can be changed by changing the die or changing the size and the shape of a core in the die, and the quality of the products is good.

Inventors

CHEN ZHIYU

CHEN LING

HE HONGBI

WANG DINGQIANG

LIU YANG

XU ZHIGANG

WANG QUANJU

ZHANG GUOLIANG

LIAO CHUANMING

LIN XIHUI

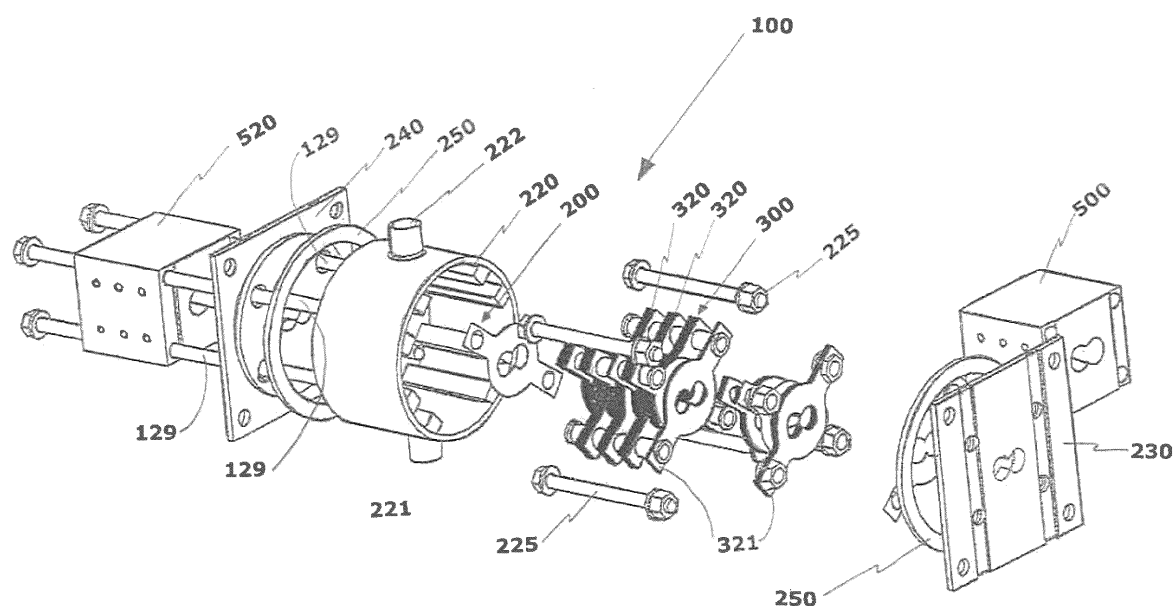
Latest standardized assignees - inventors removed

BEIJING NEW BUILDING MATERIALS BNBM

Family 10/100 - FAMPAT - ©Questel

Title

(EP2833986)

Twin **screw extruder** press for solid/fluid separation**Images****Publication numbers with kind code & date**

MX355969	B	2018-05-07	MX-355969
AU2013243202	B2	2017-06-15	AU2013243202
US9643110	B2	2017-05-09	US9643110
SG11201406102Y	B	2016-12-16	SG11201406102Y
UA112793	C2	2016-10-25	UA-112793
CN104334248	B	2016-10-05	CN104334248B
NZ700457	A	2016-09-30	NZ-700457
GEP201606524	B	2016-08-10	GE201606524
US9403109	B2	2016-08-02	US9403109
RU2014142310	A	2016-05-27	RU2014142310
EP2833986	A4	2016-04-20	EP2833986
TH147415	A	2016-03-04	TH-147415



ZA201407288	B	2016-01-27	ZA201407288				
HK1206303	A1	2016-01-08	HK1206303				
IN8977DEN2014	A	2015-05-22	IN2014DN08977				
JP2015514006	A	2015-05-18	JP2015514006				
MX2014011920	A	2015-05-11	MX2014011920				
CA2821845	C	2015-03-17	CA2821845				
VN41061	A	2015-02-25	VN--41061				
EP2833986	A1	2015-02-11	EP2833986				
CN104334248	A	2015-02-04	CN104334248				
IL234936	A	2014-12-31	IL-234936				
CL2014002660	A1	2014-12-19	CL201402660				
KR10-2014-0143824	A	2014-12-17	KR20140143824				
PH12014502253	A1	2014-12-15	PH12014502253				
CO7131370	A2	2014-12-01	CO7131370				
SG11201406102Y	A	2014-10-30	SG11201406102Y				
BR112014024654	A1	2014-10-21	BR112014024654				
AU2013243202	A1	2014-10-16	AU2013243202				
US20130264264	A1	2013-10-10	US20130264264				
WO2013/149350	A1	2013-10-10	WO2013149350				
CA2821845	A1	2013-10-05	CA2821845				

Abstract

(EP2833986)

Disclosed is a solid/liquid separation apparatus including an **extruder** press combined with a solid/fluid separation module for separating fluid from a mass of solids compressed by the **extruder** at elevated pressures. The **extruder** includes two or more **extruder** screws with flighting intercalated at least along a part of the **extruder** barrel. The separation module forms a continuation of the barrel, receives the pressurized mass and at least a portion of the twin screws, and includes a filter pack consisting of a filter plate and a backer plate. The filter plate has a throughgoing filter slot extending away from a core opening and into the filter plate for directing fluid away from the core opening. The backer plate has a core opening shaped and sized equal to the barrel and defines a passage for guiding fluid collected in the filter slot to an exterior of the filter pack.

Inventors

LEHOUX RICHARD ROMEO

BRADT CHRISTOPHER BRUCE

Latest standardized assignees - inventors removed

GREENFIELD SPECIALTY ALCOHOLS

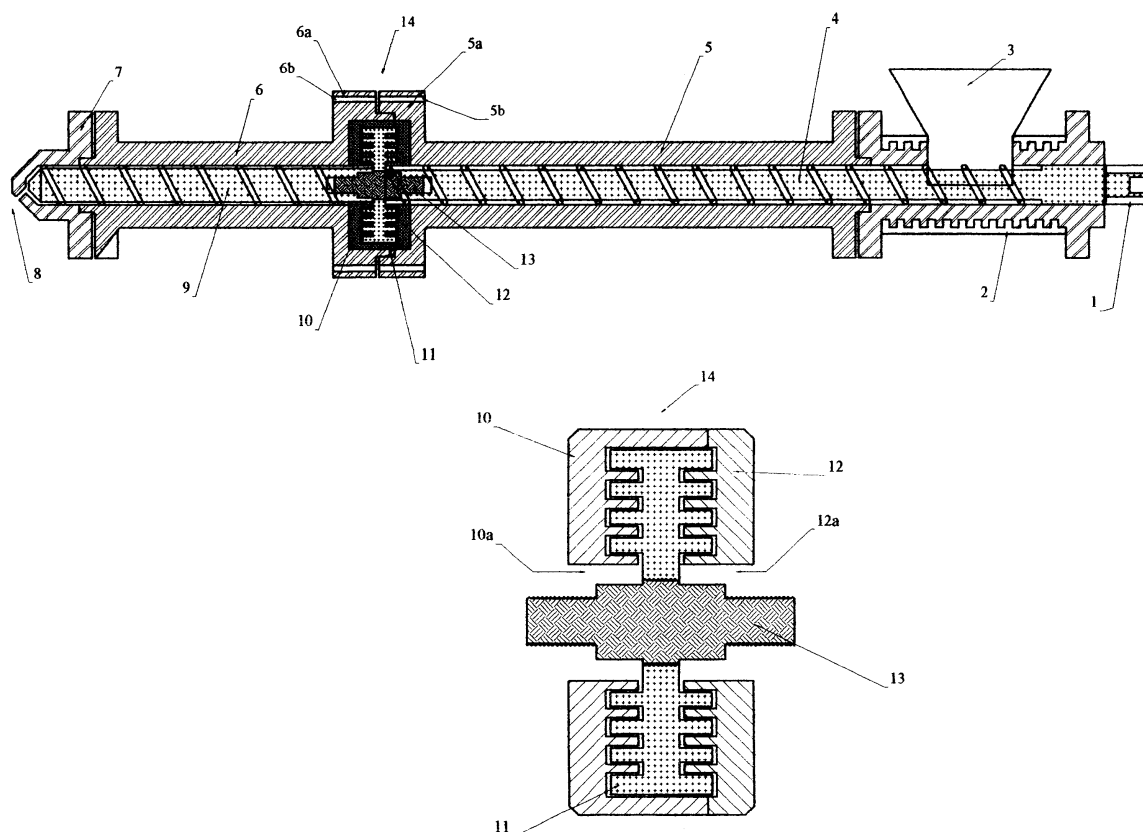
Family 11/100 - FAMPAT - ©Questel

Title

(EP1123154)

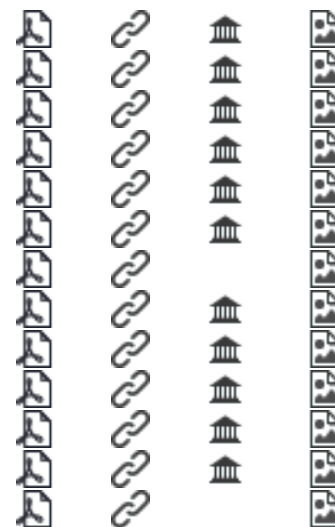
Rotor-stator mixing apparatus especially for single **screw extruder**

Images



Publication numbers with kind code & date

IN202571	B	2007-03-16	IN-202571
IN0403/KOLNP/2001	A	2005-12-02	IN2001KN00403
DE69906771	T2	2004-03-11	DE69906771
CN1120037	C	2003-09-03	CN1120037C
US6588925	B1	2003-07-08	US6588925
DE69906771	D1	2003-05-15	DE69906771
AT236713	T	2003-04-15	ATE236713
EP1123154	B1	2003-04-09	EP1123154
CN1324268	A	2001-11-28	CN1324268
EP1123154	A1	2001-08-16	EP1123154
AU1053300	A	2000-05-08	AU200010533
WO00/23179	A1	2000-04-27	WO200023179
GB9822750	D0	1998-12-16	GB9822750



Abstract

(EP1123154)

A single **screw extruder** comprises a mixer (14) associated with the **screw** (4, 9), and comprising a rotor (11) driven by the **screw** (4) and a stator, the rotor and the stator each carrying mutually facing interengaging rings (22a, 22b, 22c, 22d, 32a, 32b, 32c, 32d) of teeth (21) whereby the material is urged outwardly from the **screw** (9) along a first tortuous mixing path, and then returned inwardly to **screw** (4) along a second tortuous mixing path, the teeth (21) extending axially, or generally so, with respect to the longitudinal axis of the **screw**. The invention also includes a mixer comprising a cylindrical stator chamber (10, 12) having opposed, radially extending faces provided with axially projecting, radially spaced-apart rings (22a, 22b, 22c, 22d) made up of alternating teeth (21) and ridges (20), a rotor (11) rotatably fitted within the stator and provided on its opposite side faces with axially projecting, radially spaced-apart rings (32a, 32b, 32c, 32d) of alternating teeth (21) and ridges (20), and the rotor and stator rings interengaging with both radial and axial clearance so as to define a tortuous material flow path.

Inventors

HILDER ROBIN MATTHEW

Latest standardized assignees - inventors removed

KALTOR

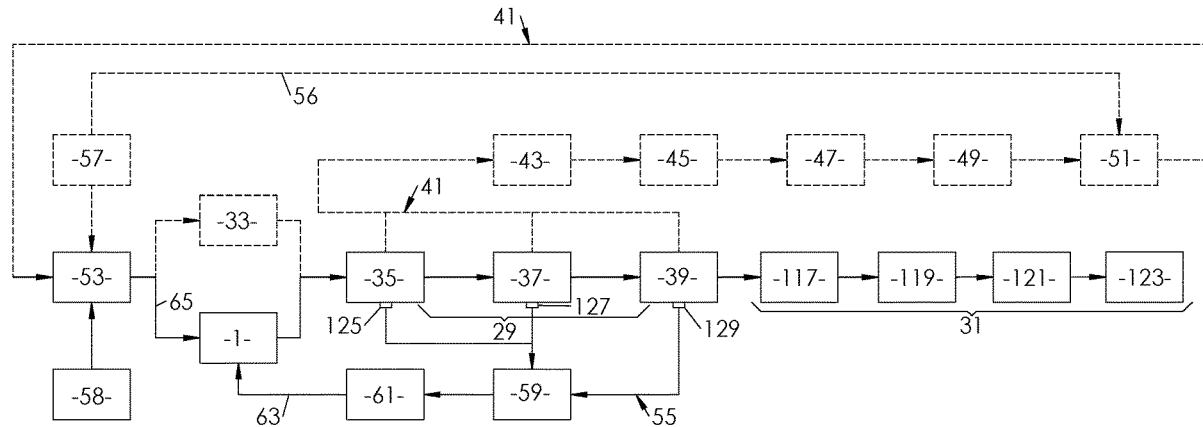
Family 12/100 - FAMPAT - ©Questel

Title

(EP3727792)

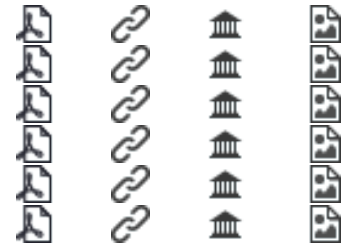
Production of containers with recycling by twin-screw extruder

Images



Publication numbers with kind code & date

US20200346384	A1	2020-11-05	US20200346384
EP3727792	A1	2020-10-28	EP3727792
CN111683802	A	2020-09-18	CN111683802
FR3066135	B1	2019-08-09	FR3066135
WO2019/122609	A1	2019-06-27	WO2019122609
FR3066135	A1	2018-11-16	FR3066135



Abstract

(EP3727792)

The invention relates to the manufacture of hollow objects made of plastic material by means of an **extruder**. To improve the quality of the objects manufactured and the **manufacturing** regularity, the **extruder** (1) which is supplied at least with the initial proportioned mixture (65) and towards which at least one portion of the moulded blanks and/or the blanks that are moulded and then heated in order to manufacture said objects and/or the finally manufactured objects are recycled (via 55), is a twin-screw **extruder**.

Inventors

DUCLOS YVES-ALBAN

Latest standardized assignees - inventors removed

SIDEL PARTICIPATIONS

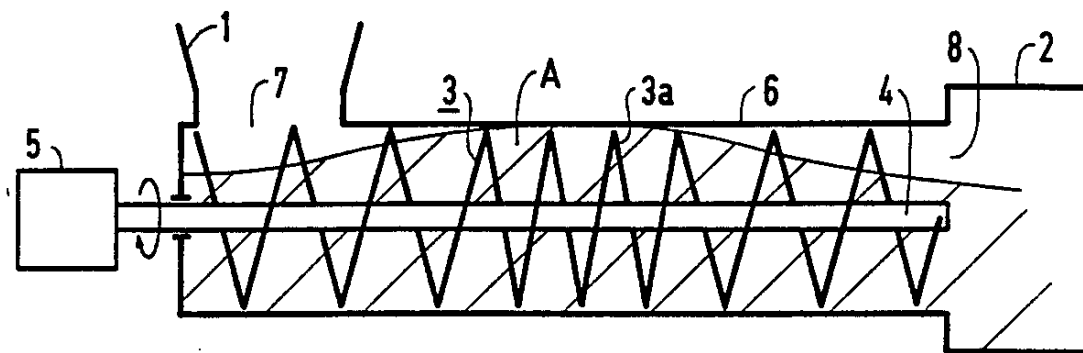
Family 13/100 - FAMPAT - ©Questel

Title

(EP-662926)

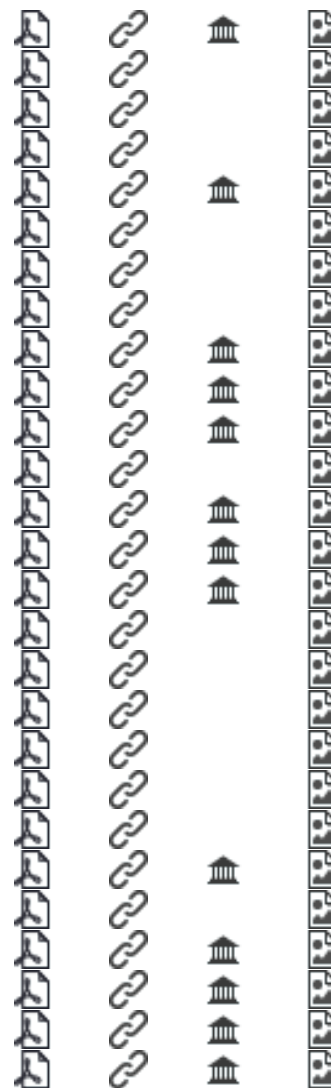
Transport device with a screw conveyor

Images



Publication numbers with kind code & date

JP2003000005	U	2003-07-04	JP2003000005U
CZ286835	B6	2000-07-12	CZ-286835
KR10-0251009	B1	2000-04-15	KR100251009
HU217600	B	2000-02-28	HU-217600
CN1042620	C	1999-03-24	CN1042620C
SK279640	B6	1999-01-11	SK-279640
RU2117617	C1	1998-08-20	RU2117617
PL171889	B1	1997-06-30	PL-171889
DK0662926	T3	1997-06-02	DK-662926T
ES2095666	T3	1997-02-16	ES2095666
DE59304633	D1	1997-01-09	DE59304633
AT145621	T	1996-12-15	ATE145621
EP0662926	B1	1996-11-27	EP-662926
US5558203	A	1996-09-24	US5558203
JPH08501522	A	1996-02-20	JP08501522
CZ68295	A3	1996-02-14	CZ9500682
HUT70610	A	1995-10-30	HU-T70610
KR1995-7003477	A	1995-09-20	KR19957003477
KR950703477	A	1995-09-20	KR19950703477
SK37295	A3	1995-08-09	SK9500372
PL308125	A1	1995-07-24	PL93308125
EP0662926	A1	1995-07-19	EP-662926
HU9500900	D0	1995-05-29	HU9500900
CN1086785	A	1994-05-18	CN1086785
CA2145637	A1	1994-04-14	CA2145637
WO94/07780	A1	1994-04-14	WO9407780
DE4232684	A1	1994-03-31	DE4232684



Abstract

(EP0662926)

A transport device has a **screw conveyor** (3) rotative around its longitudinal axis and arranged in a housing (6) having a filling opening (7) and a discharging opening (8). In a partial section of the housing (6), the **screw conveyor** (3) has a different pitch. An enlarged space (9a-d) for relatively large components of the products to be transported may be arranged between the **screw conveyor** (3) and the housing (6, 6a-d).

Inventors

HERM HARTMUT

MAY KARL

UNVERZAGT KARLHEINZ

Latest standardized assignees - inventors removed

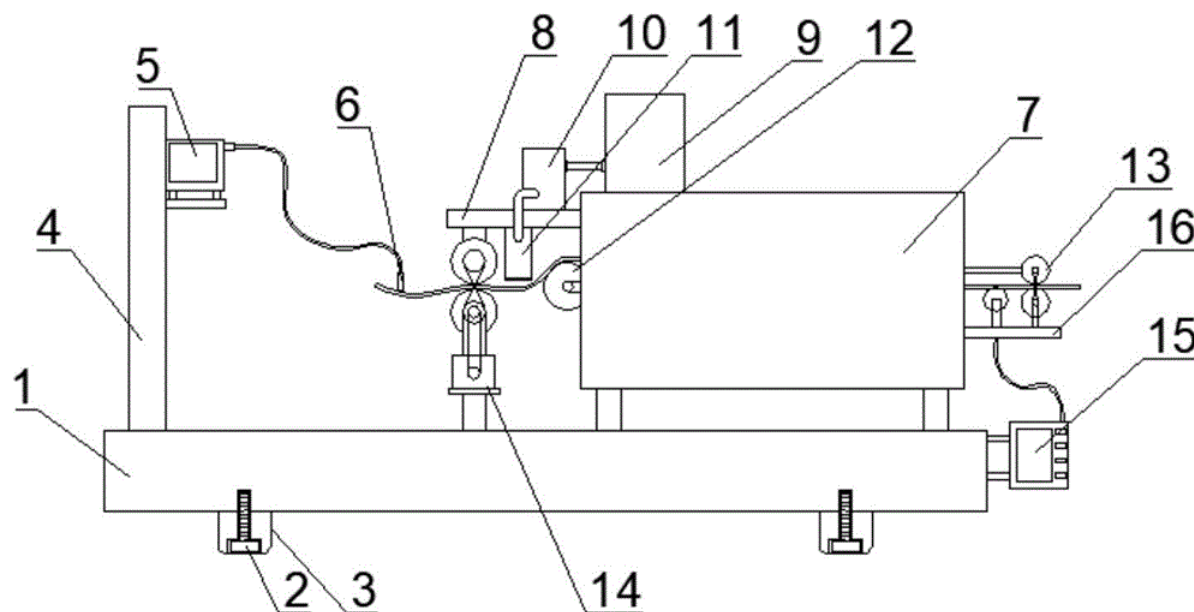
MITSUI ENGINEERING & SHIPBUILDING

TAKUMA

Family 14/100 - FAMPAT - ©Questel

Title

(CN211665439U)

Manufacturing device with friction-resistant tipping **paper****Images****Publication numbers with kind code & date**

CN211665439

U

2020-10-13

CN211665439U

**Abstract**

(CN211665439)

The utility model discloses a **manufacturing** installation with antifriction china cypress **paper**, make machine body and material pump including base, riser, china cypress **paper**, the machine body is made through the fixed slot installation respectively in base top both ends riser and china cypress **paper**, the welding of riser top one side has fixed short slab and fixed short slab top to have coating thickness detector through the mounting **screw**, the welding of machine body top one end is made to china cypress **paper** has the workbin, the welding of machine body top one side is made to china cypress **paper** has the mounting panel, mounting panel bottom one end has the spray tube through the mounting **screw**, the welding of the mounting panel bottom other end has short bar and short bar one side to be provided with the **compression** roller. The utility model discloses can conveniently be at the resistant frictional layer of tipping **paper** surface coating resin to promote the resistant friction effect on tipping **paper** surface, can conveniently detect the thickness of the coating on tipping **paper** surface, the shock attenuation effect is good, can conveniently measure length, is fit for being extensively promoted and used.

Inventors

WANG YANBIN

ZHOU JICANG

GU LEIMING

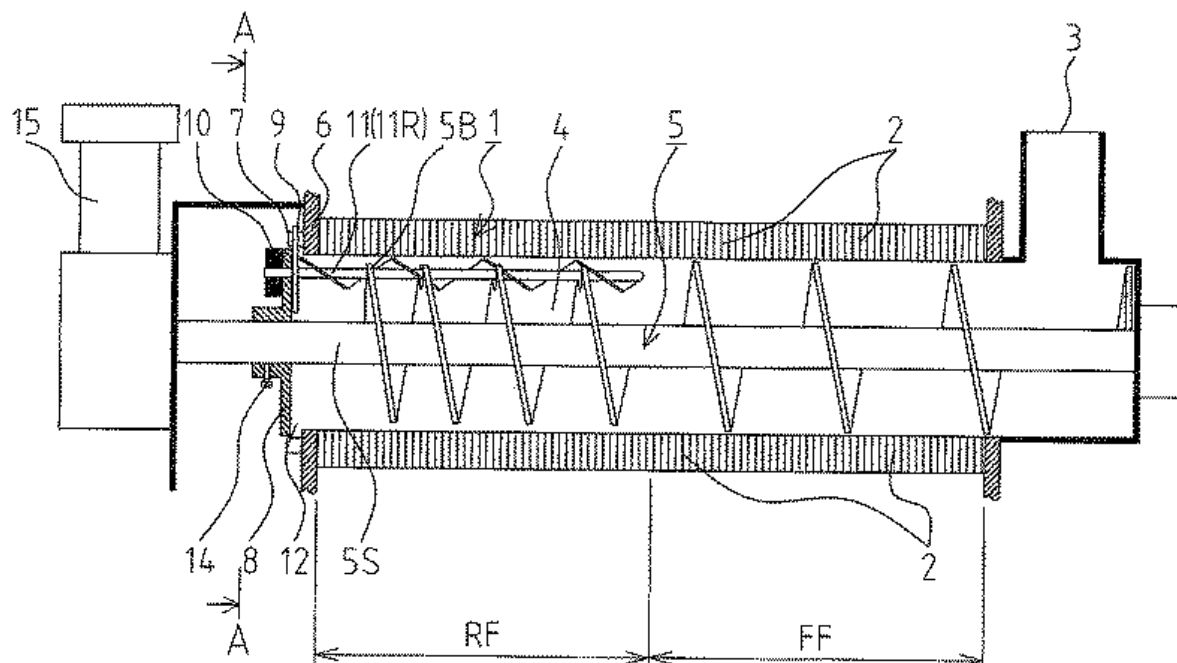
Latest standardized assignees - inventors removedZHEJIANG BENKETE TIPPING **PAPER**

Family 15/100 - FAMPAT - ©Questel

Title

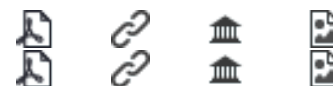
(JP2010119898)

Screw type filtration dehydrator**Images**



Publication numbers with kind code & date

JP4954182	B2	2012-06-13	JP4954182
JP2010119898	A	2010-06-03	JP2010119898



Abstract

(JP2010119898)

PROBLEM TO BE SOLVED: To provide a compact and low cost **screw** type filtration dehydrator that is almost trouble-free, has excellent dehydration efficiency, and is excellent in maintainability.

SOLUTION: The **screw** type filtration dehydrator is constructed in the following manner. A **screw conveyor** 5 is fitted into the center hole 4 of a cylindrical filter 1 equipped with a front end opening as a sludge feeding port 3. A pressure regulator valve 8 that faces an annular valve seat 6 fixed onto the terminal end opening of the cylindrical filter 1, is adjustably mounted on a **screw** shaft 5S. A gap between the opposing faces of the pressure regulator valve 8 and the annular valve seat 6 is provided as a discharge port 12 for discharging dehydrated cake. A plurality of movable plates 1KA are eccentrically rotated as a first driving mechanism of driving the **screw conveyor** 5 in such a manner that the inner circumferences of the movable plates 1KA disposed in the front half FF of the cylindrical filter 1 contiguously slide on the outer circumference of the **screw conveyor** 5. The inner circumferences of the movable plates 1KA disposed in the rear half RF of the cylindrical filter 1 and the outer circumference of the **screw conveyor** 5 are contactlessly disposed. A second driving mechanism that eccentrically rotates the movable plates 1KA by an eccentric shaft 11, and the first driving mechanism are each separately provided.

COPYRIGHT: (C)2010,JPO&INPIT

Inventors

CHIGA TATSUYA
NAKANO TAKESHI

Latest standardized assignees - inventors removed

TSURUMI **MANUFACTURING**

Family 16/100 - FAMPAT - ©Questel

Title

(EP3102988)

Drive system for **conveyor**, **extruder**, thrust and traction devices, synchronizing applications and center winds

Images

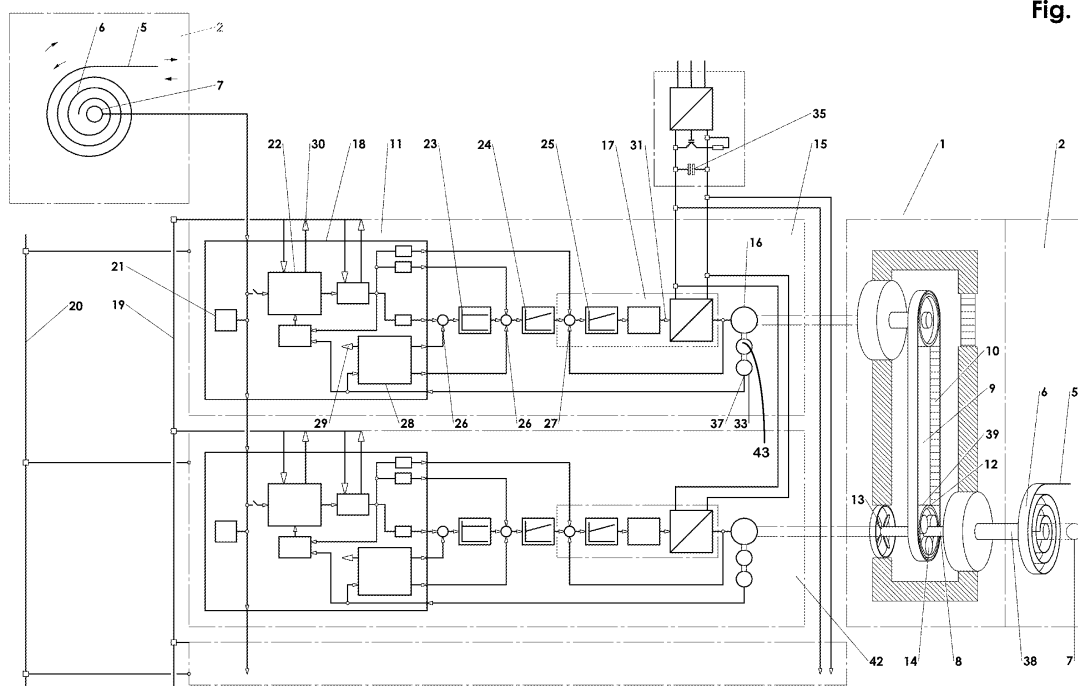


Fig. 3

Publication numbers with kind code & date

EP3102988	A1	2016-12-14	EP3102988
DE112015000612	A5	2016-11-03	DE112015000612
WO2015/113562	A1	2015-08-06	WO2015113562



Abstract

(EP3102988)

Disclosed is a drive system (1) for **conveyor**, **extruder**, thrust and traction devices, center winds and synchronizing applications (2), comprising at least one power-split powertrain (8) and a plurality of drive units (15, 42) or electric motors that are coupled via a software-driven electronic synchronization system (11), the power-split being implemented by means of a gear stage (9) or a planetary gear set. The drive units (15, 42) are controlled by means of a time-dependent, distance-dependent and/or angle-dependent and/or speed-dependent and/or acceleration-dependent and/or deceleration-dependent and/or torque-dependent controller which controls a synchronous acceleration or deceleration of at least one drive unit (15, 42) in accordance with linearly or hyperbolically increasing power characteristics or a constant power curve (32). The drive units (15, 42) are operated either as a motor or a generator, the power balance being achieved in a intermediate voltage circuit with integrated braking chopper or brake resistor and the drive units (15, 42) being operated in the field weakening range.

Inventors

GONZÁLEZ-VILLAR JUAN CARLOS

Family 17/100 - FAMPAT - ©Questel

Title

(DE4213213)

Machine for prodn. of sheet from scrap thermoplastics and **paper** - has breaker for respective raw bales, disintegrator, chips stores and dispenser, **extruder** with flat sheet die, cooling rollers and edge trimmers

Images

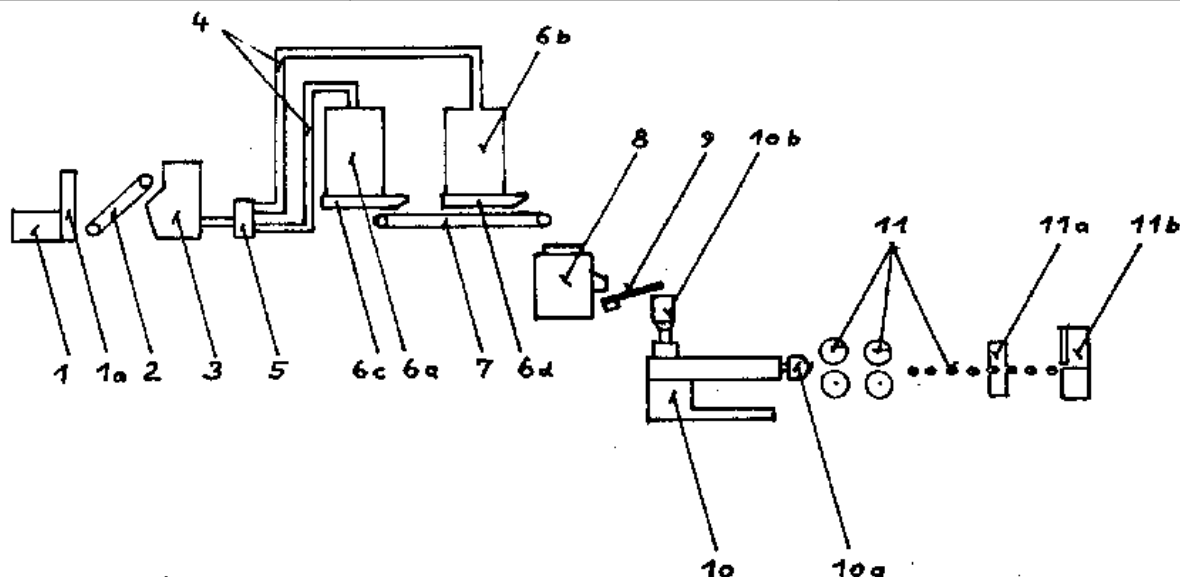
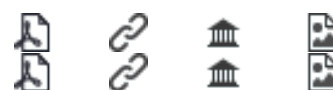


Fig. 1

Publication numbers with kind code & date

DE4226837	A1	1994-02-17	DE4226837
DE4213213	A1	1993-10-28	DE4213213

**Abstract**

(DE4213213)

A plant has rollers, a bales breaker, a cutter, sorter, at least two silos for disintegrated chips each silo having regulated dischargers, a processing device, an **extruder** with flat sheet die and intermediate container, a cooling station with side and cross-cutter. These various components are linked together by conveyors so that there is a continuous uninterrupted flow of material through from the scrap to the final sheets. Plastic and **paper** scrap are supplied in bales and these are placed on the roller **conveyor** (1) before being cut into sheets. These are set on a **conveyor** belt (2), passed through a metal detector and then to a disintegrator (3), from which the chips produced are stored (6a,6b), one for plastics and one for **paper** via the sorting gate (5). The respective chips are passed in controlled ratio out to the **conveyor** belt (7) and to the container (10b); this feeds an **extruder** (10) whose flat sheet extrusion is passed through cooling rollers (11) and is then trimmed (11a,11b). ADVANTAGE - The plant can utilise production scrap plastic materials as well as domestic scrap, or even composite plastic scrap and convert them into sheets.

Inventors

SCHNAUSE ROLF DIPL ING

Latest standardized assignees - inventors removed

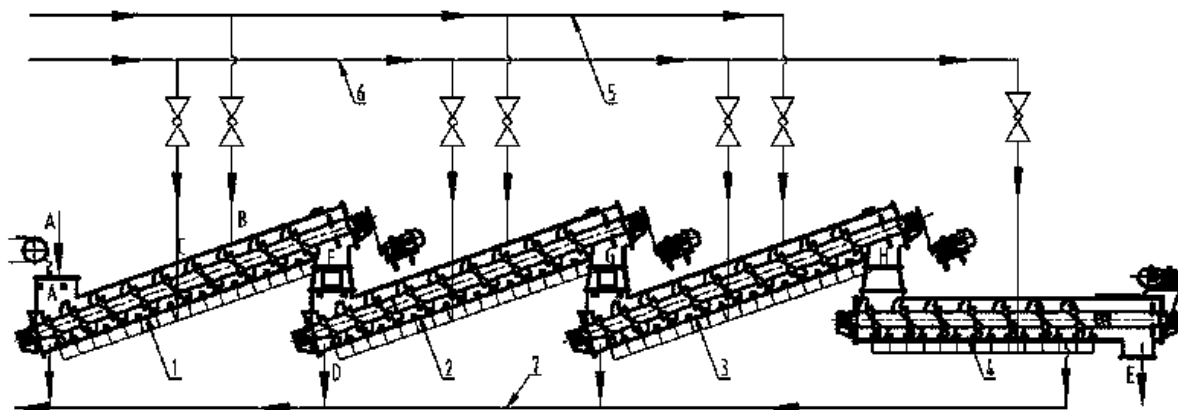
SCHNAUSE ROLF24105 KIEL

Family 18/100 - FAMPAT - ©Questel

Title

(CN205187202U)

Can evaporate **screw** conveyer group of preimpregnation wood chip in advance**Images**

**Publication numbers with kind code & date**

CN205187202

U

2016-04-27

CN205187202U

**Abstract**

(CN205187202)

The utility model discloses a can evaporate **screw** conveyor group of preimpregnation wood chip in advance, including **conveyor**, chemical pipeline and steam conduit, **conveyor** comprises at least three auger delivery ware head and the tail intercommunication in proper order, the preceding all auger delivery wares of that auger delivery ware that remove the rearmost end all are slope settings, the auger delivery ware level of rearmost end sets up, an auger delivery ware front end foremost is provided with the **feed** inlet, the afterbody of the auger delivery ware of rearmost end is provided with the discharge gate, every auger delivery ware that the slope set up all is provided with chemical pipeline interface and steam conduit interface, and chemical pipeline interface and chemical drug article pipeline intercommunication, steam conduit interface and steam conduit intercommunication, still be equipped with the chemical backflow pipeline interface on every auger delivery ware. The utility model discloses utilizing the auger delivery ware of a plurality of series connection to constitute the unit, evaporating the pre -preg with chemical at the in -process of carrying in advance to the wood chip, the energy consumption is low, and chemical absorbs evenly, and pre -preg is effectual.

Inventors

JIANG FENGWEI

LIU ZHUHONG

ZHU HONGJUN

SHENG HAIPENG

LI ZHANGGUO

CUI LIKAI

LI YANPING

GU YONGLIANG

Latest standardized assignees - inventors removedHENAN DAZHI **PAPER** EQUIPMENT INTEGRATION ENGINEERING

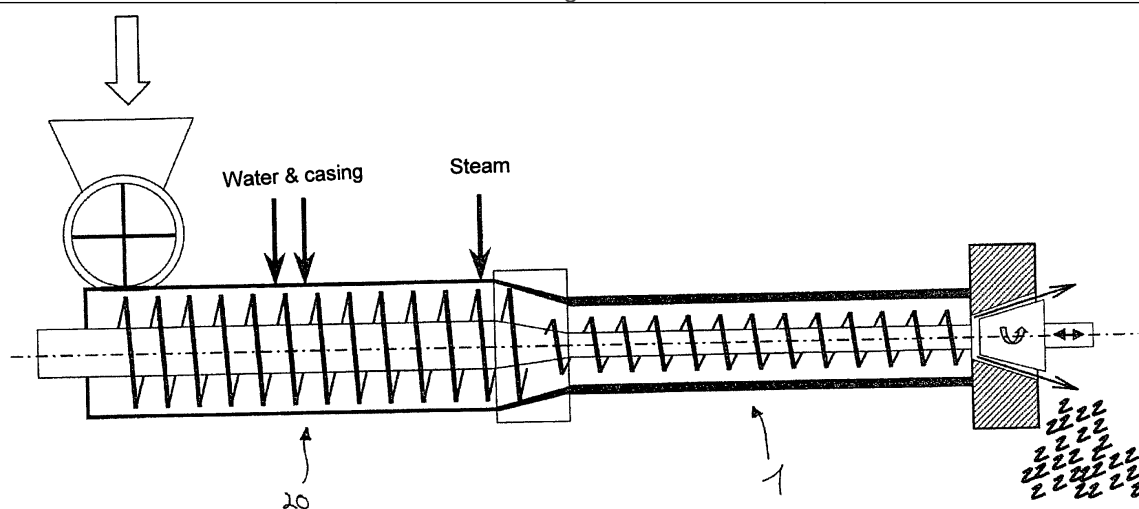
Family 19/100 - FAMPAT - ©Questel

Title

(EP1827142)

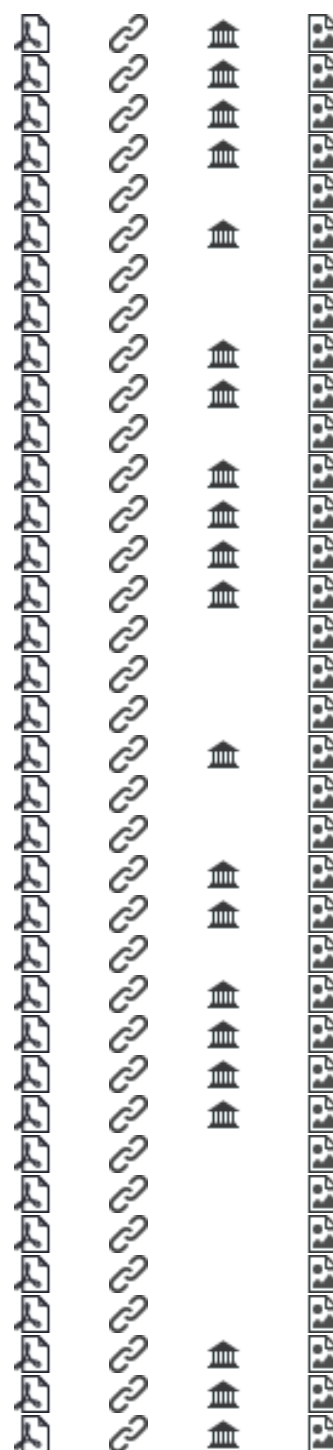
Defibrillation of tobacco material

Images



Publication numbers with kind code & date

US8820328	B2	2014-09-02	US8820328
BRPI0518864	B1	2013-04-09	BR200518864
CN101076262	B	2012-05-23	CN101076262B
JP4912319	B2	2012-04-11	JP4912319
CL2011001813	A1	2012-03-09	CL201101813
CA2584344	C	2012-01-17	CA2584344
MY145101	A	2011-12-30	MY-145101
PL1827142	T3	2011-11-30	PL1827142
ES2364664	T3	2011-09-08	ES2364664
DK1827142	T3	2011-09-05	DK1827142T
AT513483	T	2011-07-15	ATE513483
EP1827142	B1	2011-06-22	EP1827142
US7934509	B2	2011-05-03	US7934509
IN247550	B	2011-04-22	IN-247550
US20110088705	A1	2011-04-21	US20110088705
KR100967767	B1	2010-07-05	KR100967767
UA89806	C2	2010-03-10	UA--89806
VN0008110	B	2010-01-25	VN---8110B
AU2005313656	B2	2009-12-17	AU2005313656
RU2350233	C1	2009-03-27	RU2350233
RU2007125629	A	2009-01-20	RU2007125629
BRPI0518864	A2	2008-12-16	BR200518864
JP2008522595	A	2008-07-03	JP2008522595
ZA200703169	B	2008-06-25	ZA200703169
US20080142027	A1	2008-06-19	US20080142027
CN101076262	A	2007-11-21	CN101076262
IN3025/CHENP/2007	A	2007-09-07	IN2007CN03025
EP1827142	A1	2007-09-05	EP1827142
SG132382	B	2007-08-31	SG-132382
KR20070087000	A	2007-08-27	KR20070087000
SG132382	A1	2007-07-30	SG-132382
MX2007006929	A	2007-06-26	MX2007006929
AR053420	A1	2007-05-09	AR--53420
DE102004059388	B4	2006-11-30	DE102004059388
AU2005313656	A1	2006-06-15	AU2005313656
CA2584344	A1	2006-06-15	CA2584344



WO2006/061117	A1	2006-06-15	WO200661117
DE102004059388	A1	2006-06-14	DE102004059388
DE202004019711	U1	2005-04-14	DE202004019711

**Abstract**

(EP1827142)

The invention relates to a method for producing comminuted tobacco material, during which a tobacco starting material is heated and placed under pressure, whereupon this heated and material placed under pressure is guided in an unstressed manner through a shearing gap and defibrated. The invention also relates to a device for producing comminuted tobacco material with a pressure chamber, which has a tobacco material inlet on the low-pressure side, a tobacco material outlet on the pressure side, and a conveying device for conveying the tobacco material from the inlet to the outlet. The tobacco material outlet has a gap for the passage of the tobacco material that is not stressed, and this gap has gap walls that can move relative to one another. The invention additionally relates to a smoking article that has a defibrated tobacco material product comminuted in the aforementioned manner, and relates to the use of a stuffing **screw extruder** with a shearing gap outlet for defibrating tobacco material.

Inventors

EHLING UWE

SCHMEKEL GERALD

FRANKE DIETMAR

LINK MATTHIAS

Latest standardized assignees - inventors removed

BRITISH AMERICAN TOBACCO

Family 20/100 - FAMPAT - ©Questel

Title

(EP2224059)

Grass type unbleached **paper** products and production method thereof**Images****Publication numbers with kind code & date**

EP2224059	B1	2014-09-10	EP2224059
JP5585882	B2	2014-09-10	JP5585882
KR10-1410110	B1	2014-06-25	KR101410110
CA2731073	C	2014-05-20	CA2731073
US8303772	B2	2012-11-06	US8303772
EP2224059	A4	2012-10-24	EP2224059
CN101449942	B	2012-10-03	CN101449942B
CN101638863	B	2012-06-27	CN101638863B
CN101638865	B	2012-06-27	CN101638865B
CN101638862	B	2012-05-30	CN101638862B
CN101638864	B	2012-05-30	CN101638864B
RU2447219	C2	2012-04-10	RU2447219
RU2010127152	A	2012-01-10	RU2010127152
CN101638866	B	2012-01-04	CN101638866B
US20110061825	A1	2011-03-17	US20110061825
JP2011505505	A	2011-02-24	JP2011505505
CN101352324	B	2010-11-24	CN101352324B
IN1389/MUMNP/2010	A	2010-11-12	IN2010MN01389
KR10-2010-0098676	A	2010-09-08	KR20100098676



EP2224059	A1	2010-09-01	EP2224059				
CN101352296	B	2010-08-11	CN101352296B				
CN101638862	A	2010-02-03	CN101638862				
CN101638863	A	2010-02-03	CN101638863				
CN101638864	A	2010-02-03	CN101638864				
CN101638865	A	2010-02-03	CN101638865				
CN101638866	A	2010-02-03	CN101638866				
CN100519932	C	2009-07-29	CN100519932C				
CN100519933	C	2009-07-29	CN100519933C				
CN100519934	C	2009-07-29	CN100519934C				
CN100519935	C	2009-07-29	CN100519935C				
CN100507146	C	2009-07-01	CN100507146C				
CA2731073	A1	2009-06-11	CA2731073				
WO2009/070955	A1	2009-06-11	WO200970955				
CN101449942	A	2009-06-10	CN101449942				
CN101352296	A	2009-01-28	CN101352296				
CN101352324	A	2009-01-28	CN101352324				
CN101353871	A	2009-01-28	CN101353871				
CN101353872	A	2009-01-28	CN101353872				
CN101353873	A	2009-01-28	CN101353873				
CN101353874	A	2009-01-28	CN101353874				
CN101353875	A	2009-01-28	CN101353875				

Abstract

(EP2224059)

Provided is an unbleached **paper** product made from grass type pulp, the unbleached **paper** product has a brightness of 35-60% ISO, the grass type pulp is unbleached. The unbleached **paper** product includes an unbleached toilet **paper**, an unbleached hand towel, an unbleached wiping **paper**, an unbleached duplicating **paper**, an unbleached meal container, an unbleached food wrapping **paper** and an unbleached printing **paper**. The **paper** products have a high intensity and have no detection of dioxin and absorbable organic halides in the harmful substance detection test.

Inventors

LI HONGFA

SONG MINGXIN

YANG JIHUI

BI YANJIN

XU JINXIANG

Latest standardized assignees - inventors removed

SHANDONG FUYIN **PAPER** & ENVIRONMENTAL PROT TECHNOLOGY

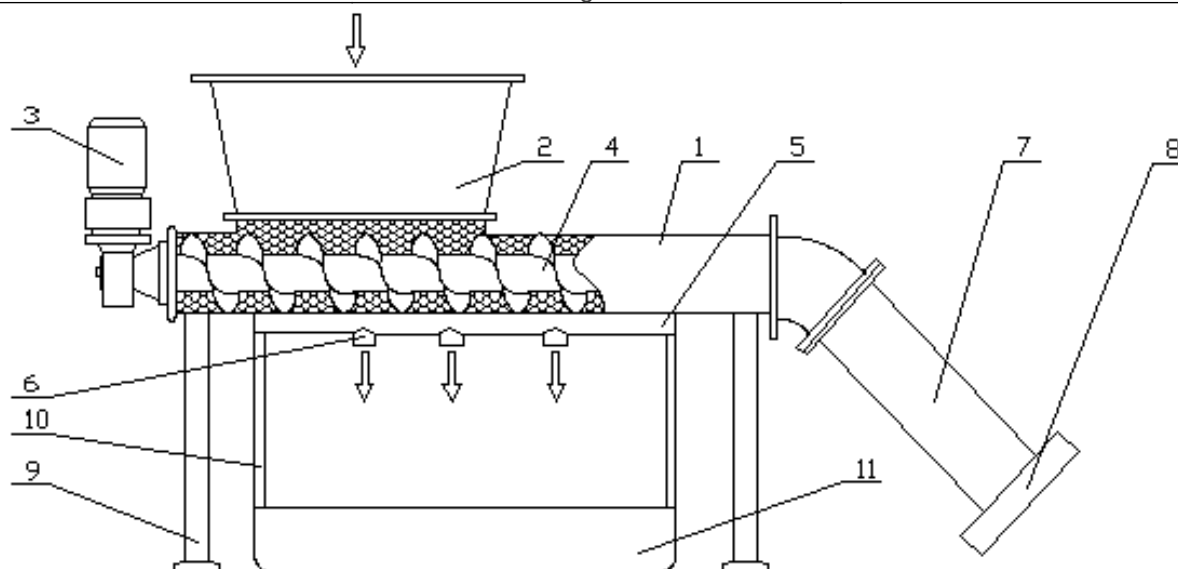
Family 21/100 - FAMPAT - ©Questel

Title

(CN203994805U)

Spiral conveying presser for **manufacturing** balance **paper**

Images



Publication numbers with kind code & date

CN203994805

U

2014-12-10

CN203994805U



Abstract

(CN203994805)

The utility model relates to the technical field of pressers, in particular to a spiral conveying presser for **manufacturing** balance **paper**. The spiral conveying presser for **manufacturing** balance **paper** comprises a spiral tube and a feeding hopper communicated with the spiral tube and arranged on the upper surface of the spiral tube, a motor is arranged at one end of the spiral tube, an output shaft is connected to the motor, a pressing spiral shaft connected with the output shaft is arranged in the spiral tube, a drainage channel is arranged on the lower surface of the spiral tube, a plurality of drainage openings are formed in the drainage channel, a slag discharging tube is arranged at the other end of the spiral tube, a certain angle is formed between the slag discharging tube and the center axis of the spiral tube, and the opening of the slag discharging tube faces downwards. According to the spiral conveying presser for **manufacturing** balance **paper**, screenings or filter residues in papermaking wastewater treatment process can be well dewatered or compressed, pollution to the environment is avoided.

Inventors

BAO ZHIJIE

Latest standardized assignees - inventors removed

HANGZHOU XIANJIN SPEICAL **PAPER** INDUSTRY

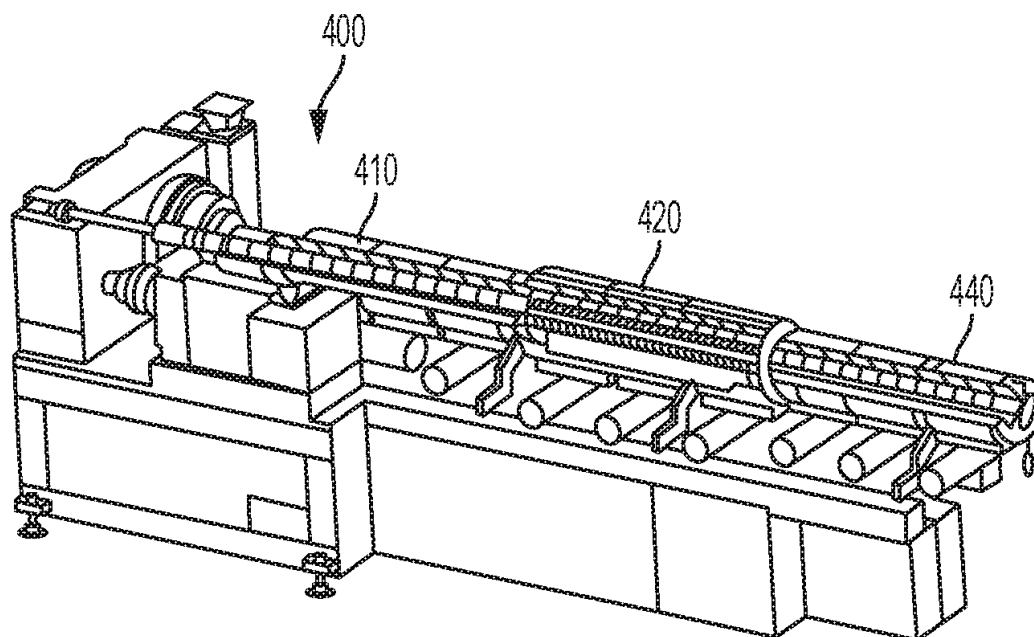
Family 22/100 - FAMPAT - ©Questel

Title

(EP3681684)

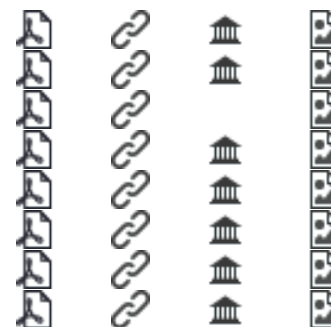
Polyethylene terephthalate coloring method and system for **manufacturing** a bulked continuous carpet filament

Images



Publication numbers with kind code & date

EP3681684	A1	2020-07-22	EP3681684
IN202037013849	A	2020-06-05	IN202037013849
KR10-2020-0054236	A	2020-05-19	KR20200054236
CN111093924	A	2020-05-01	CN111093924
AU2018334212	A1	2020-03-12	AU2018334212
CA3073425	A1	2019-03-21	CA3073425
US20190085483	A1	2019-03-21	US20190085483
WO2019/055762	A1	2019-03-21	WO201955762



Abstract

(EP3681684)

Method and system for **manufacturing** bulked continuous filament having tonal coloring from PET comprising: an **extruder** (202); a static mixing assembly (208) coupled to the **extruder** and comprising a housing and one or more individual static mixing elements disposed within the housing; the method and system further comprising a plurality of colorant ports along a length of the static mixing assembly such that each of the plurality of colorant ports is configured to provide colorant (204) to a polymer stream at a different location along the length of the static mixing assembly, and one or more spinning machines (212) positioned downstream of the static mixing assembly and coupled to the static mixing assembly to receive the colored polymer stream. The spinning machine(s) may be configured to form the colored polymer stream into bulked continuous carpet filament having a tonal color effect.

Inventors

CLARK THOMAS R

Latest standardized assignees - inventors removed

ALADDIN **MANUFACTURING**

Family 23/100 - FAMPAT - ©Questel

Title

(EP3496929)

Method for charging an **extruder**

Images

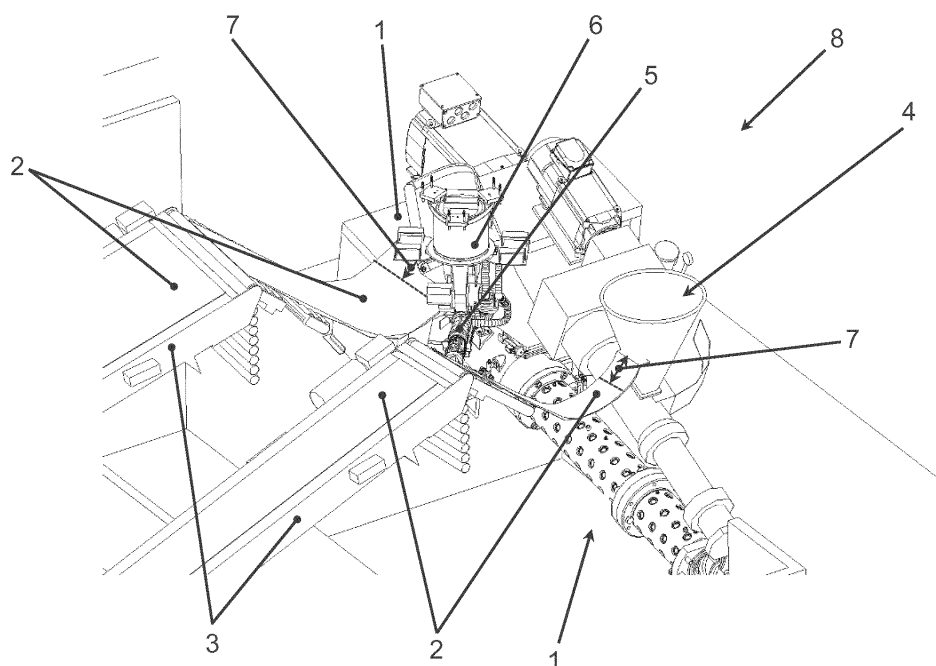


Fig. 1

Publication numbers with kind code & date

JP2019527643	A	2019-10-03	JP2019527643
CN109996663	A	2019-07-09	CN109996663
EP3496929	A1	2019-06-19	EP3496929
DE102016115050	A1	2018-02-15	DE102016115050
WO2018/029236	A1	2018-02-15	WO201829236

**Abstract**

(EP3496929)

The invention relates to a method for charging at least one **extruder** (1) with at least one material web (2), in particular made of rubber and/or plastics mixtures, wherein the particular material web (2) is transported, at a distance from at least one material **feed** (4) of the particular **extruder** (1), into the region of said material **feed** (4), in each case by means of a conveying means (3). In the process, by means of at least one handling device (6) having at least one tool (5), an initial region (7) of the particular material web (2) is received and/or processed and introduced into the material **feed** (4) of the at least one **extruder** (1), wherein at least the at least one **extruder** (1), the particular conveying means (3) and the at least one handling device (6) form a production plant (8).

Inventors

PIELSTICKER BERND
 HOFFMANN WIELAND
 KAMENSKYY DENYS

Latest standardized assignees - inventors removed

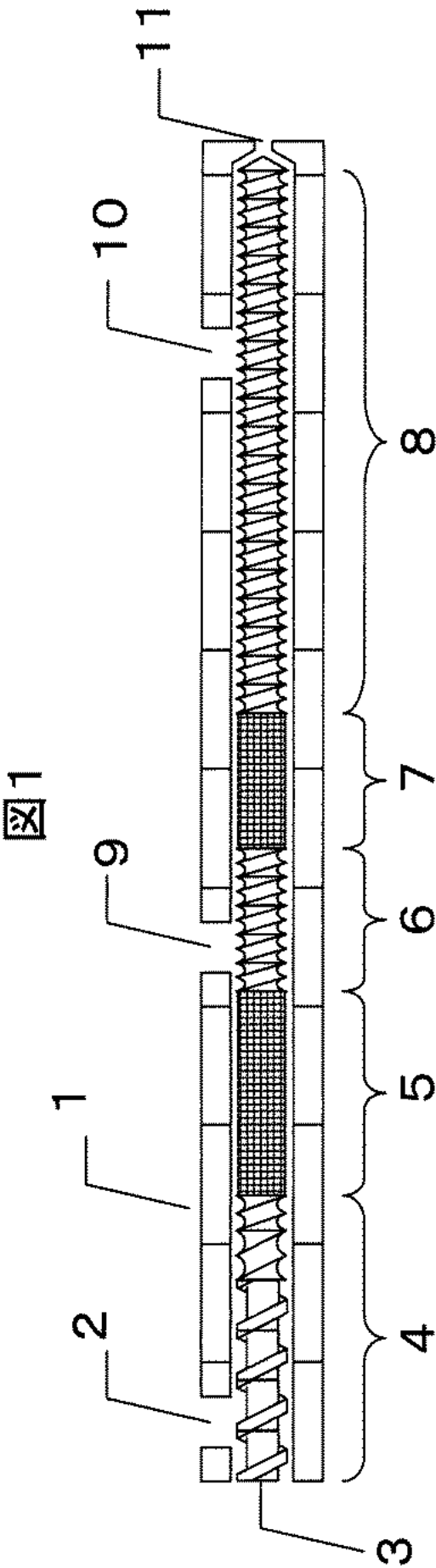
TROESTER

Family 24/100 - FAMPAT - ©Questel

Title

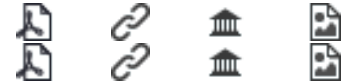
(JP2013208728)

Method for **manufacturing** thermoplastic resin composition and powder raw material **extruder****Images**



Publication numbers with kind code & date

JP5799877	B2	2015-10-28	JP5799877
JP2013208728	A	2013-10-10	JP2013208728

**Abstract**

(JP2013208728)

PROBLEM TO BE SOLVED: To provide a method for **manufacturing** a thermoplastic resin composition, which can inhibit the blowing-up of a powder raw material from a vent opening while securing the biting-in property of the powder raw material, and can further enhance extrusion efficiency, as well as a powder raw material **extruder**.

SOLUTION: A powder raw material **extruder** includes a specific **screw** structure, and also has a specific ratio of the overall length of a first conveyance part 4 to the major axis of a **screw**, and at least not less than 1 of structural **screw** elements are single thread **screw** elements representing a specific ratio of lead length LI to **screw** major axis D. A first kneading part 5 following the first conveyance part 4 has a specific ratio of its overall length to a **screw** major axis. Also, the structural elements each have at least not less than one of "right twist" and "left twist" kneading blocks with a specific disc width and **screw** major axis and also, a twisting angle. In addition, a method for **manufacturing** a thermoplastic resin composition includes kneading and extruding a powder raw material containing a specific thermoplastic resin into a powder raw material **extruder** 1 with a vent opening in a second conveyance part 6 following the first kneading part 5.

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Inventors

HIRATSUKA KAZUHIKO

NAKADA HIRONARI

SUGATA KOJI

Latest standardized assignees - inventors removed

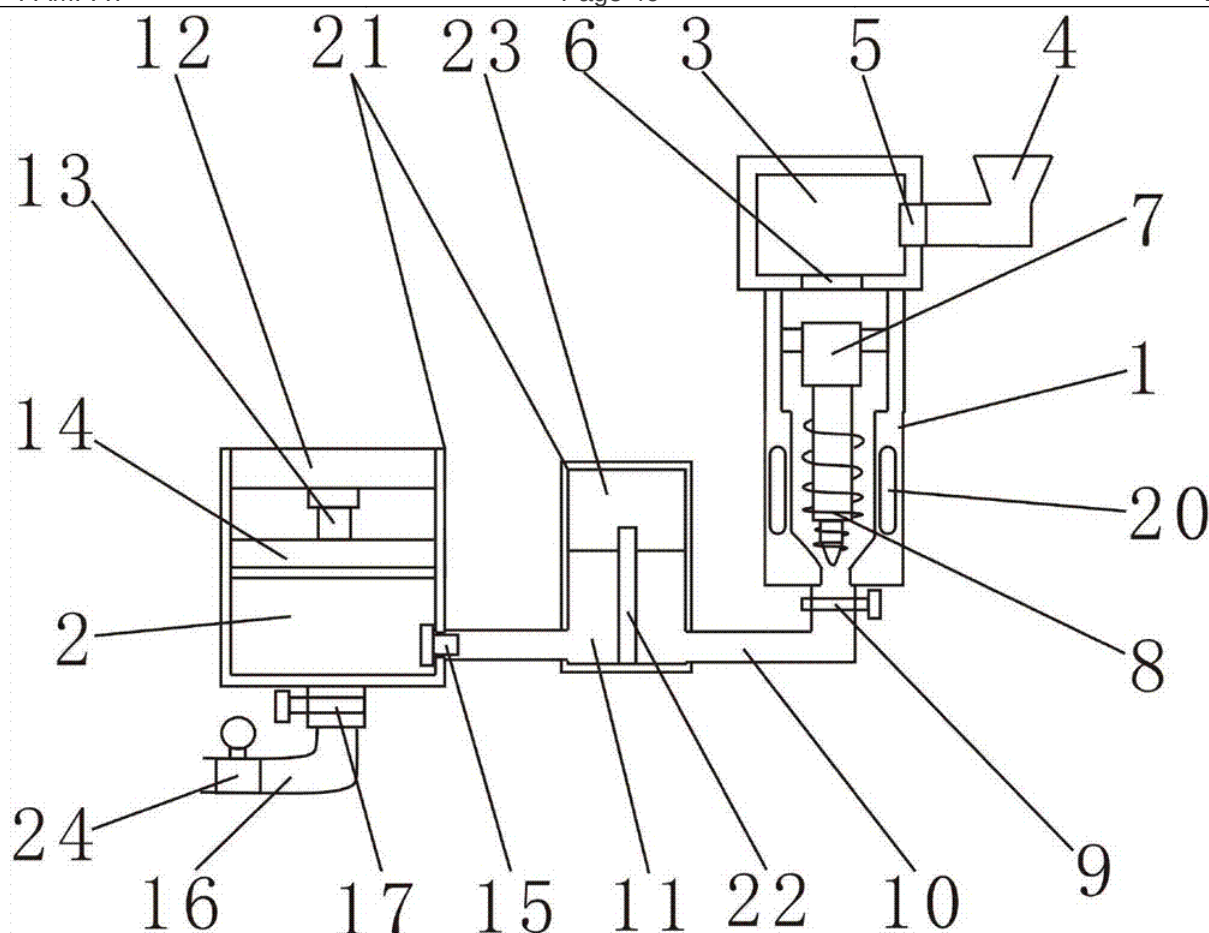
TORAY INDUSTRIES

Family 25/100 - FAMPAT - ©Questel

Title

(CN206718412U)

Automatic feeding device of double -**screw extruder****Images**



Publication numbers with kind code & date

CN206718412

U

2017-12-08

CN206718412U



Abstract

(CN206718412)

The utility model discloses an automatic feeding device of double -screw extruder, including crowded pressing barrel and feeding workbin, crowded pressing barrel top is equipped with the case with hot drying, it is equipped with the feed inlet to add hot drying case outside, the feed inlet and add the hot drying case between be equipped with the feed valve, it is equipped with first bleeder valve to add between hot drying case and crowded pressing barrel, crowded pressing barrel bottom is equipped with the second bleeder valve, crowded pressing barrel bottom is connected with the conveying pipeline, the conveying pipeline other end is connected with the rose box, the rose box other end passes through the conveying pipeline with feeding workbin and links to each other, the feeding workbin top is equipped with the motor case, motor case lower part is equipped with the telescopic link, the telescopic link lower part is equipped with the steady voltage seven, the feeding workbin bottom is equipped with the discharge gate, be equipped with the third bleeder valve between discharge gate and feeding workbin, this novel automatic stabilization feed of realizing to can heat plastic products, preliminary treatment such as drying and filtration, improve whole machining efficiency, guarantee product quality.

Inventors

ZHANG YONGGUI

Latest standardized assignees - inventors removed

DONGGUAN DOUBLE BOND NEW MATERIAL

Family 26/100 - FAMPAT - ©Questel

Title

(EP-945244)

Process for the manufacture of environmental friendly papers as well as corresponding papers

Images

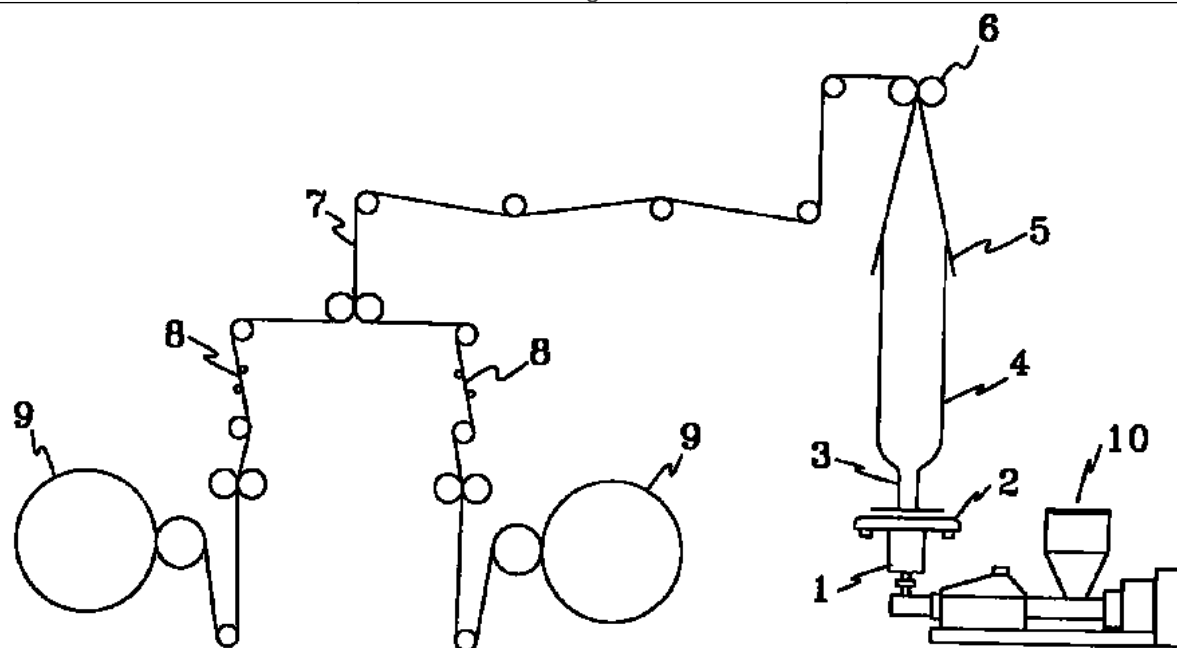
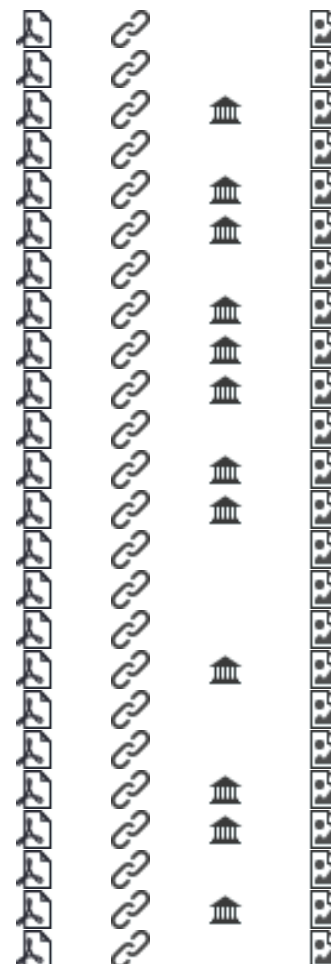


FIG.2

Publication numbers with kind code & date

PL192675	B1	2006-11-30	PL-192675
SA879	B1	2006-06-04	SA----879
CA2236556	C	2006-03-14	CA2236556
MY120149	A	2005-09-30	MY-120149
DE69820852	T2	2004-11-18	DE69820852
ES2213875	T3	2004-09-01	ES2213875
SI0945244	T1	2004-06-30	SI-945244T
PT945244	E	2004-05-31	PT-945244
DK0945244	T3	2004-05-10	DK-945244T
DE69820852	D1	2004-02-05	DE69820852
AT257073	T	2004-01-15	ATE257073
EP0945244	B1	2004-01-02	EP-945244
CN1105636	C	2003-04-16	CN1105636C
UA49854	C2	2002-10-15	UA--49854
EG21509	A	2001-11-28	EG--21509
HK1021714	A1	2000-06-30	HK1021714
BR9802067	A	1999-11-03	BR9802067
TR199800880	A1	1999-10-21	TR199800880
ID22312	A	1999-09-30	ID--22312
CN1229719	A	1999-09-29	CN1229719
EP0945244	A1	1999-09-29	EP-945244
PL326214	A1	1999-09-27	PL98326214
CA2236556	A1	1999-09-25	CA2236556
ZA983847	B	1998-11-13	ZA-983847



Abstract

(EP0945244)

A process is disclosed for the manufacture of a film suitable for use as a synthetic **paper** which process comprises: (i) mixing, extruding, milling and polymerizing a combination of from 56% to 80% by weight of inorganic mineral powders, 43% to 18% by weight of polyethylene and 1% to 2% by weight of additives to form granules; (ii) feeding the granules into a film producing means which comprises at least one **extruder** (10) and a forming mould (1) having an O-shaped gate, wherein the forming mould has at least one inlet thereon each inlet defining an inner passage in the forming mould and

communicating with the gate of the forming mould; (iii) melting the granules in the **extruder**, transferring the melted granules to the inlet of the forming mould, and moulding the melted granules into a hollow film tube (3) which substantially corresponds to the O-shaped gate; (iv) cooling the tube (2); and (v) inflating and pulling (6) an end of the film tube so that the film tube is stretched in two dimensions simultaneously to form the film (4). A composition suitable for use in this process is also disclosed comprising 56% to 80% by weight of inorganic mineral powders, 43% to 18% by weight of polyethylene, and 1% to 2% by weight of additives. <IMAGE>

Inventors

LIANG SHIH-HUEI

Latest standardized assignees - inventors removed

LUNG MENG ENVIRONMENTAL FRIEND

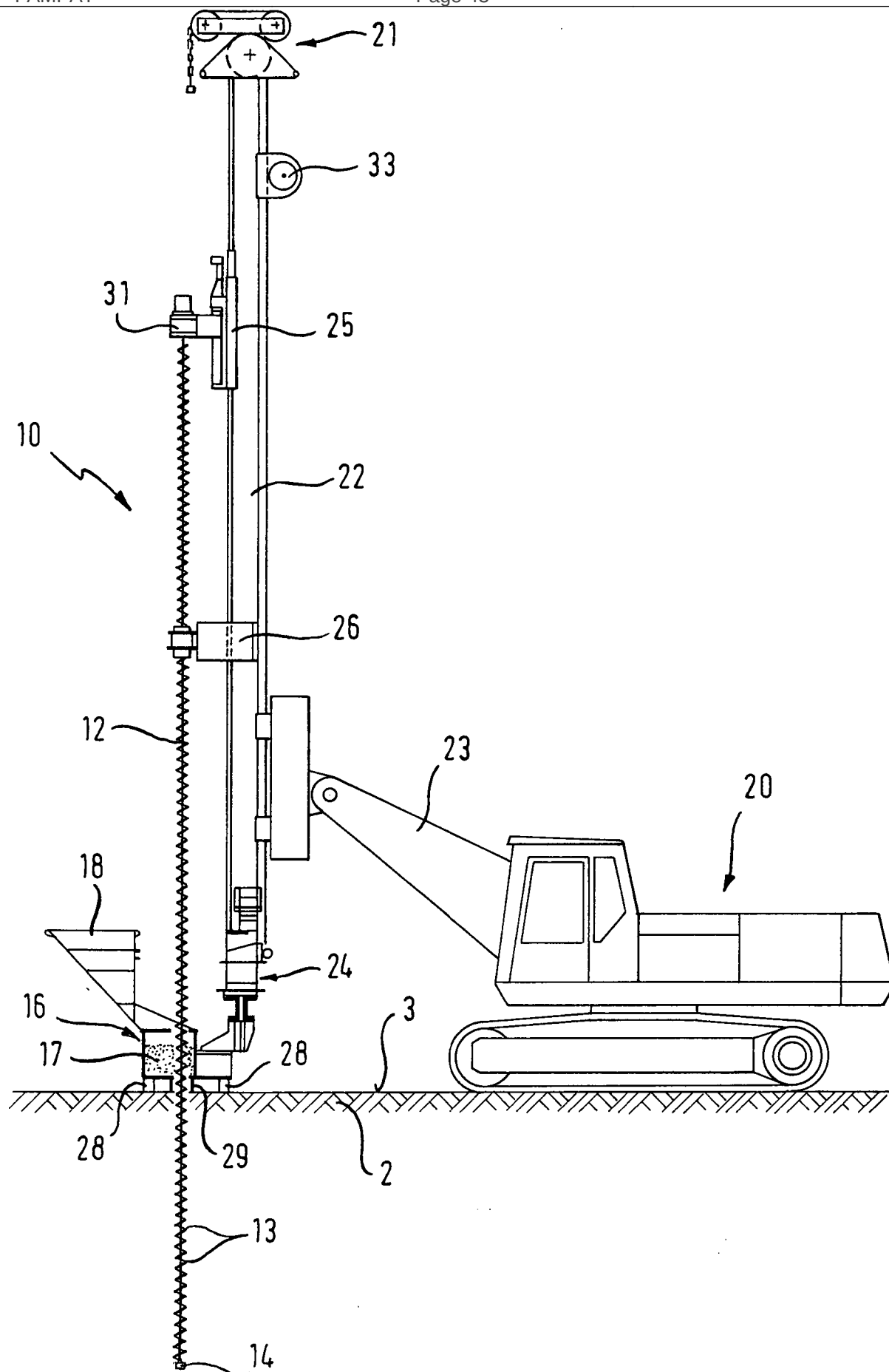
Family 27/100 - FAMPAT - ©Questel

Title

(DE10335366)

Installing stabilization column in the ground, by measuring rotation speed and **feed** rate of **conveyor screw** driven into ground

Images


Publication numbers with kind code & date

KR10-0627276	B1	2006-09-22	KR100627276
DE10335366	B4	2005-06-16	DE10335366
DE10335366	A1	2005-03-10	DE10335366
KR10-2005-0015945	A	2005-02-21	KR20050015945



Abstract

(DE10335366)

A rotating **conveyor screw** (12) is driven into the ground to form a cavity by displacing ground material. The **conveyor screw** then fills the cavity with a filler (17) from a container (16) through which the **conveyor screw** passes. After the **screw** reaches a desired column depth, while further filler is supplied, it is withdrawn. At least the rotation speed and the **feed** rate of the **conveyor screw** are measured. - An INDEPENDENT CLAIM is included for an apparatus for installing a stabilization column.

(From DE10335366 A1)

Inventors

GERESSEN FRANZ WERNER

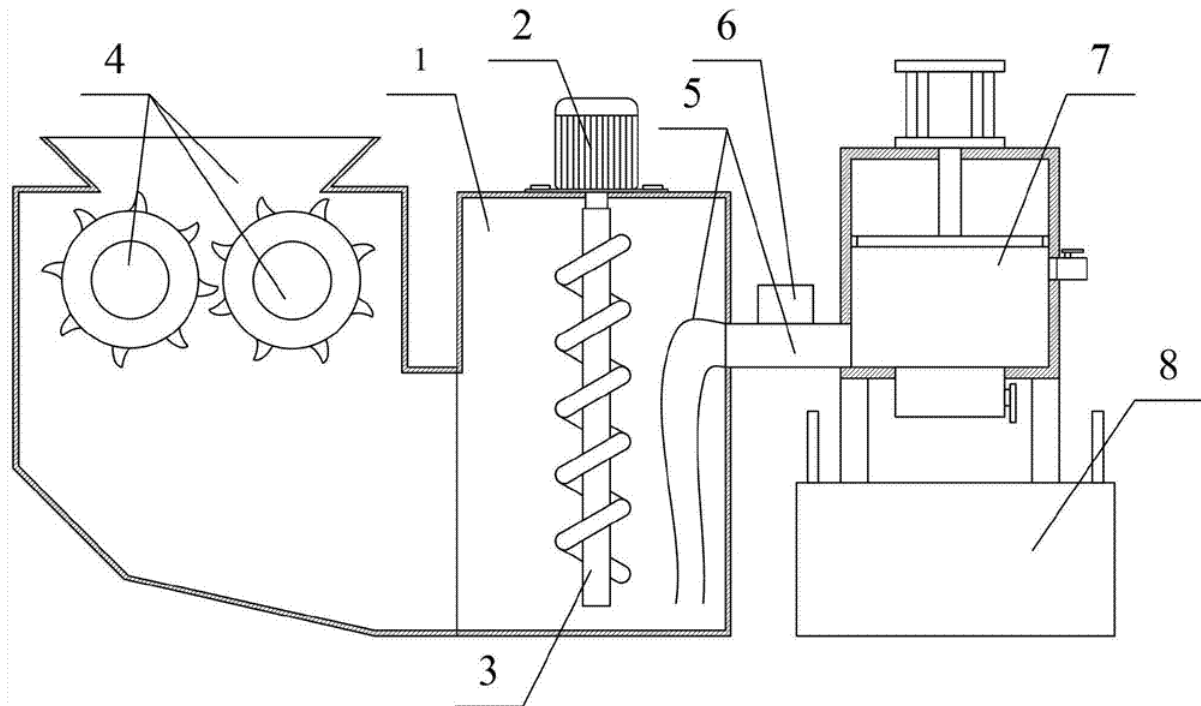
Latest standardized assignees - inventors removed

BAUER SPEZIALTIEFBAU

Family 28/100 - FAMPAT - ©Questel

Title

(CN107642005)

Novel **paper** product **manufacturing** device**Images****Publication numbers with kind code & date**

CN107642005

A

2018-01-30

CN107642005

**Abstract**

(CN107642005)

The invention provides a novel **paper** product **manufacturing** device which comprises a stirring tank, a stirring motor, an auger, a smashing wheel structure, a connecting pipe, a pressure pump, a **compression** net structure and a worktable structure. The stirring motor is mounted on the top of the stirring tank via bolts; the auger is mounted on an output shaft of the stirring motor; the smashing wheel structure is welded at the left end of the stirring tank; the left end of the connecting pipe is connected with the stirring tank, and the right end of the connecting pipe is connected with the **compression** net structure; the pressure pump is mounted on the connecting pipe. The novel **paper** product **manufacturing** device has the advantages that the smashing wheel structure is favorable for conveniently carrying out smashing work on raw materials for **paper** products, and the work efficiency of the novel **paper** product **manufacturing** device which is a drying type **paper** product **manufacturing** device can be improved; the stirred raw materials can be conveniently filtered by the aid of the **compression** net structure, the **compression** net structure is favorable for conveniently shortening the settling time, and the

work time of the drying type **paper** product **manufacturing** device can be shortened.

Inventors

CHEN YUNGUI

Latest standardized assignees - inventors removed

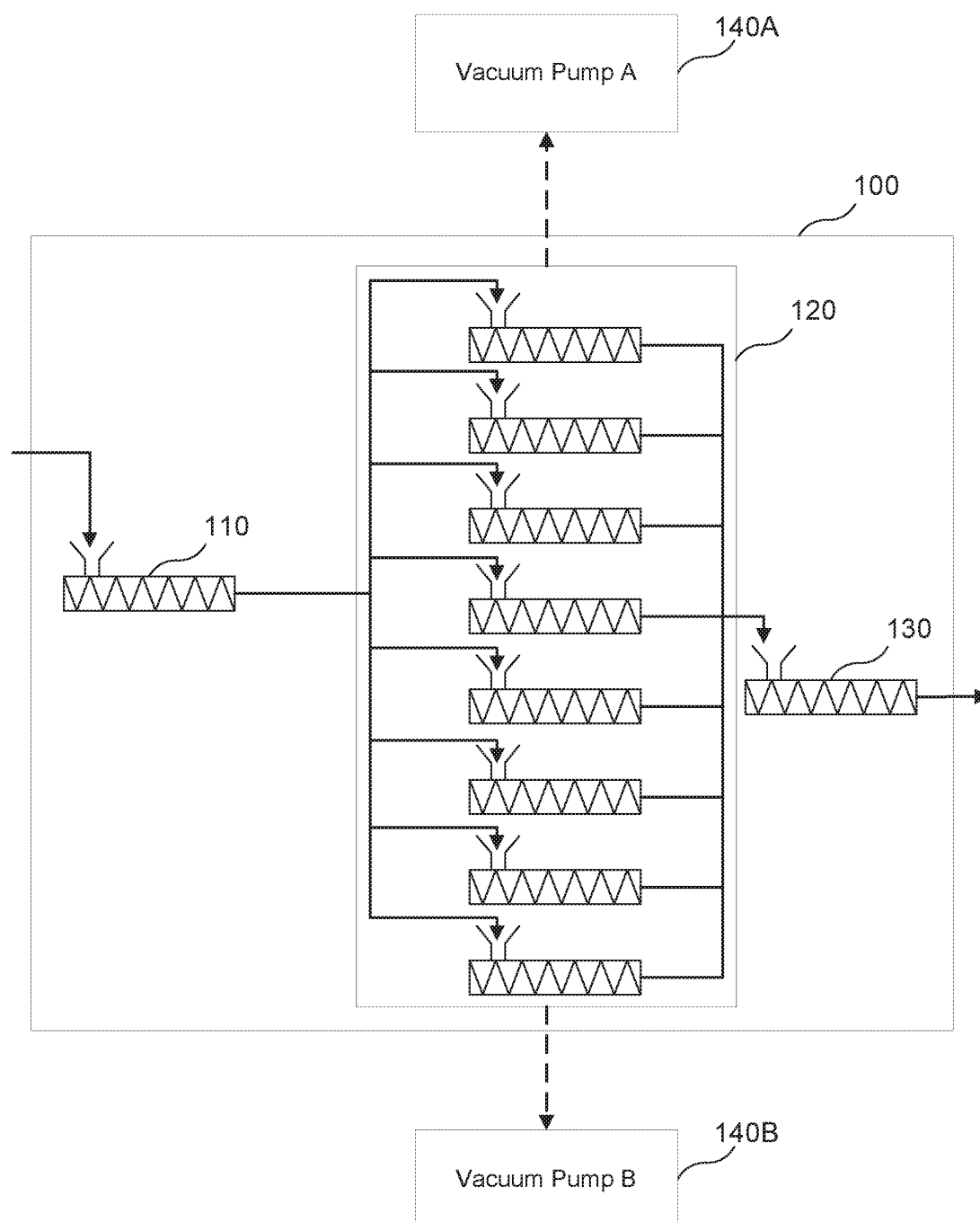
TIANJIN AUTUMN EDGE **PAPER** PRODUCTS

Family 29/100 - FAMPAT - ©Questel

Title

(EP3589473)

Method of **manufacturing** bulked continuous carpet filament

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

US20200240042	A1	2020-07-30	US20200240042
EA201992067	A1	2020-03-27	EA201992067
EP3589473	A1	2020-01-08	EP3589473
AU2018227587	A1	2019-08-22	AU2018227587



CA2512993	A1	2004-08-26	CA2512993
WO2004/072362	A1	2004-08-26	WO200472362
SE0300385	L	2004-08-12	SE200300385
SE0300385	D0	2003-02-11	SE200300385



Abstract

(EP1597427)

The present invention relates to a plant and a method for producing and treating wood fibres in a plant comprising a fibre-producing part having a chip preheater (1) and a beater (2) for freeing fibre from wood chips. Such a plant and such a method are included as parts in a continuous production process of board and the object is to reduce the emission discharges of foremost VOC and formaldehyde, during different parts of the process as well as from the finished product. The method comprises feeding of wood chips (A) into an upper part of the chip preheater (1), discharge of wood chips in the bottom of the chip preheater to a **screw conveyor** (12) for further transportation into the beater (2), **compression** of the wood chips in a **compression** zone (15) in the **screw conveyor**, supply of steam (B) into the lower part of the chip preheater for washing fed chips in the counterflow direction, disposal (8) of flue gases in the form of released organic emissions, steam and air in the upper part of the chip preheater, as well as disposal of flue gases generated during the **compression** through an outlet (13) arranged in the **compression** zone. The plant has the corresponding parts.

Inventors

SOEDERBERG CARL-JOHAN

BACKLUND ULRIKA

Latest standardized assignees - inventors removed

METSO **PAPER**

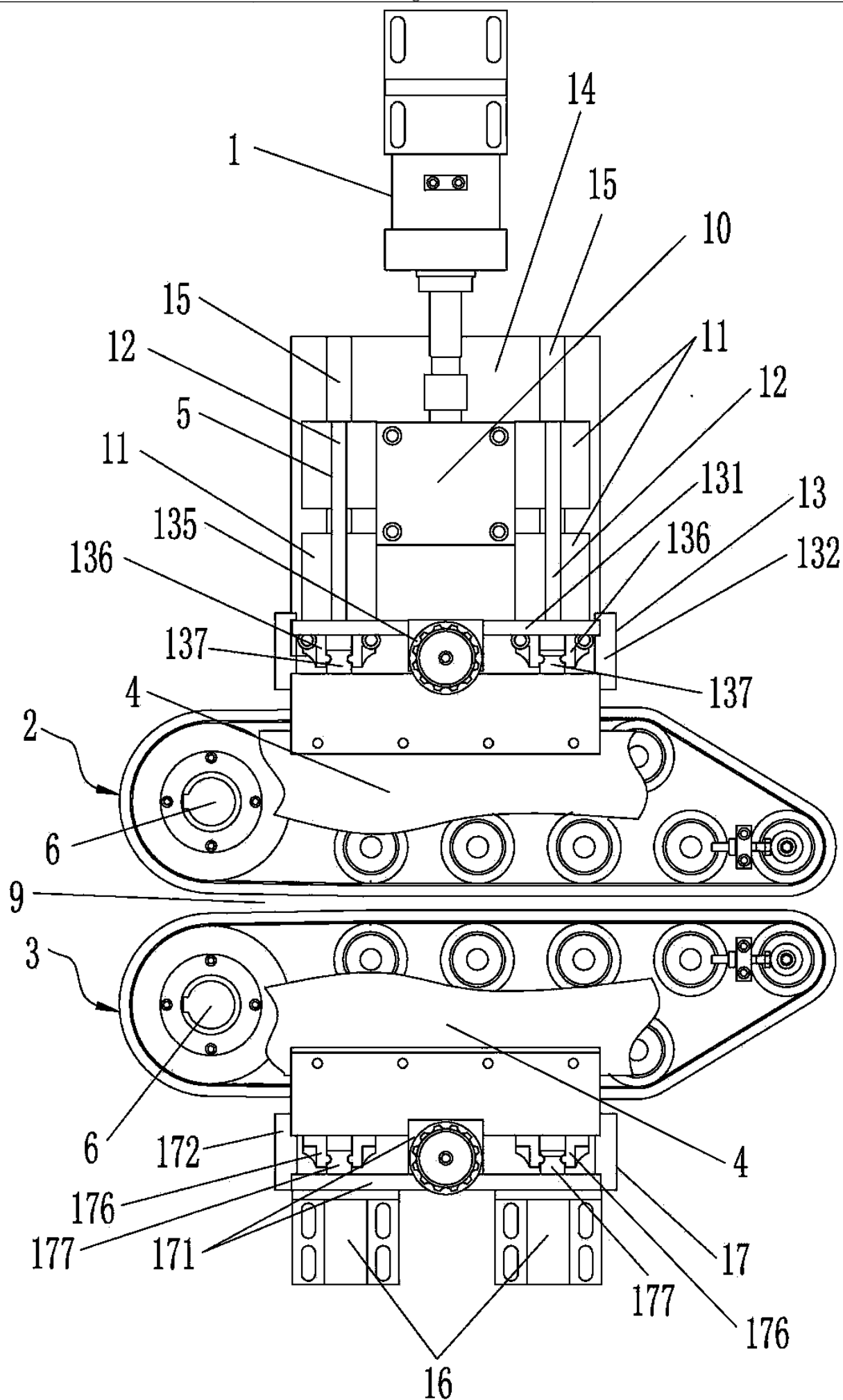
Family 31/100 - FAMPAT - ©Questel

Title

(CN204124864U)

Compression roller conveying device for **paper** diapers

Images



CN204124864

U

2015-01-28

CN204124864U

**Abstract**

(CN204124864)

The utility model provides a **compression** roller conveying device for **paper** diapers. The **compression** roller conveying device comprises a lifting device, an upper conveying mechanism and a lower conveying mechanism, wherein the lifting device, the upper conveying mechanism and the lower conveying mechanism are arranged from top to bottom. The upper conveying mechanism and the lower conveying mechanism are each composed of two side plates and a conveying device horizontally erected between the two side plates. The upper end of the lifting device is fixedly connected with a fixed supporting body, and a connecting assembly is fixedly arranged at the lower end of the lifting device. The connecting assembly is fixedly connected with the upper ends of the two side plates of the upper conveying mechanism. A horizontal product channel is formed between the upper conveying mechanism and the lower conveying mechanism. According to the **compression** roller conveying device, the upper and lower conveying mechanisms are more convenient to install, and simpler in structure; in addition, the horizontally-placed **paper** diapers can be directly fed into the horizontal product channel between the upper conveying mechanism and the lower conveying mechanism, overturning equipment and overturning technology are omitted, the cost is saved, and technological processes are simplified.

Inventors

WANG JIANCHI

XU YOUSONG

WANG QINGQIAN

ZHANG YUCHANG

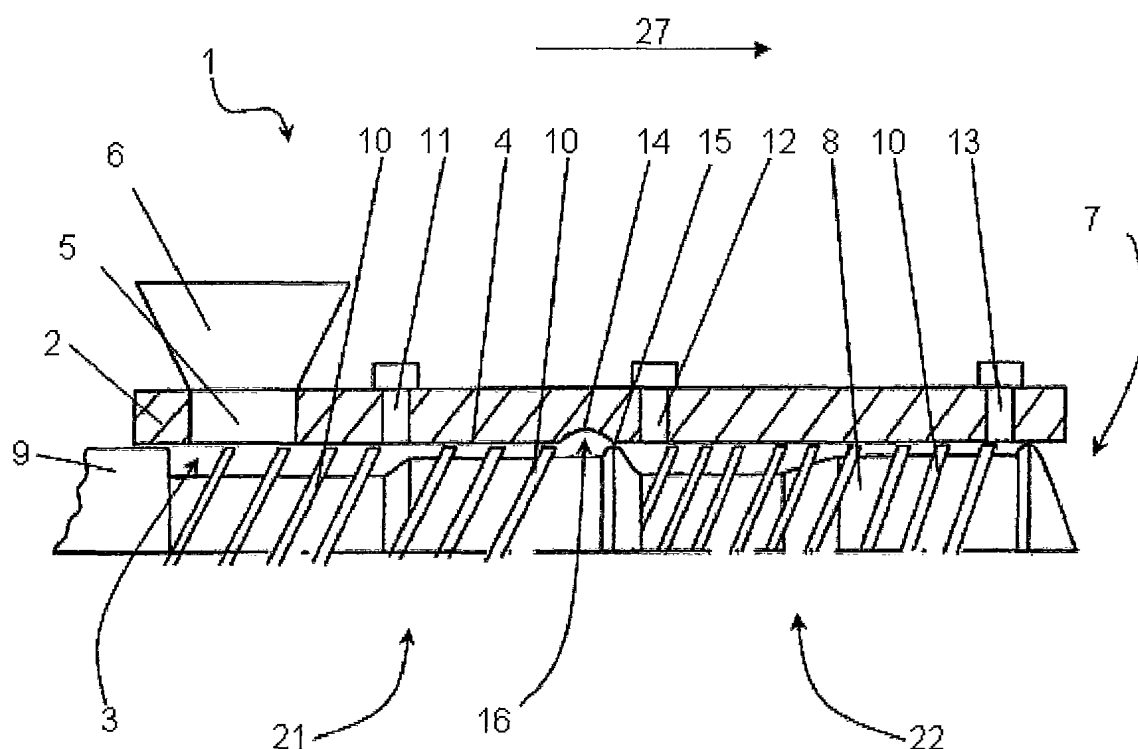
WANG QINGYU

Latest standardized assignees - inventors removedJINJIANG SHUNCHANG MACHINE **MANUFACTURING**

Family 32/100 - FAMPAT - ©Questel

Title

(EP2931761)

Process for degrading (co)polymers in an **extruder** and **extruder** for carrying out the process**Images**

Publication numbers with kind code & date

ES2791182	T3	2020-11-03	ES2791182				
EP2931761	B1	2020-03-04	EP2931761				
CN104936993	B	2018-06-01	CN104936993B				
JP6325569	B2	2018-05-16	JP6325569				
BR112015013495	A2	2017-07-11	BR112015013495				
US9683065	B2	2017-06-20	US9683065				
RU2015127836	A	2017-01-19	RU2015127836				
IN3346/CHENP/2015	A	2016-07-01	IN2015CN03346				
JP2016503079	A	2016-02-01	JP2016503079				
EP2931761	A1	2015-10-21	EP2931761				
US20150274873	A1	2015-10-01	US20150274873				
CN104936993	A	2015-09-23	CN104936993				
MX2015007441	A	2015-09-16	MX2015007441				
KR10-2015-0095835	A	2015-08-21	KR20150095835				
BR112015013495	A1	2015-06-23	BR112015013495				
TW201427806	A	2014-07-16	TW201427806				
CA2894574	A1	2014-06-19	CA2894574				
WO2014/090628	A1	2014-06-19	WO201490628				
DE102012222991	A1	2014-06-12	DE102012222991				

Abstract

(EP2931761)

The invention relates to a method for degrading (co)polymers in an **extruder** and an **extruder** suitable for performing said method.

Inventors

KASPER DIRK

BRENGER ANDREAS

THIERBACH ILJA

Latest standardized assignees - inventors removed

HENKEL

Family 33/100 - FAMPAT - ©Questel

Title

(EP3672772)

Method for incorporating solids for the production of thermally sensitive polymers in a planetary roller extruder

Images

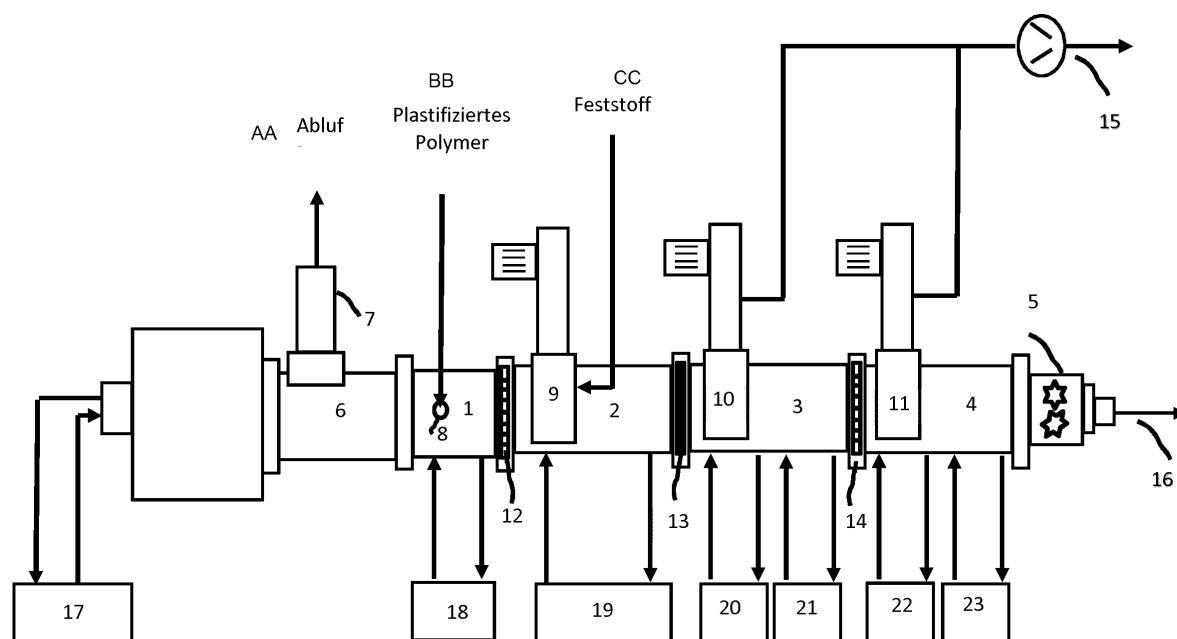


Fig. 4

AA exhaust air
BB plasticised polymer
CC solid

Publication numbers with kind code & date

EP3672772	A1	2020-07-01	EP3672772
CN111263689	A	2020-06-09	CN111263689
TW201912369	A	2019-04-01	TW201912369
DE102017214850	A1	2019-02-28	DE102017214850
WO2019/038140	A1	2019-02-28	WO201938140



Abstract

(EP3672772)

A method for incorporating solids for the production of thermally sensitive polymers in a planetary roller **extruder**, wherein the planetary roller **extruder** consists of an atmospherically operated filling and dispersing zone formed of at least one roller cylinder, and of a downstream degassing and cooling zone, operated under vacuum and formed of at least one further roller cylinder. The at least one roller cylinder of the filling and dispersing zone is separated from the at least one roller cylinder of the degassing and cooling zone by means of a baffle ring arranged between the roller cylinders. The plasticised polymers within the first third of the roller cylinder are fed within the first third of the roller cylinder to the filling and dispersing zone, wherein solids are added to the plasticised polymers downstream of the filling and dispersing zone via an opening in the at least one roller cylinder, the solids containing at least thermal crosslinking agents. The **feed** temperatures of the central spindle and of the at least one roller cylinder within the filling and dispersing zone are set such that there is no gelling of the plasticised polymers mixed with the thermal crosslinking agents. The mixture is fed to a coating apparatus.

Inventors

MASSOW KLAUS

Latest standardized assignees - inventors removed

TESA

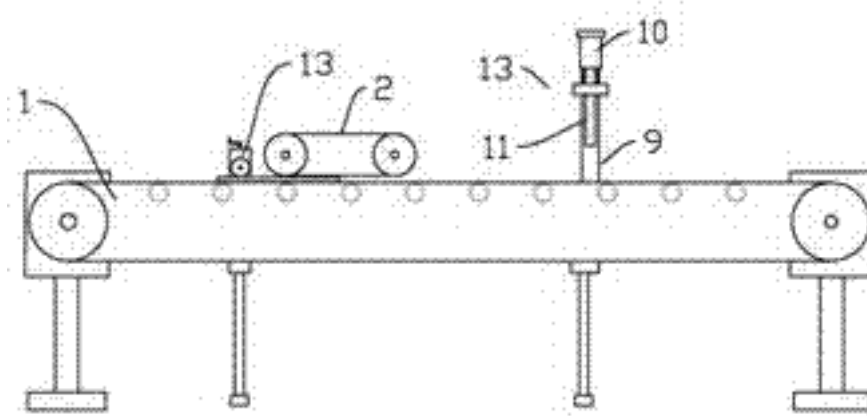
Family 34/100 - FAMPAT - ©Questel

Title

(CN207551496U)

Wrapping **paper** adsorption **paper** feeding device

Images



Publication numbers with kind code & date

CN207551496

U

2018-06-29

CN207551496U



Abstract

(CN207551496)

The utility model provides a wrapping **paper** adsorption **paper** feeding device, there is the subassembly that compresses tightly in the frame of fixing belt **conveyor** under in the place ahead of small -size belt **conveyor**, there is the baffle subassembly in the frame of fixing belt **conveyor** under at small -size belt **conveyor**'s rear, it includes the **compression** roller to compress tightly the subassembly, the dead lever, regulation body, the fixed body, the inner wall on adjustment guide slot upper portion has the spring with dead lever lug connection, the dead lever deviates from fixed body one end and is connected with the **compression** roller rotation, the **compression** roller is located belt **conveyor** top down, fixed body upper portion is revolved to twist to have and is stretched into in the fixed spout and rotate the lead **screw** of being connected with regulation body, the baffle subassembly includes the support, support upper portion is connected with the cylinder towards the below, the piston rod fixed of cylinder has the baffle, with belt **conveyor** contact down when the baffle is located the below. To not have clean separation's wrapping **paper** separation, the effect is showing, and the baffle subassembly carries on regularly to the wrapping **paper**, improved next efficiency of stacking of stacking the process greatly.

Inventors

FAN QISHUN

ZHAO LEI

ZHANG LONG

SHANG XINSHENG

Latest standardized assignees - inventors removed

PROSPERITY **PAPER** PRODUCT

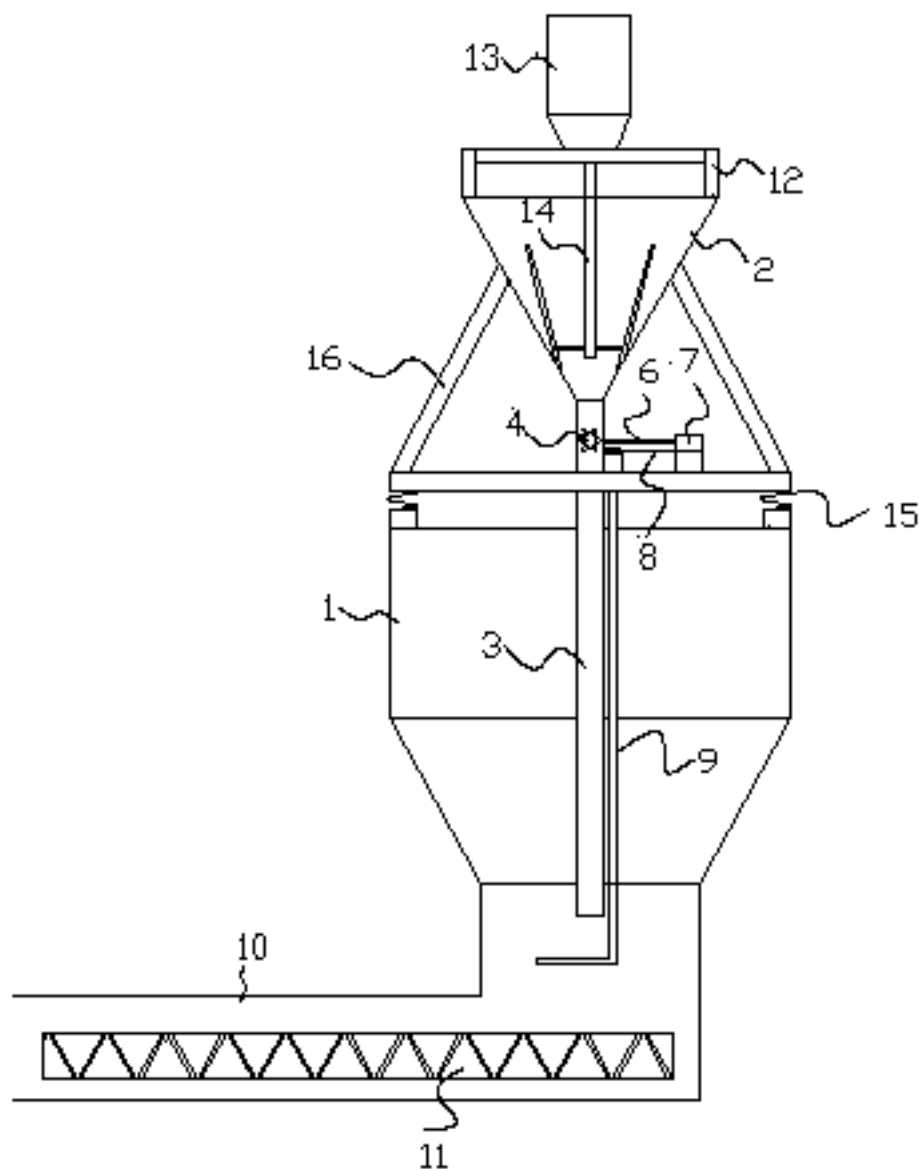
Family 35/100 - FAMPAT - ©Questel

Title

(CN205058536U)

Processing packing area production **feed** arrangement

Images



Publication numbers with kind code & date

CN205058536

U

2016-03-02

CN205058536U



Abstract

(CN205058536)

The utility model provides a processing packing area production **feed** arrangement, top including **extruder** raw materials hopper and **extruder** raw materials hopper is provided with likepowder stopping hopper, the bottom of likepowder stopping hopper is connected with the top of square pipeline, the bottom of square pipeline sets up in **extruder** raw materials hopper bottom, the inside of square pipeline is provided with the blowing gear, the surface of square pipeline is provided with drive gear, drive gear passes through the connecting axle and is connected with the buncher, the buncher passes through the belt and is connected with the rod iron top, the bottom of rod iron sets up in the bottom of square pipeline, the bottom of **extruder** raw materials hopper is provided with blanking pipeline, blanking pipeline's inside is provided with **screw conveyor**. The utility model discloses a blowing gear can be accurate the proportion of transferring of control powder, rotate through buncher belted steel stick, make the stirring that the raw materials can be even mix to the qualification rate that improves the product can be reached, the quality of production has been guaranteed.

Inventors

JIANG ZHANGPING

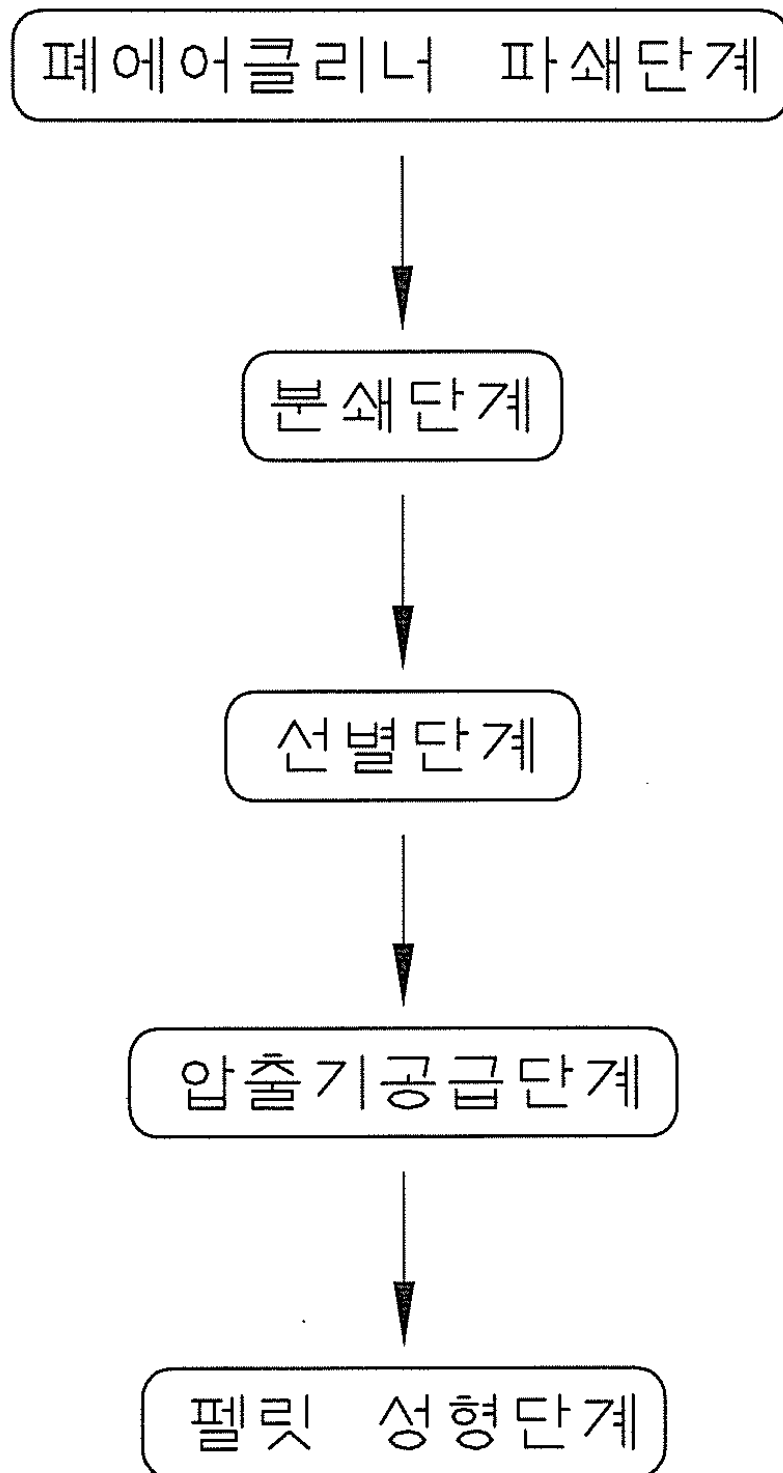
Latest standardized assignees - inventors removed

QUANZHOU MANJIANGHONG MACHINERY **MANUFACTURING**

Title

(KR101206897)

Manufacturing device and a method of a pellet using a waste filter **paper** of a waste air cleaner and a pellet molded product manufactured from the same

Images

KR10-1206897

B1

2012-11-30

KR101206897



KR10-2011-0016760

A

2011-02-18

KR20110016760

Abstract

(KR10-2011-0016760)

PURPOSE: A **manufacturing** device and a method of a pellet using a waste filter **paper** of a waste air cleaner and a pellet molded product manufactured from the same are provided to manufacture a high quality of solid fuel by using a waste filter **paper** of a waste air cleaner.

CONSTITUTION: A **manufacturing** method of a pellet using a waste filter **paper** of a waste air cleaner is as follows. The waste air cleaner is crushed and collected. The crushed waste air cleaner is milled. The milled material is selected in scrap metal, **paper**, and rubber. Moisture is supplied in room temperature by waster and steam. The selected **paper** is provided to an **extruder** to form a pellet.

COPYRIGHT KIPO 2011

Inventors

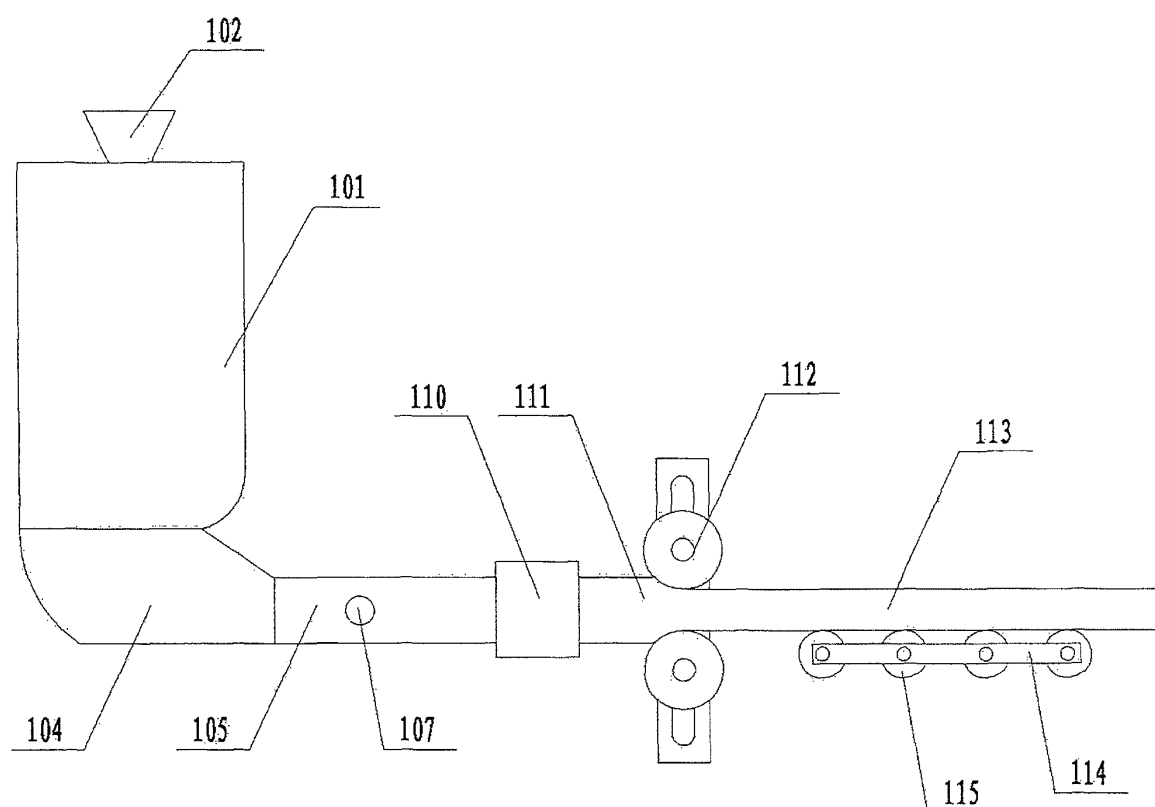
LEE, Kang Jin

Family 37/100 - FAMPAT - ©Questel

Title

(US20140160796)

Light Guide Plate and Fabrication Method Thereof, Extrusion Equipment, Backlight Module and Display Device

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

US10081144

B2

2018-09-25

US10081144



US20160282544

A1

2016-09-29

US20160282544

CN102981211

B

2015-02-11

CN102981211B

US20140160796

A1

2014-06-12

US20140160796

CN102981211

A

2013-03-20

CN102981211

Abstract

(US20140160796)

The present invention discloses a light guide plate (LGP) capable of bidirectional focusing via a bidirectional micro-transmissive layer, a fabrication method of the LGP, an extrusion equipment, a backlight module and a display device. The LGP comprises a LGP substrate, the LGP substrate comprises at least one incident surface for receiving a light beam and one outgoing surface connected to the at least one incident surface, a bidirectional micro-transmissive layer is provided in the LGP substrate, the bidirectional micro-transmissive layer comprises a plurality of micro-transmissive points having biconvex surfaces. According to the principle that convex lens converges light, the design of micro-transmissive points having biconvex surfaces causes several scattered light beams having different directions that enter the micro-transmissive points to be converged, which effectively improves the brightness of the outgoing surface of the LGP, thereby improving the brightness and definition of images displayed in the liquid crystal panel.

Inventors

HE SHUYONG

KANG YALING

Latest standardized assignees - inventors removed

BOE TECHNOLOGY

HEFEI BOE DISPLAY LIGHT

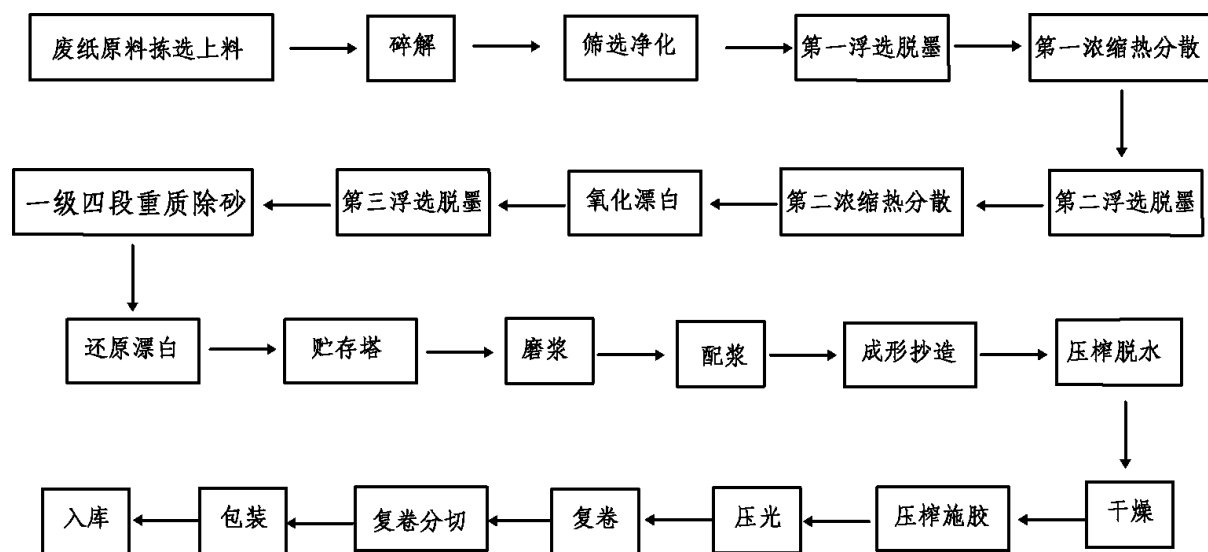
Family 38/100 - FAMPAT - ©Questel

Title

(CN102677532B)

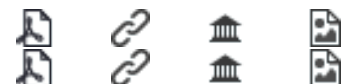
Process for preparing cultural **paper** by utilizing full-recovered pulp

Images



Publication numbers with kind code & date

CN102677532	B	2014-04-23	CN102677532B
CN102677532	A	2012-09-19	CN102677532



Abstract

(CN102677532)

The patent refers to the field of 'pulp or **paper**'. The invention belongs to the technical field of a papermaking process and particularly relates to a process for preparing cultural **paper** by utilizing full-recovered pulp. The process for preparing the cultural **paper** by utilizing the full-recovered pulp comprises the following preparation steps of: a step A of sorting and loading waste **paper** raw materials; a step B of beating; a step C of screening and purifying; a step D of carrying out primary floatation deinking; a step E of carrying out primary concentration and heat dispersion; a step F of carrying out secondary floatation deinking; a step G of carrying out secondary concentration and heat dispersion; a step H of carrying out oxidation bleaching; a step I of carrying out reduction bleaching; a step J of storing in a tower; a step K of milling pulp; a step L of preparing the pulp; a step M of forming and **manufacturing** the **paper** with the pulp; a step N of squeezing and dehydrating; a step O of drying; a step P of squeezing and sizing; and a step Q of carrying out press polishing and then completing processing of a finished product by the working sections of reeling, rewinding, packaging and warehousing.

According to the process disclosed by the invention, the high-quality cultural **paper** of which the appearance quality and the physical indexes all reach the domestic and overseas standards is produced by utilizing the low-price waste **paper** raw materials; the production cost is reduced; the production environment is clean and environmental-friendly; and the production efficiency is high.

Inventors

ZHANG CHENGFEI

LIN XINYANG

MING XING

SHAO ZHUMING

LIU ZHUOXING

Latest standardized assignees - inventors removed

NINE DRAGON **PAPER**

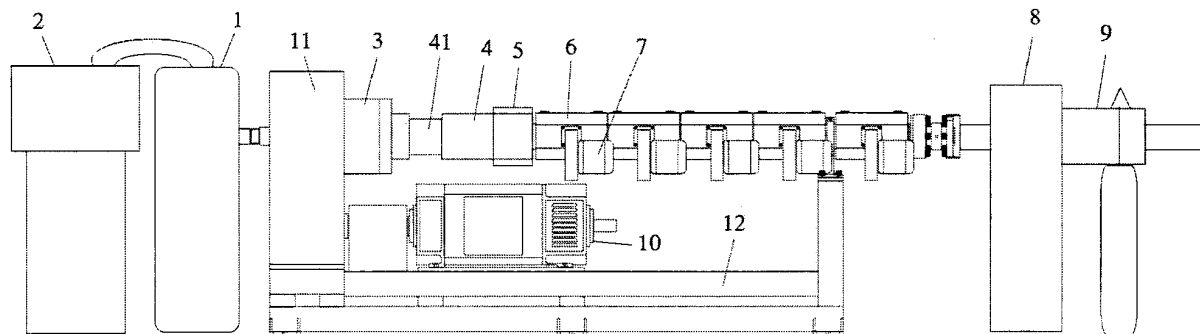
Family 39/100 - FAMPAT - ©Questel

Title

(CN105500659)

Device and process for **manufacturing** nylon carrier roller tube

Images



Publication numbers with kind code & date

[CN105500659](#)

A

2016-04-20

CN105500659



Abstract

(CN105500659)

The invention discloses a device and process for **manufacturing** a nylon carrier roller tube. The device comprises a mixer, a dryer, a **screw** type plastic extruding machine, a plastic extruding die, a shaping sleeve, a traction machine and a tube cutting and discharge machine, wherein the mixer is used for well mixing carrier roller tube production raw materials which comprise nylon and grafting materials, the dryer is used for drying the mixed raw materials in the mixer, the **screw** type plastic extruding machine comprises a material barrel, a raw material conveying **screw** and a heater, the plastic extruding die is used for forming the molten raw materials into an annular shape, and the shaping sleeve is used for shaping the carrier roller tube. The process includes: preparing the raw materials, drying the raw materials, preparing for plastic extruding, forming through extrusion and cutting the tube. The device and process for **manufacturing** the nylon carrier roller tube have the advantages that the device can use the nylon as the raw material to produce the carrier roller tube and is good in reliability and high in automation level, the carrier roller tube produced by the device is good in wear resistance, high in strength, long in service life, high in size accuracy and good in reliability, and the process is fast in production and high in production efficiency.

Inventors

ZHOU HONGBO

Latest standardized assignees - inventors removed

PAPER PO FIRST MACHINERY **MANUFACTURING**

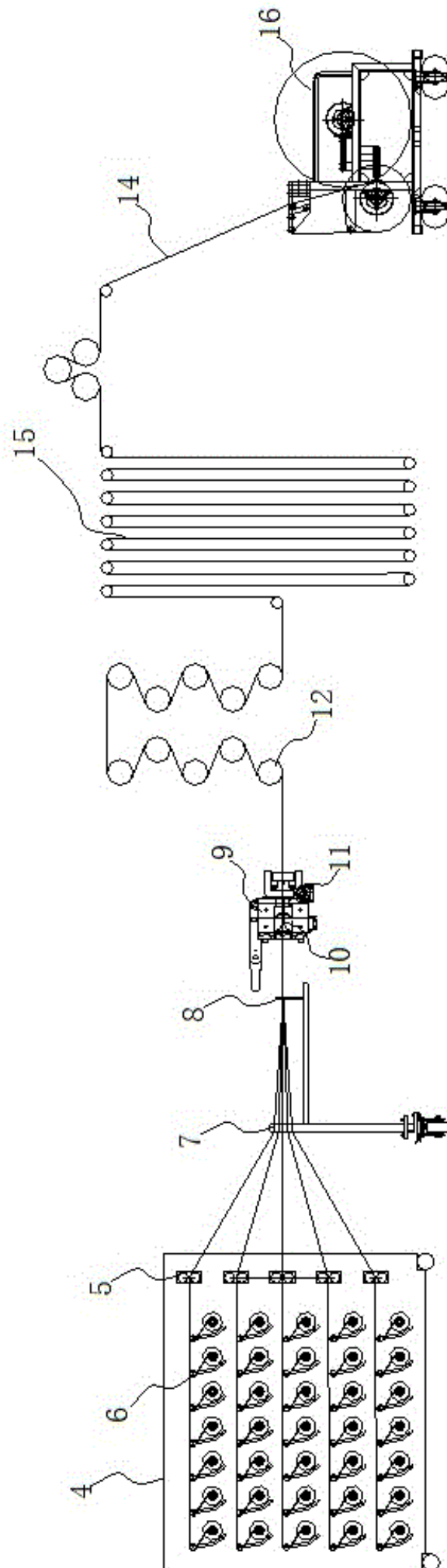
Family 40/100 - FAMPAT - ©Questel

Title

(CN111805942)

Rubber-coated fiber cord fabric **manufacturing** method based on rubber coating through **extruder**

Images



Publication numbers with kind code & date

CN111805942

A

2020-10-23

CN111805942

**Abstract**

(CN111805942)

The invention relates to a rubber-coated fiber cord fabric **manufacturing** method based on rubber coating through **extruder** and belongs to the field of tire production. According to the rubber-coated fiber cord fabric **manufacturing** method, spindles rolled by utilizing single fiber cord threads are unrolled on a spindle frame with the tension control function; the unrolled single fiber cord threads correspondingly penetrate through threading holes of a thread concentrating plate, and then totally penetrate through a thread arranging plate horizontally and parallelly; or the single fiber cord threads totally penetrate through two horizontally-placed guide rollers horizontally and parallelly, and then enter the thread arranging plate mounted in a rubber-coating machine head; after being coated with rubber in a cavity of the rubber-coating machine head, the single fiber cord threads are pulled by a front-end cooling traction system out of the rubber-coating machine head from the outlet of a hollow square plate; the rubber required for the coating of the single fiber cord threads is extruded by the **extruder**, and enters the cavity between the thread arranging plate and the hollow square plate so as to fully fill the cavity according to the required pressure; rubber-coated cord fabric pulled out of the rubber-coating machine head is cooled through the cooling traction system, and then enters a storage system; and the rubber-coated cord fabric discharged from the storage system enters a coiling system through a **conveyor** belt and is coiled by utilizing cushion fabric.

Inventors

DING MU

WEI JINMING

SHANG WENYI

LI QI

HUANG YANJUN

ZHAO YAYUAN

LI BONING

Latest standardized assignees - inventors removed

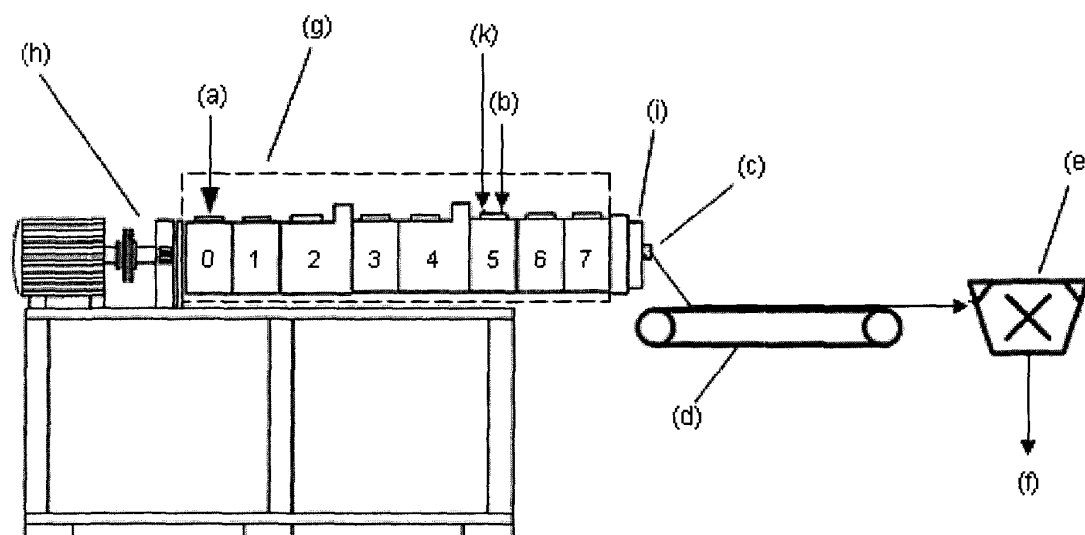
TRIANGLE GROUP

Family 41/100 - FAMPAT - ©Questel

Title

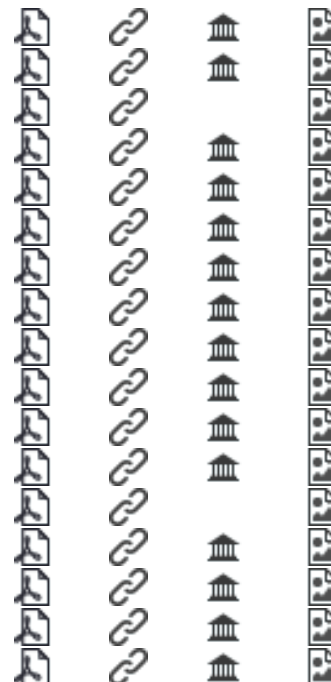
(EP2455424)

Method for continuous production of a prepolymer based on phenol resins, oxazolines and epoxides

Images

Publication numbers with kind code & date

BRPI1105582	B1	2020-09-15	BR201105582
CA2758420	C	2018-10-16	CA2758420
KR10-1896118	B1	2018-09-07	KR101896118
JP5954963	B2	2016-07-20	JP5954963
TWI513723	B	2015-12-21	TWI513723
US8834971	B2	2014-09-16	US8834971
BRPI1105582	A2	2014-03-18	BR201105582
EP2455424	B1	2014-01-01	EP2455424
BRPI1105582	A1	2013-11-19	BR201105582
TW201235373	A	2012-09-01	TW201235373
CN102532489	A	2012-07-04	CN102532489
JP2012107240	A	2012-06-07	JP2012107240
KR10-2012-0053472	A	2012-05-25	KR20120053472
DE102010044050	A1	2012-05-24	DE102010044050
EP2455424	A1	2012-05-23	EP2455424
CA2758420	A1	2012-05-17	CA2758420
US20120121812	A1	2012-05-17	US20120121812

**Abstract**

(EP2455424)

Continuous preparation (M1) of a prepolymer composition (P1) involves: combining a phenolic resin component, oxazoline component and epoxide component, in presence of a catalyst, in an **extruder**. The phenolic resin component and oxazoline component are supplied to the **extruder** in a stream A; at least one catalyst selected from Lewis adduct of boron trifluoride or aluminum trichloride, arylsulfonic acid, alkylsulfonic acid, latent arylsulfonic acid, and latent alkylsulfonic acid, is supplied to the **extruder** as stream B; and the epoxide component is supplied to **extruder** in a stream C. Continuous preparation (M1) of a prepolymer composition (P1) involves: combining a phenolic resin component, an oxazoline component and epoxide component, in the presence of a catalyst, in an **extruder**. The phenolic resin component and oxazoline component are supplied to the **extruder** in a stream A, and at least one catalyst selected from a Lewis adduct of boron trifluoride or aluminum trichloride, arylsulfonic acid, alkylsulfonic acid, a latent arylsulfonic acid, and latent alkylsulfonic acid, is supplied to the **extruder** as stream B, and the epoxide component is supplied to the **extruder** in a stream C. An infeed of the stream A, relative to an extrusion direction, is before an infeed of the stream C, where the streams A, B and C are combined at 120-200[deg] C with a residence time of 3 seconds to 15 minutes in the **extruder** to form a product, and then discharging the product from the **extruder** and cooling to less than 45[deg] C within 30-60 seconds. Independent claims are included for the following: (1) a prepolymer (P1) obtained by the process (M1); (2) a composition comprising the prepolymer (P1); (3) producing impregnated reinforcing fibers involving: dissolving the prepolymer (P1) in 2-butanone and impregnating at least one reinforcing fiber selected from a glass fiber and a carbon fiber with the dissolved prepolymer, and curing the impregnated reinforcing fiber; and (4) a powder for producing prepregs, comprising: the prepolymer (P1) and at least one additional component.

(From EP2455424 A1)

Inventors

OMEIS MARIANNE

VON ITTER FRANZ-ALBERT

WEIHRAUCH THOMAS

Latest standardized assignees - inventors removed

EVONIK OPERATIONS

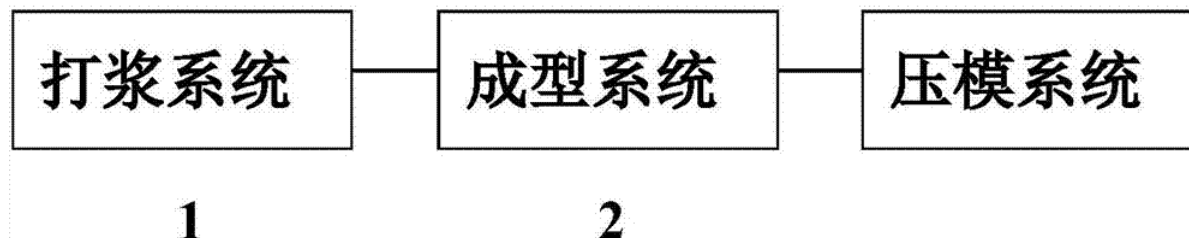
Family 42/100 - FAMPAT - ©Questel

Title

(CN106283934)

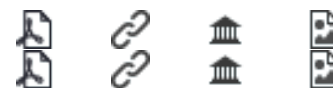
Paper mold forming system

Images



Publication numbers with kind code & date

CN106283934	B	2018-05-08	CN106283934B
CN106283934	A	2017-01-04	CN106283934



Abstract

(CN106283934)

The invention provides a **paper** mold forming system which comprises a pulping system, a forming system and a mold pressing system, wherein the discharging end of the pulping system is connected with the feeding end of the forming system; the discharging end of the forming system is communicated with the feeding end of the mold pressing system; **paper** forms **paper** pulp in the pulping system, and the **paper** pulp flows into a pulp vat of the forming system; wet green **paper** is prepared by the forming system through a wet green mold and is transferred into the mold pressing system through a **conveyor** belt; and the **paper** mold is pressed into a finished product with the required hardness by a hot press in the mold pressing system. According to the invention, due to combination of the three systems, the **paper** mold **manufacturing** is in an assembly line operation form, and the forming quality and efficiency of the **paper** mold are improved. The forming system is scientific and environmental-friendly, and the capacity is improved.

Inventors

YANG JIANYIN

Latest standardized assignees - inventors removed

ZHONGSHAN MINYA **PAPER** PRODUCTS

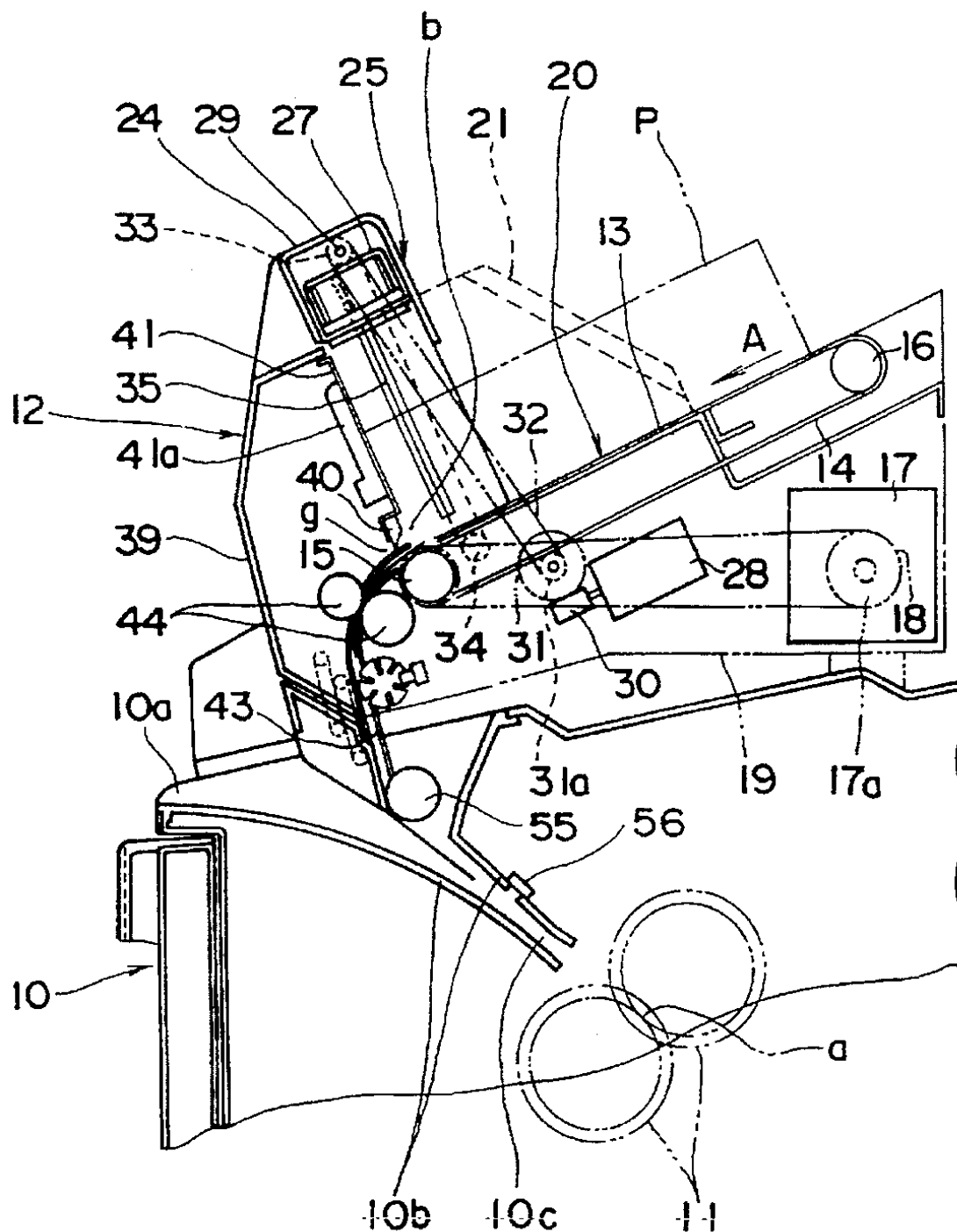
Family 43/100 - FAMPAT - ©Questel

Title

(US5662280)

Process and apparatus for controlling **paper feed** to a shredder

Images

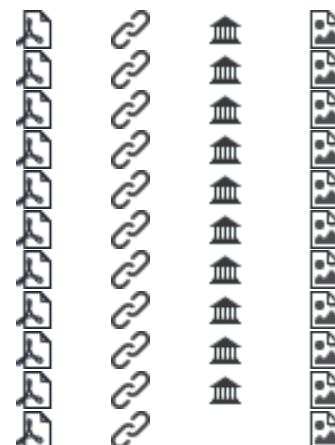


Publication numbers with kind code & date

DE19532168	A9	2010-08-12	DE19532168
JP3095114	B2	2000-10-03	JP3095114
US5772129	A	1998-06-30	US5772129
GB2292734	B	1998-03-04	GB2292734
FR2723859	B1	1998-01-23	FR2723859
US5662280	A	1997-09-02	US5662280
JP08117627	A	1996-05-14	JP08117627
DE19532168	A1	1996-03-07	DE19532168
GB2292734	A	1996-03-06	GB2292734
FR2723859	A1	1996-03-01	FR2723859
GB9517805	D0	1995-11-01	GB9517805

Abstract

(US5662280)



A **paper feed** device is mounted to a shredder. The intermittent activation time of **paper** feeding is adjusted, taking into consideration of the distance from the **paper feed** start position to the **paper** shredding position of a cutter of the shredder, thereby decreasing the speed of travel from the time the **paper** sensor detects the leading edge of the **paper** to the time the **paper** reaches the **paper** shredding position, so that operation is switched from intermittent to continuous activation preferably immediately before the leading edge of the **paper** reaches the cutter. Thus **paper feed** troubles associated with conventional devices are prevented, due to **paper** jamming, etc., caused by bending of the **paper**, etc.

Inventors

NISHIO TATSUO

IWATA HIROTAKA

Latest standardized assignees - inventors removed

RICOH

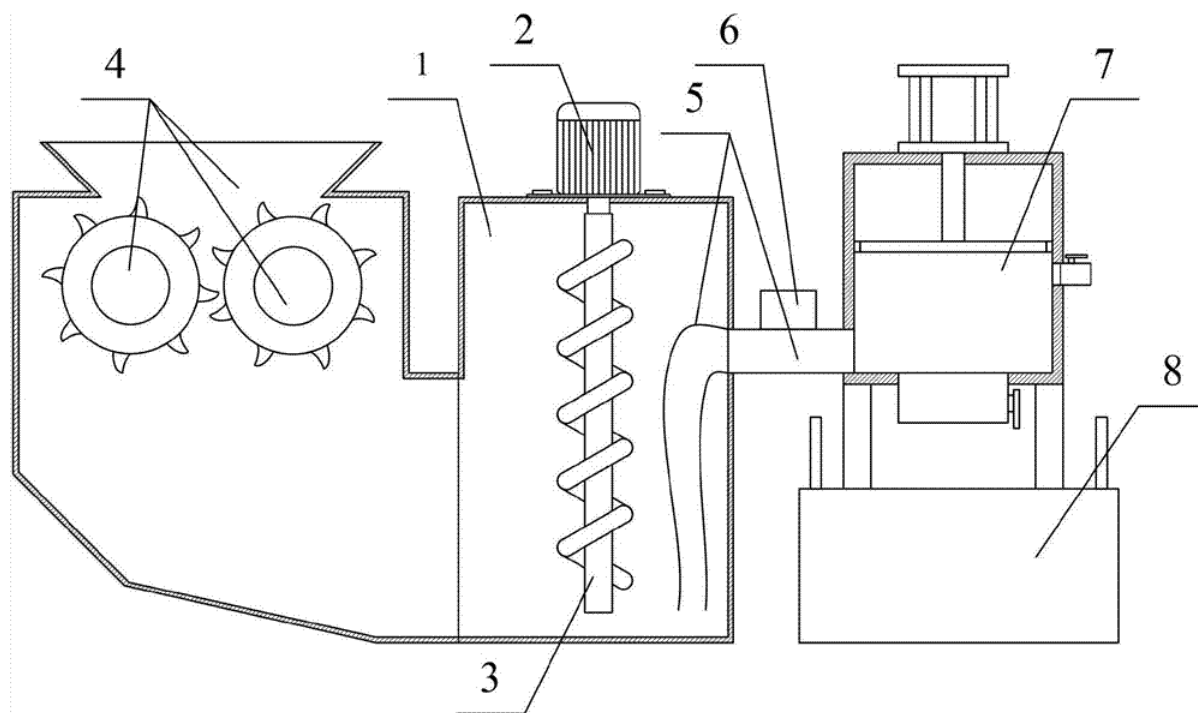
Family 44/100 - FAMPAT - ©Questel

Title

(CN207512516U)

Multi -functional stoving type **paper** products making devices

Images



Publication numbers with kind code & date

CN207512516

U

2018-06-19

CN207512516U



Abstract

(CN207512516)

The utility model provides a multi -functional stoving type **paper** products making devices, including the agitator tank, agitator motor, the **screw** feeder stirs garrulous wheel structure, the connectingpipe, the force (forcing) pump, **compression** web frame and workstation structure, the agitator motor bolt install the top at the agitator tank, the **screw** feeder install on agitator motor's output shaft, the garrulous wheel structure weld that stirs connect the left end at the agitator tank, the left end of connecting pipe be connected with the agitator tank, the right -hand member is connected with the **compression** web frame, the force (forcing) pump install on the connecting pipe. The beneficial effects of the utility model are that: through the setting of stirring garrulous wheel structure, be favorable to the convenient raw materials to **paper** products to stir garrulous work, also increase these stoving type **paper** products making devices's work efficiency simultaneously, through the setting of **compression** web frame, raw and other materials after filtration stirring that can be convenient is accomplished are favorable to the convenient time that shortens the sediment, have also shortened these stoving type **paper** products making devices's operating time simultaneously.

Inventors

CHEN YUNGUI

Latest standardized assignees - inventors removed

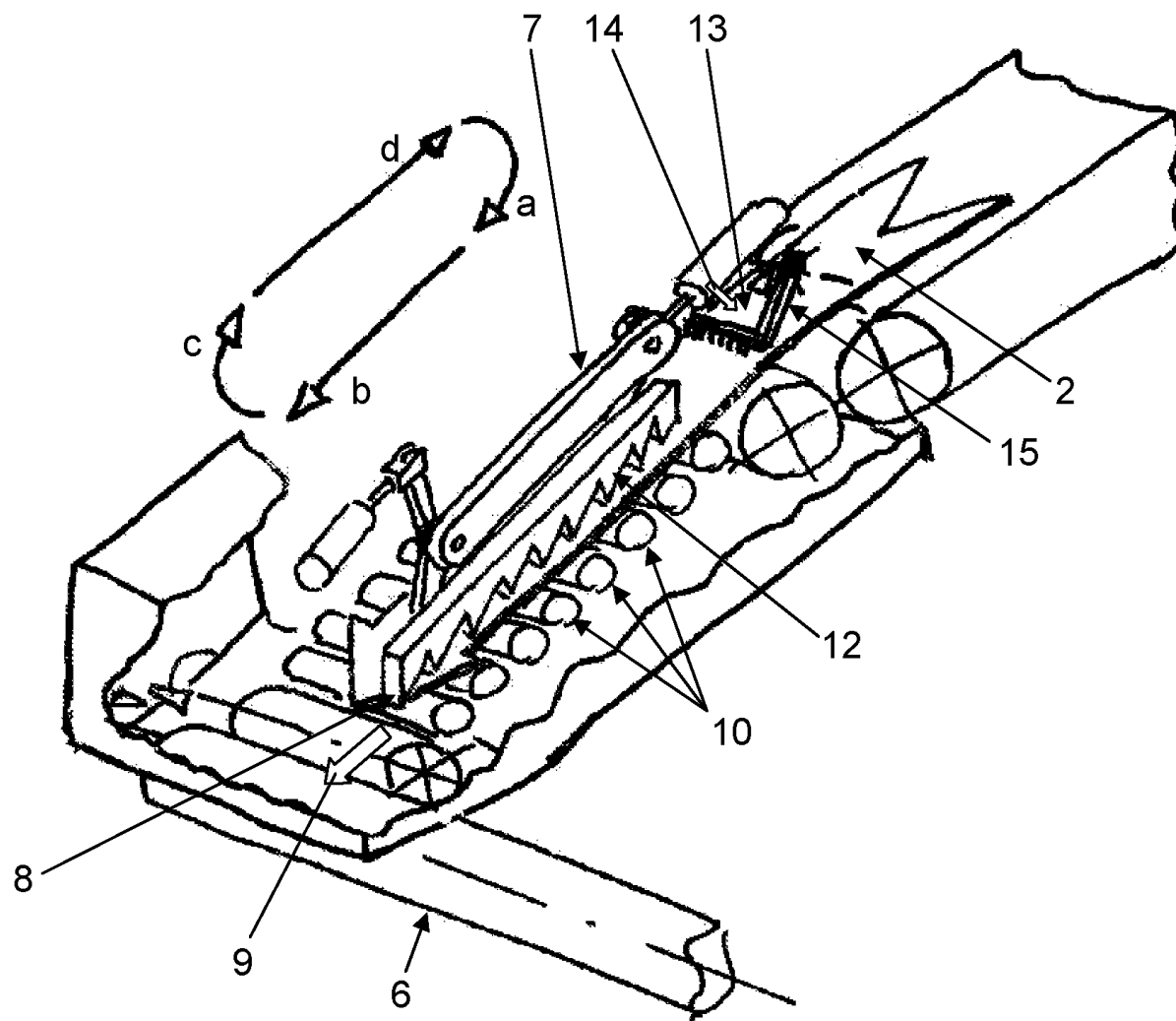
TIANJIN QIUYUAN PAPER PRODUCTS

Family 45/100 - FAMPAT - ©Questel

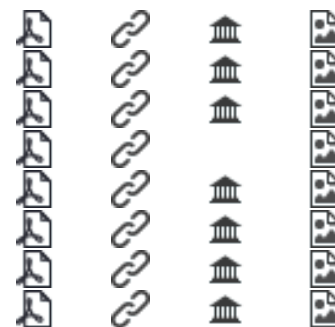
Title

(EP3281765)

Device for feeding an extruder

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

US10695969	B2	2020-06-30	US10695969
EP3281765	A3	2018-04-18	EP3281765
CN107718489	A	2018-02-23	CN107718489
KR20180018447	A	2018-02-21	KR20180018447
DE102016115049	B3	2018-02-15	DE102016115049
JP2018024248	A	2018-02-15	JP2018024248
US20180044118	A1	2018-02-15	US20180044118
EP3281765	A2	2018-02-14	EP3281765

**Abstract**

(EP3281765)

An apparatus for feeding a screw-type extruder with material strips made of rubber mixtures or plastics mixtures, which strips are arranged in a folded zig-zag shape and can be supplied by means of at least one conveyor belt to a supply region of a supply element that is funnel-shaped, at least in portions, and an extruder. A motor-driven conveyor device for

the material strip is arranged within the supply region, which device comprises a pressure surface that can abut the surface of the material strip and can be moved in a reversing manner. Said pressure surface only abuts the surface of the material strip in the conveying direction and, in the direction opposite the conveying direction, it adopts a return position in which it is spaced from the surface of the material strip.

(From US10695969 B2)

Inventors

HOFFMANN WIELAND

RENTZ EUGEN

PREICK DENNIS

Latest standardized assignees - inventors removed

TROESTER

Family 46/100 - FAMPAT - ©Questel

Title

(AU2016234917)

System and methods for **manufacturing** bulked continuous filament

Images

2016234917 28 Sep 20

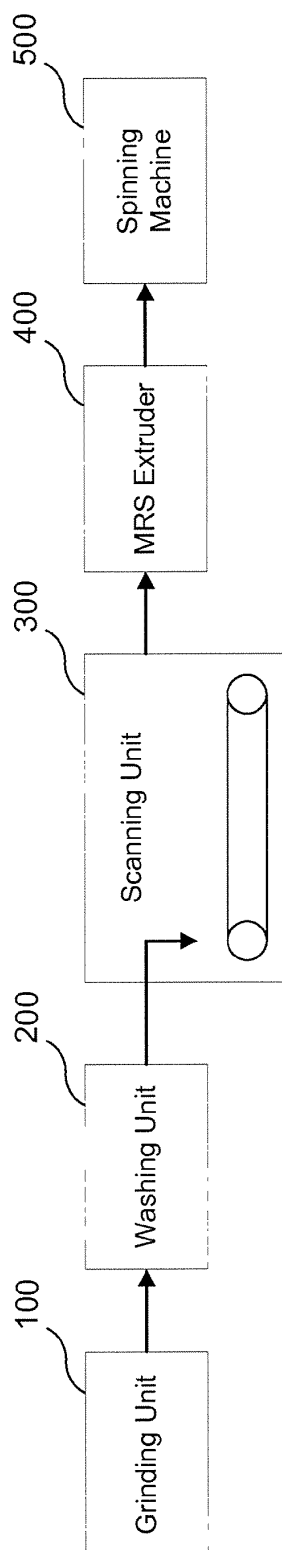


FIG 1

Publication numbers with kind code & date

AU2016234917	B2	2017-03-09	AU2016234917
AU2016234917	A1	2016-10-20	AU2016234917

**Abstract**

(AU2016234917)

Abstract A method of **manufacturing** bulked continuous carpet filament which, in various embodiments, comprises: (A) grinding recycled PET bottles into a group of flakes; (B) washing the flakes; (C) identifying and removing impurities, including impure flakes, from the group of flakes; (D) passing the group of flakes through an MRS **extruder** while maintain the pressure within the MRS portion of the MRS **extruder** below about 1.5 millibars; (E) passing the resulting polymer melt through at least one filter having a micron rating of less than about 50 microns; and (F) forming the recycled polymer into bulked continuous carpet filament that consists essentially of 0 recycled PET.

Inventors

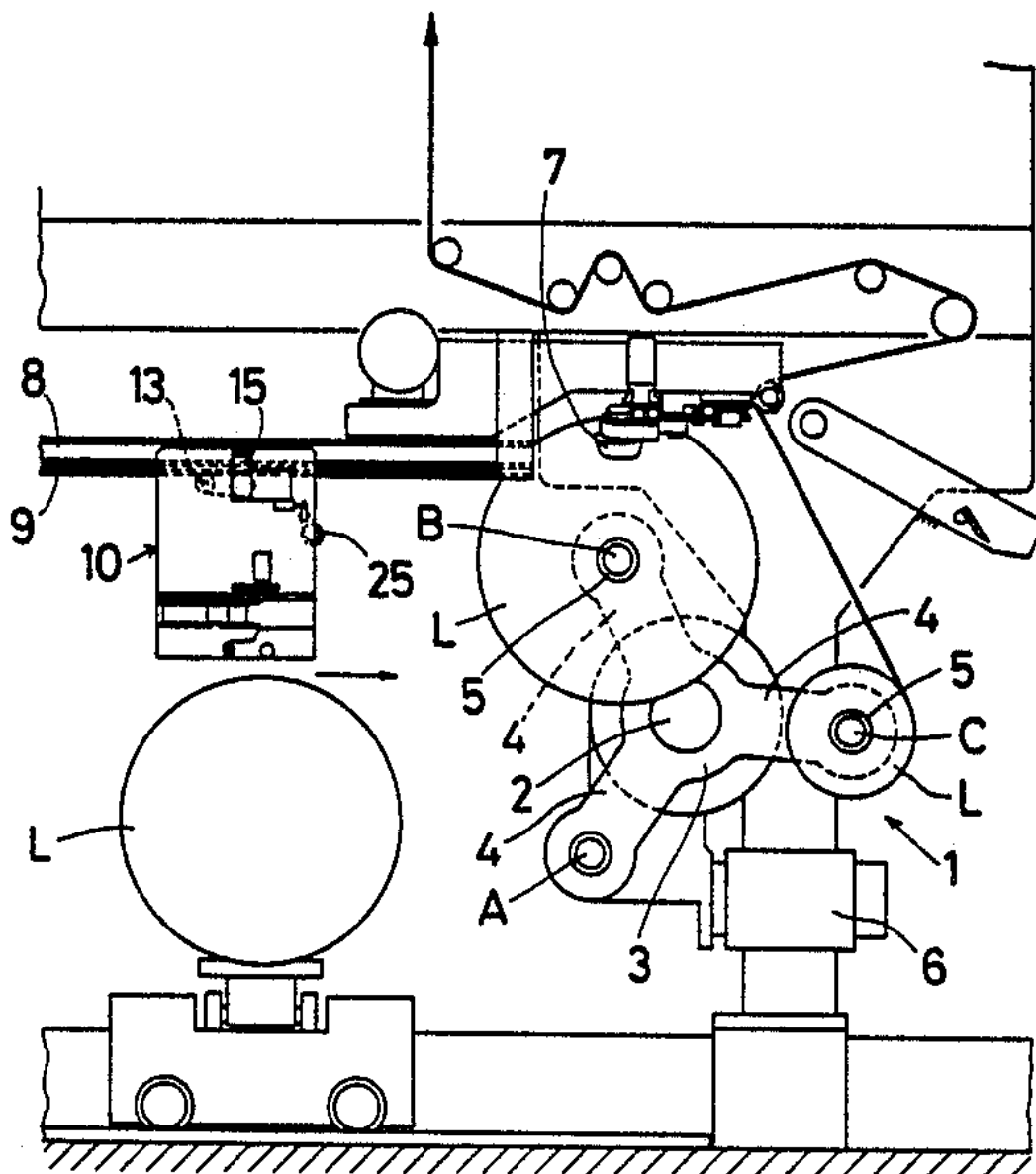
CLARK THOMAS

Latest standardized assignees - inventors removedALADDIN **MANUFACTURING**

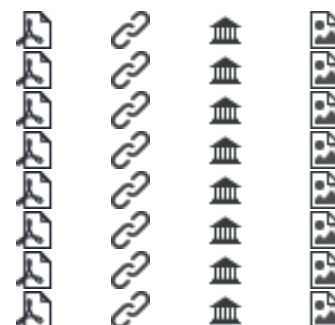
Family 47/100 - FAMPAT - ©Questel

Title

(US4802632)

Method and apparatus for treating end portion of roll **paper****Images****Publication numbers with kind code & date**

JP2545557	B2	1996-10-23	JP2545557
GB2212142	B	1992-02-12	GB2212142
DE3811138	C2	1992-02-06	DE3811138
FR2623176	B1	1991-11-22	FR2623176
GB2212142	A	1989-07-19	GB2212142
DE3811138	A1	1989-06-01	DE3811138
FR2623176	A1	1989-05-19	FR2623176
JP01127548	A	1989-05-19	JP01127548



[US4802632](#)

A

1989-02-07

US4802632

[GB8804622](#)

D0

1988-03-30

GB8804622

Abstract

(US4802632)

A device and method for treating the end portion of a **paper** from a **paper** roll mounted on a **paper feed** unit of a **paper** processor. The device arranged adjacent the **paper** roll is moved toward the **paper** roll until a presser roller mounted on the device is pressed against it. A cutter assembly facing the **paper** roll is pushed out so that its cutter will come into contact with the periphery of the **paper** roll. The cutter is then slid transversely from one end of the **paper** roll to the other to cut several turns of **paper** from the **paper** roll as broke. The broke is rolled out to be fed downwardly over a suction body through a pair of nip rollers and taken up by a take-up mechanism. Another cutter assembly is pushed forward into contact with the central part of the **paper** end rolled out together with the broke and moved widthwise to make a center cut in the **paper** end. A cavity forming device is then pressed against the **paper** end right under the center cut to form a square cavity there. A tab sticking device carrying a tab is pressed against the **paper** end just over the cavity to stick the upper part of the tab thereon. Two knives for V-cutting arranged at both sides of the **paper** end are moved laterally toward its center, while rewinding the **paper** roll, to make a V-cut extending obliquely from both sides toward the cavity. Adhesive is applied to the **paper** end along the cut edge. The **paper** end is rewound on the **paper** roll. The tab adhered to the **paper** end is then pressed by the presser roller against the surface of the **paper** roll to be stuck thereto. The broke is then discharged from the take-up mechanism.

Inventors

FUKUDA AKIRA

MASUDA ITSURO

Latest standardized assignees - inventors removedHAMADA PRINTING PRESS **MANUFACTURING**

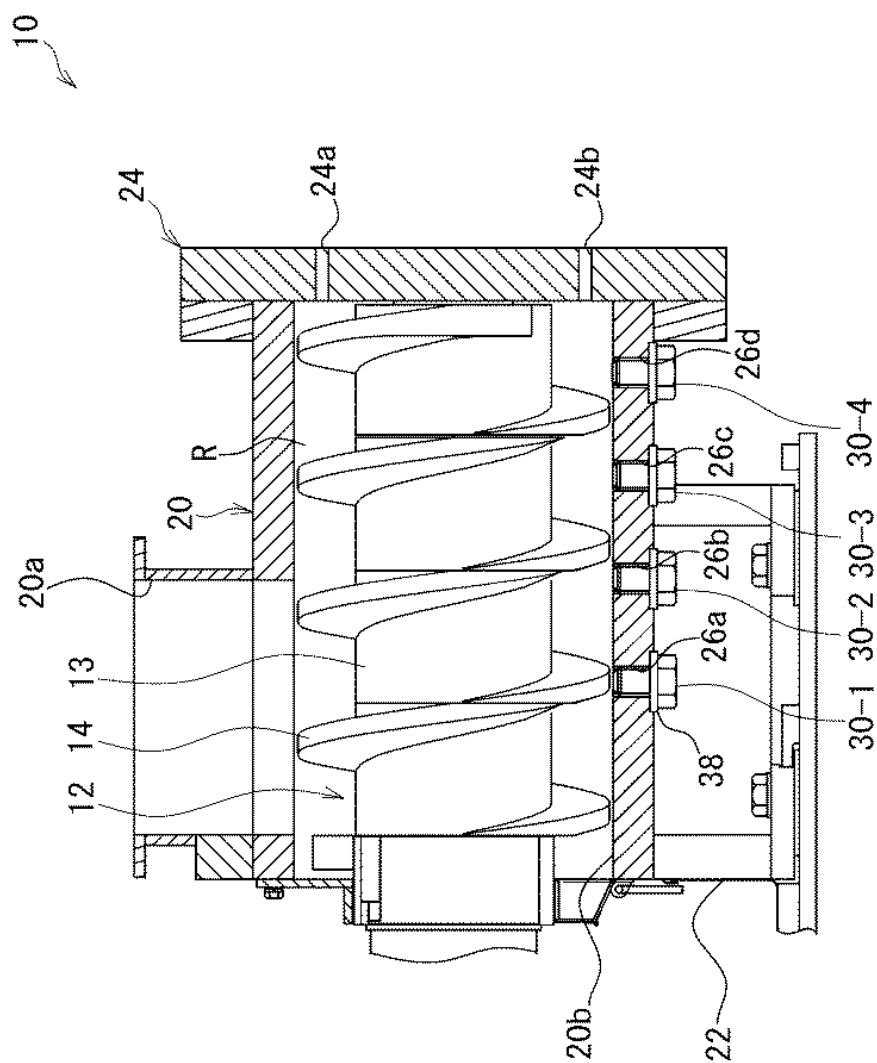
TOKYO KIKAI SEISAKUSHO

Family 48/100 - FAMPAT - ©Questel

Title

(JP2020040099)

Compression molding device**Images**

**Publication numbers with kind code & date**

JP2020040099

A

2020-03-19

JP2020040099

**Abstract**

(JP2020040099)

PROBLEM TO BE SOLVED: To provide a **compression** molding device capable of improving the workability of maintenance work for removing waste from a drainage when the drainage provided on a barrel wall surface is clogged with

the waste.

SOLUTION: A **compression** molding device 10 performs dehydration treatment of waste by **compression**-carrying the waste including moisture using **screw** conveyors 12 and 16 provided in a barrel 20, and extrudes waste from extrusion holes 24a and 24b provided on an end surface of the barrel 20 to mold. The **compression** molding device 10 is equipped with a draining plug 30 attached to a **screw** hole 26 provided on a wall portion 20b of the barrel 20, and the draining plug 30 is provided with a through-hole 34a that drains water squeezed from the waste by the dehydration treatment, from the barrel 20.

SELECTED DRAWING: Figure 2

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Inventors

ONO TOMOYA

Latest standardized assignees - inventors removed

FUJI CAR **MANUFACTURING**

Family 49/100 - FAMPAT - ©Questel

Title

(EP-550800)

Molded product

Publication numbers with kind code & date

ES2103020	T3	1997-08-16	ES2103020
DE59208330	D1	1997-05-15	DE59208330
AT151331	T	1997-04-15	ATE151331
EP0550800	B1	1997-04-09	EP-550800
EP0550800	A3	1993-10-06	EP-550800
EP0550800	A2	1993-07-14	EP-550800



Abstract

(EP0550800)

The invention relates to a method for **manufacturing** moulded products. To make the manufacture of such moulded products cheaper, it is proposed that uncleaned waste plastics and fillers be comminuted and subsequently fed in a suitable ratio to an **extruder**, whereupon the pasty composition emerging at the head of the **extruder** is forced into a mould for shaping the moulded products. Such moulded products can be, for example, roof pantiles or semi-finished profiles of a wide variety of types.

Inventors

BEYER DIETER

Latest standardized assignees - inventors removed

BEYER INDUSTRY PRODUCTS

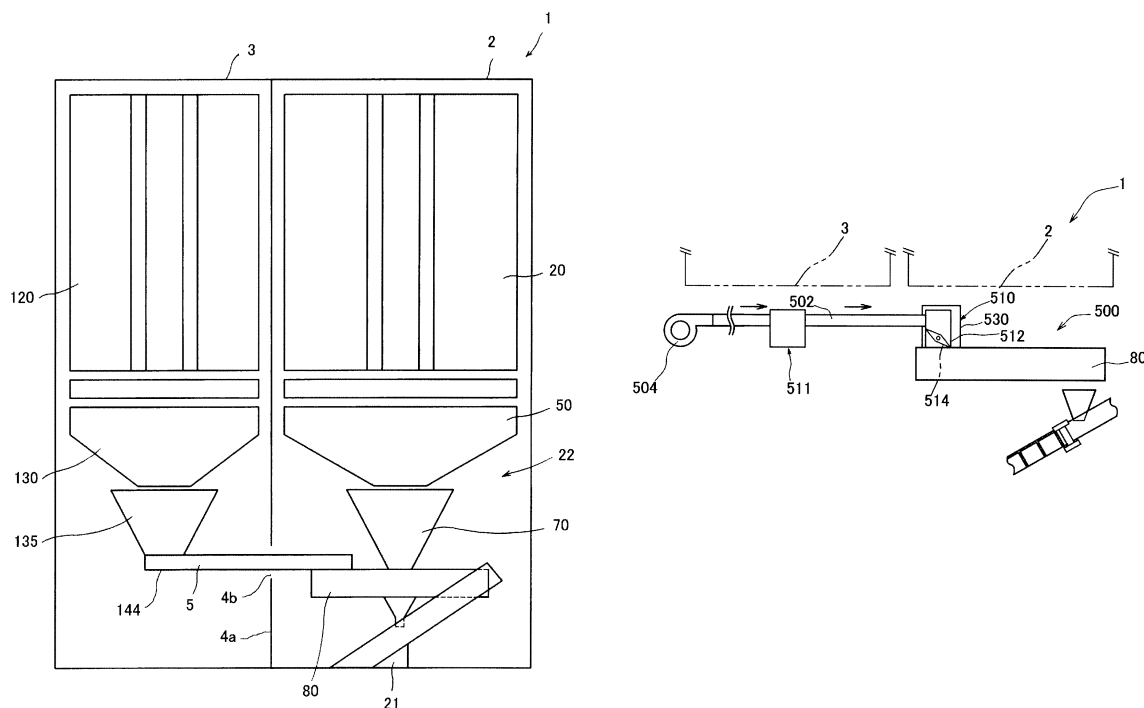
Family 50/100 - FAMPAT - ©Questel

Title

(EP3130323)

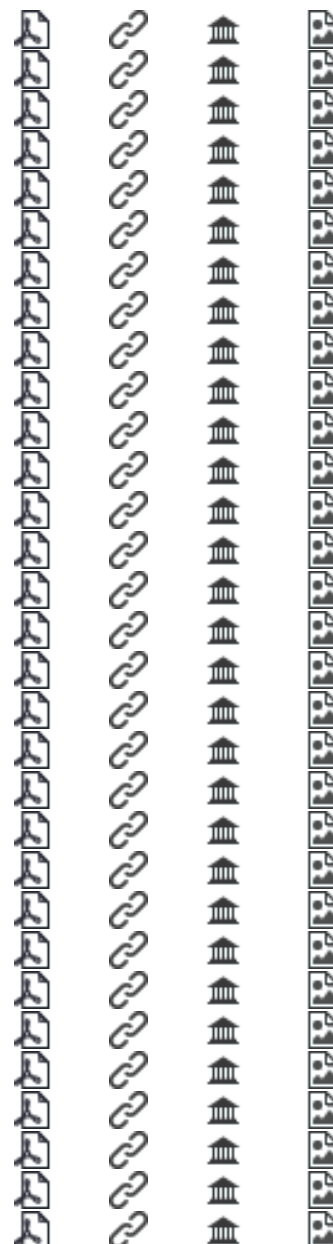
Drug delivery system, and drug delivery device

Images



Publication numbers with kind code & date

JP2020099770	A	2020-07-02	JP2020099770
JP6687149	B2	2020-04-22	JP6687149
JP2019202175	A	2019-11-28	JP2019202175
CA2965303	C	2019-11-12	CA2965303
JP6590108	B2	2019-10-16	JP6590108
JP2019130418	A	2019-08-08	JP2019130418
CA2965322	C	2019-06-18	CA2965322
DK3133564	T3	2019-04-15	DK3133564T
CA2965391	C	2019-03-05	CA2965391
EP3133564	B1	2019-01-09	EP3133564
CN105730765	B	2018-09-28	CN105730765B
CA2733590	C	2018-01-30	CA2733590
JP2017124212	A	2017-07-20	JP2017124212
JP6112137	B2	2017-04-12	JP6112137
CN103735415	B	2017-03-01	CN103735415B
EP3133564	A1	2017-02-22	EP3133564
EP3130323	A1	2017-02-15	EP3130323
EP3130324	A1	2017-02-15	EP3130324
EP2213274	B1	2016-10-05	EP2213274
CN105730765	A	2016-07-06	CN105730765
TWI525022	B	2016-03-11	TWI525022
TWI518013	B	2016-01-21	TWI518013
TWI501906	B	2015-10-01	TWI501906
CN103705382	B	2015-09-30	CN103705382B
CN103720590	B	2015-09-30	CN103720590B
JP2015142815	A	2015-08-06	JP2015142815
JP5751317	B2	2015-07-22	JP5751317
TWI455858	B	2014-10-11	TWI455858
US8739499	B2	2014-06-03	US8739499
JP2014076376	A	2014-05-01	JP2014076376
CN103735415	A	2014-04-23	CN103735415



CN103720590	A	2014-04-16	CN103720590				
CN103705382	A	2014-04-09	CN103705382				
KR10-1379990	B1	2014-04-02	KR101379990				
CN101909576	B	2014-03-05	CN101909576B				
KR10-1367002	B1	2014-02-24	KR101367002				
KR10-1312737	B1	2013-09-27	KR101312737				
KR10-1306533	B1	2013-09-09	KR101306533				
KR10-2013-0092630	A	2013-08-20	KR20130092630				
JP5224167	B2	2013-07-03	JP5224167				
KR10-1248655	B1	2013-04-01	KR101248655				
EP2213274	A4	2013-03-27	EP2213274				
JP5169137	B2	2013-03-27	JP5169137				
US8387343	B2	2013-03-05	US8387343				
US8234838	B2	2012-08-07	US8234838				
US20120124938	A1	2012-05-24	US20120124938				
US20120124939	A1	2012-05-24	US20120124939				
US20120130532	A1	2012-05-24	US20120130532				
TW201213209	A	2012-04-01	TW201213209				
TW201213210	A	2012-04-01	TW201213210				
TW201213211	A	2012-04-01	TW201213211				
KR10-2011-0044926	A	2011-05-02	KR20110044926				
KR10-2011-0042388	A	2011-04-26	KR20110042388				
KR10-2011-0042246	A	2011-04-25	KR20110042246				
CN101909576	A	2010-12-08	CN101909576				
US20100287880	A1	2010-11-18	US20100287880				
EP2213274	A1	2010-08-04	EP2213274				
KR10-2010-0074213	A	2010-07-01	KR20100074213				
JP2010046469	A	2010-03-04	JP2010046469				
TW200932638	A	2009-08-01	TW200932638				
JP2009119246	A	2009-06-04	JP2009119246				
JP2009100910	A	2009-05-14	JP2009100910				
JP2009100911	A	2009-05-14	JP2009100911				
CA2733590	A1	2009-04-30	CA2733590				
CA2965303	A1	2009-04-30	CA2965303				
CA2965322	A1	2009-04-30	CA2965322				
CA2965391	A1	2009-04-30	CA2965391				
WO2009/054440	A1	2009-04-30	WO200954440				

Abstract

(EP3130323)

There is provided a medicine dispensing system configured such that a medicine dispensing device includes a sub unit having a function to dispense medicine that is connected to a medicine dispensing device that includes a main unit having a function of packing medicines. There is also provided a medicine dispensing device that can be appropriately integrated with such a medicine dispensing system. The medicine dispensing system includes, in some embodiments a main unit, a sub unit and a transfer device connecting the main unit and the sub unit. The medicine dispensing system transfers the medicine dispensed in the sub unit to the main unit by means of a transfer device and dispenses the medicine at a medicine packing part together with the medicine dispensed from a main storage part in the main unit.

Inventors

YASUNAGA ITSUO

ASAOKA CHISEI

OIKE NORIFUMI

KAMINISHI KENSUKE

KASUYA MASAHIKO

TAKEDA NAKAJI

TSUDA HIROMICHI

MORITA YASUYUKI

TAIRA SHINYA

SUGIMOTO TOMOHIRO

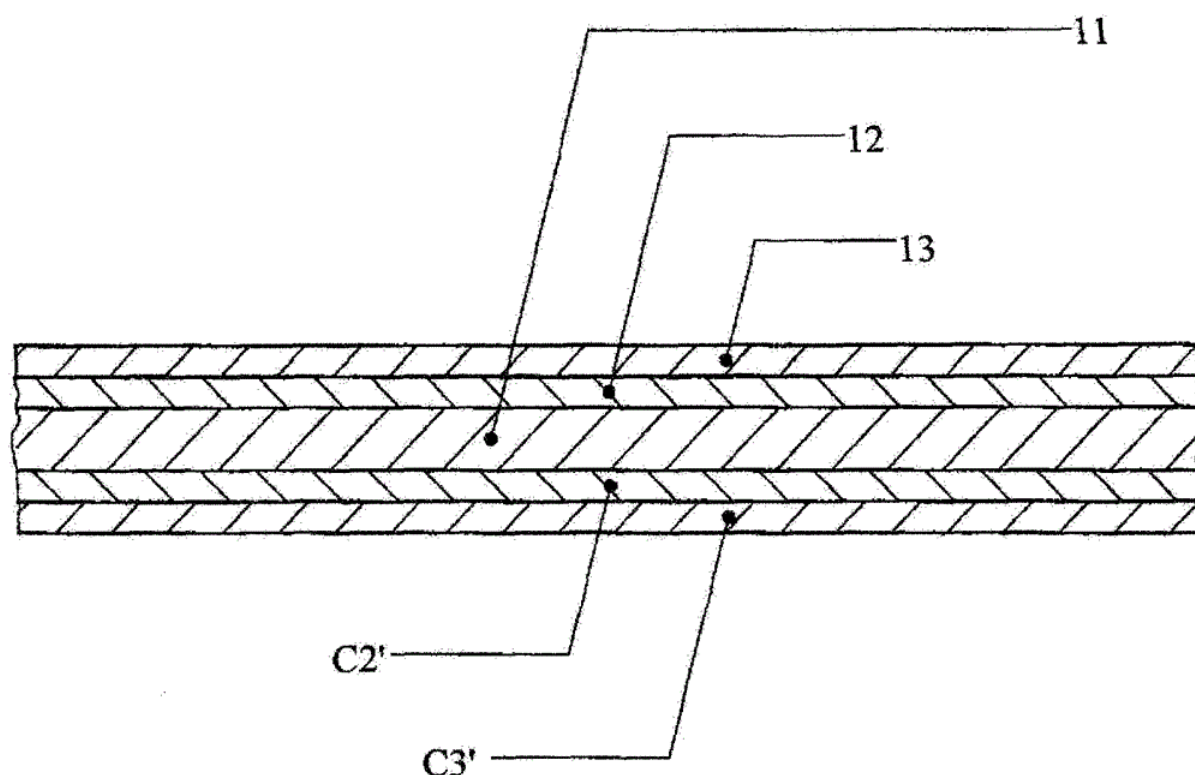
TOYOTA NAOMICHI

Latest standardized assignees - inventors removedYUYAMA **MANUFACTURING**

Family 51/100 - FAMPAT - ©Questel

Title

(CN102444056)

Five-layer resoluble or degradable environmental friendly **paper** and production method thereof**Images****Publication numbers with kind code & date**

CN102444056	B	2016-08-10	CN102444056B
CN102444056	A	2012-05-09	CN102444056

**Abstract**

(CN102444056)

The patent refers to the field of 'special **paper**'. The invention discloses five-layer resoluble or degradable environmental friendly **paper**, comprising an interface layer, a top inner layer, a bottom inner layer, a top surface layer, and a bottom surface layer, wherein, the interface layer comprises polylactic acid resin, inorganic mineral powder, foaming agent sizing material, and auxiliary agents, the top inner layer and the bottom inner layer are two interfused polylactic acid resin film layers adhered on two surfaces of the interface layer, and the top surface layer and the bottom surface layer are two ink-absorption material layers adhered on the surfaces of the two polylactic acid resin film layers. The invention further provides a production method of the five-layer resoluble or degradable environmental friendly **paper**.

Inventors

LIANG SHIHUI

Latest standardized assignees - inventors removed

DRAGON UNION ENVIRONMENTAL PROTECTION PAPER

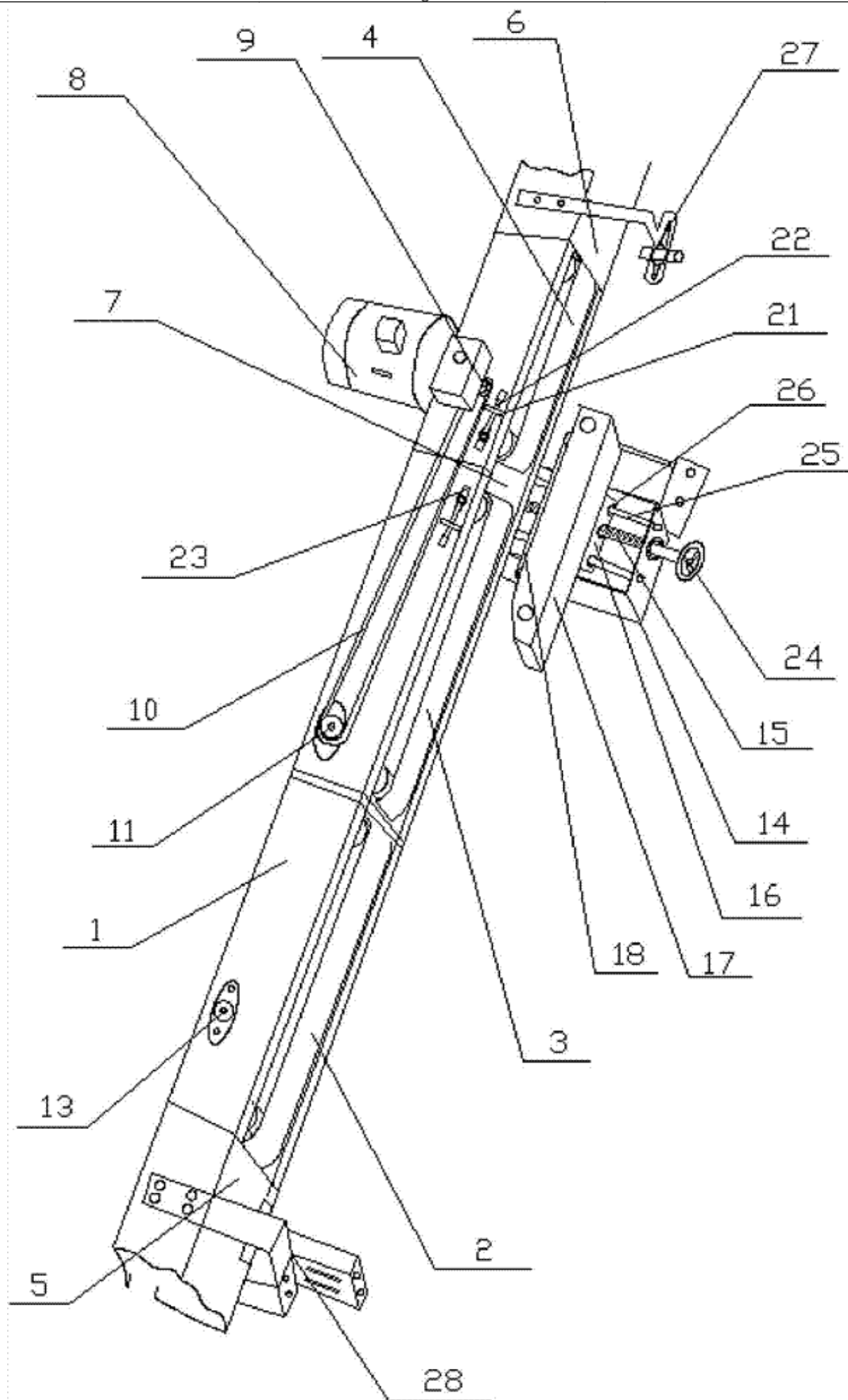
Family 52/100 - FAMPAT - ©Questel

Title

(CN208288482U)

Pressfitting formula paper removing devices about belt

Images



Abstract

(CN208288482)

The utility model discloses a pressfitting formula **paper** removing devices about belt, including the conveyer belt frame, be provided with velocity ratio conveyer belt, auxiliary conveying belt and main conveyer belt on the conveyer belt frame, one side of conveyer belt frame is provided with velocity ratio driving motor, the opposite side of conveyer belt frame is provided with **compression** fittings, **compression** fittings includes pressfitting main part frame, pressfitting regulation lead **screw**, connecting plate and pressfitting conveyer belt mounting bracket, the pressfitting adjust the lead **screw** with connecting plate threaded connection, connecting plate and pressfitting conveyer belt mounting bracket fixed connection, pressfitting conveyer belt mounting bracket set up in **paper** the drop top and the inside pressfitting conveyer belt that is provided with of opening. The utility model discloses a through setting up the pressfitting conveyer belt in main conveyer belt and auxiliary conveying belt top to the mode of pressfitting realizes rejecting the automation of **paper** in scroll transportation process from top to bottom, can effectively improve the success rate that the **paper** was rejected, improves the yield of follow -up scroll bagging -off, and the reduction is artifical extravagant, improves work efficiency, reduction in production cost.

Inventors

DUAN ZHIGAO

Latest standardized assignees - inventors removedBAODING XINJIE **PAPER**

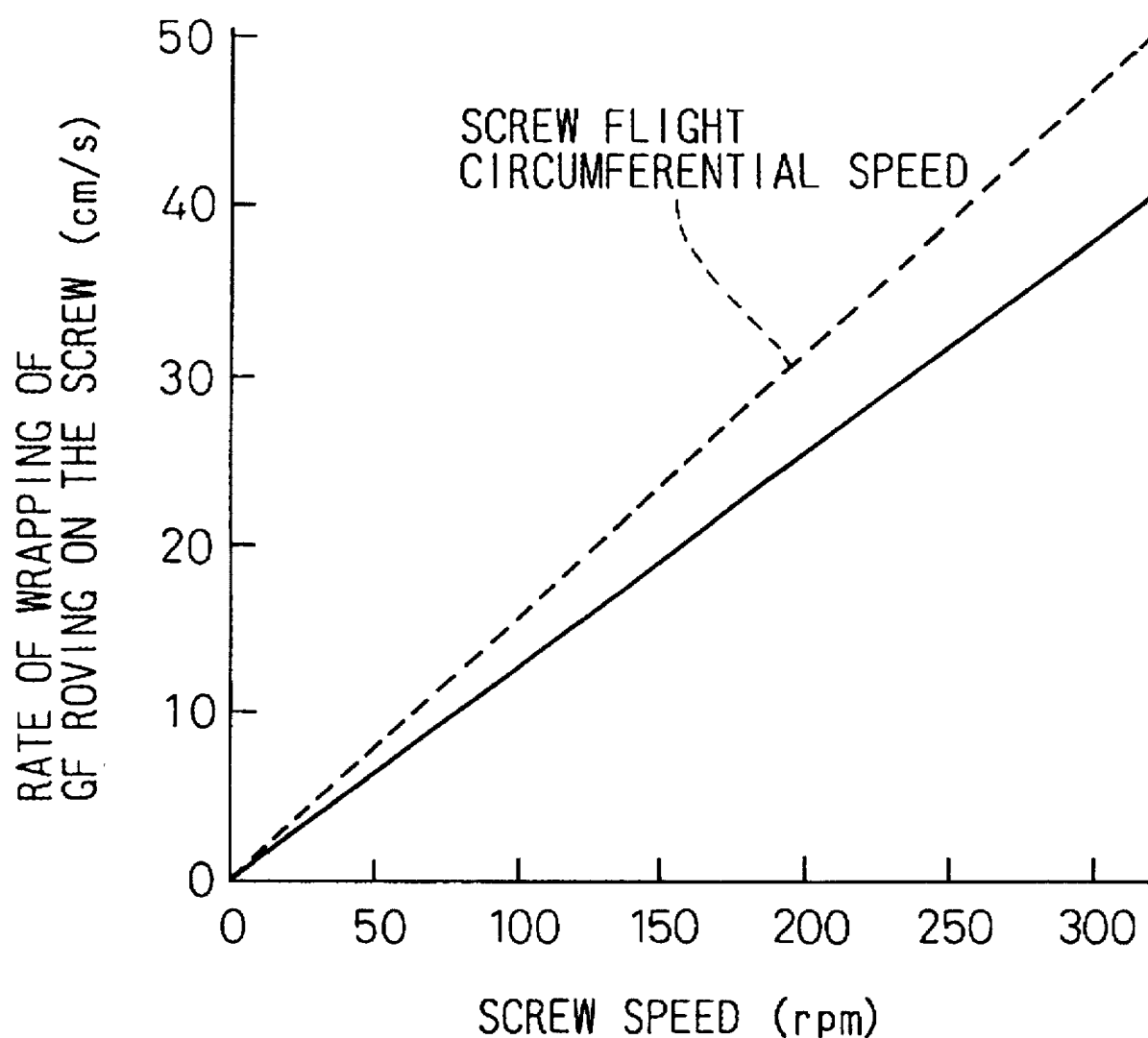
Family 53/100 - FAMPAT - ©Questel

Title

(EP-635542)

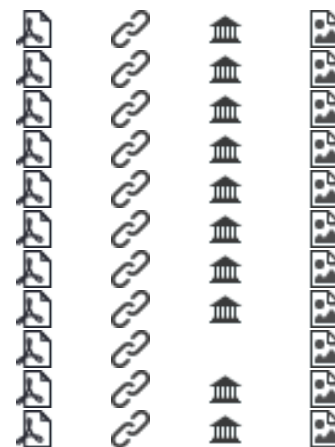
Fiber reinforced thermoplastic resin, process for production of same, and **extruder****Images**

Fig.1



Publication numbers with kind code & date

US6428728	B1	2002-08-06	US6428728
EP0635542	B1	2002-01-23	EP-635542
CN1064059	C	2001-04-04	CN1064059C
US6060010	A	2000-05-09	US6060010
US5824410	A	1998-10-20	US5824410
EP0635542	A3	1998-01-21	EP-635542
US5679456	A	1997-10-21	US5679456
CN1109405	A	1995-10-04	CN1109405
KR1995-0003362	A	1995-02-16	KR19950003362
EP0635542	A2	1995-01-25	EP-635542
CA2128439	A1	1995-01-22	CA2128439



Abstract

(EP0635542)

A fiber reinforced thermoplastic resin structure comprising a thermoplastic resin and reinforcing fibers, having a ratio (L_w/L_n) of the number average fiber length (L_n) to the weight average fiber length (L_w) of the uniformly dispersed reinforcing fibers of 1.1 to 5, and having a weight average fiber length of 1.0 mm to 200 mm as well as a process and

extruder for the production thereof. <IMAGE>

Inventors

SAKAI HIDETOSHI

HIRATSUKA MOTOKI

WATANABE AKIHIKO

YAMADA MOTONOBU

Latest standardized assignees - inventors removed

TORAY INDUSTRIES

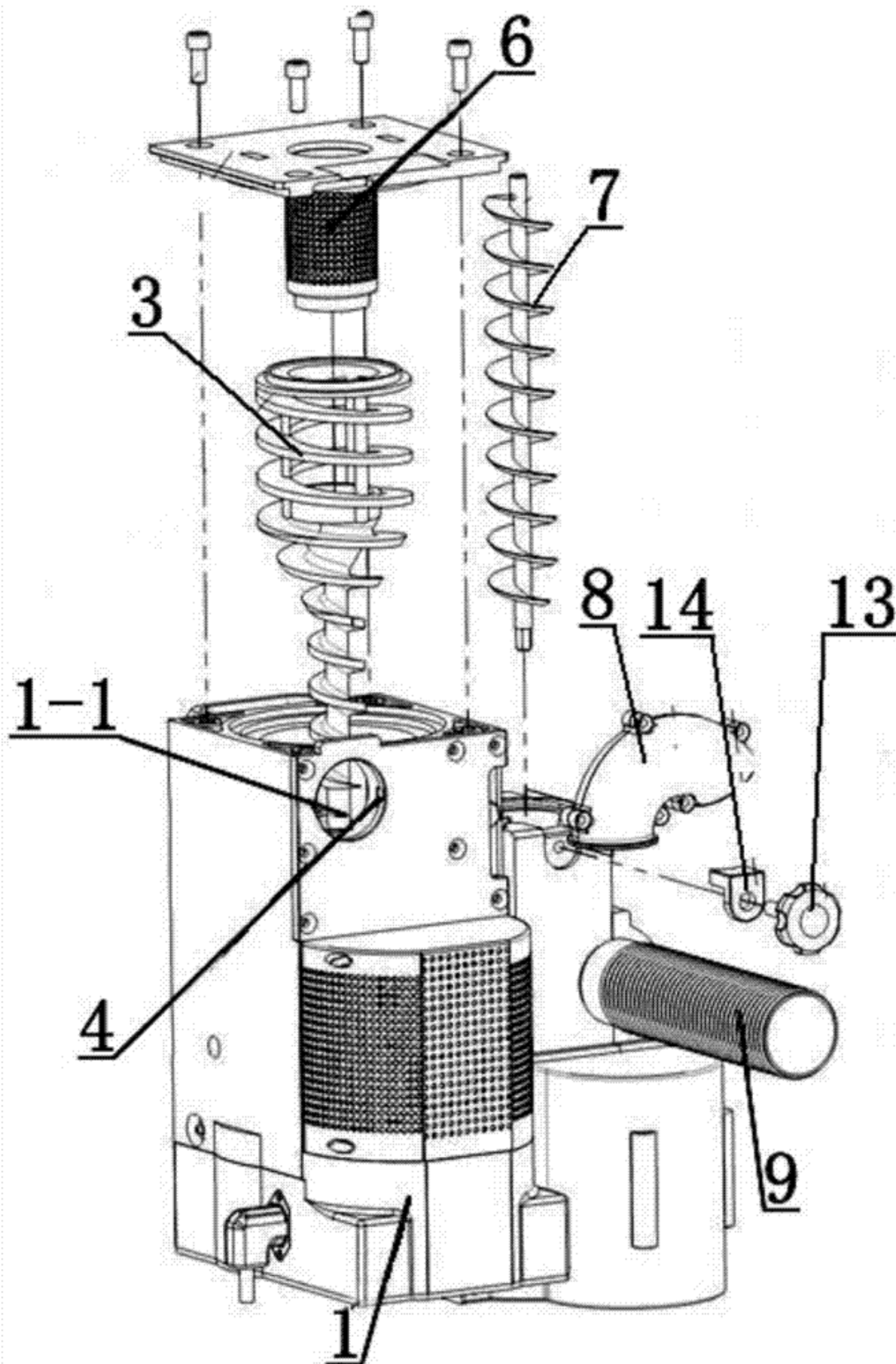
Family 54/100 - FAMPAT - ©Questel

Title

(CN208095992U)

A **compression conveyor** for collecting disallowable china cypress scraps of **paper** of cigarette production in -process

Images



Publication numbers with kind code & date

CN208095992

U

2018-11-16

CN208095992U



Abstract

(CN208095992)

The utility model provides a **compression conveyor** for collecting disallowable china cypress scraps of **paper** of cigarette production in -process, including casing, first spiral compressor arrangement, second spiral compressor arrangement and

discharging channel, the casing is inside to be equipped with first cavity, transition cavity and second cavity, connects discharging channel and second cavityintercommunication between first cavity and the second cavity through transition cavity, first spiral compressor arrangement includes first conveyor screw pole, and first conveyor screw pole positionis in first cavity to through coupling joint to power device, the spiral leaf external diameter of first conveyor screw pole is diminished under to by last gradually, second spiral compressor arrangement be used for with the material by go carry extrude discharging channel in, including second conveyor screw pole, second conveyor screw pole position is in the second cavity, second conveyor screwpole passes through coupling joint to power device. The utility model discloses the ability of holding of china cypress scraps of paper collecting boxes and the collection reliability of the disallowable china cypress scraps of paper have effectively been improved.

Inventors

MA LI

WU JIE

CENG YONG

LI XINLIN

ZOU ZHENNAN

TANG HANXI

FU SHOUHUA

ZHOU ZHONGMING

LI SHAOJIE

LI SHAOJUN

Latest standardized assignees - inventors removed

HONGTA

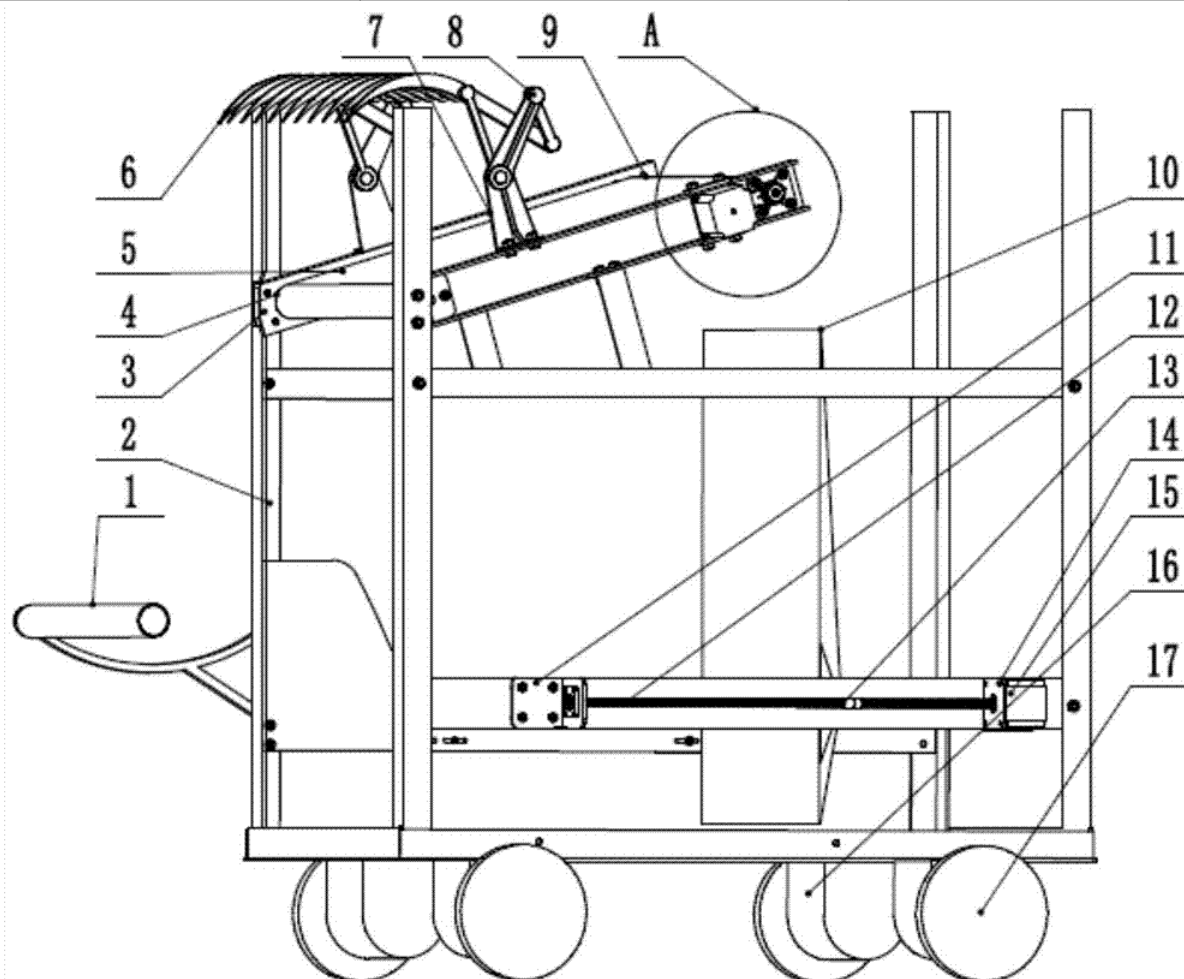
Family 55/100 - FAMPAT - ©Questel

Title

(CN105620990)

Intelligent electric garbage truck device

Images



Publication numbers with kind code & date

CN105620990	B	2017-09-29	CN105620990B
CN105620990	A	2016-06-01	CN105620990



Abstract

(CN105620990)

The invention discloses an intelligent electric garbage truck device, and belongs to the field of municipal environment. The intelligent electric garbage truck device comprises a jacking rod, a body frame, U-shaped steel, a **conveyor** belt secondary roller, a **conveyor** belt, a paw, a bracket, a bracket motor, a **conveyor** belt primary belt, a **compression** plate, a **compression** bracket, a **compression** lead **screw**, a **compression** cap, a **compression** motor bracket, a **compression** motor, a chassis, wheels, a **conveyor** motor bracket, a **conveyor** motor, a synchronous belt, a synchronous belt wheel, a synchronous belt wheel bracket, an angle bracket, a lifting motor bracket, a lifting motor, a lifting lead **screw**, an angular frame mounting plate, an angular frame bearing, an angular frame, an ejector rod, a lifting lead **screw** bracket and a lifting lead **screw** slide block. The intelligent electric garbage truck device has the beneficial effects that the device can automatically position a garbage can and can clear the garbage in the garbage can.

Inventors

LI Jin to

WANG SHENG

YOU JIAHAO

Latest standardized assignees - inventors removed

NINGBO INSTITUTE OF INTELLIGENT **MANUFACTURING** INDUSTRY

NINGBO DOUBLE WITKEY INVESTMENT

Family 56/100 - FAMPAT - ©Questel

Title

(CN103726382)

Pure straw Chinese art **paper** and chloride-free bleaching production process thereof

Publication numbers with kind code & date

CN103726382	B	2016-08-17	CN103726382B
CN103726382	A	2014-04-16	CN103726382

**Abstract**

(CN103726382)

The invention discloses a chloride-free bleaching production process of a pure straw Chinese art **paper**. The chloride-free bleaching production process comprises the following steps: removing rice ears and rice leaves of rice straws in sand fields, cutting the rice straws into straw segments with the length of 2-3cm, and then, removing dust; delivering the straw segments into an oxygen bleaching ball, adding water, preserving the heat, dehydrating and extruding; delivering the straw segments into a lime digesting ball, adding lime milk, and boiling at the temperature of 150-200 DEG C for 1-2h to obtain straw pulp; washing after diluting the straw pulp; increasing the concentration of the pulp to 22-24%, carrying out alkaline boiling in an alkaline boiling ball, diluting the straw pulp till the concentration is 1-5%, purifying, and then, increasing the concentration of the straw pulp to over 22%; adding a papermaking additive into the straw pulp, uniformly mixing, delivering the straw pulp into the oxygen bleaching ball, introducing oxygen, heating the straw pulp to 175-185, preserving the heat for 1-2h, releasing gas and reducing the pressure; and pulping the pulp until the pH value of the pulp is slightly alkaline, uniformly mixing the pulp and leather pulp, screening, purifying, and then, papermaking to obtain the pure straw Chinese art **paper**. The invention also discloses the pure straw Chinese art **paper**.

Inventors

LU YIKUI

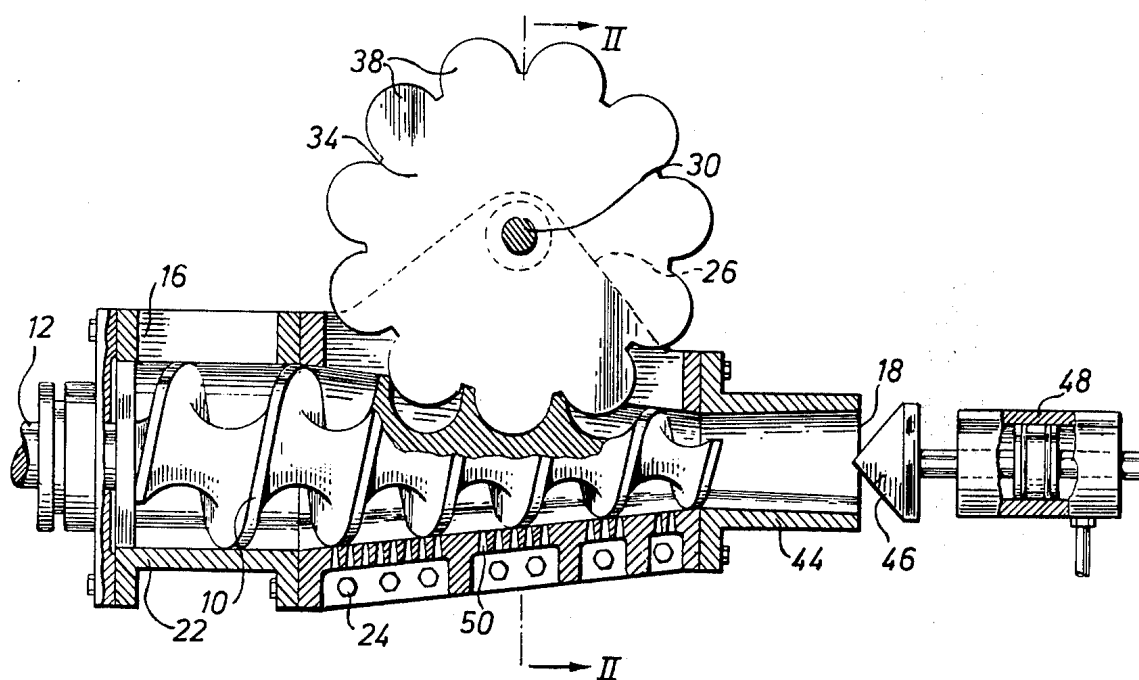
SHENG RIDONG

Latest standardized assignees - inventors removedANHUI JING COUNTY MILLENNIUM ANCIENT XUAN **PAPER**

Family 57/100 - FAMPAT - ©Questel

Title

(US4121967)

Screw conveyor in pulp-making equipment**Images****Publication numbers with kind code & date**

JP1461937	C	1988-10-14	JP1461937
JPS6253279	B2	1987-11-10	JP87053279



IT1086303	B	1985-05-28	IT1086303				
AT369450	B	1982-12-27	AT-369450				
FR2363433	B1	1982-08-13	FR2363433				
ATA634477	A	1982-05-15	AT7706344				
FI60417	C	1982-01-11	FI--60417				
CH627128	A5	1981-12-31	CH-627128				
FI60417	B	1981-09-30	FI--60417				
PL115299	B1	1981-03-31	PL-115299				
GB1585777	A	1981-03-11	GB1585777				
NZ185108	A	1980-11-28	NZ-185108				
AU508978	B2	1980-04-17	AU-508978				
CA1074069	A	1980-03-25	CA1074069				
AU2839177	A	1979-03-08	AU7728391				
SE403309	B	1979-01-29	SE-403309				
US4121967	A	1978-10-24	US4121967				
BR7705939	A	1978-06-20	BR7705939				
JPS5363662	A	1978-06-07	JP53063662				
PL200682	A1	1978-04-10	PL-200682D				
FR2363433	A1	1978-03-31	FR2363433				
DE2736810	A1	1978-03-16	DE2736810				
NL7709643	A	1978-03-09	NL7709643				
FI772495	A	1978-03-08	FI7702495				
SE7609879	L	1978-03-08	SE7609879				
BE858092	A	1977-12-16	BE-858092				

Abstract

(US4121967)

A **screw conveyor** which is particularly used for feeding in and compressing ligno-cellulosic material, such as wood chips, shavings, bagasse, sawdust and similar compressible material. The **screw conveyor** comprises a casing having a bore which tapers conically from a material inlet and to a material outlet end. A **screw** feeder having helical flights and an intervening spiral groove rotates within the bore to advance the material fed into the casing towards the outlet end while being progressively compressed into a plug. The casing has an opening in which stopper means move in a closed circuit to successively engage the spiral groove during the rotation of the **screw** feeder, thereby preventing the material from rotating and thus allowing it to be continually advanced while being progressively compressed.

Inventors

REINHALL PER GUSTAF

Latest standardized assignees - inventors removed

REINHALL PER

Family 58/100 - FAMPAT - ©Questel

Title

(EP2367914)

Processing biomass

Images

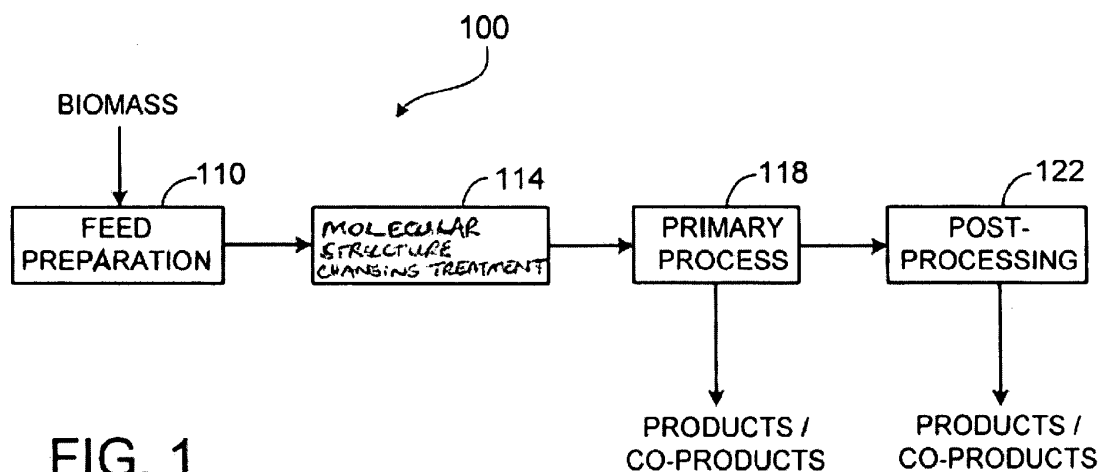


FIG. 1

Publication numbers with kind code & date

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CA2742117	C	2019-12-10	CA2742117
AU2017216450	B2	2019-11-28	AU2017216450
KR10-2033270	B1	2019-10-16	KR102033270
MX368242	B	2019-09-25	MX-368242
IN319160	B	2019-08-27	IN-319160
JP2018171621	A	2018-11-08	JP2018171621
NZ733342	A	2018-10-26	NZ-733342
SG10201807380V	A	2018-09-27	SG10201807380V
SG10201706191S	B	2018-09-16	SG10201706191S
IN201818014488	A	2018-09-07	IN201818014488
IN201818014489	A	2018-09-07	IN201818014489
IN201818014490	A	2018-09-07	IN201818014490
KR10-1880417	B1	2018-07-19	KR101880417
KR10-2018-0082644	A	2018-07-18	KR20180082644
KR10-2018-0018837	A	2018-02-21	KR20180018837
BRPI0921036	B1	2018-02-06	BR200921036
EA201790381	A3	2017-11-30	EA201790381
EA027923	B1	2017-09-29	EA--27923
SG10201706191S	A	2017-09-28	SG10201706191S
AU2017216450	A1	2017-08-31	AU2017216450
NZ722565	A	2017-08-25	NZ-722565
SG10201500273Q	B	2017-08-23	SG10201500273Q
EA201790381	A2	2017-07-31	EA201790381
AU2014271224	B2	2017-05-25	AU2014271224
KR10-1731575	B1	2017-04-28	KR101731575
KR10-2017-0045398	A	2017-04-26	KR20170045398
JP2016221519	A	2016-12-28	JP2016221519
AP3927	A	2016-12-15	AP---3927
JP6006341	B2	2016-10-12	JP6006341
NZ720201	A	2016-09-30	NZ-720201
AP2016009360	A0	2016-08-31	AP2016009360
MX340108	B	2016-06-27	MX-340108
CN105647979	A	2016-06-08	CN105647979
NZ713993	A	2016-05-27	NZ-713993
CN102216435	B	2016-02-03	CN102216435B
NZ708507	A	2016-01-29	NZ-708507



BRPI0921036	A2	2015-12-29	BR200921036				
IL236961	B	2015-10-29	IL-236961				
EA021829	B1	2015-09-30	EA--21829				
NZ620486	A	2015-08-28	NZ-620486				
EA201401308	A1	2015-07-30	EA201401308				
UA109030	C2	2015-07-10	UA-109030				
JP5745421	B2	2015-07-08	JP5745421				
JP2015096263	A	2015-05-21	JP2015096263				
SG10201500273Q	A	2015-03-30	SG10201500273Q				
IL212338	B	2015-02-26	IL-212338				
SG171744	B	2015-02-16	SG-171744				
AU2014271224	A1	2014-12-18	AU2014271224				
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NZ602359	A	2014-02-28	NZ-602359				
UA103211	C2	2013-09-25	UA-103211				
EP2367914	A4	2013-05-01	EP2367914				
NZ593093	A	2013-02-22	NZ-593093				
IN4565/DELNP/2011	A	2012-04-20	IN2011DN04565				
JP2012509163	A	2012-04-19	JP2012509163				
VN28501	A	2012-01-30	VN--28501				
MX2011005202	A	2012-01-12	MX2011005202				
EA201170701	A1	2011-12-30	EA201170701				
CN102216435	A	2011-10-12	CN102216435				
EP2367914	A2	2011-09-28	EP2367914				
KR10-2011-0095343	A	2011-08-24	KR20110095343				
SG171744	A1	2011-07-28	SG-171744				
AP2011005703	A0	2011-06-30	AP2011005703				
IL212338	A	2011-06-30	IL-212338				
WO2010/056940	A3	2010-07-22	WO201056940				
AU2009313950	A1	2010-05-20	AU2009313950				
CA2742117	A1	2010-05-20	CA2742117				
WO2010/056940	A2	2010-05-20	WO201056940				

Abstract

(EP2367914)

Methods are provided for changing a molecular structure of a biomass feedstock. The methods include a **screw** extrusion process.

Inventors

MEDOFF MARSHALL

Latest standardized assignees - inventors removed

XYLECO

Family 59/100 - FAMPAT - ©Questel

Title

(CN107619170)

Curing and drying treatment method of papermaking sludge

Publication numbers with kind code & date

CN107619170	B	2019-03-29	CN107619170B			
CN107619170	A	2018-01-23	CN107619170			

Abstract

(CN107619170)

The invention discloses a curing and drying treatment method of papermaking sludge. The method comprises the following

steps: pressure filtration pretreatment, in-pipe mixing, staged pressure filtration, extrusion pretreatment and mechanical extrusion dehydration. The method is simple in technology, low in equipment investment cost, simple in equipment maintenance and low in running cost; importantly, the water content of the sludge, subjected to curing and drying treatment, reaches 5-10%; the curing and drying treatment method is very good in dehydration effect and enables the sludge not to be compressed into solid blocks so as to provide convenience to the secondary use of the sludge; furthermore, secondary pollution is not caused in storage and transfer processes, and the treatment process is clean and free from pollution, so that the curing and drying treatment method of the papermaking sludge is energy-saving and environmentally-friendly.

Inventors

DU HANMIN

DU HANJIE

YU XINGBAO

HUANG QIZHI

XIONG GUOPING

WU RUSHUANG

LIU KAI

ZHENG MINGHUA

GUO ZHENG

Latest standardized assignees - inventors removed

DONGGUAN TAICHANG PAPER INDUSTRY

Family 60/100 - FAMPAT - ©Questel

Title

(EP2780158)

Screw press ii

Images

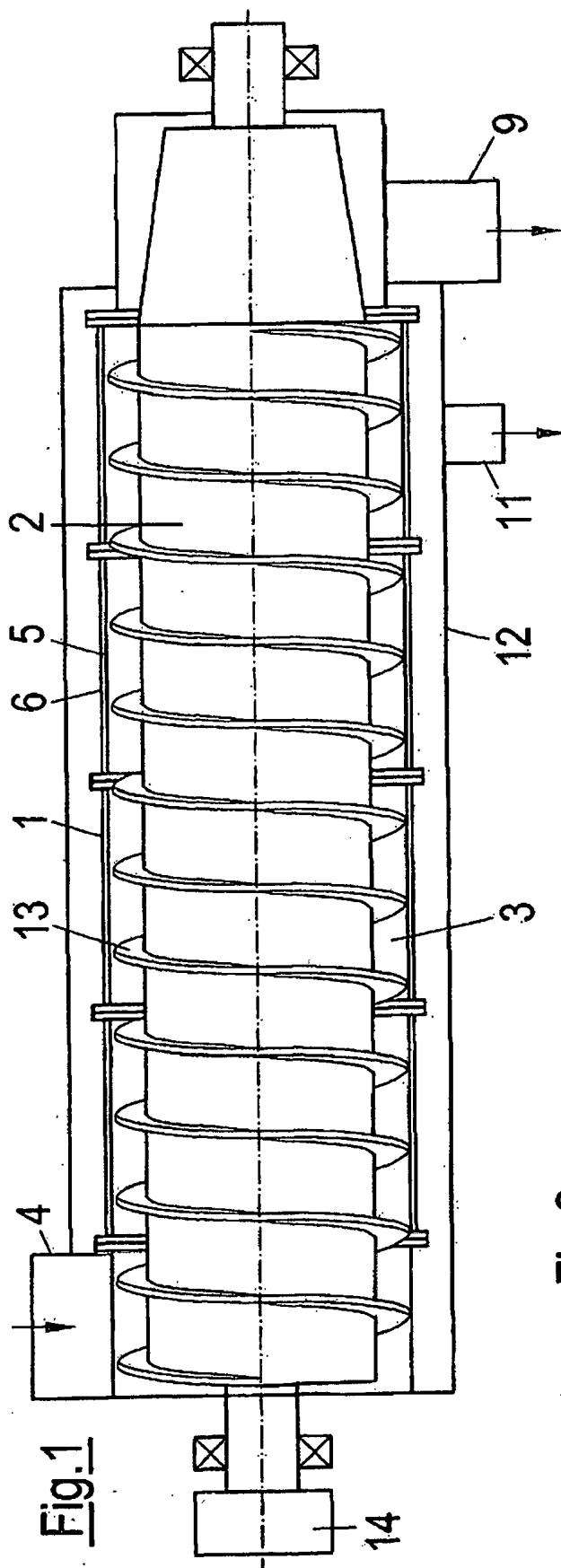
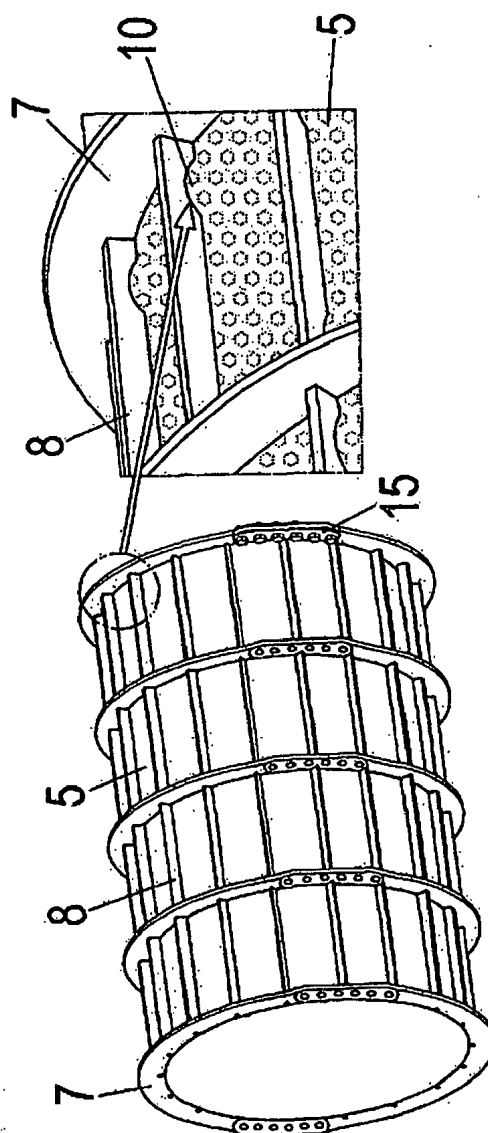


Fig. 2



Publication numbers with kind code & date

CN103958173

B 2017-02-22

CN103958173B

EP2780158

B1 2016-06-15

EP2780158

EP2780158

A1 2014-09-24

EP2780158

CN103958173

A 2014-07-30

CN103958173

WO2013/072081

A1 2013-05-23

WO201372081

Abstract



(EP2780158)

The invention relates to a **screw** press for separating liquids from a suspension, in particular a sludge or fibrous-material suspension, having at least one worm shaft (2) that rotates in a cylindrical casing (1), wherein the suspension is pressed through an annular gap (3) formed between the casing (1) and the worm shaft (2) from at least one inlet opening (4) to an outlet opening (9) and the casing (1) consists at least of a radially internal screen (5) and a radially external support body (6). In this case, high stability coupled with a weight of the support body (6) that is as low as possible is intended to be achieved without impairment of function in that the support body (6) is formed at least from a plurality of axially spaced-apart support rings (7) that are oriented perpendicularly to the axis, the support rings (7) are connected together via a plurality of axially extending support rods (8) that are arranged in a manner distributed around the circumference of the support rings (7), at least the support rods (8) are sectionally in contact with the screen (5) and at least a plurality of support rods (8) have cutouts (10) and/or apertures between these contact sections close to the screen (5).

Inventors

HEIM MARTIN

BREY ANDREAS

BADER JOHANNES

NUSSBAUMER MARKUS

Latest standardized assignees - inventors removed

VOITH

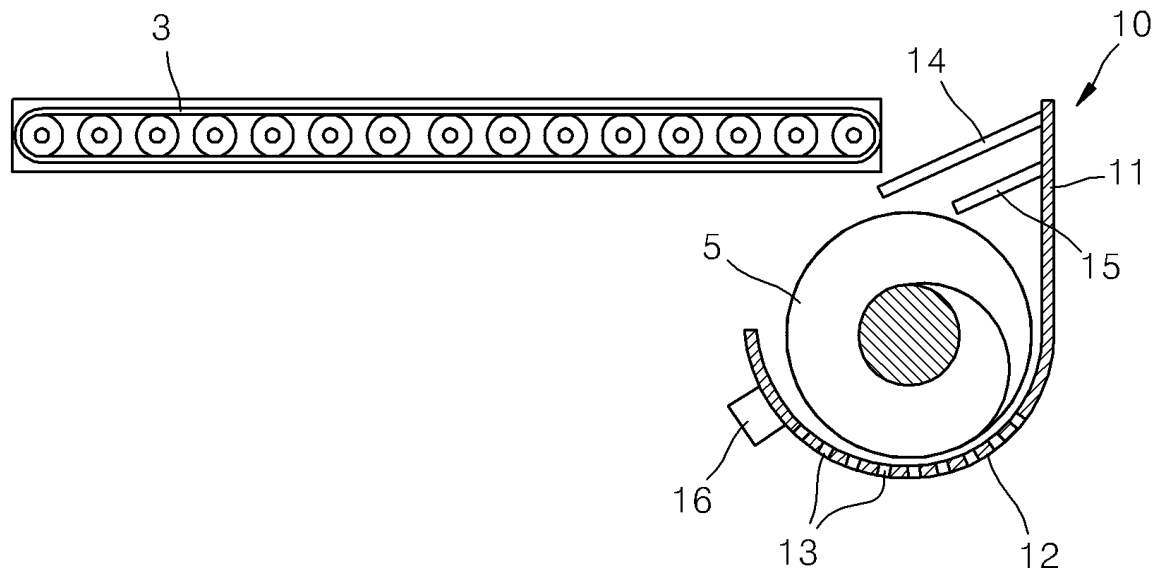
Family 61/100 - FAMPAT - ©Questel

Title

(KR101407093)

Screen apparatus for rpf system

Images



Publication numbers with kind code & date

KR10-1407093

B1 2014-06-13

KR101407093



Abstract

(KR10-1407093)

The present invention relates to a screen apparatus for a RPF system which includes an input unit (11) and a body part. The input unit (11) includes an input inlet (19) through which a raw material, provided from a raw material transfer conveyer belt (3), is inserted. The body part includes a transfer part (18) containing a **screw** conveyer (5) to transfer the raw material to a molding device. The input unit (11) includes a plurality of holes (13) formed on the lower side of the **screw** conveyer (5).

Inventors

PARK, HONG JU

AHN, KWAN-OK

KIM, Hyung Man

SO, BYUNG WOOK

Latest standardized assignees - inventors removed

PANASIA PAPER KOREA

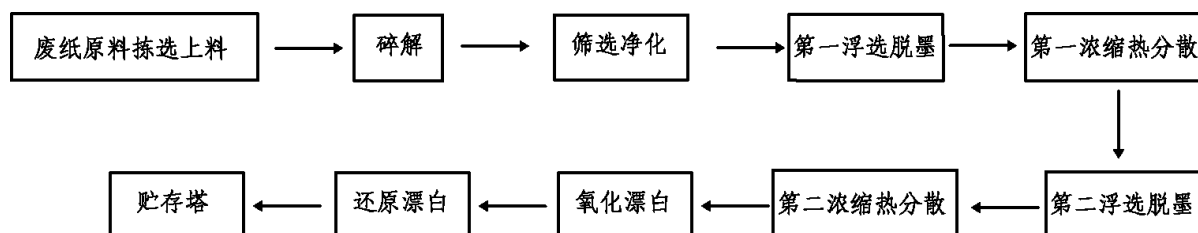
JEONJU ENERGY

Family 62/100 - FAMPAT - ©Questel

Title

(CN102677515B)

Process for preparing recovered pulp with high whiteness and high cleanliness

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

CN102677515	B	2014-08-27	CN102677515B
CN102677515	A	2012-09-19	CN102677515

**Abstract**

(CN102677515)

The patent refers to the field of 'production of cellulose by removing non-cellulose substances from cellulose-containing materials; regeneration of pulping liquors; apparatus therefor'. The invention relates to the technical field of papermaking raw material processing, in particular to a process for preparing recovered pulp with high whiteness and high cleanliness in a papermaking industry. The process comprises the following steps of: selecting and feeding of waste paper raw materials; disintegration; screening purification; first flotation deinking; first concentrated heat dispersion; second flotation deinking; second concentrated heat dispersion; oxidation bleaching; reduction bleaching; and storage in a storage tower. According to the process, 20-30 percent of high-quality office waste paper and 70-80 percent of other low-quality waste paper raw materials are matched, so that the cost of the waste paper raw materials is effectively reduced, and the corporate profit is increased. An advanced rotary drum pulper, a pulping machine and a production line of office waste paper screening purification, flotation deinking, concentrated heat dispersion and pulp bleaching are introduced, and the recovered pulp is prepared through the efficient use of chemicals and an effective production control process. The whiteness of the recovered secondary pulp achieves 90 percent ISO, and the cleanliness is high. The whiteness and the cleanliness of finished culture paper are increased.

Inventors

LIU MINGZHONG

LIN XINYANG

MING XING

SHAO ZHUMING

LIU XIANGXING

Latest standardized assignees - inventors removed

NINE DRAGON PAPER

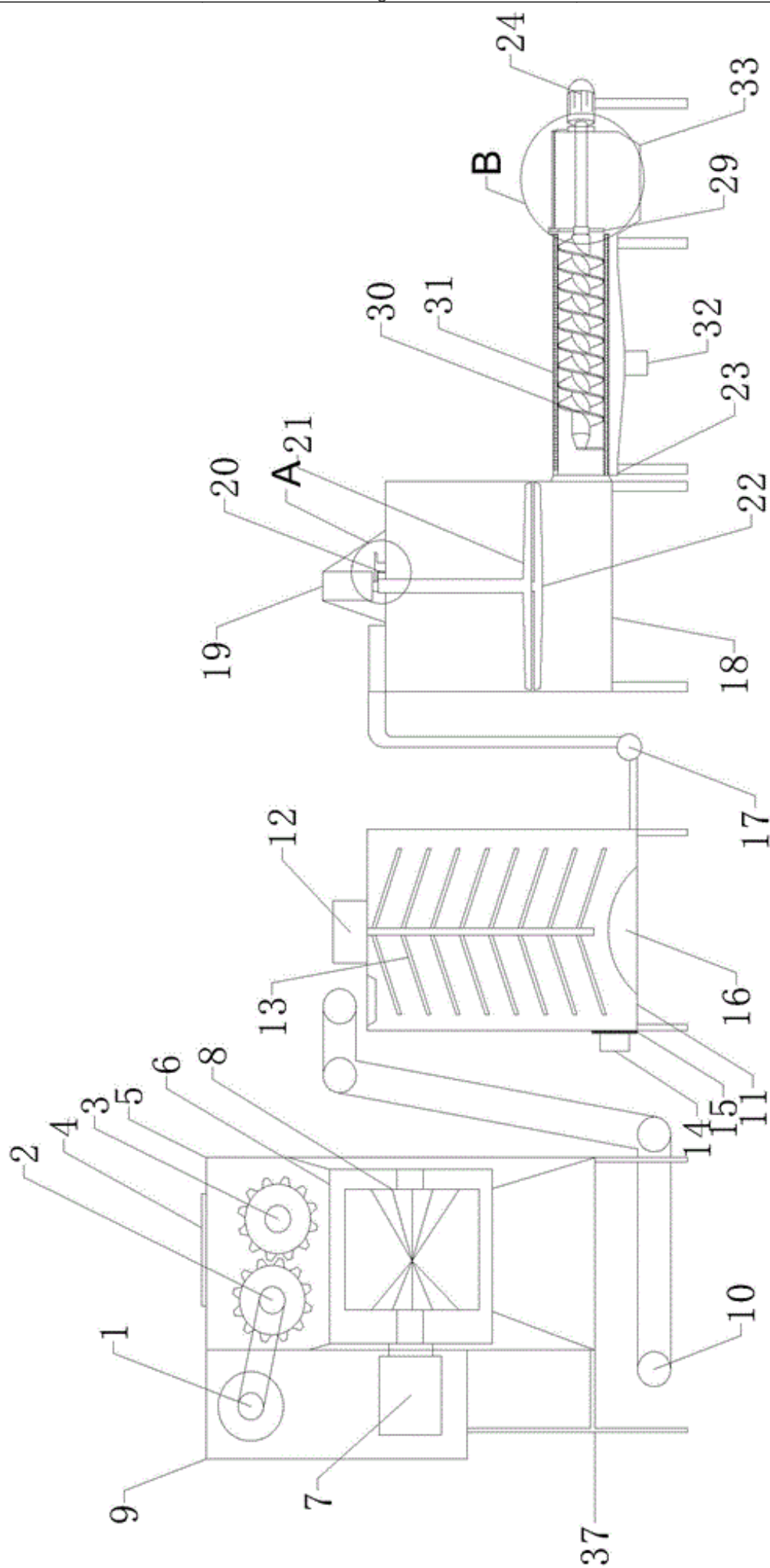
Family 63/100 - FAMPAT - ©Questel

Title

(CN112064417)

Toilet **paper** prepared from natural color bamboo pulp and processing technology thereof

Images



Publication numbers with kind code & date

CN112064417

A

2020-12-11

CN112064417

**Abstract**

(CN112064417)

The invention discloses toilet **paper** prepared from natural color bamboo pulp and a processing technology thereof, wherein the raw materials are screened according to the types of the raw materials, high-quality raw materials are selected and weighed according to the weight ratio, 40-50 parts of moso bamboo, 40-50 parts of hemp bamboo, 15-20 parts of shrub and 5-10 parts of grass are respectively put into clear water for soaking and cleaning, the raw materials prepared in the step one are respectively put into a crusher for processing, the raw material powder prepared in the step two is put into a heating stirrer for processing by a **conveyor**, a pump machine is started, pulp D in the stirrer box is conveyed into a pulp grinding box of a pulp grinder for grinding, fine bamboo pulp flows into a pulp extruding machine for pulping through a through hole, the problem that the existing **paper** is easy to break is solved, the tearing strength of the toilet **paper** is improved, the yield and the whiteness of the **paper** pulp are improved, and the produced toilet **paper** has no irritation or adverse reaction to human skin, is more environment-friendly and sanitary, and has no pollution to the environment.

Inventors

QIU XIAO

CHEN XIAOYAN

XIE YUANHONG

XIE YAJUN

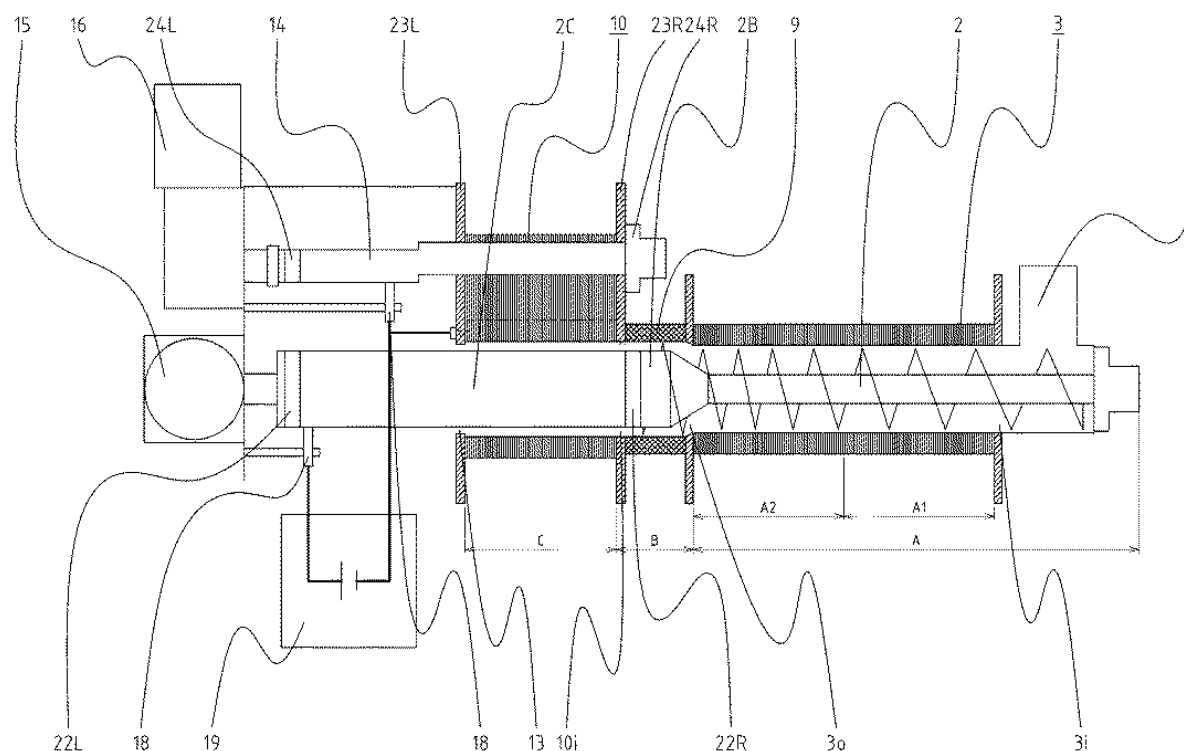
Latest standardized assignees - inventors removedSIXIAN SHUYI **PAPER** PRODUCTS

Family 64/100 - FAMPAT - ©Questel

Title

(JP2013022518)

Electroosmotic dewatering apparatus

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

JP5748587

B2

2015-07-15

JP5748587

JP2013022518

A

2013-02-04

JP2013022518

**Abstract**

(JP2013022518)

PROBLEM TO BE SOLVED: To provide an electroosmotic dewatering apparatus which can efficiently carry out dewatering to a low water content state even for bound water by hydrogen bond between molecules of an object substance which is difficult to be dewatered by conventional mechanical squeezing, scarcely breaks down, is excellent in the maintenance property, stably keeps electroosmotic function, and carries out even and sufficient electroosmosis without unevenness.

SOLUTION: The electroosmotic dewatering apparatus includes a non-electroosmotic part A in a front stage in which a throwing inlet 1 is opened; a non-electroosmotic part filter 3 in which a movable plate eccentrically rotated by a screw conveyer 2 is idly fitted; an electroosmotic part positive pole shaft 2C to which positive voltage is to be applied by sliding a contactor 18 from an anode of a d.c. power source apparatus 19 and which is idly fitted in the terminal part of the filter 3 through an insulating hollow cylinder 9 of an insulating part B; an electroosmotic part filter 10 which is eccentrically rotated while applying negative voltage to an electroosmotic part movable plate by eccentrically rotating operation of an eccentric shaft 14 to which negative voltage is to be applied by sliding the contactor 18 from a cathode of the apparatus 19; and an electroosmotic part C in a rear stage having the terminal end aperture part of the filter 10 as a discharge port 13.

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Inventors

YOSHIDA TAKASHI

SOGABE SATORU

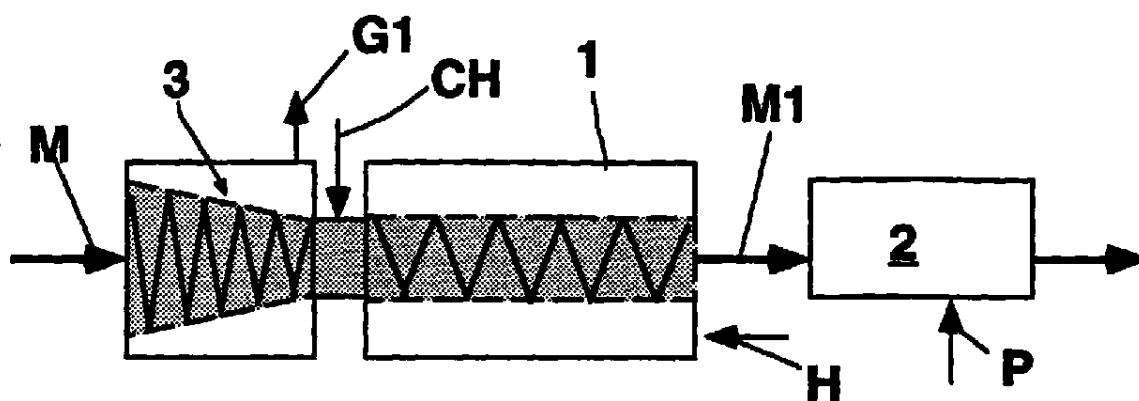
Latest standardized assignees - inventors removedTSURUMI **MANUFACTURING**

Family 65/100 - FAMPAT - ©Questel

Title

(EP-990733)

Method for killing germs in a material containing papermaking fibres and apparatus for applying the method

Images***Fig. 1*****Publication numbers with kind code & date**

DE59908351	D1	2004-02-26	DE59908351
AT258247	T	2004-02-15	ATE258247
EP0990733	B1	2004-01-21	EP-990733
DE19845513	A1	2000-04-06	DE19845513
EP0990733	A1	2000-04-05	EP-990733

**Abstract**

(EP0990733)

For the disinfection of used **paper** materials it is compressed to extract the residual air for intensive heating followed by dispersion with added chemicals if required

To destroy germs in materials containing **paper** fibers, the infected material (M) is initially degassed virtually completely. It is then heated (1) intensively at least at 80 degrees C, followed by dispersion (2). For special handling, chemical additives

(CH) are introduced into the process. The material (M) has a residual air content of ≤ 1 vol% before or during the heating stage (1).

The degassing is to give a pref. residual air content in the material (M) of ≤ 0.1 vol%. The material (M) is compressed (3) without affecting its water content, at least to a **compression** stage where the gas-filled hollow zones take in the residual air content. Or the **compression** changes the water content to give it a solid content of $\geq 15\%$ and pref. 20-35% with a resulting air extraction, directly followed by heating (1). Before or during heating, the compressed material (M) is loosened and flushed with vapor and pref. steam, which also raises the material temp. The steam flow is against the direction of material (M) travel. After the compressed material (M) has been expanded and/or loosened, it is heated to at least 120 degrees C, and held in a stack or a flow path for a dwell time of at least 2 secs. at 120 degrees C. The material is dispersed (2) or kneaded, directly after the heating stage (1). In preparation for the heating stage (1), the material (1) is mixed with peroxide at a level of at least 4% of the material dry content. The heating is applied without the use of reduction chemicals. The material (M) has a solid content of 15-80 mass%, mainly of used **paper**. An Independent claim is included for an appts. with a **compression** stage connected directly to the heating stage, to **feed** compressed material plugs into the heater. The heating stage has a gas exhaust, and a steam flushing system using steam from the exhaust.

Inventors

DOCKAL-BAUR JUERGEN

SELDER HARALD

HOLIK HERBERT

Latest standardized assignees - inventors removed

VOITH **PAPER**

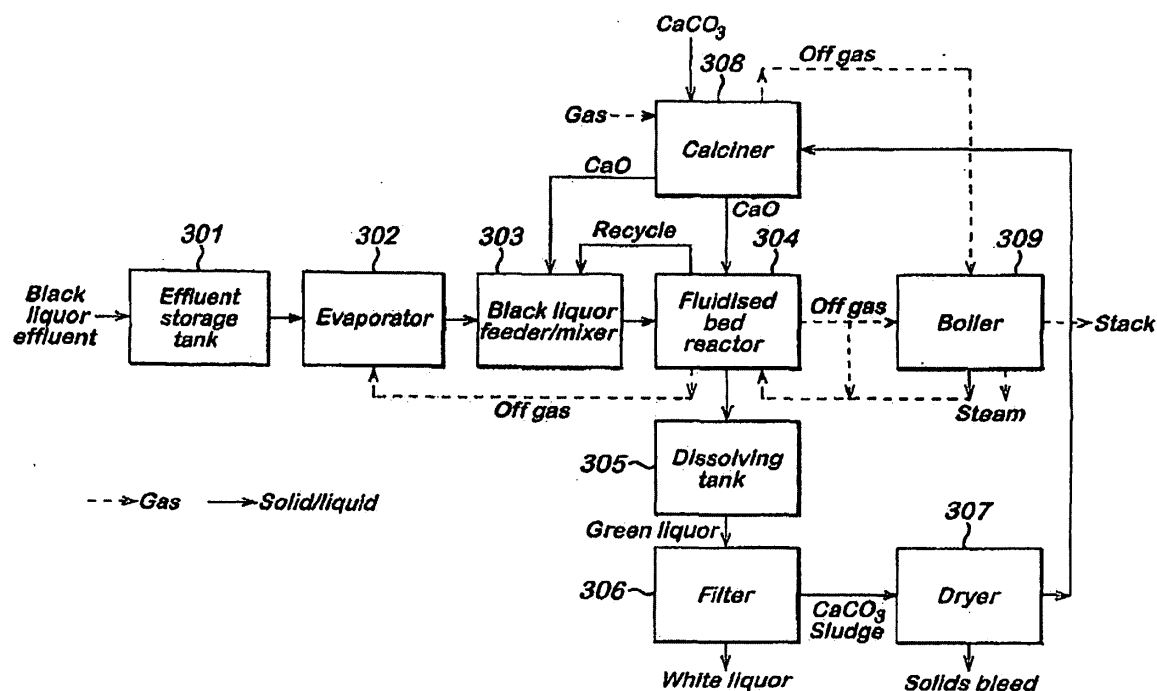
Family 66/100 - FAMPAT - ©Questel

Title

(EP1448845)

Production of pulp from cellulosic fibrous raw materials and recovery of chemicals and energy from pulp liquors

Images

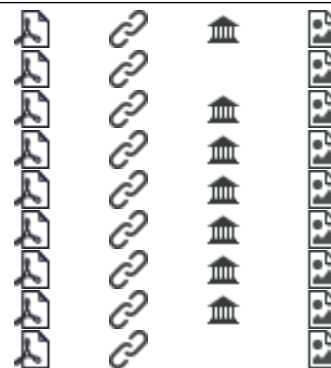


Publication numbers with kind code & date

IN241624	B	2010-07-23	IN-241624
RU2342477	C2	2008-12-27	RU2342477
CN1313195	C	2007-05-02	CN1313195C
IN0245/DELNP/2004	A	2006-03-10	IN2004DN00245



CN1636091	A	2005-07-06	CN1636091
RU2004106616	A	2005-02-27	RU2004106616
EP1448845	A2	2004-08-25	EP1448845
US20040154760	A1	2004-08-12	US20040154760
WO03/014467	A3	2004-04-22	WO200314467
AU2002313544	A1	2003-02-24	AU2002313544
CA2455187	A1	2003-02-20	CA2455187
WO03/014467	A2	2003-02-20	WO200314467
GB0119237	D0	2001-10-03	GB200119237



Abstract

(EP1448845)

The invention includes a treatment apparatus (10) for treating fibrous cellulosic raw material suitable for use in a **paper** making plant comprising extracting means for extracting contrary material from the raw material, crushing means for crushing the raw material to remove nodes therefrom and splitting means for splitting the crushed raw material lengthways. A co-rotating twin **screw conveyor** (12) is used to pulp the crushed material, the **conveyor** being divided up into a plurality of zones, means for inserting treatment materials into at least one zone and means for controlling the temperature and/or pressure of all of the zones. The black liquor effluent produced in the pulping process is treated in an apparatus (14) comprising an evaporator for concentrating the liquor to 30-70 % solids, a processing vessel for treating the concentrated liquor at a temperature of between 300-650 DEG C, and a closed **conveyor** for transporting the concentrated liquor from the evaporator to the processing vessel in excess of 90 DEG C. The invention also includes the method involved in using the above apparatus.

Inventors

DEAN TREVOR

Latest standardized assignees - inventors removed

BIOREGIONAL MINIMILLS

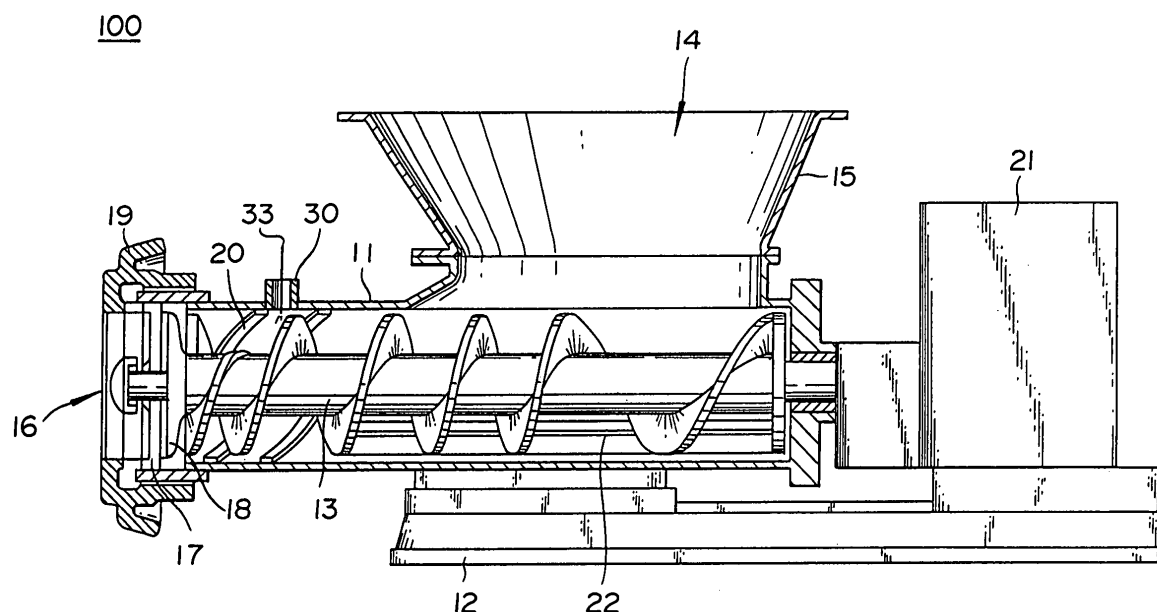
Family 67/100 - FAMPAT - ©Questel

Title

(EP1470905)

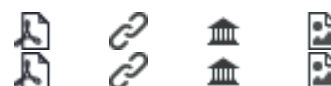
Method for disintegrating hydrate polymer

Images



Publication numbers with kind code & date

DE602004030970	D1	2011-02-24	DE602004030970
EP1470905	B1	2011-01-12	EP1470905



US7694900	B2	2010-04-13	US7694900				
JP4351111	B2	2009-10-28	JP4351111				
CN100421898	C	2008-10-01	CN100421898C				
SA2092	B1	2008-09-10	SA---2092				
CN1569431	A	2005-01-26	CN1569431				
JP2004339502	A	2004-12-02	JP2004339502				
BRPI0401479	A	2004-11-30	BR200401479				
US20040234607	A1	2004-11-25	US20040234607				
EP1470905	A1	2004-10-27	EP1470905				
BRPI0401479	A1	2004-07-13	BR200401479				

Abstract

(EP1470905)

A method for disintegrating a hydrate polymer characterized by disintegrating a hydrate polymer having a solid content in the range of 50 - 70 wt. % with a **screw extruder** while supplying 0.1 - 30 parts by weight of water per 100 parts by weight of the polymer to the **extruder**. Since the product of disintegration is prevented from inducing mutual adhesion, it does not form masses of conglomeration when it is dried.

Inventors

IRIE YOSHIO

DAIROKU YORIMICHI

FUJITA YASUHIRO

TADA KENJI

SHIBATA HIROFUMI

Latest standardized assignees - inventors removed

NIPPON SHOKUBAI

Family 68/100 - FAMPAT - ©Questel

Title

(CN201485749U)

Wet process **feed** preparation equipment for grass fiber raw materials and roller type grass washing machine thereof

Images

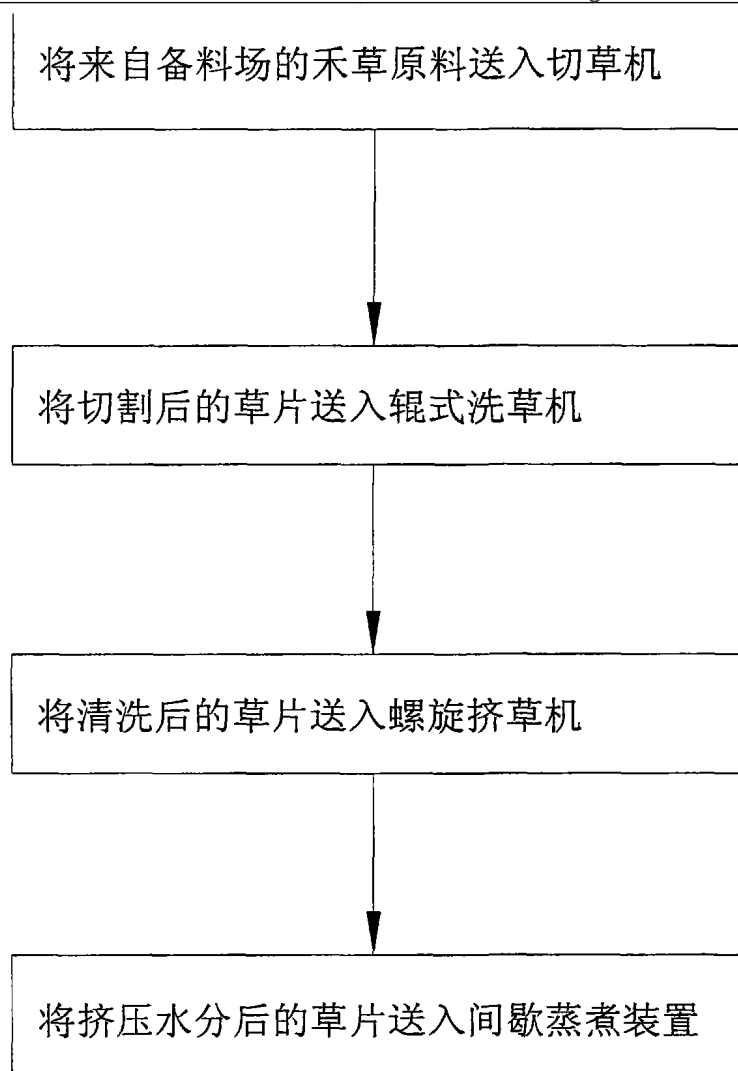


图 1

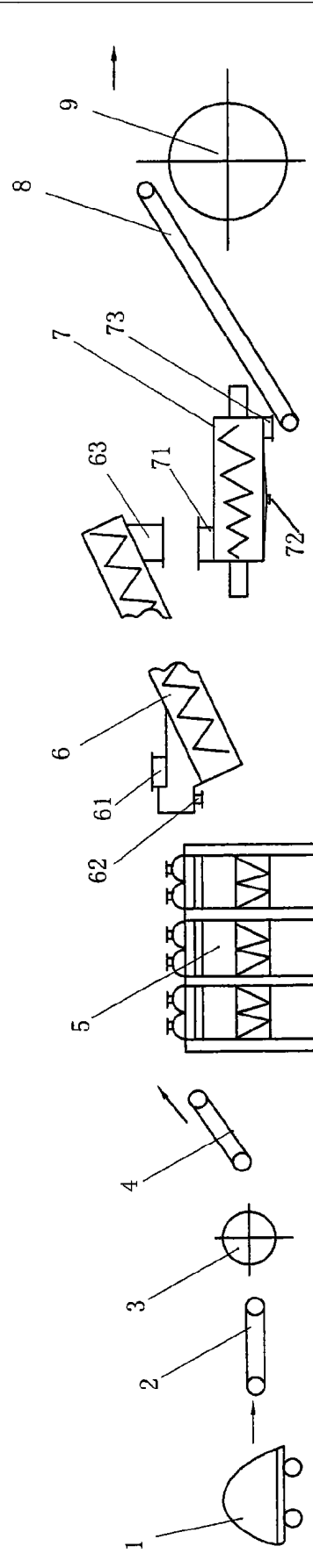


图 2

The utility model provides wet process **feed** preparation equipment for grass fiber raw materials, which is sequentially provided with a grass cutter, a roller type grass washing machine, a spiral grass **extruder** and an intermittent boiling device. The roller type grass washing machine comprises a water tank which is filled with water; the bottom of the water tank is conical, and two ends of the water tank are provided with a **feed** inlet and a discharge outlet respectively; a plurality of cleat rollers are sequentially arranged in parallel and at intervals on the upper part of the water tank along a vertical direction of a connection line of the **feed** inlet and the discharge outlet, and a plurality of the cleat rollers are arranged in the same horizontal plane; and the bottom of the water tank is provided with an automatic blowdown system capable of discharging impurities. The wet process **feed** preparation equipment adopts the roller type grass washing machine to wash dusts on the surface of the grass and remove a large amount of the dust, gravels and heavy impurities in the grass, so the method can effectively remove the various impurities in the grass raw material to keep high cleanliness of raw material, stabilize and improve the quality of **paper** pulp, improve the operating environment in a factory and ensure the safety of consequent devices; and the equipment has the advantages of reasonable allocation, stable running, good quality of finished pulp and simple operation.

Inventors

ZHANG SHUANJIANG

LI ZHENJIANG

ZHOU HUI

Latest standardized assignees - inventors removedBEIJING JINGCHENG XINXING **PAPER** ENGINEERING TECHNOLOGY

Family 69/100 - FAMPAT - ©Questel

Title

(FR2922141)

Recycling of polyolefin film waste previously shredded, crushed, and fragmented, useful to obtain granules to prepare formulations, comprises compressing waste fragment, extruding, **compression** melting, filtrating the fragmented wastes

Publication numbers with kind code & date[FR2922141](#)

A1

2009-04-17

FR2922141

**Abstract**

(FR2922141)

Recycling of polyolefin film waste previously shredded, crushed, and fragmented, comprises (a) compressing waste fragments by incorporating powder fillers, (b) extruding, **compression** melting, and filtrating the fragmented wastes in mono **screw extruder**, where in a step (d) the extruded and filtered material obtained from mono **screw extruder** is introduced in melted condition in a twin-**screw extruder** mixed with powder filler and is subjected to a degassing and a second filtration before granulating.

(From FR2922141 A1)

Inventors

PLEYNET DANIEL

Latest standardized assignees - inventors removed

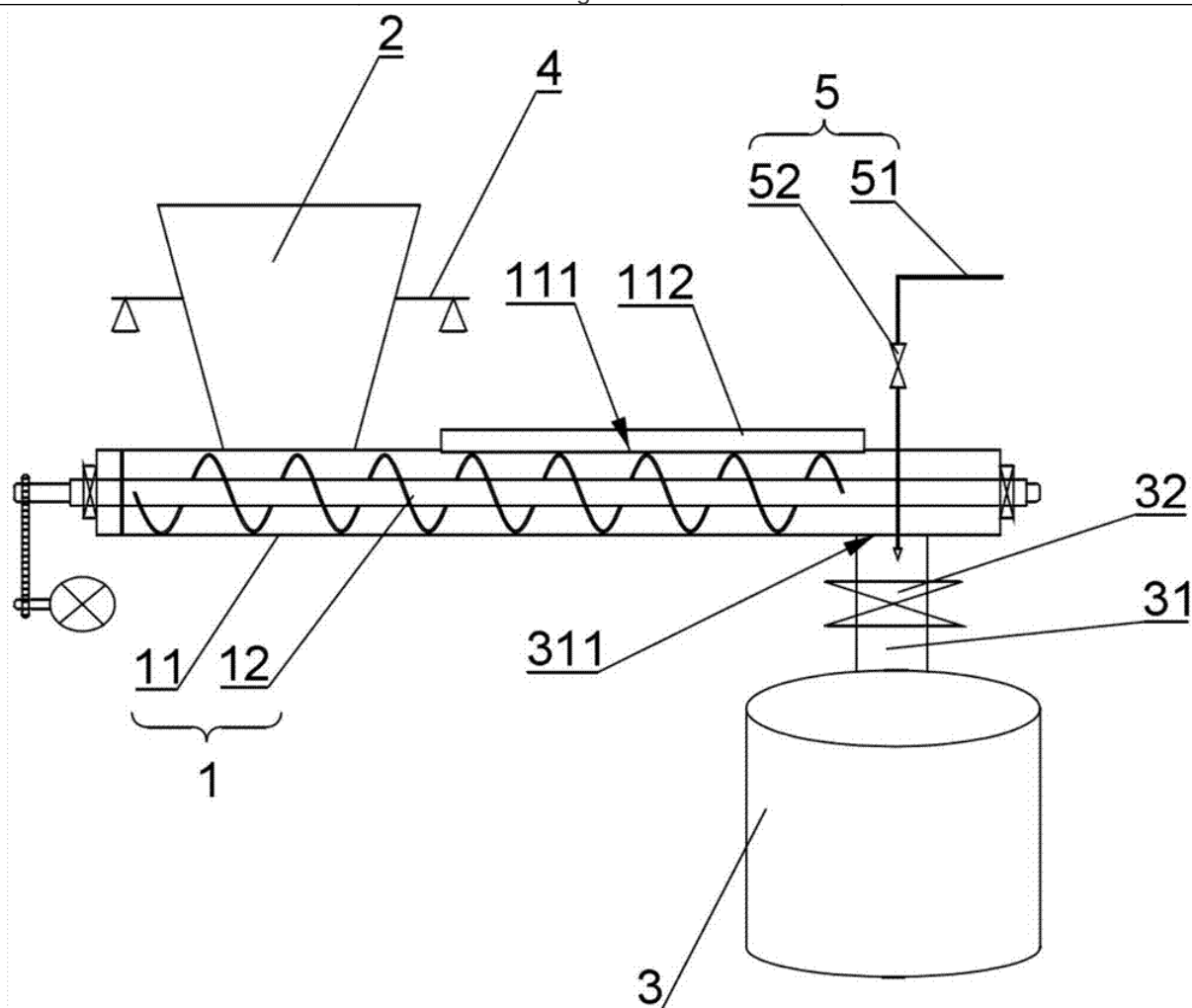
MPR POLYMERS SOC PAR ACTIONS S

Family 70/100 - FAMPAT - ©Questel

Title

(CN109399245)

Screw conveying system**Images**



Publication numbers with kind code & date

CN109399245

A

2019-03-01

CN109399245



Abstract

(CN109399245)

The invention relates to the technical field of conveying equipment, and discloses a **screw** conveying system. The **screw** conveying system comprises a **screw** conveying device, a feeding bin and a preparation device wherein a feeding port of the **screw** conveying device is communicated with the feeding bin, a discharge port is communicated with an inlet of the preparation device, and opening structure is arranged on the **screw** conveying device. The **screw** conveying system further comprises a weighing device where the feeding bin is arranged, and a gas inlet device which is communicated with the inlet of the preparation device and is used for introducing gas into the preparation device. According to the **screw** conveying system, the **screw** conveying device can be cleaned by arranging the opening structure on the **screw** conveying device, the gas inlet device is communicated with the inlet of the preparation device, and a gas curtain is formed by introducing the gas into the preparation device, so that the discharge port of the **screw** conveying device is effectively prevented from being blocked due to rising of wet hot gas in the preparation device; and the weighing device can be used to control feeding amount of the feeding bin accurately.

Inventors

ZHANG YIAN

YU BO

ZHANG RONGYONG

LIU WENJUN

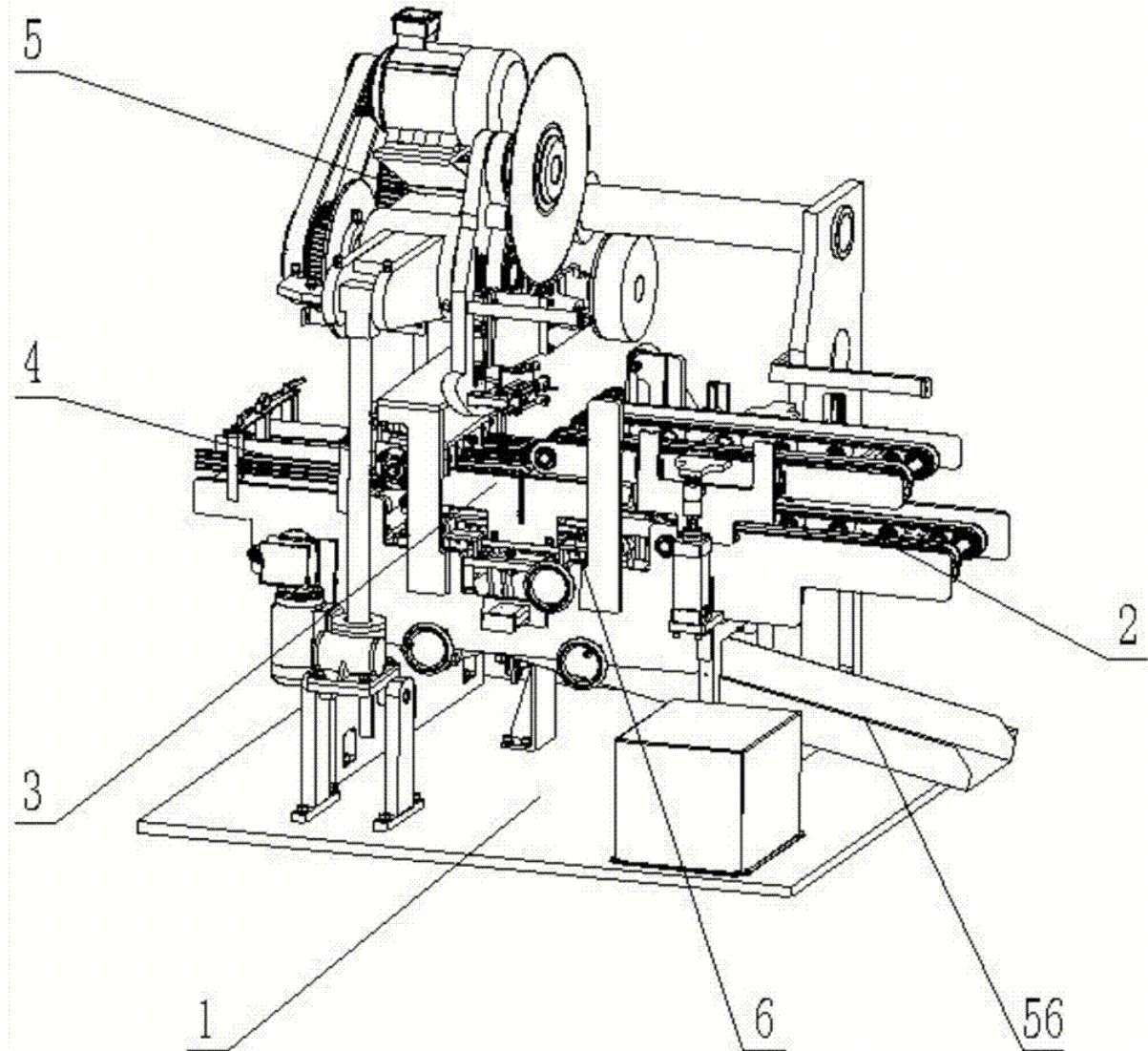
Latest standardized assignees - inventors removed

NINE DRAGONS **PAPER** INDUSTRIES

Family 71/100 - FAMPAT - ©Questel

Title

(CN208005765U)

Paper cutter circles round greatly**Images****Publication numbers with kind code & date**

CN208005765

U

2018-10-26

CN208005765U

**Abstract**

(CN208005765)

The utility model discloses a **paper** cutter circles round greatly, including the organism, set up on the organism **feed** arrangement that sets gradually along **feed** direction, form advance embrace press from both sides a device, **paper** outlet device, setting form advance embrace the **paper** cutting device who presss from both sides the device top and set up form advancing embrace press from both sides the device below move back the **paper** device, the utility model discloses the **paper** cutting device that circles round greatly for press from both sides **paper**, form advance, cut **paper** and move back the high integrated all -in -one of **paper**, simple structure is compact, applicable stock form in different diameters is embraced and is pressed from both sides the cut **paper**, need not to change to embrace to press from both sides a mould, whole process does not need artifical the participation, has saved the manpower, the cost is reduced has improved production efficiency.

Inventors

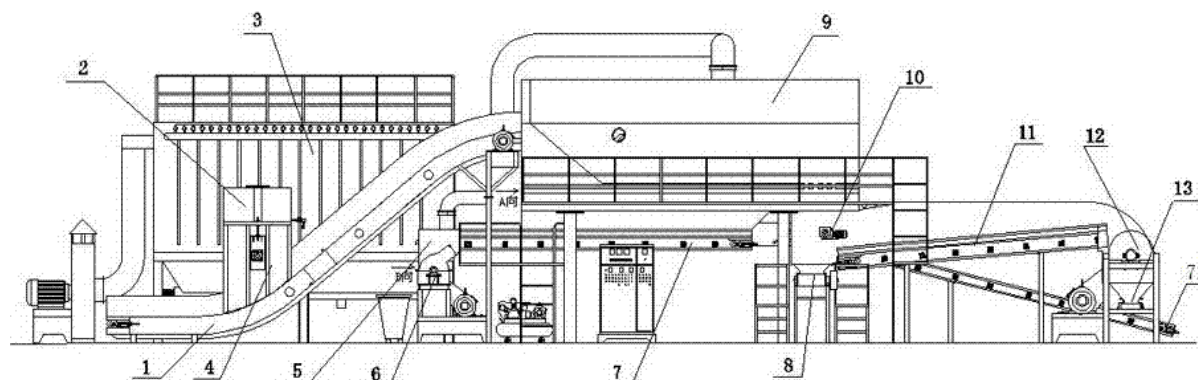
HAN YUDONG

Latest standardized assignees - inventors removedBAODING CHENGXIN **PAPER**

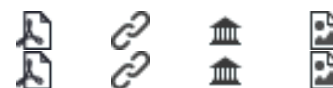
Title

(CN105921494)

Domestic rubbish disposal system

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

CN105921494	B	2018-11-23	CN105921494B
CN105921494	A	2016-09-07	CN105921494

**Abstract**

(CN105921494)

The invention discloses a domestic rubbish disposal system. A plate feeder feeds materials to a roller screening machine through a material uniformizing device. Light rubbish and heavy rubbish are separated out from oversize matter on the roller screening machine through a negative-pressure winnowing machine, the heavy rubbish passes a magnetic separation conveying machine and then enters a building rubbish breaking machine to be smashed, the light rubbish is conveyed to a bag breaking machine through a bin type conveyor to be subjected to bag breaking, the rubbish matter with the diameter being larger than the sieve pore diameter forms oversize mixtures, and undersize matter with the diameter being smaller than the sieve pore diameter is conveyed to a material grinding mill to be smashed; and undersize matter on the roller screening machine enters the material grinding mill to be smashed and broken up, the smashed undersize rubbish enters a light-weight roller screening machine to be classified into small blocks of oversize mixtures and undersize muck, and the undersize muck serves as a raw material for manufacturing environmental-friendly fertilizer or a paving base material to be output. By the adoption of the domestic rubbish disposal system, the type of sorted materials is subdivided, the recycling rate of materials of the sorted plastic, building rubbish, muck, waste batteries, glass and the like is high, and the domestic rubbish disposal system can be used for disposal of other rubbish and is more suitable for disposal of rural domestic rubbish.

Inventors

LIU ZHIMENG

Latest standardized assignees - inventors removed

HEBEI GLORY ENVIRONMENTAL PROTECTION EQUIPMENT MANUFACTURING

Family 73/100 - FAMPAT - ©Questel

Title

(CN101451324B)

Pulp and black liquor prepared by grass type raw material, preparation method and use thereof

Images

	本发明产量 (kg/亩)	对照组产量 (kg/亩)	增产百分比
第一季	427.38	414.82	3.0
第二季	424.56	409.05	3.8
第三季	440.32	413.08	6.6
第四季	409.13	392.52	4.2

Publication numbers with kind code & date

CN101451324	B	2013-03-27	CN101451324B
CN101451324	A	2009-06-10	CN101451324

**Abstract**

(CN101451324)

The invention relates to unbleached pulp prepared by the ammonium sulfite cooking of a rice straw raw material and a preparation method thereof. The whiteness of the unbleached pulp is 35 to 48 percent ISO, the fracture length is between 5.0 and 7.5km, the tearability is between 200 and 275mN, and the folding times are between 30 and 100. The method comprises the steps of ammonium sulfite cooking and oxygen delignification, wherein the ammonium sulfite cooking is to cook the raw material into the pulp the harness of which has a potassium permanganate value of between 16 and 28 and is equivalent to a Kappa number of between 24 and 50. The unbleached pulp has higher strength, particularly has the fracture length and the folding times which exceed the level of hardwood pulp, can be used for manufacturing corrugated paper, lunch boxes, and packing paper which have quite high strength, or is applied to manufacturing other paper products more widely only by adding little wood pulp, greatly reduces the cost for products, and also ensures the strength of the products. The method can ensure that lignin is effectively removed and also try to reduce the degradation of fiber, thereby obtaining the unbleached pulp with good strength.

Inventors

LI HONGFA

SONG JIANJUN

SONG MINGXIN

CHEN SONGTAO

YANG JIHUI

BI YANJIN

WANG WANLEI

ZHAO SHUJING

GUO LIANGJIN

Latest standardized assignees - inventors removed

SHANDONG FUYIN PAPER MAKING ENVIRONMENTAL PROTECTI

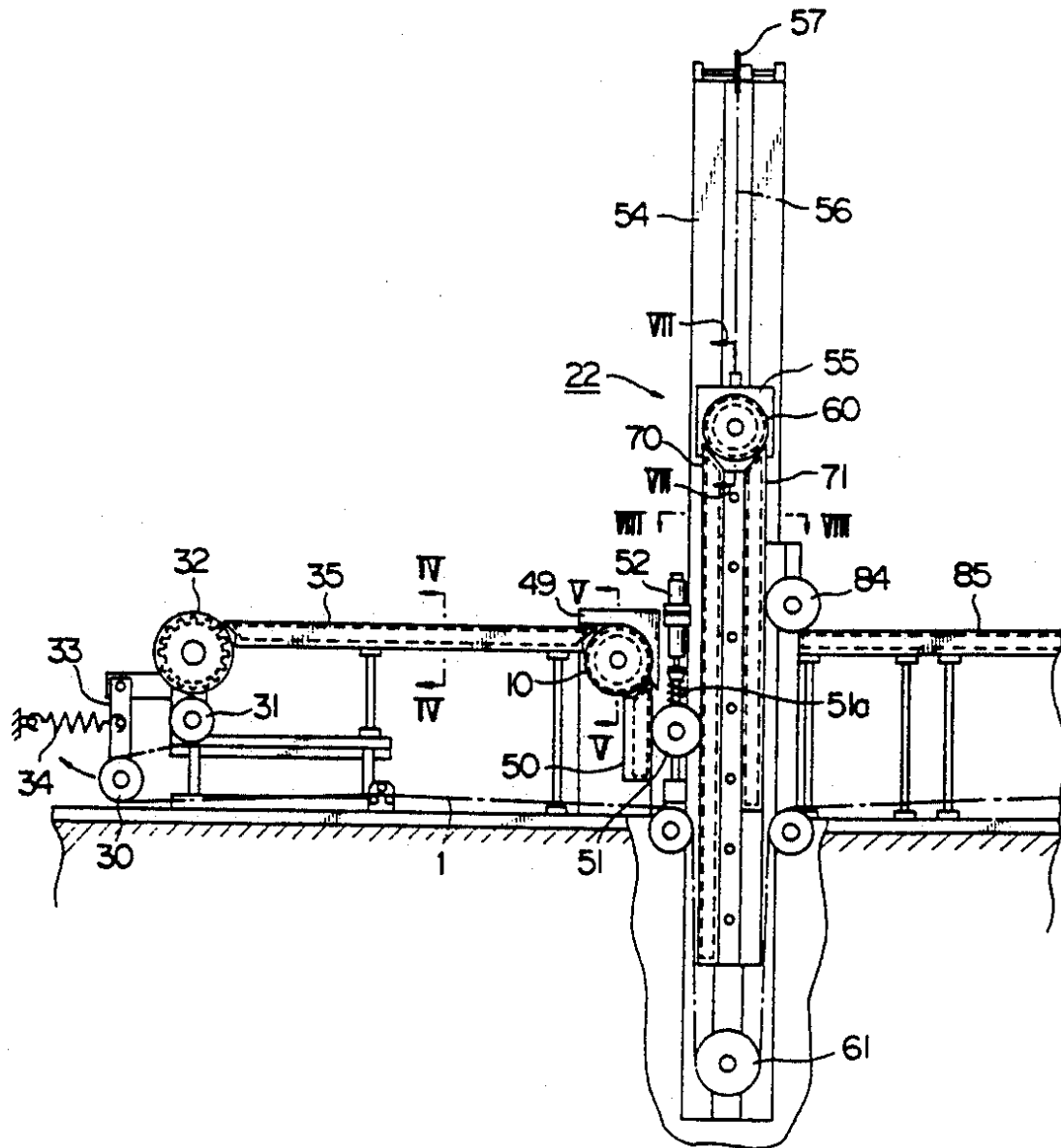
Family 74/100 - FAMPAT - ©Questel

Title

(US5299681)

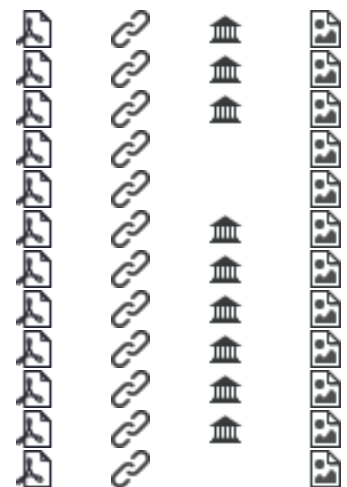
Conveyor equipment

Images



Publication numbers with kind code & date

JP2976045	B2	1999-11-10	JP2976045
JP2920711	B2	1999-07-19	JP2920711
DE4214384	C2	1996-07-11	DE4214384
SG23876	G	1995-12-15	SG--23876
SG23877	G	1995-12-15	SG--23877
GB2256841	B	1995-07-19	GB2256841
US5299681	A	1994-04-05	US5299681
JP05132118	A	1993-05-28	JP05132118
GB2256841	A	1992-12-23	GB2256841
JP04327420	A	1992-11-17	JP04327420
DE4214384	A1	1992-11-05	DE4214384
GB9209314	D0	1992-06-17	GB9209314



Abstract

(US5299681)

Retainer grooves are formed widthwise at a constant pitch on the external surface of a timing belt to retain the lead terminals of an electronic component therein. A magnet is mounted to a rail for guiding the timing belt to attract the lead terminals of the electronic component to the retainer grooves. The electronic component can be prevented from falling off or being displaced due to an inertia force generated at the time of intermittent feed so as to be stably conveyed not only

horizontally but also in vertical or circular arc directions.

Inventors

KADONO NOBUAKI

KUGO DAISAKU

KAJIWARA MASATOSHI

YAMAKAWA RYUJI

Latest standardized assignees - inventors removed

MURATA **MANUFACTURING**

Family 75/100 - FAMPAT - ©Questel

Title

(EP-845933)

Circuit-substrate-**conveyor** system

Images

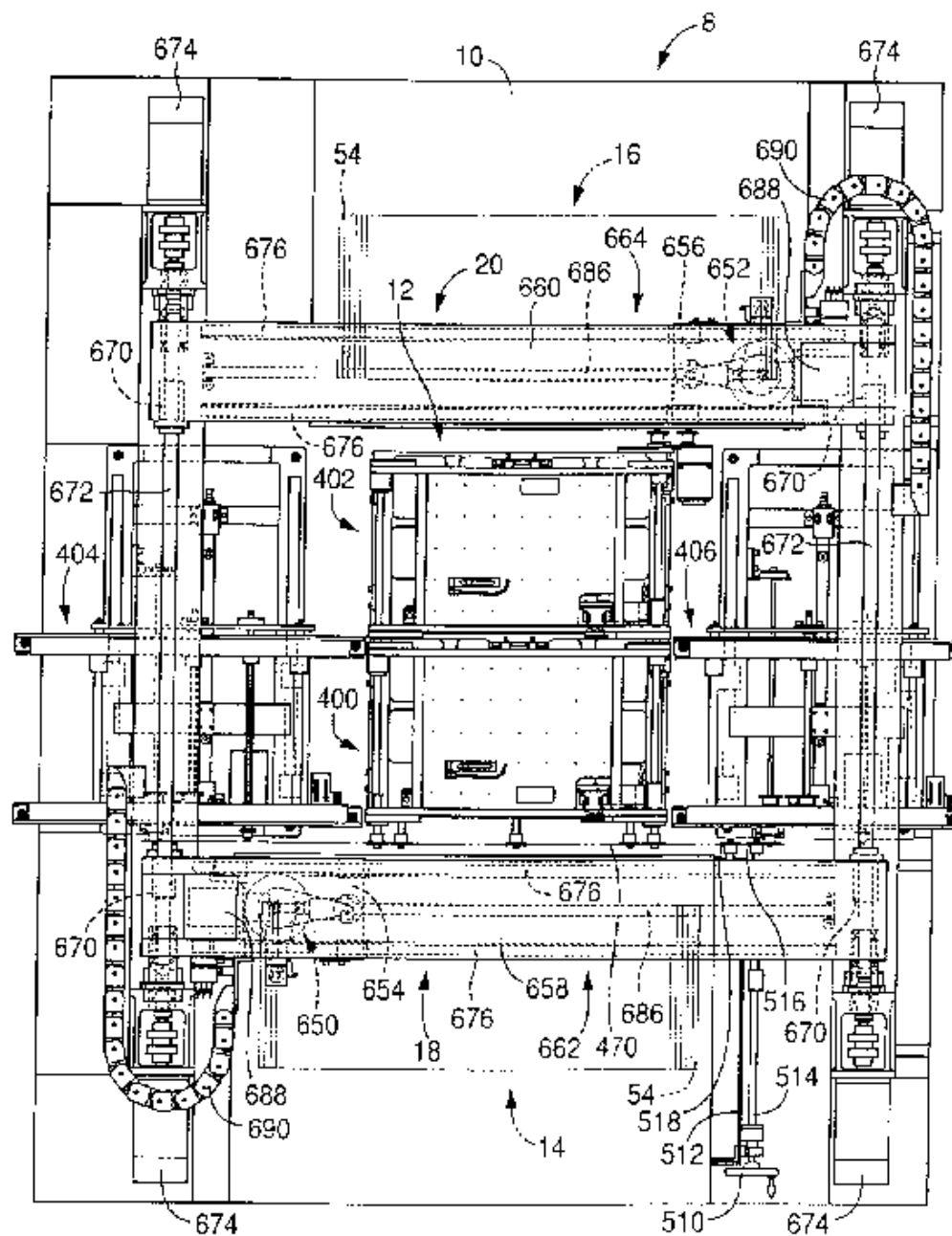
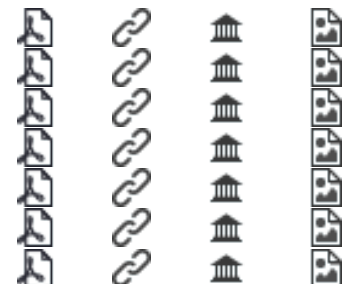


FIG. 1

Publication numbers with kind code & date

JP4162741	B2	2008-10-08	JP4162741
US6378198	B1	2002-04-30	US6378198
US20020000359	A1	2002-01-03	US20020000359
US6073342	A	2000-06-13	US6073342
EP0845933	A3	1999-03-10	EP-845933
JP10212023	A	1998-08-11	JP10212023
EP0845933	A2	1998-06-03	EP-845933



Abstract

(EP0845933)

A system (6) for performing an operation for a circuit substrate (408), including a plurality of main conveyors (400, 402) each of which conveys, positions, and supports a circuit substrate, the plurality of main conveyors being arranged in a

direction perpendicular to a circuit-substrate conveying direction in which the each main **conveyor** conveys the circuit substrate, an operation performing device (18, 20) which performs at least one operation for the circuit substrate positioned and supported by the each main **conveyor**, at least one of (a) a carry-in **conveyor** (404) which conveys the circuit substrate to the each main **conveyor** and loads the circuit substrate thereon, and (b) a carry-out **conveyor** (406) which loads the circuit substrate off the each main **conveyor** and conveys the circuit substrate away therefrom, and a **conveyor** shifting device (438, 508) which selectively shifts the at least one of the carry-in **conveyor** and the carry-out **conveyor** to one of a plurality of shift positions at each of which the one **conveyor** is aligned with a corresponding one of the main conveyors.

<IMAGE>

Inventors

ASAI KOICHI

SUHARA SHINSUKE

IKEGAMI HIROKAZU

Latest standardized assignees - inventors removedFUJI MACHINE **MANUFACTURING**

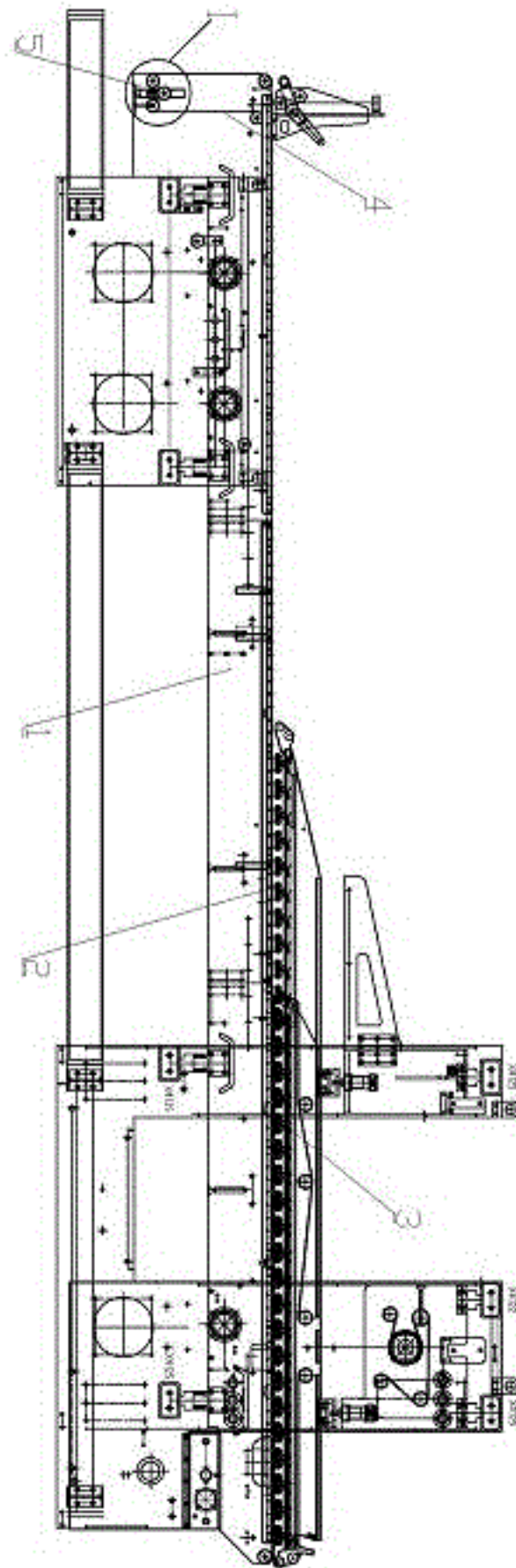
Family 76/100 - FAMPAT - ©Questel

Title

(CN210944039U)

Folding device of double-channel three-dimensional splicing box gluing machine

Images

**Publication numbers with kind code & date**[CN210944039](#)

U

2020-07-07

CN210944039U

**Abstract**

(CN210944039)

The utility model discloses a folding device of a double-channel three-dimensional splicing box sticking machine, which comprises a folding machine base, and a folding **paper** feeding upper assembly and a folding **paper** feeding lower assembly

are arranged on the folding machine base; the lower folding **paper** feeding assembly comprises a folding **paper** feeding conveying belt, elastic layers are embedded in the folding **paper** feeding conveying belt at intervals, and the elastic layers are covered with anti-skid layers in an adhesive mode. A conveying belt tensioning and deviation rectifying mechanism is arranged at one end of the folding **paper** feeding conveying belt. The conveying belt tensioning and deviation rectifying mechanism comprises a transition wheel, a tensioning wheel and a deviation rectifying wheel, the folding **paper** feeding conveying belt sequentially wraps the transition wheel, the tensioning wheel and the deviation rectifying wheel, the tensioning wheel is supported on a tensioning sliding seat in a rotating mode, the tensioning sliding seat is supported on a tensioning wheel seat in a sliding mode, and a tensioning **compression** spring is supported between the tensioning sliding seat and the tensioning wheel seat. Deviation rectifying air cylinders are arranged on the two sides of the deviation rectifying wheel, and the deviation rectifying wheel is rotationally supported on the deviation rectifying air cylinders. According to the folding device, the conveying belt can be corrected and tensioned in real time, paperboards are conveyed accurately, and the folding precision is high.

Inventors

PANG CHUNHUA

GAN LANG

GE BIN

CUI DAOXUE

LUO HONGGEN

Latest standardized assignees - inventors removed

SHANGHAI XUHENG PRECISION MACHINERY **MANUFACTURING** DONGTAI

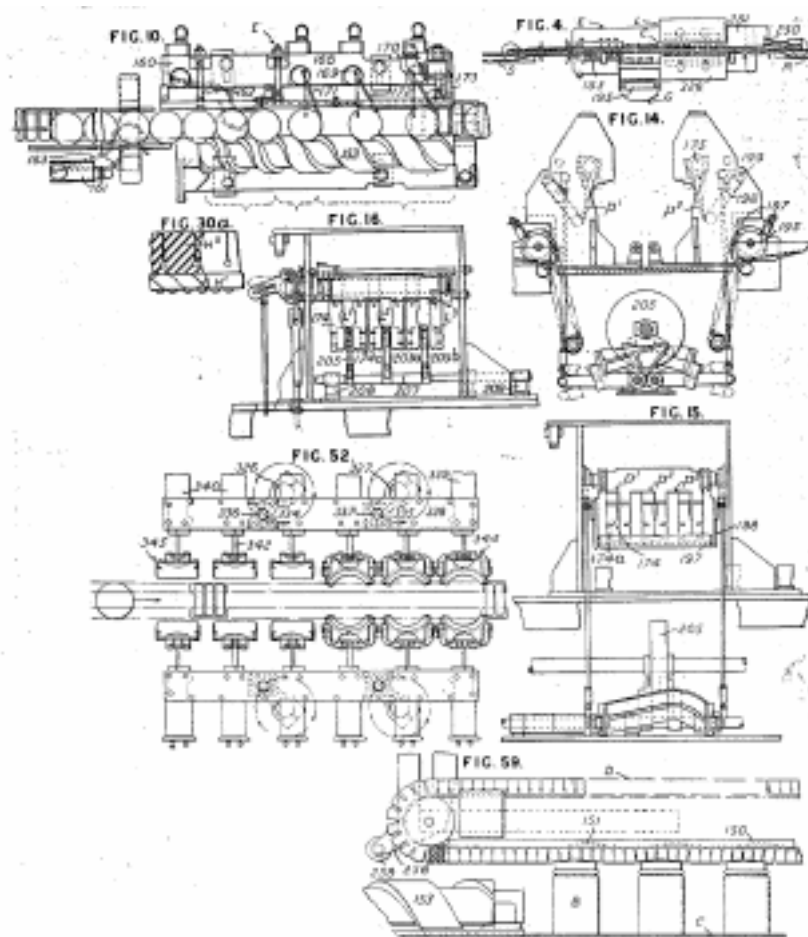
Family 77/100 - FAMPAT - ©Questel

Title

(GB-805074)

Improvements in or relating to labelling machines

Images



Publication numbers with kind code & date

GB805074

A

1958-11-26

GB-805074

**Abstract**

(GB805074)

805,074. Labelling machines. MEYER **MANUFACTURING** CO., G. J. Sept. 6, 1956 [Dec. 5, 1955], No. 27322/56. Class 73 '[Also in Group XXX] Relates to a labelling machine in which bottles, supplied to the machine by a conveyer S Fig. 4, are moved continuously through the machine by an endless conveyer C through a gumming and initial label applying station G and a station L at which the labels are firmly pressed on to the bottles which are then discharged by a conveyer R, the labels being applied to two or as shown, three bottles at the same time. According to the invention, at the entrance E of the machine, the bottles supplied by the conveyer S are engaged by a **feed screw** 153 Figs. 4, 10 arranged to provide successive groups each of two or, as shown, three bottles which are fed appropriately spaced at the speed of the conveyer C and the conveyer C has a variable speed drive designed to move it at a predetermined minimum speed even though no bottles are delivered thereto, spaced feeler arms 162, 163 Fig. 10 being arranged to operate switches 160, 161 such that when the bottles are packed in a solid column and predetermined number between the feeler arms, the latter are both moved out of the path of the conveyer C by the bottles and the conveyer is automatically driven at full speed and at the other times when one or other of the arms 162, 163 extends into the path of the conveyer, the conveyer is driven at low speed. At the same time the speed of operation 'of the labelling mechanism varies concomitantly with the change in speed of the conveyer C. The **feed screw** 153 has at its receiving end a portion of constant pitch equal to the diameter of the bottle and has at its delivery end a portion of constant pitch equal to the desired spacing of the bottles on the conveyer. Labl applying mechanism. The labelling mechanism comprises three magazines, three pickers for removing labels therefrom and three suction grip fingers for transferring the labels from the pickers to the bottles, and as shown, this mechanism is provided on both sides of the conveyer for attaching labels on opposite sides of the bottles. The pickers p', p<SP>2</SP>, p<SP>3</SP>, Fig. 15 each comprise two blades 174. 174a, the right hand blades of the pickers being mounted on one sleeve and the left hand blades on another sleeve mountd for relative axial movement on a shaft 175, Fig. 14, both sleeves being constrained to turn with the shaft 175 for the purpose of moving the pickers upwardly to the label magazines and then. downwardly for transfer of the labels to the grip fingers. Gum is transferred from a gum roller 195 to the pickers p<SP>1</SP>, p<SP>2</SP>, p<SP>3</SP> by a transfer roll 197, Figs. 14, 15 journalled on rock arms 198 each mounted to turn on a stub shaft 199 fixed to the machine frame. As the pickers travel up towards the magazines the roll 197 which has previously received a coating of grum and which has moved up to its uppermost position, moves down and deposits a coat of gum on the faces of the pickers. The transfer roll 197 continues on down to receive a fresh supply of gum while the pickers continue to move upwardly to take labels from the magazine. In Fig. 15, the picker blades are shown in edge-to-edge contact, but in Fig. 16 the blades of each picker have separated to allow the suction grip fingers 205, 205a, 205b to pass between the blades to transfer the labels L<SP>1</SP>, L<SP>2</SP>, L<SP>3</SP> from the pickers to the bottles. Since the bottles are moving continuously the grip fingers must not only oscillate to apply the labels to the bottles but must also move lengthwise of the conveyer. For this purpose the grip fingers 205, 205a, 205b, Fig. 16, are secured to a shaft 207 which by an arrangement of cams is made to rock and also to reciprocate endwise in bearings 208, 209. The grip fingers merely provide an initial application of the labels to the bottles which then pass to the station L where pressers firmly apply the labels while the bottles are continuously moving. Arrangement of fluid-pressure operated pressers. On each side of the conveyer the first three pressers 345, Fig. 52, are preliminary pressers of the resilient cushion type while the last three pressers 344 have spring-pressed arcuate arms carrying a flexible pad adapted to embrace a substantial arc of the periphery of the bottle. Each group of three bottles is acted upon by both sets of pressers in turn. The pressers are carried by piston rods 342 of fluid pressure cylinders 340, 339 supported by a housing 338 carried on parallel crank arms 334, 335 of rotatable shafts 326, 327; the crankpins 336, 337 being journalled in bearings in the housing 338. The housing and pressers are thus given a rotary motion in a horizontal plane but not at a uniform angular velocity since there would be only one point in the cycle at which the pressers and bottles would be moving at the same speed. Thus the angular velocity of the crank arms 334, 335 are made to vary during' each cycle to provide prolonged contact between pressers and bottles. Movement of the piston rods 342 within the cylinders is small, approximately half of the **compression** being taken up by the resiliency of the prssers and the remainder by the air in the cylinders. In the case

of non-circular bottles means associated with the grip fingers are provided for orientating the bottles in their appropriate label receiving positions immediately preceding the application of the labels by the grip fingers. During their operation, the orientation means move with the bottles along the conveyer path together with the grip fingers. Feeler arms 171, 172, 173, Fig. 10 are provided in association with the **feed screw** 153 and control switches 168, 169, 170 arranged in series so that unless all three arms are fully displaced by bottles as shown in Fig. 10, a circuit is broken. Thus if a bottle is missing from the series the arrangement is such that the pickers are inoperative to take labels from the magazines and in these circumstances a horn blows to warn the operator to watch for unlabelled bottles at the discharge end of the machine. If the free discharge of bottles from the delivery end of the machine is interfered with a switch 250, Fig. 4, responds to the pressure of bottles entering an accumulating table 251 and breaks the circuit to stop the machine. Emergency switches are also provided to stop the machine when a bottle tips or continues to enter the conveyer path out of time with the **feed screw** 153 and when a bottle abnormally tall, e.g. one with its cap not fully screwed in, enters the conveyer path. An endless belt D, Fig. 59, runs parallel to and above the conveyer C and holds the bottles 8 in their upright and spaced positions, the outer portion H, Fig. 30a of this belt being of soft rubber formed with spaced slits while the inner portion H' is of canvas or rubberized fabric having drive teeth moulded on its inner surface. A rigid horizontal guide shoe 150 Fig. 59 is provided for the lower run of the belt D and has clearance spaces 151 adapted to relieve the pressure on the tops of the bottles sufficiently to permit them to be orientated when necessary. A roll 259 on one end of a bell crank lever 258 is adapted to engage abnormally tall bottles and move the lever to operate a switch for stopping the machine.

Latest standardized assignees - inventors removed

MEYER GEO J **MANUFACTURING**

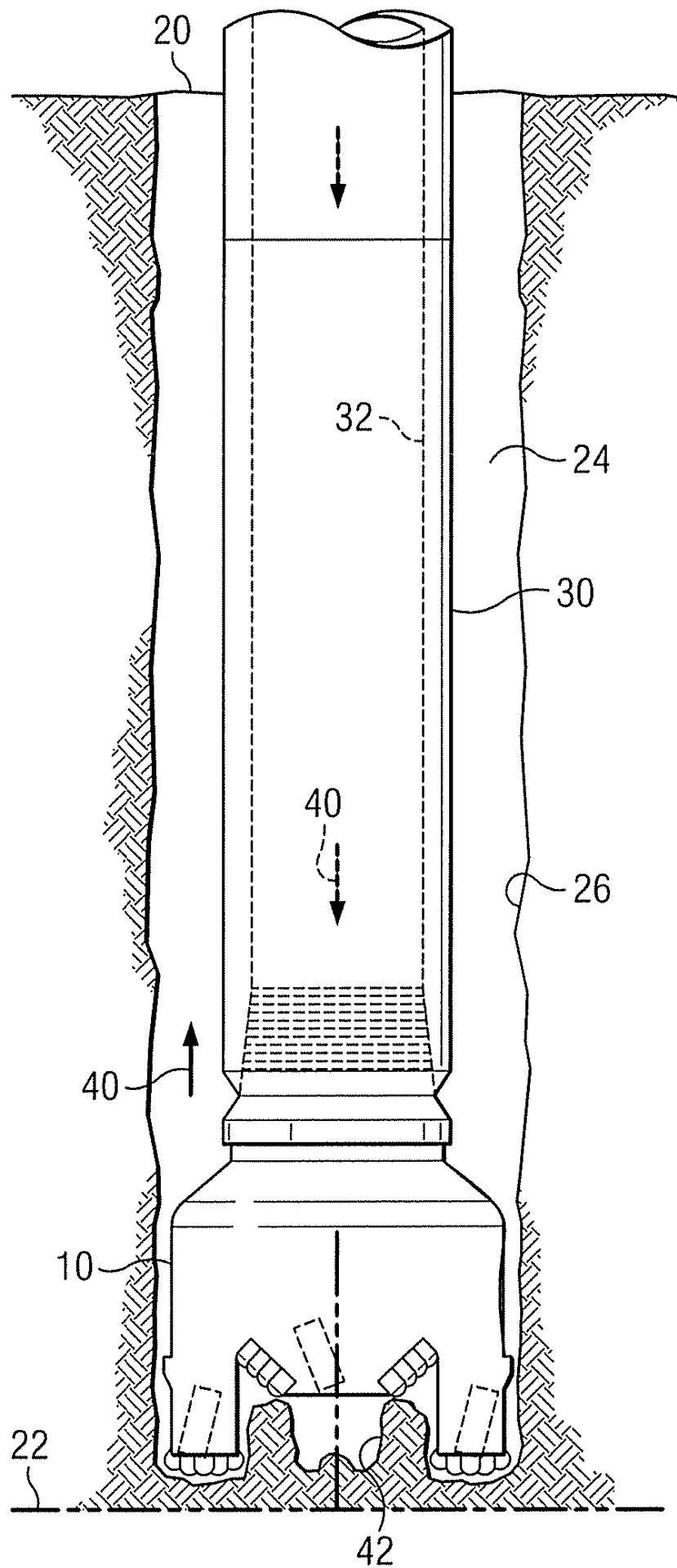
Family 78/100 - FAMPAT - ©Questel

Title

(EP1787007)

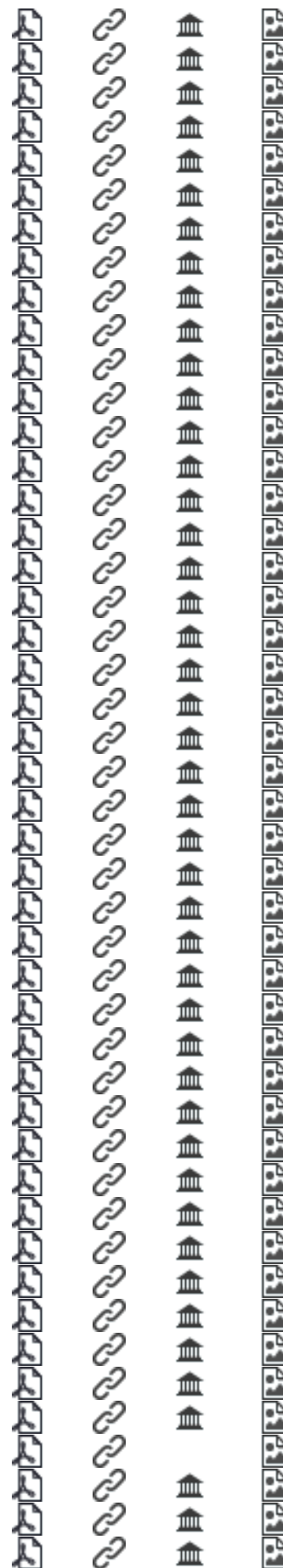
Impact excavation system and method

Images



Publication numbers with kind code & date

NO333751	B1	2013-09-09	NO-333751
US8342265	B2	2013-01-01	US8342265
US8162079	B2	2012-04-24	US8162079
US8113300	B2	2012-02-14	US8113300
CA2522568	C	2011-11-08	CA2522568
US7997355	B2	2011-08-16	US7997355
US7909116	B2	2011-03-22	US7909116
DE602004031205	D1	2011-03-10	DE602004031205
EP1616071	B1	2011-01-26	EP1616071
US20100243330	A1	2010-09-30	US20100243330
US7798249	B2	2010-09-21	US7798249
US7793741	B2	2010-09-14	US7793741
US7757786	B2	2010-07-20	US7757786
US20090223718	A1	2009-09-10	US20090223718
US20090205871	A1	2009-08-20	US20090205871
US20090200084	A1	2009-08-13	US20090200084
US7503407	B2	2009-03-17	US7503407
US20080230275	A1	2008-09-25	US20080230275
US20080210472	A1	2008-09-04	US20080210472
US20080196944	A1	2008-08-21	US20080196944
US7398838	B2	2008-07-15	US7398838
US7398839	B2	2008-07-15	US7398839
US7383896	B2	2008-06-10	US7383896
US7343987	B2	2008-03-18	US7343987
US20080017417	A1	2008-01-24	US20080017417
US7258176	B2	2007-08-21	US7258176
EP1787007	A2	2007-05-23	EP1787007
NO20070997	L	2007-04-20	NO20070997
US20060191717	A1	2006-08-31	US20060191717
US20060191718	A1	2006-08-31	US20060191718
US20060180350	A1	2006-08-17	US20060180350
WO2006/019977	B1	2006-06-29	WO200619977
WO2006/019977	A3	2006-05-18	WO200619977
EP1616071	A4	2006-05-10	EP1616071
WO2006/019977	A2	2006-02-23	WO200619977
US20060027398	A1	2006-02-09	US20060027398
US20060021798	A1	2006-02-02	US20060021798
US20060016622	A1	2006-01-26	US20060016622
US20060016624	A1	2006-01-26	US20060016624
US20060011386	A1	2006-01-19	US20060011386
EP1616071	A2	2006-01-18	EP1616071
NO20055409	L	2005-11-15	NO20055409
NO20055409	D0	2005-11-15	NO200505409
WO2004/094734	A3	2005-03-03	WO200494734
CA2522568	A1	2004-11-04	CA2522568
WO2004/094734	A2	2004-11-04	WO200494734

**Abstract**

(EP1787007)

A method and system for excavating a subterranean formation using a fluid comprising pumping the fluid through at least one nozzle such that a velocity of the fluid when exiting the nozzle is greater than a velocity of the fluid entering the nozzle.

A plurality of solid material impactors are introduced into the fluid and circulated with the fluid through the nozzle. A substantial portion by weight of the solid material impactors has a mean diameter of equal to or less than approximately 0.100 inches. The fluid is pumped at a pressure level and a flow rate level sufficient to satisfy an impactor mass-velocity relationship wherein a substantial portion by weight of the solid material impactors has a minimum kinetic energy of approximately 0.075 Ft Lbs when exiting the nozzle. The substantial portion by weight of solid material impactors exit the nozzle and contact the formation.

Inventors

TIBBITTS GORDON

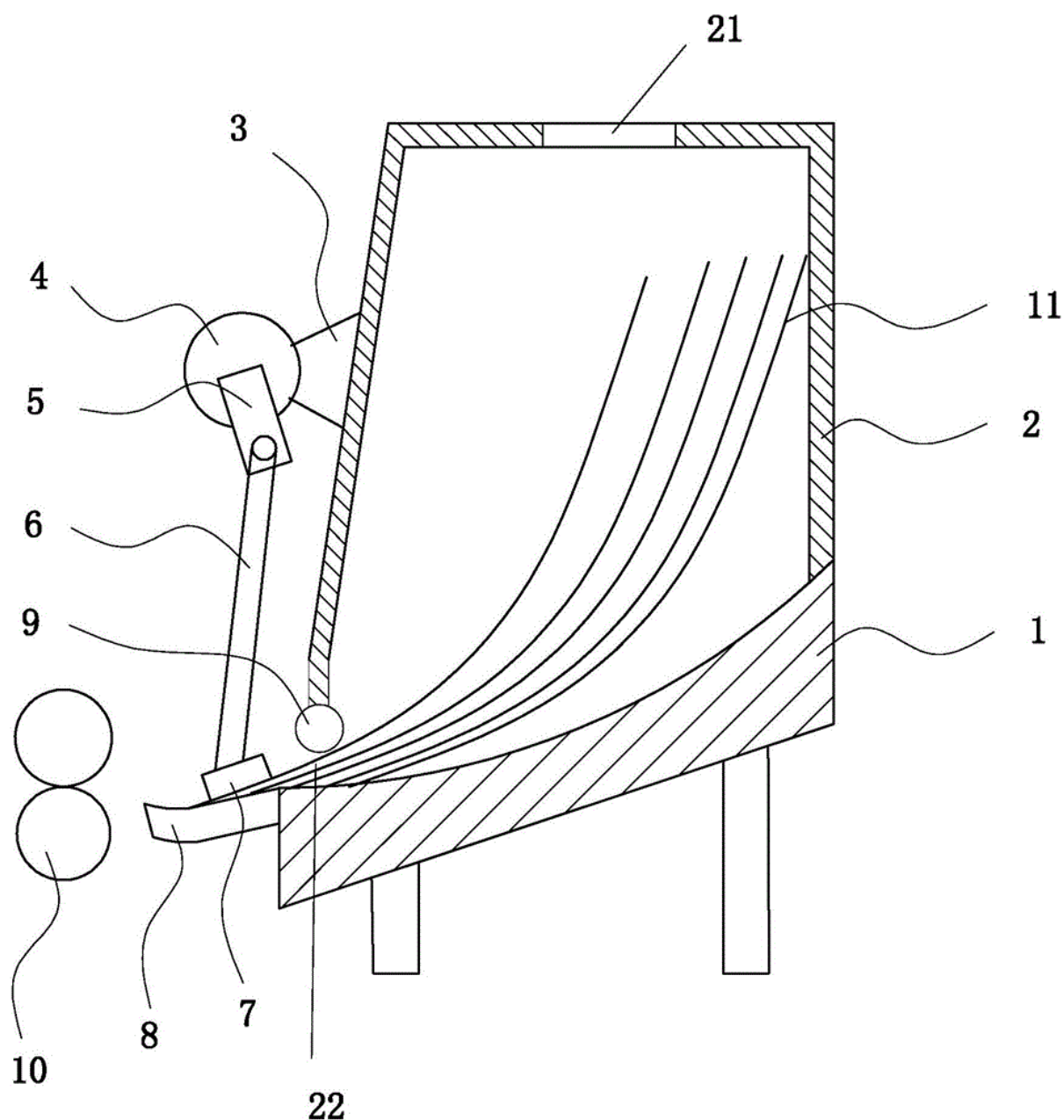
Latest standardized assignees - inventors removed

PDTI HOLDINGS

Family 79/100 - FAMPAT - ©Questel

Title

(CN205855477U)

Loading attachment is used in **paper** production**Images****Publication numbers with kind code & date**

CN205855477

U

2017-01-04

CN205855477U

**Abstract**

(CN205855477)

The utility model relates to a **paper** article processing field especially relates to a loading attachment is used in **paper** production, it mainly solved among the prior art with the **paper** independent transport one by one in the **paper** pile to the next station **feed** degree of difficulty big problem, the on -line screen storage device comprises a base, the base sets up to the slope form, be provided with the casing on the base, the upper surface of casing is provided with the **paper feed** mouth, the bottom that the lower part of casing is located the base is provided with the exit slot, the upside that lies in the exit slot on the casing is provided with the support, be provided with the motor on the support, be provided with the connecting rod on the output shaft of motor, the other end of connecting rod articulates there is the pendulum rod, the other end of pendulum rod is provided with the sucking disc, the sucking disc is located the front side of exit slot, it is provided with the gyro wheel to lie in the exit slot on the casing, the front side of exit slot is provided with the cylinder.

Inventors

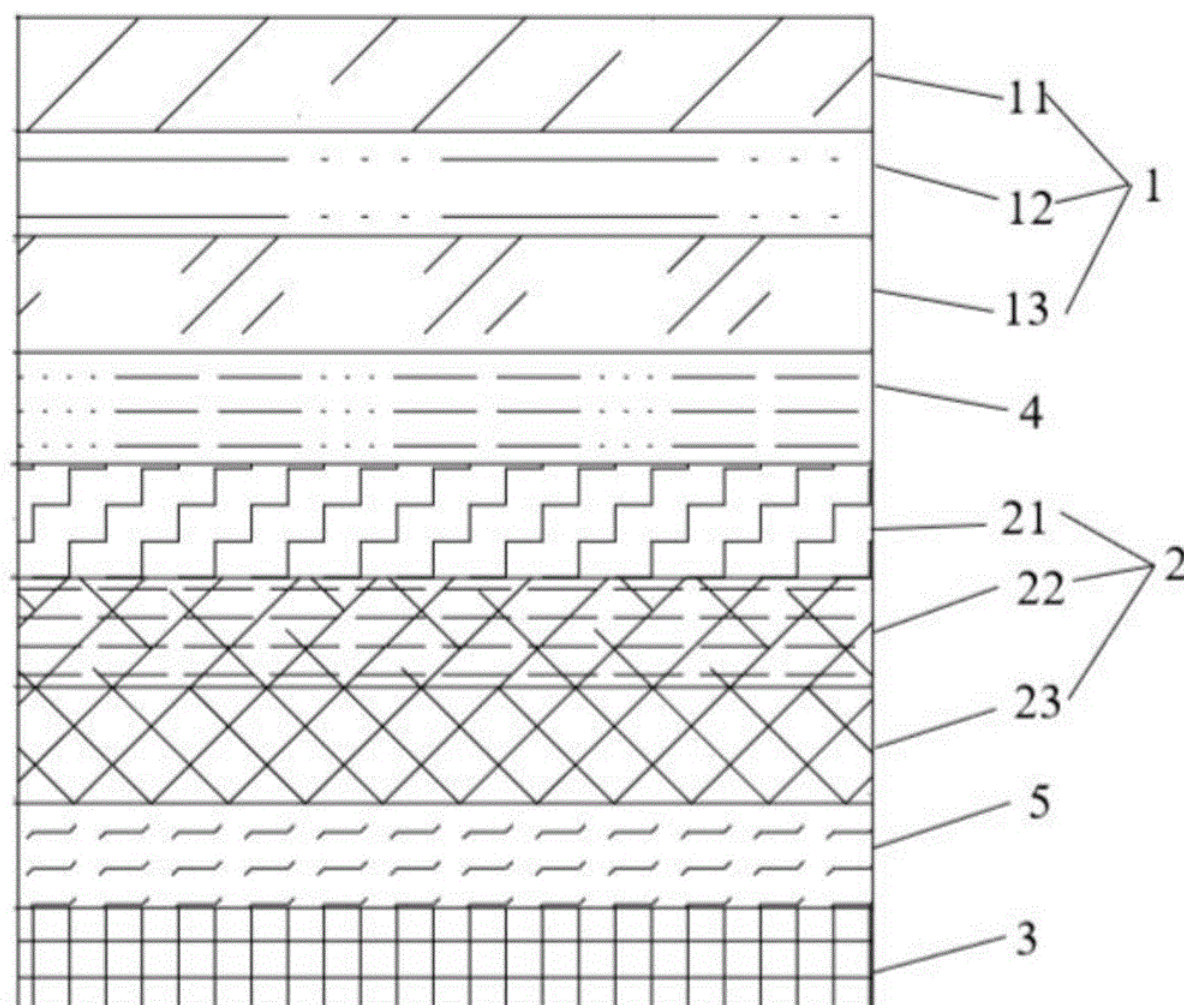
CHEN SHOUZHEN

Latest standardized assignees - inventors removedQUANZHOU HUAXIANG **PAPER** INDUSTRY

Family 80/100 - FAMPAT - ©Questel

Title

(CN110172867)

Paper added with tobacco stalk and preparation method and device thereof**Images****Publication numbers with kind code & date**[CN110172867](#)

A

2019-08-27

CN110172867

**Abstract**

(CN110172867)

The invention provides **paper** added with tobacco stalk and a preparation method and device thereof. The **paper** added with the tobacco stalk includes a body **paper** layer; the body **paper** layer includes a surface **paper** layer and a backing **paper** layer; at least one of the surface **paper** layer and the backing **paper** layer is prepared from tobacco stalk powder, and the mass percentage of the tobacco stalk powder is 0.01-30% of the raw materials of the layer where the tobacco stalk powder is located. According to the **paper** added with the tobacco stalk, a proper amount of tobacco stalk powder is added into papermaking slurry, the **paper** loose depth is increased remarkably and the **manufacturing** cost is remarkably lowered on the condition that the **paper** strength is not changed greatly, the tobacco stalk does not need to be cooked in the preparation process, and chemical wastewater generated in the production process is reduced.

Inventors

BU, Ning

LI JIAN

HU XINYANG

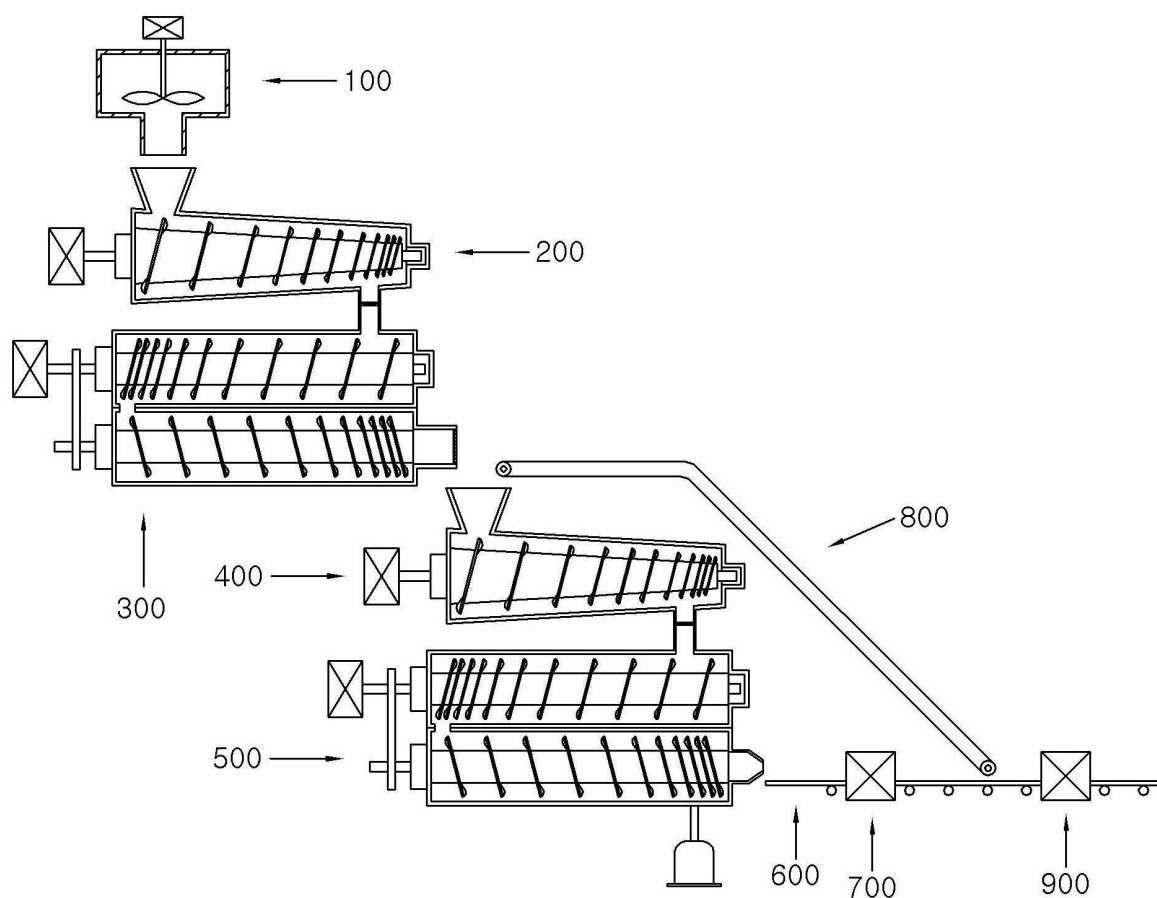
DING MINGZHAO

Latest standardized assignees - inventors removedINTERNATIONAL **PAPER** & SUN CARTONBOARD

Family 81/100 - FAMPAT - ©Questel

Title

(KR101621472)

Apparatus for **manufacturing** highly dense soft soap having wrapping **paper** with ventilation hole**Images****Publication numbers with kind code & date**

KR10-1621472

B1 2016-05-16

KR101621472

**Abstract**

(KR10-1621472)

The present invention relates to an apparatus for **manufacturing** a highly dense soft soap having a wrapping **paper** with a

G2 is jetted from a third discharge port 26 and carbonated fuel F is obtained from a delivery port 27.

Inventors

JAMES KOWALCZYK

FRED L JONES

MATSUSHITA TAKAMICHI

Latest standardized assignees - inventors removed

ECO RESEARCH INSTITUTE

ECO BIO PLASTICS MIDLAND

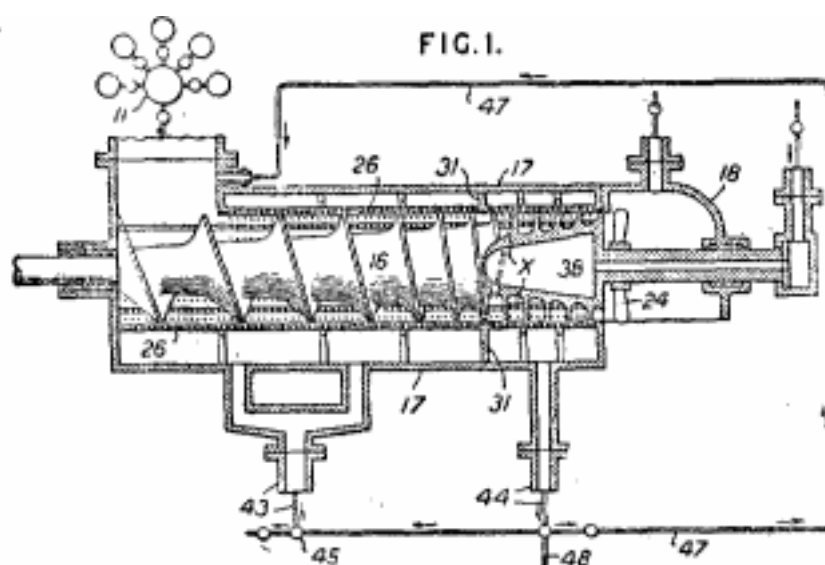
Family 83/100 - FAMPAT - ©Questel

Title

(US2355091)

Apparatus for the treatment and removal of chemicals from cooked or digested fiber pulp

Images



Publication numbers with kind code & date

GB583967	A	1947-01-03	GB-583967
US2355091	A	1944-08-08	US2355091



Abstract

(US2355091)

<PICT:0583967/IV/1> Fibre pulp, produced by the chemical digestion of wood or other fibrous material, for use, for example, in the manufacture of **paper**, is treated for the removal of chemicals in an apparatus comprising a constrictive permeable passage for confining the pulp as it leaves the digester, means for expressing chemical-laden liquid by pressure, means for thickening the stock into a magma, and means for introducing liquid extractant for chemical as the pulp passes from the **feed**-in portion of the passage into a succeeding portion in which liquid is expelled from the cake by displacement by the extractant. Pulp from a digester 11, Fig. 1, is fed to a perforated tubular housing 26, surrounded by a casing 17 and is conveyed by a pressing **screw** 16 in a **screw** channel of progressively reduced cross-sectional area on the **feed** in portion thereof. Liquid expressed from the pulp passes through the housing 26 to a pipe 43, whence it may be passed through a valve 45 either to a recovery plant through a tube 47 or to be led away as desired through a pipe 48, or to be returned to dilute the pulp leaving the digester 11. The magma formed in the **feed** in section of the **screw** channel passes into a succeeding section at the opposite side of a partition 31 in the casing 17. At the junction of the two sections the depth of the **screw**-thread increases abruptly and extracting liquid is introduced through holes X from an internal bore 38 in the **screw** 16 to displace partially the liquid in the pulp. The latter liquid passes through the housing 26 to be collected through the pipe 44 for disposal in the alternative means used for the liquid from the pipe 43. The treated pulp leaves the apparatus through a hood 18 containing a rotating paddle 24. In a modified construction, the rotary **screw** 16 may comprise a number of sections in addition to the **feed**-in section, the depth of the **screw**-thread being increased abruptly at the

EP2290158	A2	2011-03-02	EP2290158				
EP2281941	A2	2011-02-09	EP2281941				
EP2275600	A2	2011-01-19	EP2275600				
RU2007118452	A	2008-11-27	RU2007118452				
TW200801281	A	2008-01-01	TW200801281				
EP1862586	A1	2007-12-05	EP1862586				
JP2007308837	A	2007-11-29	JP2007308837				
IN1026/DEL/2007	A	2007-11-23	IN2007DE01026				
KR10-2007-0112074	A	2007-11-22	KR20070112074				
US20070267163	A1	2007-11-22	US20070267163				
CN101074545	A	2007-11-21	CN101074545				
CA2586770	A1	2007-11-19	CA2586770				

Abstract

(EP2290157)

A pulp concentration adjusting apparatus of used **paper** recycling apparatus, being a pulp concentration adjusting apparatus (35) for adjusting the concentration of used **paper** pulp provided in a pulp **manufacturing** apparatus for **manufacturing** used **paper** pulp by macerating and mashing the used **paper**, in a used **paper** recycling apparatus of furniture size installed at the site of origin of used **paper**, comprising, a concentration adjusting tank (15) for storing the used **paper** pulp manufactured in the pulp **manufacturing** apparatus, and concentration adjusting water **feed** means (9) for supplying water into the concentration adjusting tank (15), wherein the concentration of the used **paper** pulp supplied from the agitating tank (10) is adjusted in the concentration adjusting tank (15) by the water supplied from the concentration adjusting water **feed** means (9), and a pulp suspension of specified concentration is prepared.

Inventors

TAMAI SHIGERU

KOYAMA YUJI

Latest standardized assignees - inventors removed

SEED

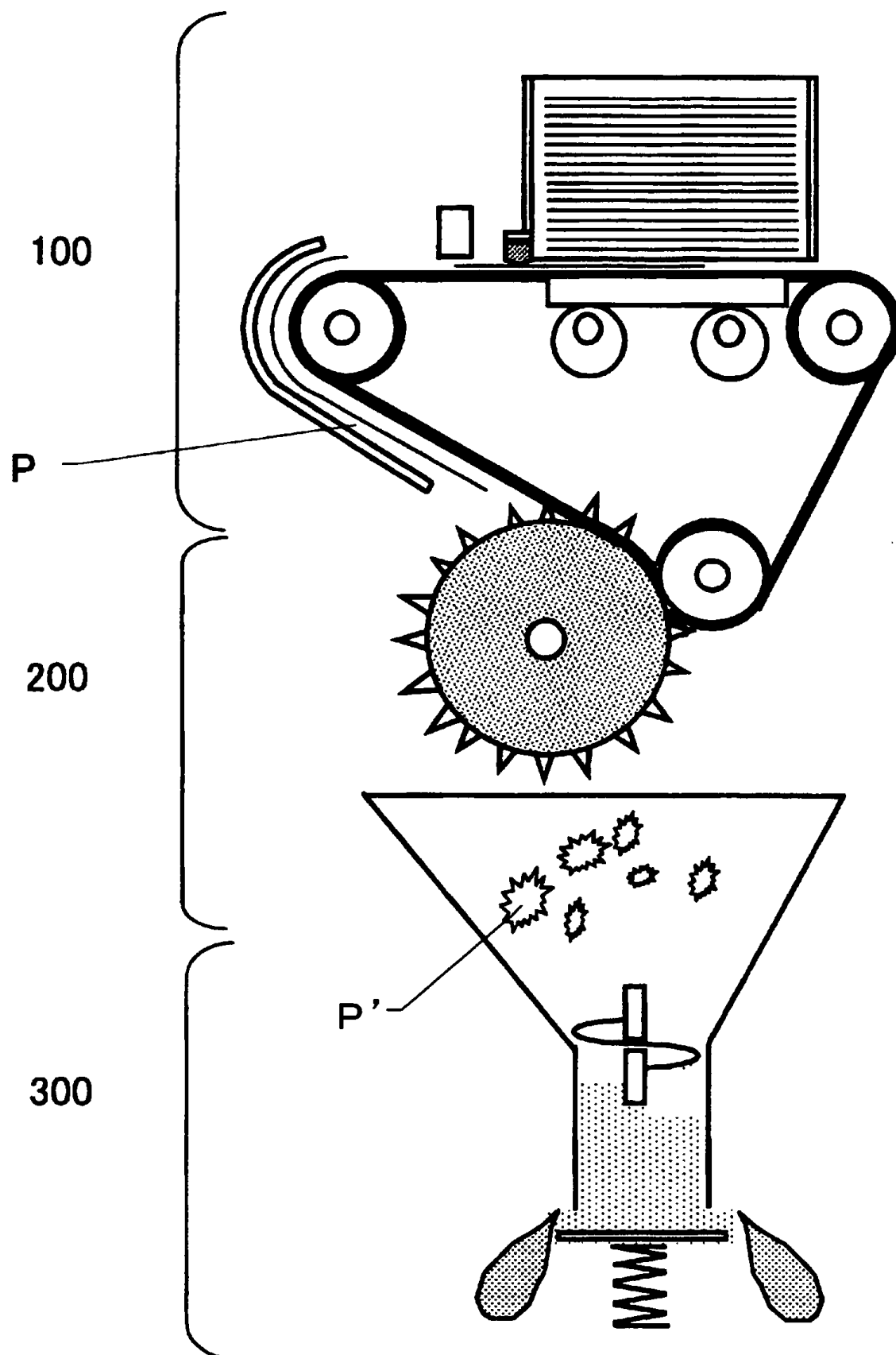
Family 85/100 - FAMPAT - ©Questel

Title

(EP1870161)

Document shredder device

Images

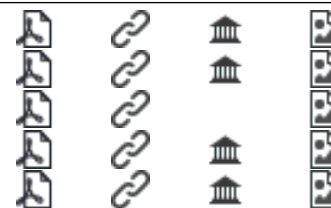


Publication numbers with kind code & date

JP5230937	B2	2013-07-10	JP5230937
JP2013091107	A	2013-05-16	JP2013091107
US8162248	B2	2012-04-24	US8162248
EP1870161	A4	2012-01-04	EP1870161
US20080179436	A1	2008-07-31	US20080179436
EP1870161	A1	2007-12-26	EP1870161



IN4742/CHENP/2006	A	2007-06-29	IN2006CN04742
CN1976753	A	2007-06-06	CN1976753
KR10-2007-0027740	A	2007-03-09	KR20070027740
JPWO2006001370	A1	2006-01-05	JP2006001370W
WO2006/001370	A1	2006-01-05	WO200601370



Abstract

(EP1870161)

A document shredder is provided with a transport system that holds and transports **paper**, and a shredding system that shreds the **paper** while rotating at a circumferential speed higher than a transporting speed of the transport system, wherein, a part of elements constituting the transport system is in common with a part of elements constituting the shredding system and a point of action of the transport system is placed substantially at the same position as a point of action of the shredding system, with respect to a **paper** transporting direction, and alternatively, the shredding system is arranged successively from the transport system. Since this shredder is assembled in such a manner that a part of elements constituting the transport system to hold and transport the **paper** is in common with a part of elements constituting the shredding system, it is possible to be downsized. Furthermore, since the points of action are provided independently from the transport system, it is possible to enlarge the speed ratio between the **paper** transporting speed and the rotating speed of the shredding blade, whereby the **paper** entirely up to the end can be shredded with reliability, by only onetime passing of the **paper**.

Inventors

KURAOKA TOSHIKI

Latest standardized assignees - inventors removed

ECO

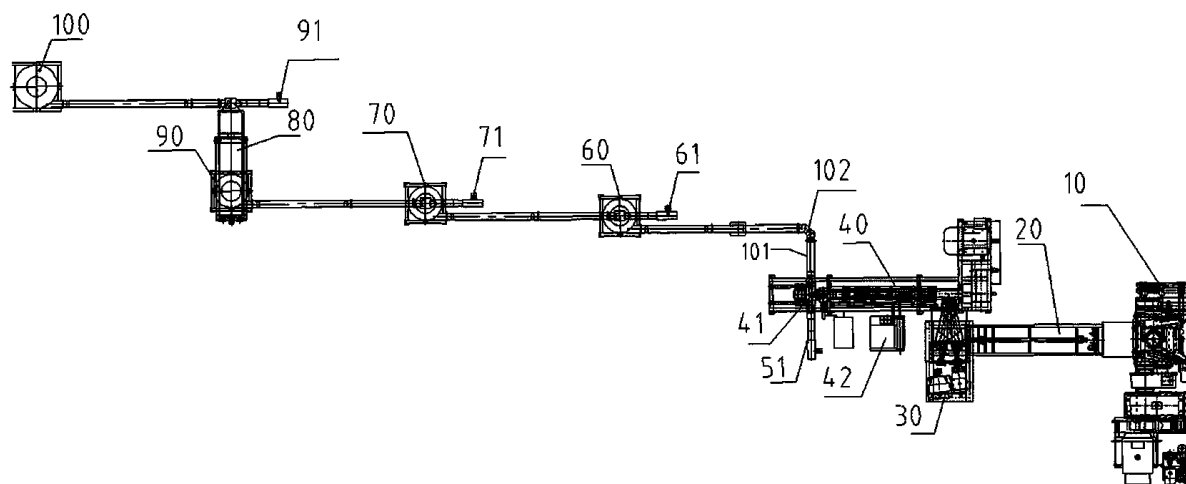
Family 86/100 - FAMPAT - ©Questel

Title

(CN102601886B)

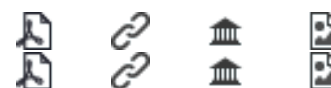
Rich mineral **paper** masterbatch extruding granulator set

Images



Publication numbers with kind code & date

CN102601886	B	2015-01-21	CN102601886B
CN102601886	A	2012-07-25	CN102601886



Abstract

(CN102601886)

The patent refers to the field of 'preparation or pretreatment of the material to be shaped; making granules or preforms; recovery of plastics or other constituents of waste material containing plastics'. The invention discloses a rich mineral **paper** masterbatch extruding granulator set comprising a high-speed mixer, an internal pressurized mixer, a material hoister, a conical double-**screw** feeding machine, a single-**screw extruder**, a granulator, a primary cyclone separator, a secondary

cyclone separator, a third cyclone separator, a vibrating screen and a finished product hopper; the high-speed mixer is connected with the internal pressurized mixer through a blanking pipeline; and the single-screw extruder is internally provided with a material extruding screw rod comprising a homogenization segment, a compression segment and a feeding segment, wherein the diameter of the screw rod at the feeding segment is smaller than that of the screw rod at the homogenization segment, the length of the screw rod at the homogenization segment is smaller than that of the screw rod at the compression segment, and the length of the screw rod at the compression segment is smaller than that of the screw rod at the feeding segment. Rich mineral paper masterbatches according to the specification can be produced once so that the yield can be doubled as comparison with the original yield; no labor is needed so that the labor intensity is reduced; and not only is the rich mineral paper masterbatch extruding granulator set firm and wearable, but also the optimized uniform material mixing and physical property changing effects are achieved on year-on-year basis.

Inventors

LIU FENG TIAN

WANG YONG QIN

Latest standardized assignees - inventors removed

KUNSHAN KEXING RUBBER & PLASTIC MACHINERY

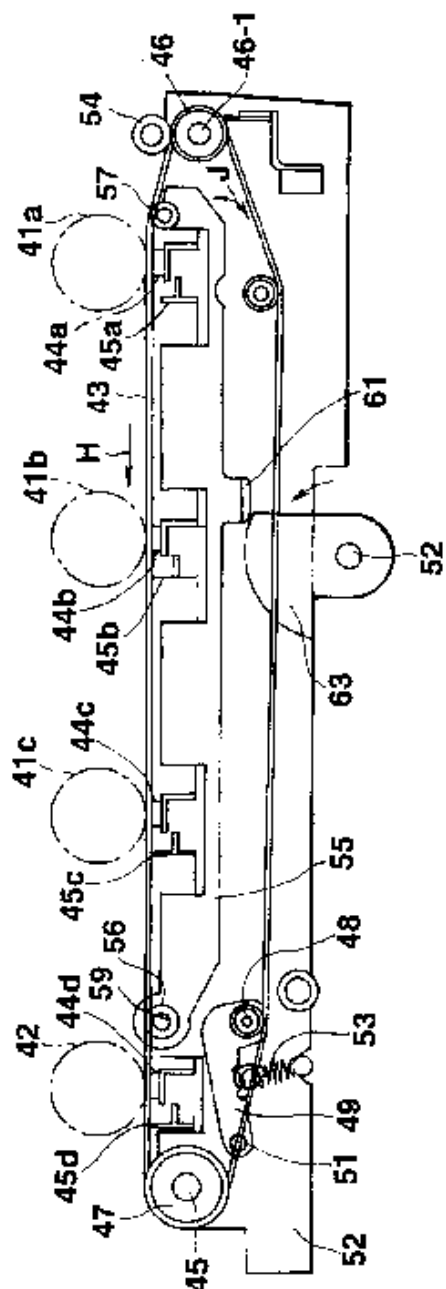
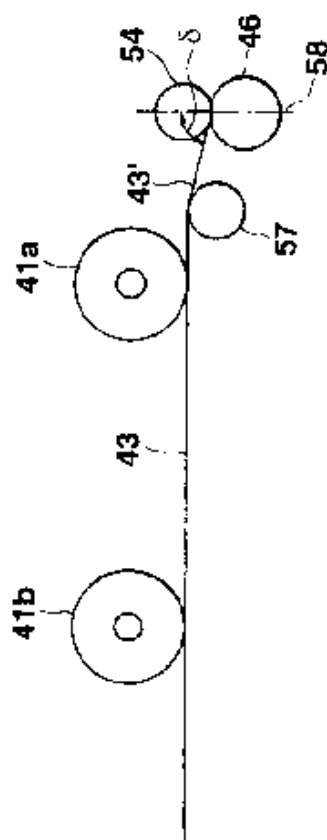
Family 87/100 - FAMPAT - ©Questel

Title

(EP-811182)

Image forming apparatus

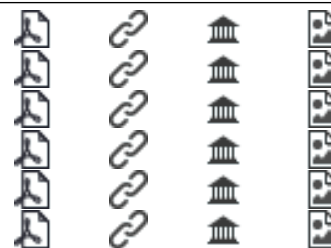
Images

**FIG.1A****FIG.1B****Publication numbers with kind code & date**

DE69626430	T2	2003-07-17	DE69626430
DE69626430	D1	2003-04-03	DE69626430
EP1058161	B1	2003-02-26	EP1058161
DE69622538	T2	2002-11-07	DE69622538
DE69622538	D1	2002-08-29	DE69622538
EP0811182	B1	2002-07-24	EP-811182
JP3279155	B2	2002-04-30	JP3279155
JP3277775	B2	2002-04-22	JP3277775
HK1033604	A1	2001-09-07	HK1033604
EP1058161	A1	2000-12-06	EP1058161
US5765082	A	1998-06-09	US5765082



EP0811182	A1	1997-12-10	EP-811182
WO97/19387	A3	1997-09-18	WO9719387
JP09160393	A	1997-06-20	JP09160393
AU7588396	A	1997-06-11	AU9675883
JP09146383	A	1997-06-06	JP09146383
WO97/19387	A2	1997-05-29	WO9719387

**Abstract**

(EP0811182)

A swing lever (55) swings around its base end stable roller (56) to move vertically its free end movable roller (57), so that the movable roller moves a **conveyor** belt (43) between a horizontal full color printing position and an inclined monochrome printing position. In the former position the belt contacts all of four colored image forming drums (41a, 41b, 41c, 42), and in the latter the belt keeps in contact with the black colored drum (42) by the stable roller. Further, a press roller (54) mechanically and electrostatically attach a sheet to be printed on the belt. 00000

Inventors

NUMAZU TOSHIHIKO

HAGIWARA KAZUYOSHI

ABE TETSUYA

Latest standardized assignees - inventors removed

CASIO COMPUTER

CASIO ELECTRONICS **MANUFACTURING**

Family 88/100 - FAMPAT - ©Questel

Title

(JP2008063694)

Method for smoothing wet **paper** and press part of **paper** making machine**Images**

COPYRIGHT: (C)2008,JPO&INPIT

Inventors

GOTO DAISUKE

IWATA HIROSHI

Iijima Hidemasa

NAGAOKA TAKASHI

Ko Taro Shinoda

Koitsu Aoyama

Takehiro Shirao

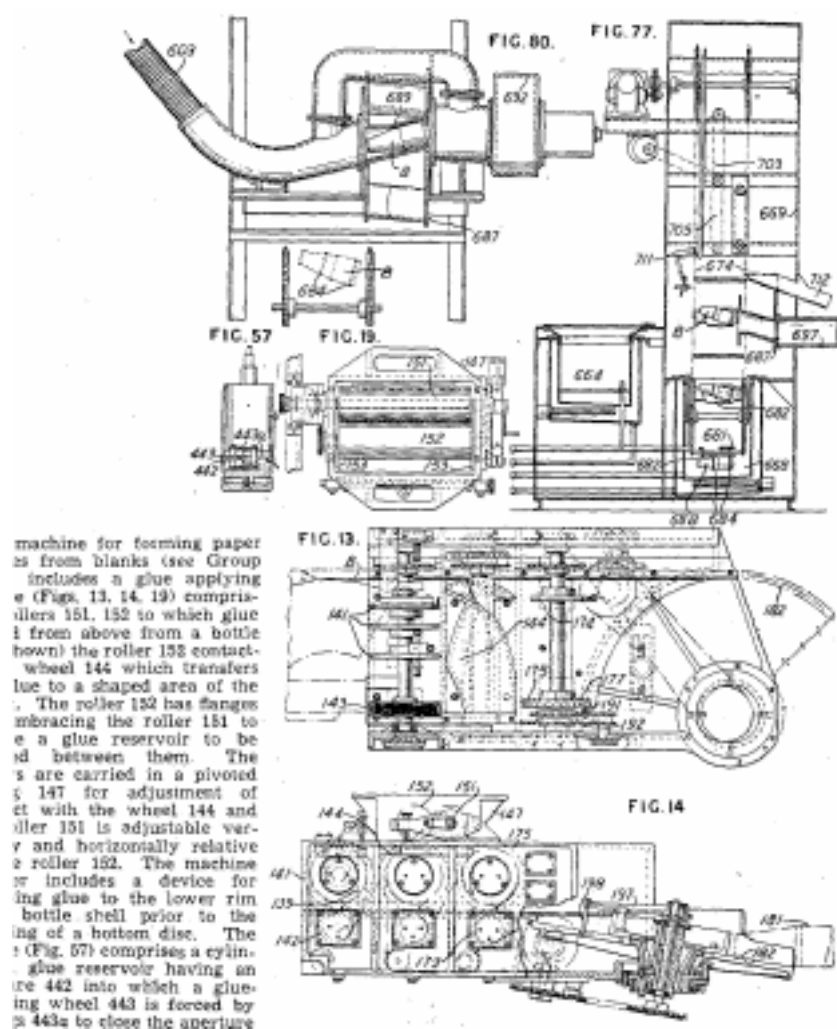
Latest standardized assignees - inventors removed

OJI HOLDINGS

Family 89/100 - FAMPAT - ©Questel

Title

(GB-712150)

Improvements in and relating to machines for making **paper** containers**Images****Publication numbers with kind code & date**

GB712150

A

1954-07-21

GB-712150

**Abstract**

(GB712150)

<PICT:0712150/III/1> <PICT:0712150/III/2> <PICT:0712150/III/3> <PICT:0712150/III/4> <PICT:0712150/III/5>

<PICT:0712150/III/6> A machine for forming **paper** bottles from blanks (see Group XVII) includes a glue applying device

(Figs. 13, 14, 19) comprising rollers 151, 152 to which glue is fed from above from a bottle (not shown) the roller 152

contacting a wheel 144 which transfers the glue to a shaped area of the blank. The roller 152 has flanges 153 embracing the roller 151 to enable a glue reservoir to be formed between them. The rollers are carried in a pivoted casing 147 for adjustment of contact with the wheel 144 and the roller 151 is adjustable vertically and horizontally relative to the roller 152. The machine further includes a device for applying glue to the lower rim of a bottle shell prior to the securing of a bottom disc. The device (Fig. 57) comprises a cylindrical glue reservoir having an aperture 442 into which a glue-applying wheel 443 is forced by springs 443a to close the aperture except when a rotating roller (not shown) presses against the wheel 443 to receive a film of glue therefrom. The device is pivoted for movement towards or away from the roller. An apparatus for waxing the **paper** bottles (Figs. 77, 80) delivered from the machine **manufacturing** them (see Group XVII) comprises conveyer chains for transporting the bottles into a wax bath and having means for spinning the bottles to remove surplus wax. The bottles B are received from the machine through a conduit 603 and are each drawn into a cell 689 of a rotatable turret 687 by suction of a fan 692. The turret projects into the side of a waxing tower 669 and it rotates to carry the bottle opposite the fan discharge 697. The bottle is blown into a wire basket 684 carried on a rotatable platform 682 between the conveyer chains 674. The bottle passes, mouth uppermost, into a heated wax bath 668, supplied from a heated reservoir 664 and leaves the bath on the upward run of the chain, mouth downwards. The platform 682 is rotated on the upward and downward runs of the conveyer by the engagement of its sprocket 681 with driven chains 703, 705 and the bottle is finally discharged on to a shoot 712 by a reciprocating pusher. Reference has been directed by the Comptroller to Specifications 681,567, 681,568, [both in Group XVII], and 681,569.

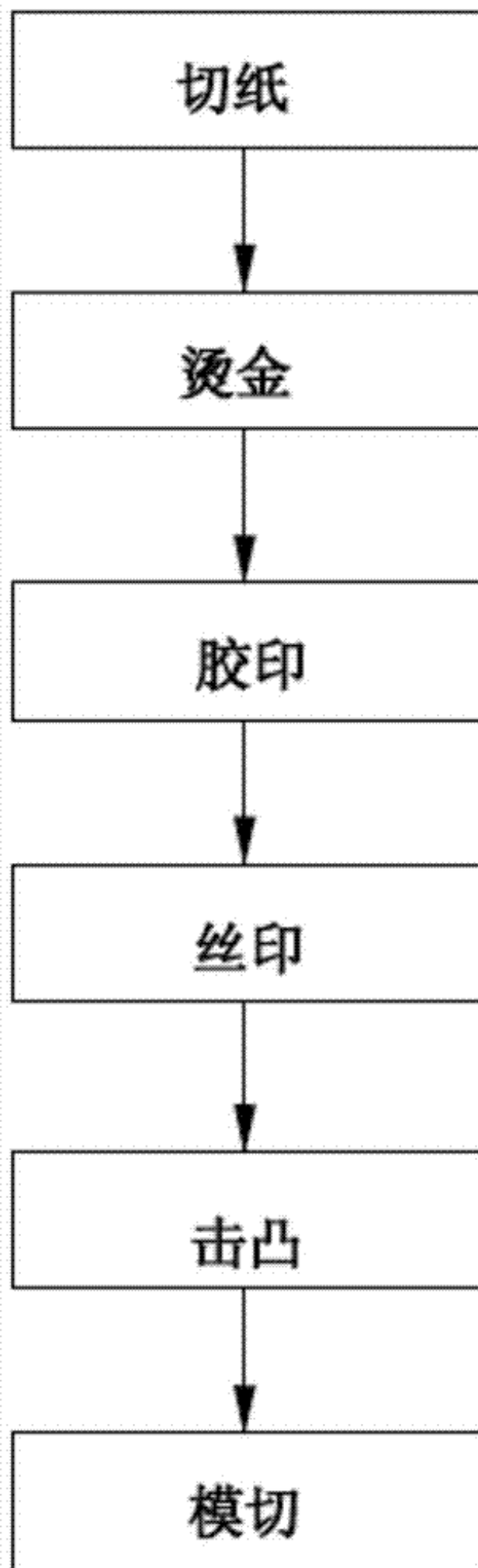
Latest standardized assignees - inventors removedNATIONAL **PAPER** BOTTLE

Family 90/100 - FAMPAT - ©Questel

Title

(CN104129182)

Manufacturing method of printed paperboard and **paper** feeding mechanisms for **manufacturing** method**Images**



Publication numbers with kind code & date

CN104129182	B	2017-11-17	CN104129182B
CN104129182	A	2014-11-05	CN104129182

**Abstract**

(CN104129182)

The invention provides a **manufacturing** method of a printed paperboard and **paper** feeding mechanisms for the **manufacturing** method. The **manufacturing** method sequentially includes the steps of **paper** cutting, gilding, offset printing, screen printing, embossing and die cutting; an optional **paper** feeding mechanism is used for feeding **paper** between any two steps; each **paper** feeding mechanism comprises an anti-stacking mechanism comprising a ground line and an air pipe, one end of the ground line and one end of the air pipe are arranged above a **conveyor** belt separately and incline to the surface of the **conveyor** belt, the ground line guides and eliminates static electricity of the surface of base **paper** being conveyed on the surface of the **conveyor** belt, and air is blown into the base **paper** which many stack during conveying by blowing of the air pipe, so that stack of the base **paper** is separated. By the use of the **manufacturing** method wherein the gilding process is performed in advance, the problem with gilding position accuracy is well solved; by the use of the **paper** feeding mechanisms, stacking of the **paper** can be prevented, and smooth production is guaranteed.

Inventors

ZHOU ZAIHE

JIANG BIN

LENG GUOBIN

ZHAO HAIYAN

Latest standardized assignees - inventors removed

ZHANJIANG CIGARETTE PACKAGING MATERIAL PRINTING

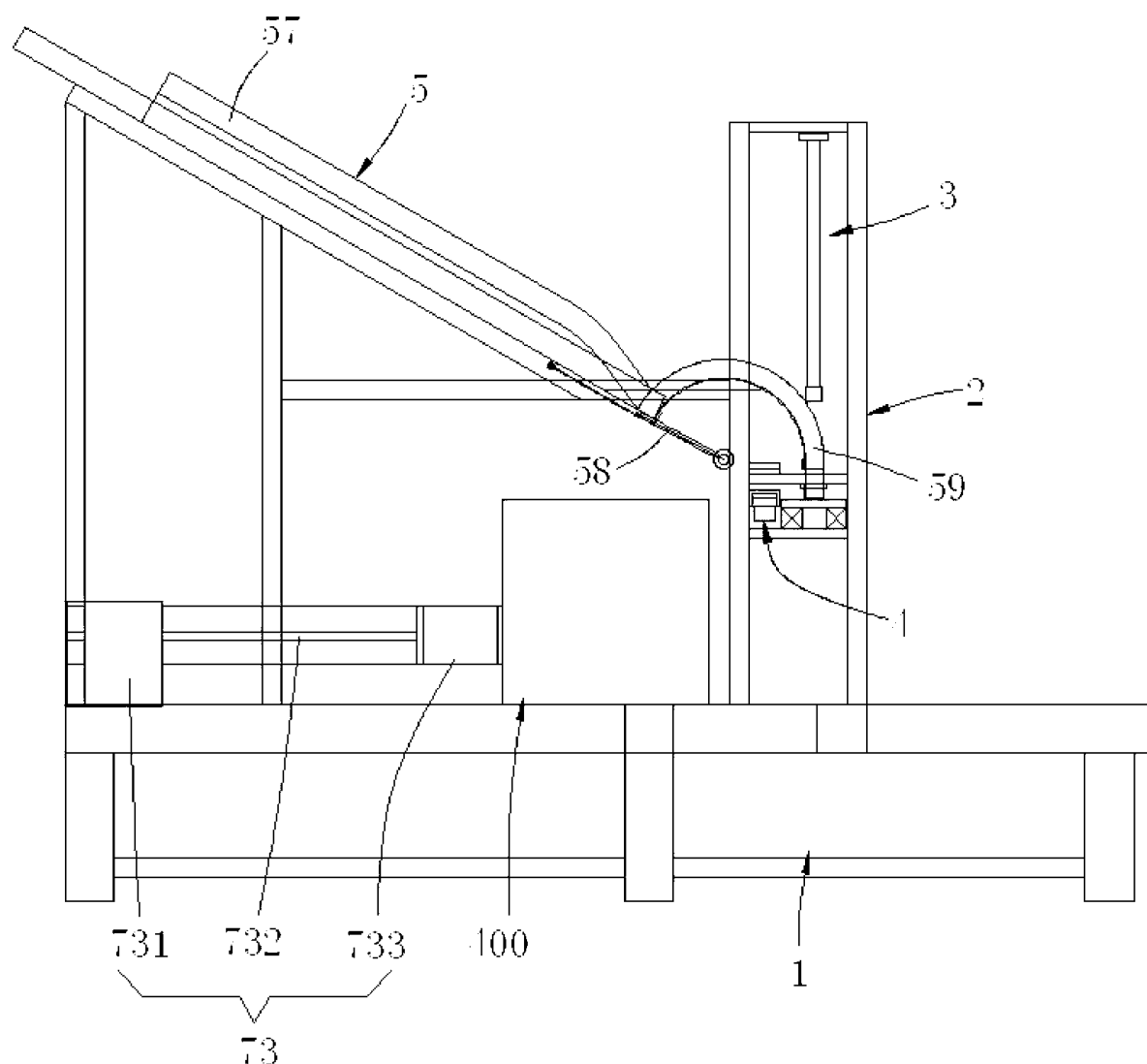
Family 91/100 - FAMPAT - ©Questel

Title

(CN203298655U)

Automatic firework assembling device

Images



Publication numbers with kind code & date

CN203298655

U

2013-11-20

CN203298655U



Abstract

(CN203298655)

The utility model discloses an automatic firework assembling device which comprises a machine base, a rack, a shell pressing and paper pressing device, a paper barrel combining basin frame locating device, an inner shell conveying machine, a paper sheet blanking and conveying machine, a paper barrel combining basin frame conveying machine, an air pressure system and an electrical control system. The automatic firework assembling device can automatically carry out paper conveying, paper cutting, paper loading, paper pressing, shell conveying, shell filling and shell pressing, production efficiency is high, the phenomena that paper is missed to be added and shell filling is missed do not exist, manual participation is less, and therefore produced products are low in cost and high in percent of pass, and the danger caused by too much manual participation can be greatly lowered.

Inventors

CHEN QINGMING

XIE PENG

Latest standardized assignees - inventors removed

CHANGSHA YANDA MACHINERY MANUFACTURING

Family 92/100 - FAMPAT - ©Questel

Title

(JP2017064949)

TW201711826

A

2017-04-01

TW201711826

**Abstract**

(JP2017064949)

PROBLEM TO BE SOLVED: To provide an **extruder** where problems when a thermoplastic resin and a low melting point additive are melted and kneaded are solved and a thermoplastic resin composition having uniform physical properties can be produced with high stability and high productivity and to provide a production method of the thermoplastic resin composition using the **extruder**.

SOLUTION: An **extruder** is equipped with a raw material supply port connected to a raw material supply line having a cooling gas supply line communicating with at least a part of the raw material supply line. In a production method of a thermoplastic resin composition, a thermoplastic resin and an additive having a melting point of 40-200°C are melted and kneaded by using the **extruder**.

SELECTED DRAWING: Figure 1

COPYRIGHT: (C)2017,JPO&INPIT

Inventors

OTA YOSHIO

KUSHIDA AKIRA

Latest standardized assignees - inventors removed

ASAHI KASEI

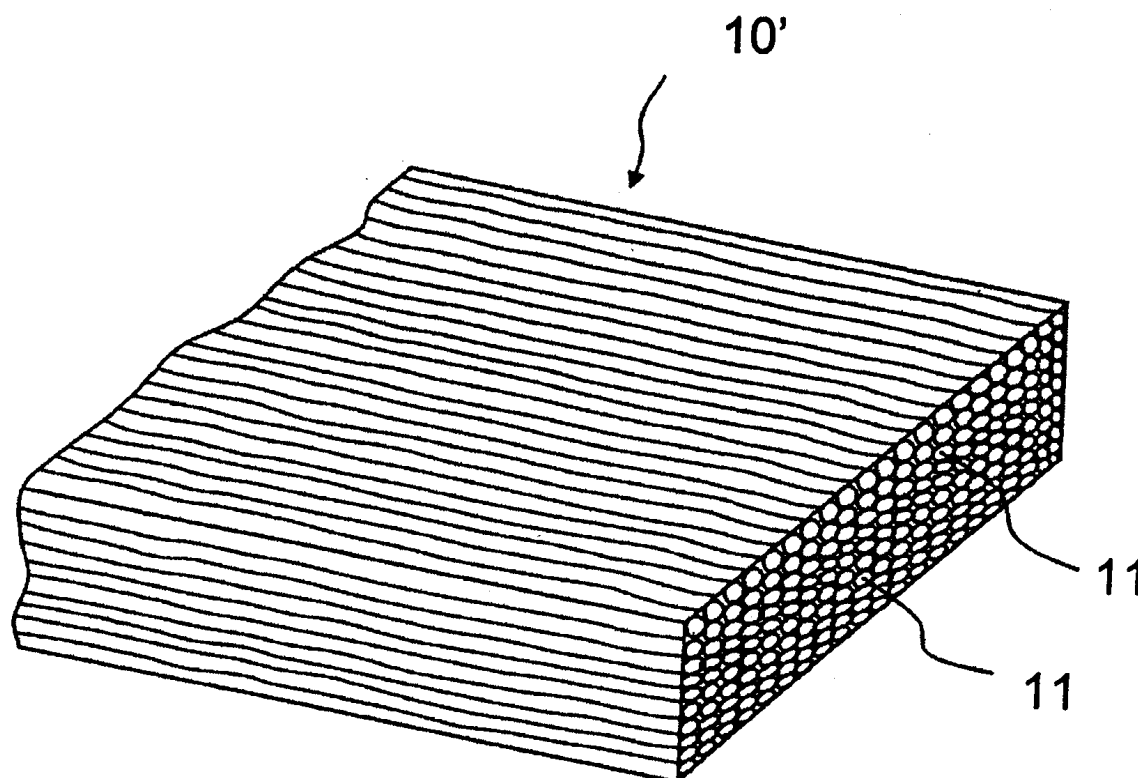
ASAHI KASEI COLOR TECH

Family 93/100 - FAMPAT - ©Questel

Title

(EP2217645)

Manufacturing method of foamed heat-insulating material utilizing **paper** and starch

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

CN101827884

B

2012-11-21

CN101827884B

ES2389209

T3

2012-10-24

ES2389209

AT515530

T

2011-07-15

ATE515530

EP2217645

B1

2011-07-06

EP2217645



EP2217645	B1	2011-07-06	EP2217645				
CN101827884	A	2010-09-08	CN101827884				
EP2217645	A1	2010-08-18	EP2217645				
KR10-0954903	B1	2010-04-27	KR100954903				
WO2009/066147	A1	2009-05-28	WO200966147				
KR10-2009-0051444	A	2009-05-22	KR20090051444				
US20090127731	A1	2009-05-21	US20090127731				

Abstract

(EP2217645)

A foamed heat insulating material made of **paper**, starch and a polymer resin, specifically, polypropylene, and methods of **manufacturing** the same. The method includes providing **paper** powder, starch, and polypropylene as a major component of the foamed insulating material by setting a weight amount of the starch to be higher than that of the **paper** powder, setting a weight ratio of the polypropylene not greater than about 50 weight percent (%) of the major component, and the setting of a melt flow rate of the polypropylene to be between about 1 and about 15g/10 min; and foaming the major component by adding water to the **extruder**.

Inventors

KITAMURA SHUSHI

Latest standardized assignees - inventors removed

GLOBAL ECO REFOAM

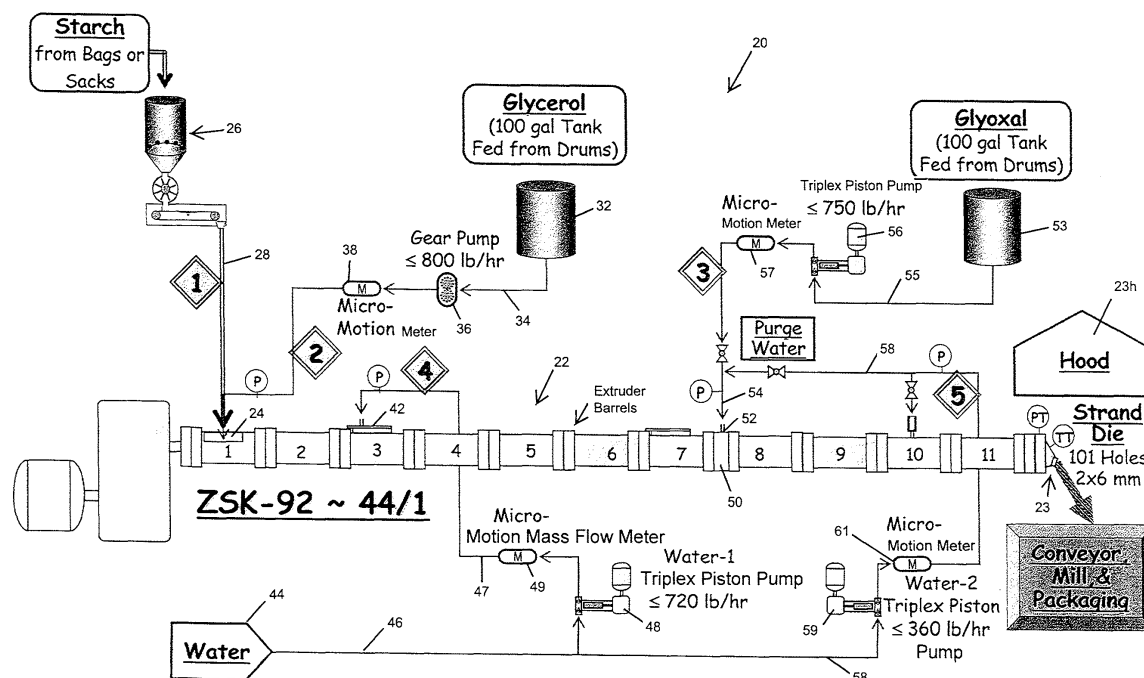
Family 94/100 - FAMPAT - ©Questel

Title

(EP2069431)

Process for producing a biopolymer nanoparticles product

Images



Publication numbers with kind code & date

BRPI0716663	B1	2019-08-27	BR200716663				
US9662824	B2	2017-05-30	US9662824				
EP2069431	B1	2017-04-05	EP2069431				
CN102862282	B	2016-12-21	CN102862282B				
MX341826	B	2016-09-05	MX-341826				
US9011741	B2	2015-04-21	US9011741				

KR101462431	B1	2014-11-17	KR101462431				
BRPI0716663	A2	2013-10-22	BR200716663				
EP2069431	A4	2013-07-17	EP2069431				
JP5232985	B2	2013-07-10	JP5232985				
US20130062807	A1	2013-03-14	US20130062807				
CN102862282	A	2013-01-09	CN102862282				
CN101535397	B	2012-12-26	CN101535397B				
AU2007285951	B2	2012-12-13	AU2007285951				
RU2457223	C2	2012-07-27	RU2457223				
US20110042841	A1	2011-02-24	US20110042841				
RU2009109258	A	2010-09-27	RU2009109258				
ZA200901007	B	2010-05-26	ZA200901007				
JP2010500937	A	2010-01-14	JP2010500937				
CN101535397	A	2009-09-16	CN101535397				
EP2069431	A2	2009-06-17	EP2069431				
KR20090053909	A	2009-05-28	KR20090053909				
IN0605/KOLNP/2009	A	2009-05-15	IN2009KN00605				
MX2009001688	A	2009-02-25	MX2009001688				
WO2008/022127	A3	2008-04-24	WO200822127				
AU2007285951	A1	2008-02-21	AU2007285951				
CA2660612	A1	2008-02-21	CA2660612				
WO2008/022127	A2	2008-02-21	WO200822127				

Abstract

(EP2069431)

A process for producing a biopolymer nanoparticles product is disclosed. In this process, biopolymer feedstock and a plasticizer are fed to a **feed** zone of an **extruder** having a **screw** configuration in which the feedstock is process using shear forces in the **extruder**, and a crosslinking agent is added to the **extruder** downstream of the **feed** zone. The biopolymer feedstock and plasticizer are preferably added separately to the **feed** zone. The **screw** configuration may include two or more steam seal sections. Shear forces in a first section of the **extruder** may be greater than shear forces in an adjacent second section of the **extruder** downstream of the first section. In a post reaction section located after a point in which the crosslinking reaction has been completed, water may be added to improve die performance.

Inventors

WILDI ROBERT H

VAN EGDOM EDWARD

BLOEMBERGEN STEVEN

Latest standardized assignees - inventors removed

ECOSYNTHETIX

Family 95/100 - FAMPAT - ©Questel

Title

(CN101451328B)

Un-bleaching pulp prepared by alkaline steam cooking wheat straw raw material, preparation method and use thereof

Publication numbers with kind code & date

CN101451328 B 2010-12-08 CN101451328B

CN101451328 A 2009-06-10 CN101451328

**Abstract**

(CN101451328)

The invention relates to unbleached pulp prepared by the alkaline cooking of a rice straw raw material, a preparation method thereof and application thereof. The whiteness of the unbleached pulp is 40 to 55 percent ISO, the fracture length is between 5.0 and 7.6km, the tearability is between 230 and 280mN, the folding times are between 13 and 70, and the

beating degree is between 32 and 38 DEG SR. The preparation method comprises the steps of alkaline cooking and oxygen delignification, wherein the alkaline cooking is to cook the rice straw raw material into high-hardness pulp the harness of which has a potassium permanganate value of between 16 and 28 and is equivalent to a Kappa number of between 24 and 50. The unbleached pulp has higher strength, particularly has the fracture length and the folding times which exceed the level of hardwood pulp, can be used for manufacturing corrugated paper, lunch boxes, and packing paper which have quite high strength, or is applied to manufacturing other paper products more widely only by adding little wood pulp, greatly reduces the cost for products, and also ensures the strength of the products. The method performs oxygen delignification treatment by controlling the hardness of the pulp obtained by the cooking, which can ensure that lignin is effectively removed and also try to reduce the degradation of fiber, thereby obtaining the unbleached pulp with good strength.

Inventors

CHEN SONGTAO

SONG JIANJUN

SONG MINGXIN

YANG JIHUI

Latest standardized assignees - inventors removed

SHANDONG FUYIN PAPER MAKING ENVIRONMENTAL PROTECTI

Family 96/100 - FAMPAT - ©Questel

Title

(JP2007211184)

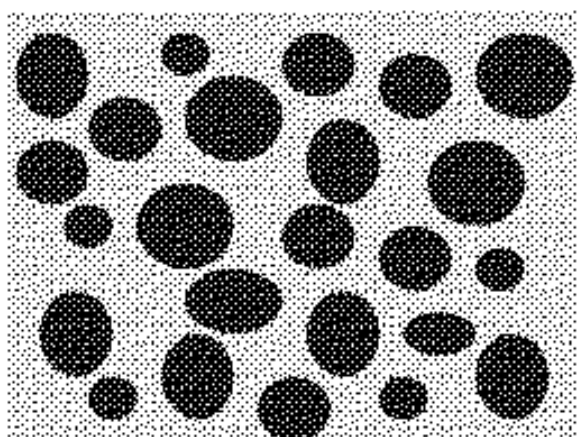
Thermoplastic elastomer composition and method for producing the same

Images

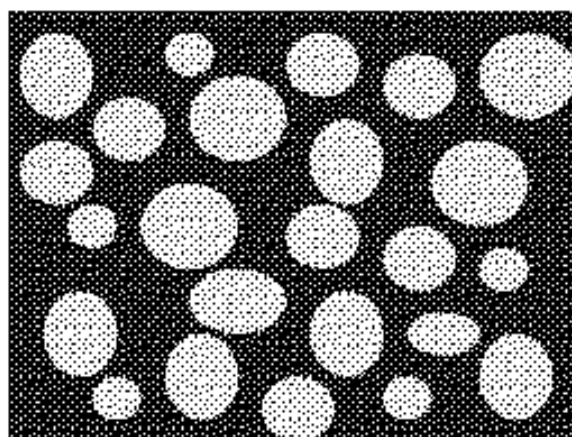
(a)



(b)



(c)



ゴム成分



樹脂成分

**Publication numbers with kind code & date**

JP5157070	B2	2013-03-06	JP5157070
JP2007211184	A	2007-08-23	JP2007211184

**Abstract**

(JP2007211184)

PROBLEM TO BE SOLVED: To provide a method for stably producing a thermoplastic elastomer composition which is excellent in a balance between mechanical characteristics such as flexibility and elastic recovery and molding processability.

SOLUTION: This method for producing the thermoplastic elastomer composition, comprising supplying a raw material composition comprising an un-cross-linked rubber, a thermoplastic resin, and a cross-linking agent into a raw material introduction portion of the continuous counter-rotating twin-screw kneader of an extruder manufactured by disposing the continuous counter-rotating twin-screw kneader on the upper flow side and a corotating twin-screw extruder on the downstream side in series, thereby mixing and dispersing the raw material composition with the continuous counter-rotating twin-screw kneader, and then supplying the kneaded product to the corotating twin-screw extruder with the continuous counter-rotating twin-screw kneader to produce the dynamically cross-linked thermoplastic elastomer composition, is characterized in that the cross-link degree Z of a cross-linked polymer component in the kneaded product at the exit of the extruder is 80 to 100%, and the cross-link degree Z_i of a cross-linked polymer component in the kneaded product at the exit of the kneader is $\leq +85\%$ of the cross-link degree Z .

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Inventors

KANAE KENTARO

NAKANISHI HIDEO

KOBAYASHI MASAHIRO

MAEDA MINORU

Latest standardized assignees - inventors removed

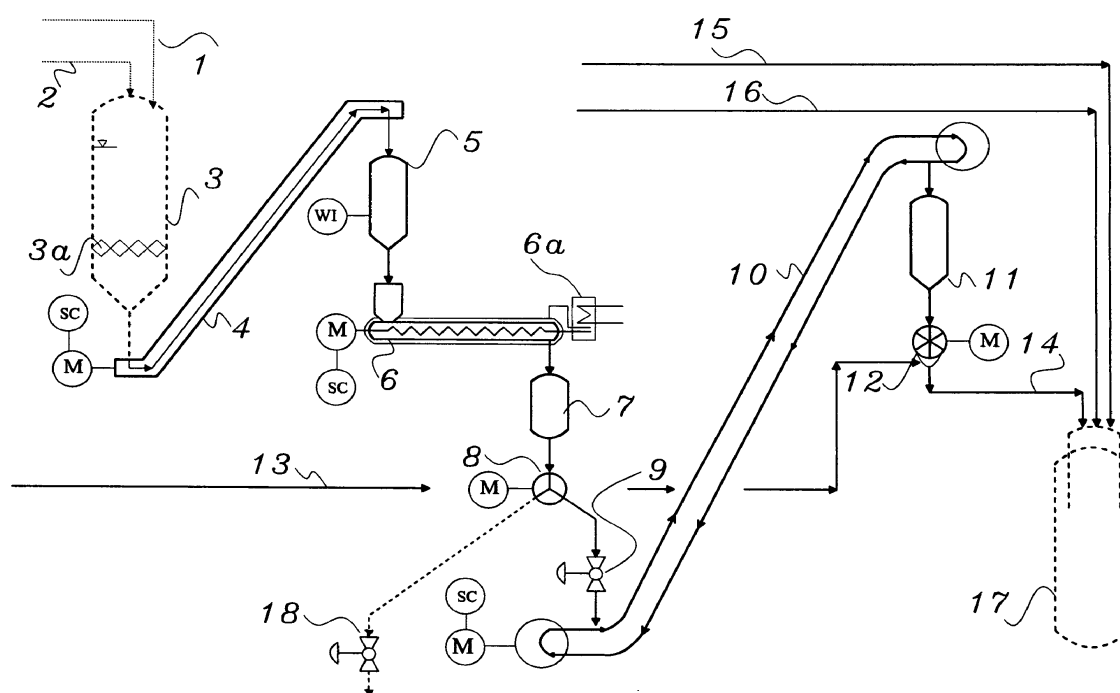
JSR

Family 97/100 - FAMPAT - ©Questel

Title

(EP2302018)

Method and system for continuous dry moving of a material for loading a pressurised reactor which is to be partially oxidised

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

IN2891/DELNP/2012	A	2016-08-31	IN2012DN02891
WO2011/037606	A3	2013-08-01	WO201137606
US20120182827	A1	2012-07-19	US20120182827
WO2011/037606	A2	2011-03-31	WO201137606
EP2302018	A1	2011-03-30	EP2302018

**Abstract**

(EP2302018)

The method involves supplying partial material i.e. carbon dust (1), to be oxidized to an **extruder** (6) from a pressureless silo (3) to experience **compression** up to actual operating pressure of a coal gasification reactor (17) in a **compression** zone of an **extruder**. Heat generated by the **compression** and friction is dissipated in the **extruder** from goods to be conveyed by a cooling system such that residual moisture in the material does not evaporate during the **compression**. The heat is continuously dissipated with coolant over a mantle surface and/or a shaft of the **extruder**. An independent claim is also included for a system for continuous dry conveying of partial material to be oxidized for feeding of a pressurized reactor i.e. coal gasification reactor.

(From EP2302018 A1)

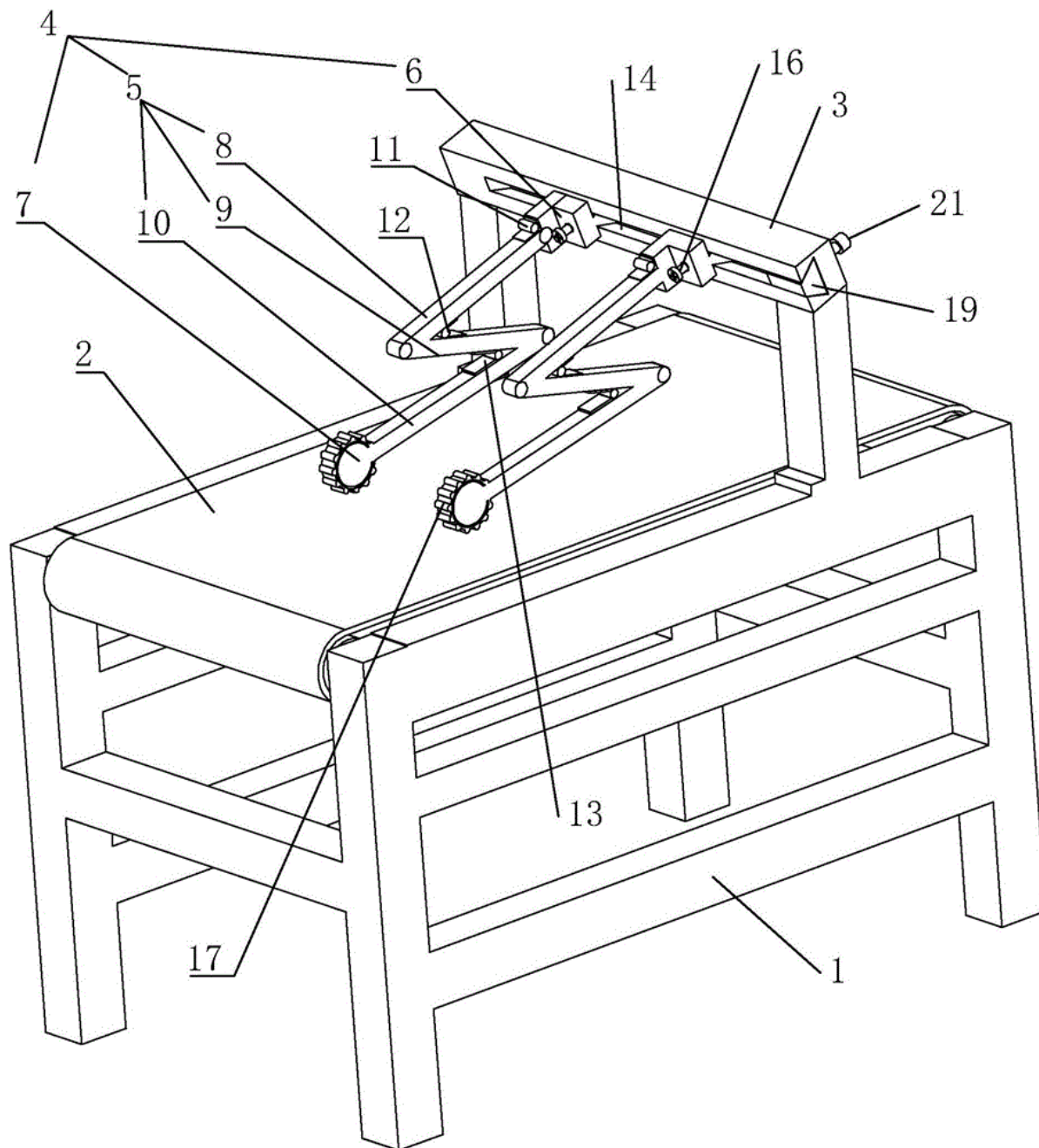
Inventors

BAIRAMIJAMAL FARAMARZ

Family 98/100 - FAMPAT - ©Questel

Title

(CN206013649U)

Paper corrugated board produces conveyer**Images****Publication numbers with kind code & date**[CN206013649](#)

U

2017-03-15

CN206013649U

**Abstract**

(CN206013649)

The utility model discloses a **paper** corrugated board produces conveyer, its technical scheme main points are including the frame, establish the conveyer belt in the frame, be provided with the support that is located the conveyer belt upside in the frame, be provided with the putting to the pressure equipment in the conveyer belt surface of contradicting on the support, be provided with the spout on the support, and the cross -section of spout is the wedge setting, the one end slidable mounting of the first depression bar of slider raw materials just closes with chute match in the spout, orientation towards the

spout on the slider is provided with the **screw**, be provided with the **screw** rod in the **screw**. The utility model discloses a **paper** corrugated board produces conveyer can support and press **paper** corrugated board on the conveyer belt surface, has avoided **paper** corrugated board the drift to appear on the conveyer belt and has followed the condition that the conveyer belt drops.

Inventors

ZHANG YUHUA

Latest standardized assignees - inventors removedANJI GELIN **PAPER** BOX FACTORY

Family 99/100 - FAMPAT - ©Questel

Title

(EP-928309)

Process for producing thermoplastics

Images

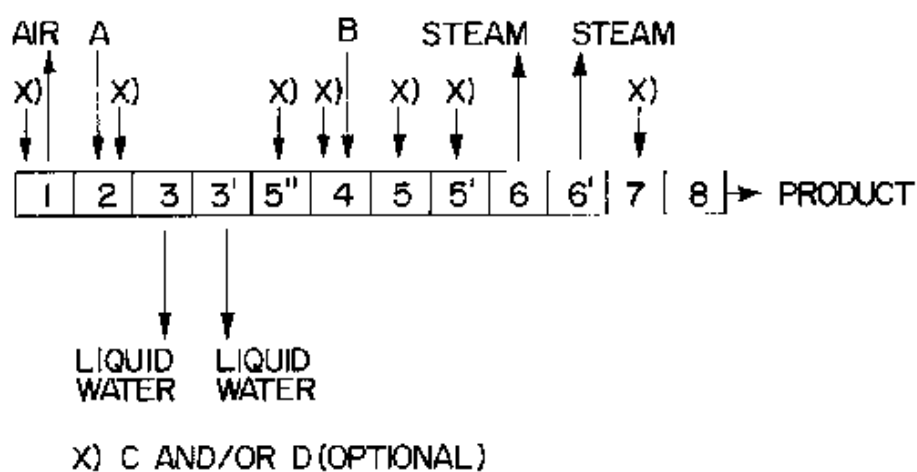


FIG. I

Publication numbers with kind code & date

IN2123/MAS/1997	A	2005-03-25	IN1997CH02123
MY118208	A	2004-09-30	MY-118208
CA2266420	C	2003-12-02	CA2266420
CN1088725	C	2002-08-07	CN1088725C
KR10-0338968	B1	2002-05-30	KR100338968
TW477740	B	2002-03-01	TW-477740
ES2158515	T3	2001-09-01	ES2158515
DE59703819	D1	2001-07-19	DE59703819
AT202125	T	2001-06-15	ATE202125
EP0928309	B1	2001-06-13	EP-928309
JP3126389	B2	2001-01-22	JP3126389



US6165399	A	2000-12-26	US6165399				
CZ107699	A3	2000-09-13	CZ9901076				
KR2000-0048600	A	2000-07-25	KR20000048600				
JP2000507176	A	2000-06-13	JP2000507176				
AR009371	A1	2000-04-12	AR---9371				
SG64169	B	2000-01-25	SG--64169				
CN1238791	A	1999-12-15	CN1238791				
PL332504	A1	1999-09-13	PL97332504				
BR9712121	A	1999-08-31	BR9712121				
EP0928309	A1	1999-07-14	EP-928309				
SG64169	A1	1999-04-27	SG--64169				
AU4773897	A	1998-04-17	AU9747738				
CA2266420	A1	1998-04-02	CA2266420				
WO98/13412	A1	1998-04-02	WO9813412				

Abstract

(EP0928309)

A process is disclosed for producing thermoplastics modified to be impact-resistant or polymer blends containing such modified thermoplastics. The thermoplastics or polymer blends contain: (A) 5 to 95 wt % of at least one water-wet elastomer component A which contains up to 60 wt % residual water; (B) 5 to 95 wt % of at least one thermoplastic polymer B; (C) 0 to 95 wt % of at least another polymer C; and (D) 0 to 70 wt % additives D. The elastomer component A is mixed with the thermoplastic polymer B, if available with the other polymer C and if available with the additives D in a **screw**-machine while mechanically dewatering the elastomer component A. The process is characterised in that components A, B, C and D are supplied to an **extruder** with at least two screws that rotate in the same or opposite directions and have a diameter D_{screw}. Seen in the feeding direction (downstream), the **extruder** substantially consists of at least one dosing section in which the elastomer component A is supplied to the **extruder** by a dosing device; at least one squeezing section for dewatering the elastomer component A having at least one pressure element and at least a corresponding dewatering opening located upstream of the (first) pressure element at a distance therefrom equal to at least one **screw** diameter D_{screw}; at least one feeding section in which the thermoplastic polymer B is fed into the **extruder** as a molten mass; at least one plasticising section fitted with mixing and/or kneading elements; at least one degassing section with at least one degassing hole in which the residual water is removed as steam; and an extraction zone. The water expelled through the dewatering openings is partially or totally present in the liquid phase, and components C and/or are supplied together or separately, either together with components A and/or B or separately from A and B in one or more of the above-mentioned **extruder** sections.

Inventors

GUENTHERBERG NORBERT

HOFMANN JUERGEN

MAILAHN ELMAR

OHLIG HILMAR

CZAUDERNA BERNHARD

GRABOWSKI SVEN

BUS KLAUS

Latest standardized assignees - inventors removed

STYROLUTION EUROPE

Family 100/100 - FAMPAT - ©Questel

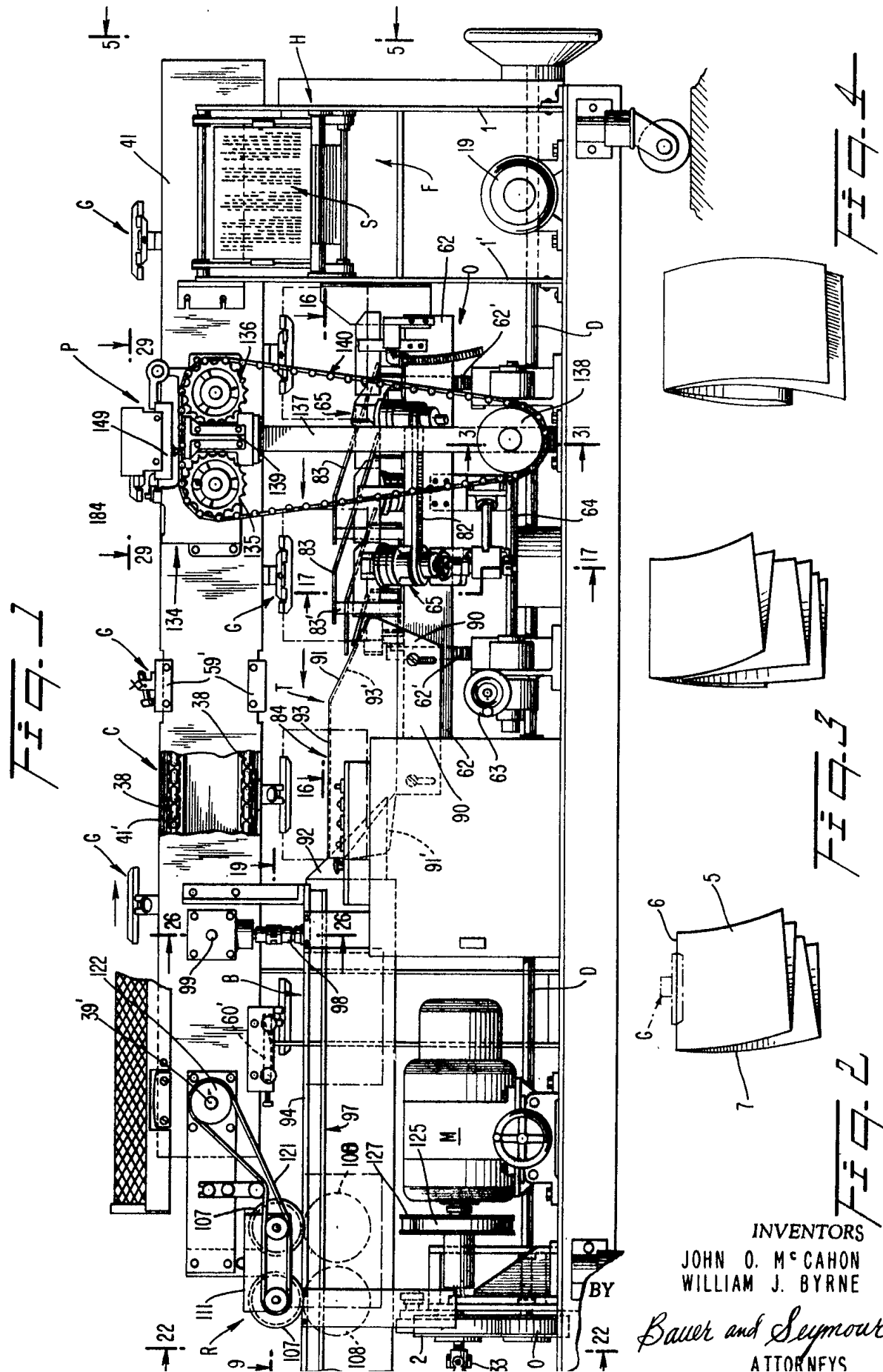
Title

(US3591165)

Method and apparatus for handling sheet material, signatures and the like

Images

SHEET 01 OF 17



Publication numbers with kind code & date

US3810612

A 1974-05-14

US3810612

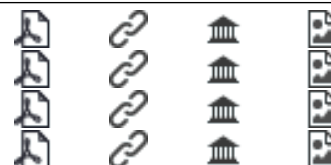
US3783991

A 1974-01-08

US3783991



GB1241595	A	1971-08-04	GB1241595
US3591165	A	1971-07-06	US3591165
CH495270	A	1970-08-31	CH-495270
DE1817006	A1	1969-08-28	DE1817006

**Abstract**

(US3591165)

Apparatus for feeding signatures from a stack thereof in gathered predetermined sequence to a book-sewing machine or the like, comprising means for transferring signatures one at a time from a **feed** hopper by rotary grippers and **feed** rollers to linearly traveling grippers, suction and lap-engaging means for opening signatures suspended from the traveling grippers, and means for rotating the suspended, opened signatures through 180 (degree) and depositing the same on a pusher-type saddle **conveyor** for movement thereby through fold-conditioning means and for delivery to the sewing saddle of a book sewer or the like, including operational programming means for the feeding and sewing apparatuses and means for detecting improper functioning thereof.

Inventors

MCCAHOON JOHN O

BYRNE WILLIAM J

Latest standardized assignees - inventors removed

SMYTH **MANUFACTURING**