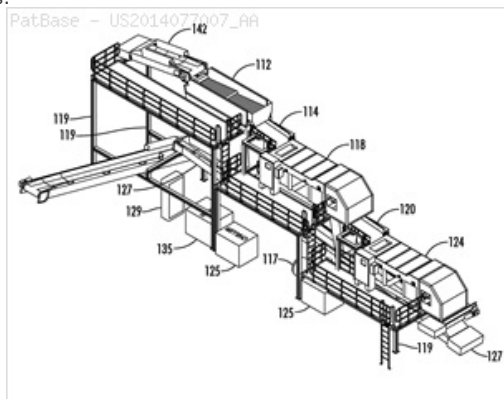


1) Family number: 56019793 (US2014077007A)

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Title: METHODS OF PROCESSING WASTE MATERIAL TO RENDER A COMPOSTABLE PRODUCT

Abstract: Disclosed herein are methods of processing municipal solid waste in order to isolate a compostable product. The methods and system disclosed allow for municipal solid waste to be separated into an organic fraction and an inorganic fraction. The purity of the organic fraction may be enhanced in certain methods. The overall yield of organic material may be increased by subjecting inorganic material to further separation steps.

Classifications:**International (IPC 8-9):** B02C23/08 B07B9/00 (Advanced/Invention)**CPC:** B07B9/00 B02C23/08 B03B9/06 B07B1/14 B07C5/00 Y02W30/523**US:** 209/12.1 209/44.1 241/24.12 241/68**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

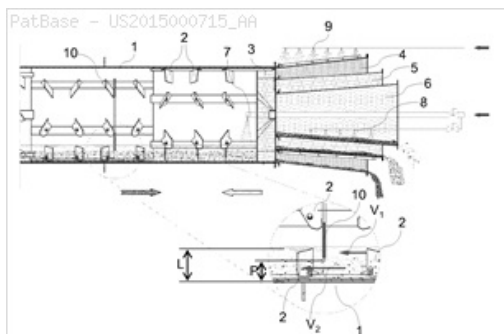
US20120703355P 20120920 US20130786923 20130306

Probable Assignee: NATIONAL RECOVERY TECHNOLOGIES LLC**Assignee(s):** (std): NAT RECOVERY TECHNOLOGIES LLC**Assignee(s):** NATIONAL RECOVERY TECHNOLOGIES LLC**Inventor(s):** (std): PARRISH ROBERT H ; CAMPBELL DANE H ; SOMMER JR EDWARD J**2) Family number: 54588716** (US2015000715A)

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Title: ROTARY DRUM WASHER FOR STREET SWEEPING WASTE AND CONTAMINATED SOIL

Abstract: A horizontal rotary drum in which the materials to be treated are introduced through a feed hopper together with a water flow admitted through treatment nozzles so as to form a suspension of water and materials is described. The horizontal rotary drum has inclined paddles that move forward the heavy materials deposited on the bottom of the drum towards an exit end where an extractor conveys them towards concentric screening means, a stop ring being arranged transversally inside the drum so as to leave only a peripheral annular passage having a height lower than the level of the suspension of water and materials present on the bottom of the drum so as to stop the lighter organic contaminants that are in the upper part of the suspension. Means for slightly inclining the axis of the rotary drum within a small angular interval, as well as with clod-breaking teeth for treating clayey materials are also described.

Classifications:**International (IPC 8-9):** B03B5/56 B03B9/06 B07B1/24 B08B3/02 B08B3/04 B08B3/06 B09C1/02 (Advanced/Invention)**CPC:** B08B3/02 B08B3/044 B08B3/06 B08B3/042 B03B5/56 B07B1/24 B09C1/02**US:** 134/120**Family:**

Publication number	Publication date	Application number	Application date
AU2013227378 AA	20130906	AU20130227378	20130201
AU2013227378 BB	20170202	AU20130227378	20130201
CN104114289 A	20141022	CN201380009543	20130201
CN104114289 B	20160629	CN201380009543	20130201
DE602013004137 D1	20160121	DE201360004137T	20130201
EP2814621 A1	20141224	EP20130713510	20130201
EP2814621 B1	20151209	EP20130713510	20130201

ES2563857 T3	20160316	ES20130713510T	20130201
ITMI20120225 A1	20130817	IT2012MI00225	20120216
US2015000715 AA	20150101	US20130371419	20130201
US8967166 BB	20150303	US20130371419	20130201
WO13128310 A1	20130906	WO20131B50873	20130201

Priority:

IT2012MI00225 20120216 EP20130713510 20130201 WO20131B50873 20130201

Probable Assignee: ECOCT TECNOLOGIE AMBIENTALI S P A

Assignee(s): (std): ECOCENTRO TECNOLOGIE AMBIENTALI S P A ; ECOCT TECNOLOGIE AMBIENTALI S P A

Assignee(s): ECOCENTRO TECNOLOGIE AMBIENTALI SP A ; ECOCENTRO TECNOLOGIE AMBIENTALI SPA

Inventor(s): (std): ESPOSITO EZIO

Agent(s): FB RICE; FB RICE PTY LTD; BREVETTI SOC IT SPA; CONCONE EMANUELE; STEINFL AND BRUNO LLP; CONCONE EMANUELE ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 53192942 (US2014246358A)

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Title: METHOD FOR SOLID WASTE SEPARATION AND PROCESSING

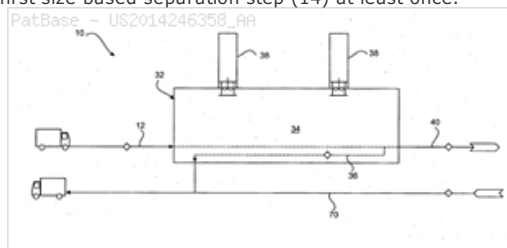
Abstract: A method for solid waste separation and processing (10) comprising the method steps of: (a) Passing a municipal solid waste (12) to a first size based separation step (14) producing at least a fine organic fraction(16) and a coarse fraction (18); (b) Passing the fine organic fraction (16) to a digestion process (20) by way of a glass and grit separation step (24); and (c) Recirculating the coarse fraction (18) of step (a) through the first size based separation step (14) at least once.

Classifications:

International (IPC 8-9): B03B B03B5/00 B03B5/28 B03B7/00 B03B9/00 B03B9/06 B03C B03C1/00 B03C1/16 B03C1/23 B03C1/24 B03C3/017 B03C3/08 B03C3/16 B07B1/22 B07B9/00 B09B3/00 B09B5/00 (Advanced/Invention)

CPC: B03B9/06 B03C3/017 B03C3/08 B03C3/16 B03B7/00

US: 1/1 209/12.1 209/17 209/38



Family:

Publication number	Publication date	Application number	Application date
AU2013201747 AA	20130314	AU20130201747	20120906
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AU2013201747 BB	20141211	AU20130201747	20120906
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EP2753430 A1	20140716	EP20120830077	20120906
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IN00670KN2014 A	20140516	IN2014KN00670	20140326
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MX2014002604 A1	20140522	MX20140002604	20120906
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TW201325750 A	20130701	TW20120132510	20120906
TWI544974 B	20160811	TW20120132510	20120906
US2014246358 AA	20140904	US20120342062	20120906
US9138751 BB	20150922	US20120342062	20120906
WO13033776 A1	20130314	WO2012AU01061	20120906
ZA201401131 A	20151125	ZA20140001131	20140214

Priority:

AU20110903618 20110906 AU20130201747 20120906 WO2012AU01061 20120906

Probable Assignee: ANAECO LTD

Assignee(s): (std): ANAECO LTD ; FULARA JANUSZ KRZYSZTOF ; GRAVETT MARTIN RICHARD

Assignee(s): ANAECO LIMITED

Inventor(s): (std): FUKARA JANUSZ KRZYSZTOR ; FULARA JANUSZ KRZYSZTOF ; GRAVETT MARTIN RICHARD ; MARTIN RICHARD GRAVETT ; JANUSZ KRZYSZTOF FULARA

Agent(s): WRAYS; GIERCZAK EUGENE J A; SANDERSON NIGEL PAUL; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; ROTHWELL FIGG ERNST AND MANBECK PC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: SEPARATION APPARATUS

Abstract: A separation-apparatus for separating from a particle-stream at least a first fraction with particles of a first group of dimensions, and a second fraction with particles of a second group of dimensions, comprising an infeed-device (2, 10) for the particle-stream, a rotatable drum (5) having at its circumference plates (6, 6), each plate having a radially extending hitting surface for the particles, at least a first receiving area (12) proximal to the drum for receipt therein of particles of the first fraction, and at least a second receiving area (11) distant from the drum for receipt therein of particles of the second fraction, wherein a conveyor (17) in the second receiving area (12) moves during use at a speed of at least 2 m/s.

Classifications:

International (IPC 8-9): B07B B07B11/00 B07B13/10 B07B13/11 B07B13/16 B07B15/00 B07B4/00 B07B4/02

B07C5/00 (Advanced/Invention);

B07B (Subclass/Invention)

CPC: B07B13/10 B07B13/116 B07B13/16 B07B15/00 B07B4/00

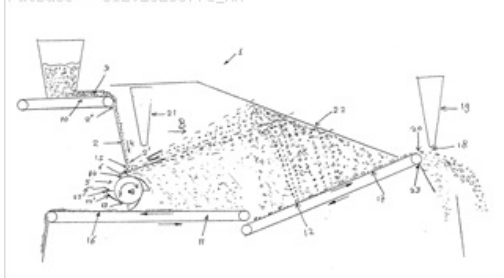
B07B4/02 B07B11/00 B07B13/11

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US: 1/1 209/631 209/640 209/644 209/659 209/689 209/691

209/695 209/696

PatBase - US2013233776_HR

**Family:**

Publication number	Publication date	Application number	Application date
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CN103118808 A	20130522	CN201180041845	20110715
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EP2598256 A1	20130605	EP20110736196	20110715
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ES2527192 T3	20150121	ES20110736196T	20110715
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HR20141255 T1	20150313	HR20140001255	20141223
IN01301CN2013 A	20160603	IN2013CN01301	20130218
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KR20140016229 A	20140207	KR20137005033	20110715
RS53736 B1	20150630	RS20140000706	20110715
RU2013103615 A	20140910	RU20130103615	20110715
RU2574238 C2	20160210	RU20130103615	20110715
SG187235 A1	20130228	SG20130006788	20110715
UA110622 C2	20160125	UA20130002436	20110715
US2013233776 AA	20130912	US20110812222	20110715
US2015273529 AA	20151001	US20150696230	20150424
US9033157 BB	20150519	US20110812222	20110715
US9339848 BB	20160517	US20150696230	20150424
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ZA201301006 A	20140730	ZA20130001006	20130206

Priority:

EP20100171151 20100728 EP20110736196 20110715 WO2011NL50515 20110715
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Probable Assignee: ADR TECHNOLOGY BV

Assignee(s): (std): ADR TECHNOLOGY BV ; BERKHOUT SIMON PETER MARIA ; INASHCO R AND D B V ; INASHCO R AND D BV ; REM PETER CARLO

Inventor(s): (std): REM PATER CARLO ; REM PETER CARLO ; BERKHOUT SIMON PETER MARIA

Inventor(s): BERKHOUT SIMON PETER MARIA 2614 LC ; PETER CARLO REM ; REM PETER CARLO 2288 AB ; SIMON PETER MARIA BERKHOUT

Agent(s): GOLJA HAINES AND FRIEND; BORDEN LADNER GERVAIS LLP; SARGENT AND KRAHN; LUZ CLEMENCIA DE PAEZ; VEREENIGDE OCTROOIBUREAUX VO; VAN BREDA JACOBUS; JANSSEN CORNELIS MARINUS; CARPINTERO MARIO; LAZCANO JESUS; NTD PATENT AND TRADE MARK AGENCY LTD; SWANSON AND BRATSCHEUN LLC; VAN BREDA JACQUES

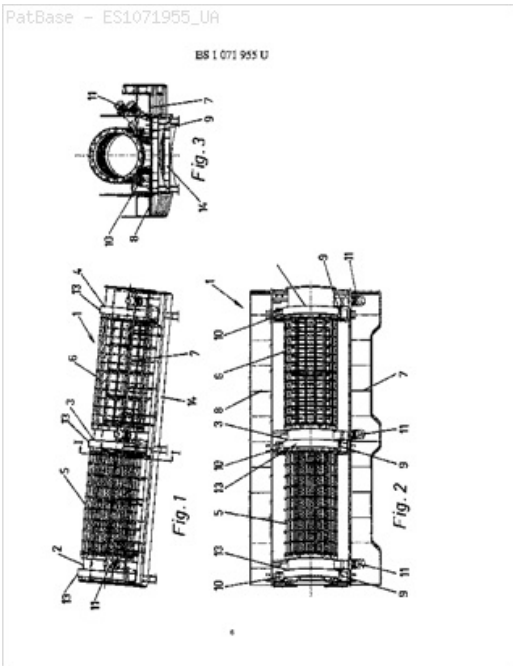
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Title: TROMEL CLASIFICADOR DE ROCAS DE GRAN VOLUMEN TROMEL CLASSIFICATION OF ROCKS OF HIGH VOLUME
(Machine translation)

Abstract: Source: ES1071955U [ES] 1. Tromel clasificador de rocas de gran volumen, siendo del tipo de tromel rotativo constituido por un cuerpo tubular orificado de bases abiertas que se encuentra instalado con una inclinación descendente desde su base de alimentación del producto a la base de salida, teniendo como objeto la clasificación de rocas de gran volumen, pudiendo ser rocas provenientes de cantera, como materiales de derribo y demolición, caracterizado porque el tromel clasificador (1) comprende un cuerpo cilíndrico en el que se definen tres zonas ciegas (2, 3 y 4) y dos cuerpos filtrantes (5 y 6) cilíndricos montados sobre una bancada (14), disponiendo a ambos lados laterales sendas pasarelas (7 y 8) de acceso, de forma que en las zonas ciegas (2, 3 y 4) incorpora unos medios de rodadura sobre los que gira libremente el cuerpo cilíndrico, estando definidos los medios de rodadura por unos trenes de rodadura, disponiendo cada uno de ellos de una rueda motriz (9) y una rueda (10) conducida, transmitiendo movimiento a la rueda motriz (9) el correspondiente motor-reductor (11) y quedando el tromel clasificador retenido axialmente por unas estaciones de retención definidas por tres rodillos (12). 2. Tromel clasificador de rocas de gran volumen, según reivindicación 1ª, caracterizado porque los dos cuerpos filtrantes (5 y 6) constituyentes del tromel clasificador quedan entre respectivas zonas ciegas. 3. Tromel clasificador de rocas de gran volumen, según reivindicación 1ª, caracterizado porque la pareja de ruedas y (10) que definen los medios de rodadura sobre los que gira libremente el cuerpo cilíndrico conformante del tromel clasificador (1) son ajustables en anchura, garantizando un correcto asentamiento. 4. Tromel clasificador de rocas de gran volumen, según reivindicación 1ª, caracterizado porque las estaciones de retención axial del cuerpo cilíndrico conformante del tromel clasificador (1) están definidas por tres rodillos (12) recubiertos de poliuretano que se topan sobre unos aros (13) de retención perimetrales a las zonas ciegas (2, 3 y 4). 5. Tromel clasificador de rocas de gran volumen, según reivindicaciones 1ª y 4ª, caracterizado porque los rodillos (12) de retención axial del cuerpo cilíndrico conformante del tromel clasificador (1) quedan montados contra unos muelles garantizando el contacto contra el aro (13) perimetral de retención absorbiendo las desalineaciones.

Machine translation: 1. Classifier Tromel large rocks, with rotating trommel type consisting of a tubular body orificado open database that is installed with an inclination downward from the base of feeding the product to departure base, having as object the classification of large rocks and may be rocks from the quarry, such as demolition and demolition materials, wherein the classifier trommel (1) comprises a cylindrical body which defines three blind spots (2, 3 and 4) and two filter body (5 and 6) mounted on a cylindrical base plate (14), having on both sides lateral walkways paths (7 and 8) of access, so that in the blind zones (2, 3 and 4) incorporates means of rolling on the freely rotating cylindrical body, being defined by the rolling means a running gear, having each of a driving wheel (9) and a wheel (10) driven by transmitting movement to the drive wheel (9) the corresponding geared motor (11) and leaving the trommel sorting axially retained by a retaining stations defined by three rollers (12). 2. Classifier Tromel large rocks, according to claim 1, wherein the two filter bodies (5 and 6) are constituents of the drum classifier between respective blind spots. 3. Trommel classifier rocks high volume, according to claim 1, wherein the pair of wheels (10) which define the rolling means on which freely rotates the cylindrical body conformant the trommel classifier (1) are adjustable in width, ensuring a proper settlement. 4. Tromel classifier rocks high volume, according to claim 1, wherein the stations retaining axial cylindrical body conformant of the drum classifier (1) are defined by three rollers (12) coated with polyurethane encounter on a ring (13) of a perimeter retention blind zones (2, 3 and 4). 5. Tromel classifier rocks high volume, according to claims 1 and 4 th, wherein the rollers (12) retaining axial cylindrical body conformant of the drum classifier (1) are mounted against springs ensuring contact against the rim (13) Edge retention absorbing misalignments.

Classifications:
International (IPC 8-9): B07B1/22 (Advanced/Invention);
B07B1/18 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
ES1071955 UA	20100430	ES20100030137U	20100218
ES1071955 Y1	20100727	ES20100030137U	20100218

Priority:

ES20100030137U 20100218

Probable Assignee: IND LEBLAN S L
Assignee(s): (std): IND LEBLAN S L
Assignee(s): INDUSTRIAS LEBLAN S L
Inventor(s): (std): RALLO FERNANDEZ VIZARRA GERMAN

Abstract: Methods and systems for separating a mixed waste into a wet organic fraction, a dry organic fraction, and an inorganic fraction are achieved by (i) comminuting the mixed solid waste, (ii) fractionating the comminuted stream by size to produce two or more particle-sized waste streams, and (iii) processing one or more of the particle-sized waste streams using density separation to produce an intermediate wastes stream, and (iv) recovering a homogenous product (e.g., a recyclable material or an organic fuel) from the intermediate waste stream.

Classifications:

International (IPC 8-9): B02C18/00 B02C19/00 B02C23/00 B02C23/08 B02C23/14 B02C23/18 B03B9/06 B03C1/00 B03C1/02 B03C1/18 B03C1/23 B03C1/24 B03C1/247 B03C1/30 B07B1/00 B07B11/04 B07B11/06 B07B13/04 B07B13/08 B07B15/00 B07B4/02 B07B4/04 B07B9/00 B07B9/02 B09B B09B3/00 B09B5/00 B29B17/02 C02F C02F11/04 C02F11/12 C08J C08J11/00 C08J11/04 C10G1/10 C10L C10L1/00 C10L3/00 C10L3/08 C10L3/10 C10L5/00 C10L5/46 C12P3/00 C12S3/00 C12S99/00 C22B1/00 C22B7/00

F02B63/04 (Advanced/Invention);

B29B17/02 (Advanced/Non-invention);

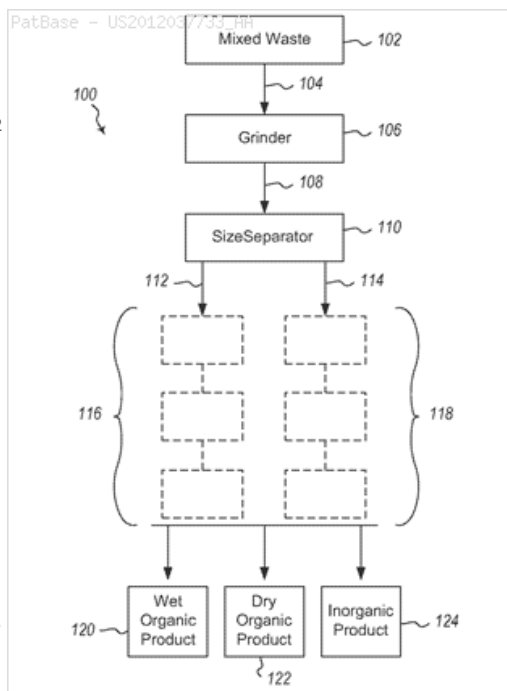
B09B C02F C08J C10L (Subclass/Invention)

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CPC: B02C23/14 B02C23/18 B03B9/06 Y02W30/521 Y10T29/49755 C12P3/00 Y02W10/37 B09B3/00 B09B5/00 B29B17/02 C10G1/10 C10G2300/1003 C10L5/46 Y02E50/10 Y02E50/30 Y02P20/129 Y02P20/136 Y02T10/16 Y02W30/20 Y02W30/622 B03C1/18 B03C1/247 B03C1/30 B03C2201/18 B07B4/02 B07B9/00 B07B11/04 B07B11/06 Y02E50/343 Y02W30/525 Y02W30/526 B07B9/02 B29B2017/0279 B29K2023/065 B29K2027/06 B29K2067/003 B02C23/08 B07B15/00 C10L2290/08 C10L2290/26 C10L2290/54 B02C18/0084 B02C18/142 B02C18/145 C10L3/00 C10L5/40 C10L5/403 C10L5/406 C10L5/42 C10L5/442 C10L5/445 C10L5/48 C10L2250/06 C10L2290/28 B07B13/003 B02C19/00 C10L3/08 C10L3/102 C10L3/106 C12P5/023

European: B02C23/08 B03C1/18 B03C1/247 B03C1/30 B07B11/04 B07B11/06 B07B4/02 B07B9/00 C10G1/10 C10L3/08 C10L3/10B2 C10L3/10B6 C10L5/46 L03C201/18

US: 1/1 209/3.1 209/3.100S 209/44 241/19 241/20 241/24.1 241/24.100P 241/24.12 241/24.13 241/24.130P 241/24.14 241/24.16 241/24.17 241/24.18 241/24.19 241/24.2 241/24.22 241/68 241/68S 241/79 241/79.1 241/DIG.38 29/403.3 290/1.00RS 290/1R 435/166 435/168 435/262 435/262S 435/267 435/267P 44/307 44/307S 44/605 44/605S 521/40 521/40S



Family:

Publication number	Publication date	Application number	Application date
BR112013012860 A2	20170919	BR20131112860	20111006
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CA2818920 AA	20130523	CA20112818920	20111005
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US9061289 BB	20150623	US20130794214	20130311
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US9700896 BA	20170711	US20140181718	20140216
US9713812 BA	20170725	US20120612037	20120912
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WO12071112 A1	20120531	WO2011US55003	20111005
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WO13032516 A1	20130307	WO2011US68245	20111230

Priority:

US20090291177P	20091230	US20100298208P	20100125	US20100897996	20101005
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US20110221647	20110830	US20110533528P	20110912	WO2011US55003	20111005
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US20170597075	20170516				

Probable Assignee: ORGANIC ENERGY CORP

Assignee(s): (std): GARDNER KURT ; GISTSCHEL GEORGE ; ORGANIC ENERGY CORP ; GITSCHEL GEORGE ; BUCKLE LARRY L ; BUCKLE LARRY T ; HARRIS GREGORY

Assignee(s): BELANGER BRANDON ; COLLINS COOPER ; ROLLIN HOLDINGS LLC

Inventor(s): (std): GITSCHEL GEORGE ; HARRIS GREGORY ; GARDNER KURT ; BUCKLE LARRY L ; GISTSCHEL GEORGE ; BUCKLE LARRY T ; GITSCHEL GEORGE G ; GEORGE GITSCHEL ; GEORGE GITSCHEL ; GITSCHEL GEORGE K

Agent(s): OSLER HOSKIN AND HARCOURT LLP; SCHWARZ AND PARTNER; PATPOL KANCELARIA PATENTOWA SP Z OO; ORIENTAL INTELLECTUAL PROPERTY SERVICES CO; WORKMAN NYDEGGER; HANSEN ANDREW S ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 44165297 (US2010038594A)

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Title: SYSTEM AND METHOD FOR INTEGRATED WASTE STORAGE

Abstract: The present invention provides integrated bunker storage systems for waste streams based on the composition and characteristics of waste streams. In particular, the present invention provides a process for generating individual waste streams based on a set of material characteristics. According to the system and method of the present invention, individual waste streams from wastes stored in bunkers are mixed in a given feed ratio to generate a feed stock that will produce a desired output from a chemical conversion process, e.g., gasification. Optionally, composition data regarding the feed stock can be certified to a third party.

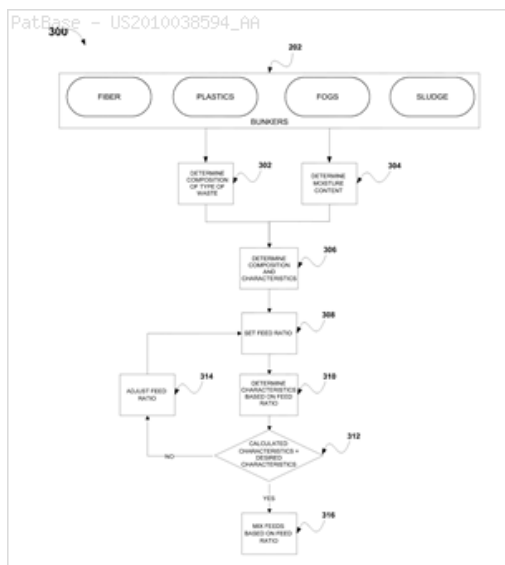
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International (IPC 8-9): B01J15/00 B07B15/00 B09B3/00 B29B17/02 B29K23/00 B29K67/00 C01B3/36 C10J3/00 C10J3/72 C22B1/00 C22B1/24 C22B7/00 F23G5/02 (Advanced/Invention); B29K23/00 B29K67/00 (Advanced/Non-invention); B01J15/00 B29B17/02 C01B3/00 C22B1/00 (Core/Invention)

CPC: B29B17/02 B29K2023/065 B29K2067/00 C22B1/24 Y02W30/54 Y02W30/622 C10J3/72 C10J2300/0946 C22B7/005 Y02P10/212

European: B29B17/02 C22B1/24 C22B7/00C L29K23/06B9 L29K67/00

US: 1/1 252/373 252/373P 422/164 422/164S



Family:

Publication number	Publication date	Application number	Application date
CA2728705 AA	20091230	CA20092728705	20090625
CN102083601 A	20110601	CN200980125176	20090625
CN106079159 A	20161109	CN201610596372	20090625
DE602009019362 D1	20131128	DE200960019362T	20090625
EP2321104 A1	20110518	EP20090771018	20090625
EP2321104 A4	20120516	EP20090771018	20090625
EP2321104 B1	20131009	EP20090771018	20090625

IN00415CN2011 A	20111111	IN2011CN00415	20110119
JP2011526320 T2	20111006	JP20110516656T	20090625
MX2010014188 A1	20110329	MX20100014188	20090625
US2010038594 AA	20100218	US20090491650	20090625
US2016090540 AA	20160331	US20150869027	20150929
US2018037830 AA	20180208	US20170629608	20170621
US9217188 BB	20151222	US20090491650	20090625
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WO09158486 A1	20091230	WO2009US48638	20090625

Priority:

US20080075988P 20080626 US20080075988 20080626 CN200980125176 20090625
EP20090771018 20090625 US20090491650 20090625 WO2009US48638 20090625
US20150869027 20150929 US20170629608 20170621

Probable Assignee: CASELLA WASTE SYSTEMS INC

Assignee(s): (std): BOHLIG JAMES W ; CASELLA DOUGLAS R ; CASELLA WASTE SYS INC ; RE COMMUNITY ENERGY LLC ;
ACCORDANT ENERGY LLC ; CASELLA WASTE SYSTEMS INC STAR

Assignee(s): ARES CAPITAL COLLATERAL AGENT AS CORP ; KEENELAND CAPITAL LLC ; SGP LAND LLC ; MPH
ENERGY LLC ; RE COMMUNITY ENERGY LLC RUTLAND ; CASELLA WASTE SYSTEMS INC ; WILMINGTON
TRUST CO COLLATERAL AGENT AS ; FCR LLC ; RE COMMUNITY HOLDINGS II INC ; RE COMMUNITY
ENERGRY LLC

Inventor(s): (std): BOHLIG JAMES W ; CASELLA DOUGLAS R ; DOUGLAS R CASELLA ; JAMES W BOHLIG

Inventor(s): BOHLIG JAMES ; CASELLA DOUGLAS

Agent(s): SMART AND BIGGAR; BASSIL NICHOLAS CHARLES; GRUND MARTIN; WILMERHALE/BOSTON;
WILMERHALE BOSTON; COOLEY LLP; HOBGOOD JOHN ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
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SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 43812072 (US2011084005A)

© PatBase

Title: SEPARATION-APPARATUS

Abstract: The invention relates to a separation-apparatus for separating from a particle-stream at least a first fraction with particles of a first group of dimensions, and a second fraction with particles of a second group of dimensions, comprising an infed-device for the particle-stream, a rotatable drum having at its circumference plates, each plate having a radially extending hitting surface for the particles, at least a first receiving area proximal to the drum for receipt therein of particles of the first fraction, and at least a second receiving area distant from the drum for receipt therein of particles of the second fraction, wherein the apparatus has a housing so as to protect the particles from outside weather-conditions, allowing that the particles of the particle-stream to be processed by said apparatus have dimensions in the range 0-15 mm.

Classifications:

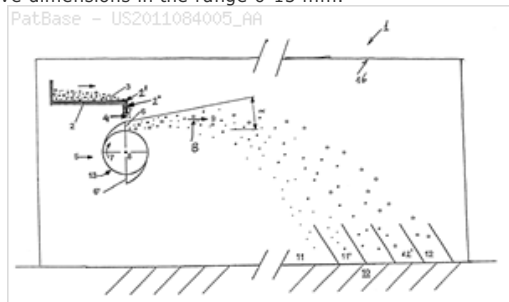
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B07B13/10 B07B13/16 B07B15/00 B07B4/00 B07B9/00
B07C5/00 (Advanced/Invention);
B07B13/00 B22C5/06 (Advanced/Non-invention);
B03B9/00 B07B13/10 (Core/Invention);
B07B (Subclass/Invention)

International (IPC 1-7): B03B9/04 B07B13/10

CPC: B07B15/00 B07B13/10 B07B13/003 B22C5/06

European: B07B13/10

US: 1/1 209/44.1 209/642



Family:

Publication number	Publication date	Application number	Application date
AU2009232548 AA	20091008	AU20090232548	20090401
AU2009232548 BB	20131219	AU20090232548	20090401
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CA2720279 AA	20091008	CA20092720279	20090401
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CN102083551 B	20151021	CN200980115792	20090401
DE202009018940 U1	20141224	DE200920018940U	20090401
DE602009054248 D1	20180927	DE200960054248T	20090401
DK3263231 T3	20181119	DK20170182187T	20090401
EA021329 B1	20150529	EA20100071152	20090401
EA201071152 A1	20110630	EA20100071152	20090401
EP2271441 A1	20110112	EP20090726543	20090401
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EP3263231 A1	20180103	EP20170182187	20090401
EP3263231 B1	20180829	EP20170182187	20090401
ES2693026 T3	20181207	ES20170182187T	20090401
HK1147714 A1	20110819	HK20110101842	20110224
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IL208389 A0	20101230	IL20090208389	20090401
IL208389 A1	20160929	IL20090208389	20090401
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JP5544353 B2	20140709	JP20110502880T	20090401
KR101579633 B1	20151222	KR20107023958	20090401
KR20110006665 A	20110120	KR20107023958	20090401
LT3263231 T	20181126	LT20170182187T	20090401
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NL2001431 C2	20091005	NL20082001431	20080402
PL3263231 T3	20190228	PL20170182187T	20090401
US2011084005 AA	20110414	US20090936058	20090401
US2016354807 AA	20161208	US20160231503	20160808
US9409210 BB	20160809	US20090936058	20090401
US10052660 BB	20180821	US20160231503	20160808
WO09123452 A1	20091008	WO2009NL50165	20090401
ZA201007734 A	20110727	ZA20100007734	20101028

Priority:

NL20082001431 20080402 EP20090726543 20090401 EP20170182187 20090401
WO2009NL50165 20090401 US20100936058 20101210 US20160231503 20160808

Probable Assignee: ADR TECHNOLOGY BV

Assignee(s): (std): BERKHOUT SIMON PETER MARIA ; INASHCO R AND D B V ; INASHCO R AND D BV ; ADR TECH BV ; REM PETER CARLO ; UNIV DELFT TECH ; INASHCO RAND D BV

Assignee(s): ADR TECHNOLOGY BV ; INASHCO Rand D B V ; TECHNISCHE UNIVERSITEIT DELFT

Inventor(s): (std): REM PETER CARLO ; BERKHOUT SIMON PETER MARIA ; MARIA BERKHOUT SIMON PETER ; CARLO REM PETER

Inventor(s): PETER CARLO REM ; SIMON PETER MARIA BERKHOUT

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FREEHILLS PATENT ATTORNEY S; FPA PATENT ATTORNEYS PTY LTD; BORDEN LADNER GERVAIS LLP; JANSEN CORNELIS MARINUS; VO; SAEZ ANA; NTD PATENT AND TRADE MARK AGENCY LTD; PEARL COHEN ZEDEK LATZER BARATZ; PATENT BODY CORPORATE TAKEWA INT PATENT OFFICE; SWANSON AND BRATSCHUN LLC; VAN BREDA JACQUES

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

9) Family number: 41583257 (US2010160709A)

© PatBase

Title: PROCESS AND APPRATUS FOR WASTE TREATMENT

Abstract: The present invention relates to processes and apparatus for improving municipal waste treatment in autoclave processes. Improvements relate to the use of air-waste stream treatment, indirect heating with thermal fluid, forced steam transfer, autoclave design, waste treatment of contaminated air, classifiers for better separation of fibres from glass or grit and processing. The improvements allow more efficient, safer and environmentally friendly processing, and better end products.

Classifications:

International (ipc 8-9): A61L11/00 A61L2/07 B01J19/24 B01J19/28 B01J3/00 B01J3/02 B01J3/03 B03B1/00 B03B11/00 B03B7/00 B03B9/00 B03B9/06 B07B1/28 B07B4/00 B07B4/08 B07B9/00 B07B9/02 B09B3/00 B09B5/00 C10L5/46 C10L5/48 D21B1/00 (Advanced/Invention); B01J19/28 C10L5/48 D21B1/00 (Advanced/Non-invention); A61L11/00 B01J19/24 B01J19/28 B01J3/00 B03B9/00 B07B1/28 B07B4/00 B07B9/00 B09B3/00 B09B5/00 C10L5/40 D21B1/00 (Core/Invention); B01J19/28 C10L5/40 D21B1/00 (Core/Non-invention)

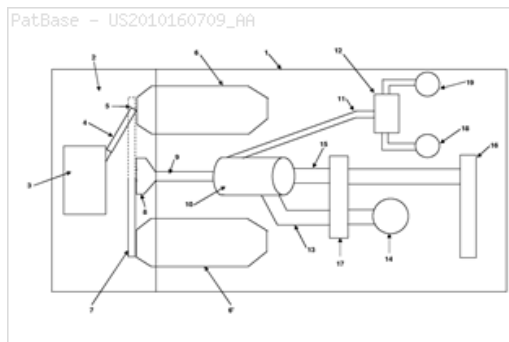
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European: A61L11/00 A61L2/07 B01J19/18 B01J19/18E B01J19/24E B01J19/28 B01J3/00 B01J3/00F B01J3/02 B01J3/03 B01J3/04 B03B1/00 B03B11/00 B03B7/00 B03B9/00 B03B9/06 B03B9/06D1 B07B1/28 B07B13/08 B07B13/11B B07B4/00 B07B4/08 B07B9/00 B07B9/02 B09B3/00 B09B3/00T B09B5/00 C10L5/46 C10L5/48 D21B1/00 D21B1/02E2 L01D53/77 L01J208/00C2D2C L01J208/00C2D2D L01J208/00C2D4F L01J208/00L4B2 L01J219/00A2B L01J219/00A6H L01J219/00A6J L01J219/00B2D2C L01J219/00B2D2D L01J219/00B2D2F L01J219/00B2D4D L01J219/00B2D4L L01J219/00B2L2 L01J219/00B2P4 L01J219/00B2R L01J219/00D2B2 L01J219/00D2B4 L01J219/00D2B4B L01J219/00D2B6 R28C3/00B R28C3/18 R28D1/06 Y02E50/10 Y02E50/30

US: 422/184.1 422/184.100S 588/312 588/312P



Family:

Publication number	Publication date	Application number	Application date
AR064750 AA	20090422	AR2008P100032	20080104
CL2008000013 A1	20080822	CL20080000013	20080103
EP1946829 A1	20080723	EP20070000166	20070105
EP2107935 A2	20091014	EP20080701223	20080103
GB200800045 A0	20080213	GB20080000045	20080103
GB200800071 A0	20080213	GB20080000071	20080103
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GB200800074 A0	20080213	GB20080000074	20080103
GB200902385 A0	20090401	GB20090002385	20080103

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GB2456074 A1	20090708	GB20090002385	20080103
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TW200918192 A	20090501	TW20070149627	20071224
US2010160709 AA	20100624	US20080522191	20080101
WO08081028 A2	20080710	WO2008EP50041	20080103
WO08081028 A3	20080918	WO2008EP50041	20080103

Priority:

EP20070000166 20070105 EP20070014494 20070724 WO2008EP50041 20080101
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WO2008EP50041 20080103

Probable Assignee: STERECYCLE LTD

Assignee(s): (std): CAMPION PHILIP JAMES ; GRIERSON JOHN DUNCAN ; STERECYCLE LTD

Inventor(s): (std): GRIERSON DUNCAN JOHN ; CAMPION PHILLIP JAMES ; CAMPION PHILIP JAMES ; GRIERSON JOHN DUNCAN

Inventor(s): PHILIP JAMES CAMPION ; JOHN DUNCAN GRIERSON ; GRIERSON JOHN DUNCAN CAMPION PHILIP JAMES

Agent(s): DEN HARTOG JEROEN HJ; DEN HARTOG JEROEN H J; HOWREY LLP-EU; HOWREY LLP EU; DEN HARTOG JEROEN HENDRIKUS JOH

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 41730258 (US2008087580A)

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Title: FINE PARTICLE PRECIOUS METAL AND LIQUID MERCURY RECOVERY SYSTEM AND METHOD USING MULTI-LAYER FILTER WITH UNDER-AIR FLOW

Abstract: A multi-layer filter of cotton, plastic mesh and burlap with top and bottom metal mesh is sandwiched between two sections of wooden frame and mounted on a wind chamber. An even non-deflected steady stream of air under the filter produces an electro dynamic charge in the filter to attract fine particles of gold, silver, platinum, or mercury to the filter from a steady stream of earth material, containing fine particles, flowing over the downwardly angled filter.

Classifications:

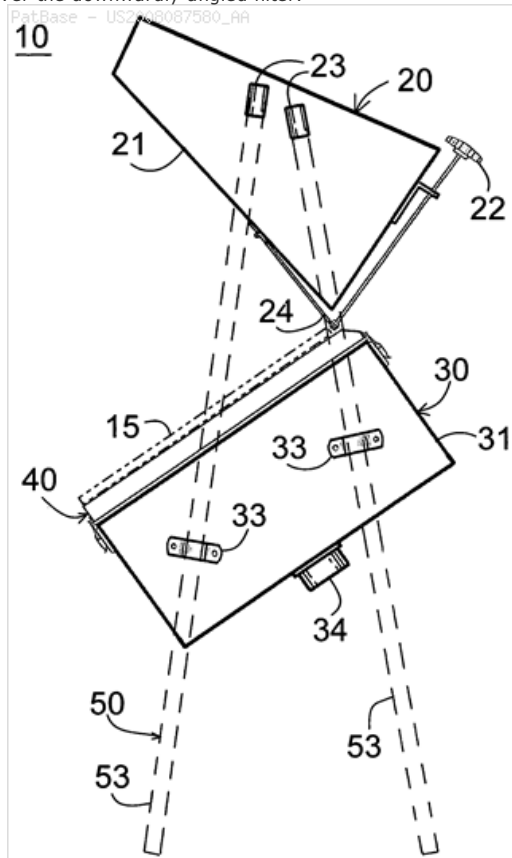
International (IPC 8-9): B07B1/28 B07B7/06 (Advanced/Invention); B07B1/28 B07B7/00 (Core/Invention)

CPC: B07B1/4663 B07B4/08 B07B2230/01 C22B11/00 C22B43/00

European: B07B1/46B12 B07B4/08 C22B11/00 L07B230/01

M22B43/00

US: 209/312



Family:

Publication number	Publication date	Application number	Application date
US2008087580 AA	20080417	US20060581403	20061017

Priority:

US20060581403 20061017

Probable Assignee:

COEN RONALD K

Assignee(s): (std):

COEN RONALD K

Inventor(s): (std):

COEN RONALD K

Agent(s):

DONALD W MEEKER PATENT AGENT

11) Family number: 30757839 (US2007209974A)

© PatBase

Title: BIOMASS MATERIAL

Abstract: A process for the production of a range of improved biomass material products suitable for use as a fuel and which have been derived from municipal solid waste (MSW). The process comprises the steps of delivering a stream of mixed, MSW derived biomass material into a separator which operates under negative pressure enabling the biomass material to fall down the separator whilst inducing a sole air stream through the falling material to create a vortex of spinning material within the turbo chamber to separate out by centrifugal action selected denser components of the biomass material enabling such to continue falling to an outlet for collection whilst redirecting by entrainment in the air stream the remaining biomass material to a second outlet for subsequent processing or for collection.

Classifications:

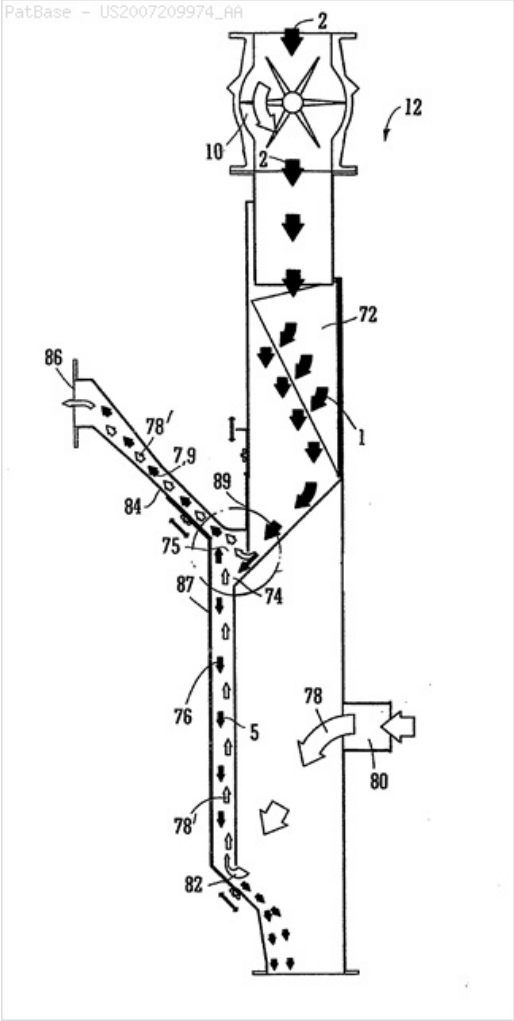
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International (IPC 1-7): B07B4/02 B07B7/08

CPC: B07B7/08 Y10S209/925 Y10S209/93 B07B4/02 B07B9/02

European: B07B4/02 B07B7/08 B07B9/02

US: 209/138 209/139.1 209/147 209/154 209/19 209/19P 209/20 209/20S 209/925 209/930



Family:

Publication number	Publication date	Application number	Application date
AU2005249773 AA	20051215	AU20050249773	20050526
AU2005249773 BB	20100624	AU20050249773	20050526
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CA2568863 AA	20061129	CA20052568863	20050526
CA2568863 C	20101123	CA20052568863	20050526
CN1984725 A	20070620	CN200580017443	20050526
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DE602005035662 D1	20121018	DE200560035662T	20050526
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EP1763407 B1	20120815	EP20050749669	20050526
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GB200505323 A0	20050420	GB20050005323	20050316
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GB2412889 B2	20060607	GB20050005323	20050316
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HK1083324 A1	20060630	HK20060104342	20060411
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MXPA06013708 A1	20070516	MX2006PA13708	20050526
NZ551268 A	20090626	NZ20050551268	20050526
RU2006147279 A	20080710	RU20060147279	20050526
RU2374009 C2	20091127	RU20060147279	20050526
SI1763407 T1	20121231	SI20050031620T	20050526
US2007209974 AA	20070913	US20050569744	20050526
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WO05118165 A1	20051215	WO2005GB02090	20050526

Priority:

GB20040012216 20040529 GB20050005323 20050316 EP20050749669 20050526
WO2005GB02090 20050526

Probable Assignee: ORCHID IP LTD

Assignee(s): (std): FAIRPORT ENGINEERING GROUP LTD ; LEES TONY ; ORCHID AJ PI LTD ; ORTECH LLP ; ORCHID IP LTD ; ORCHID LP LTD

Assignee(s): ORCHID I P LTD ; ORCHID IP LTD ADLINGTON ; FAIRPORT ENGINEERING GROUP LIMITED ; ORCHID LP LIMITED ; ORCHID IP LIMITED ; ORCHID AJ PI LIMITED ; FAIRPORT ENGINEERING LTD ; GDCO 62 LTD

Inventor(s): (std): TONY LEES ; LEES TONY ; LIZ TONI

Inventor(s): LEES TONY FAIRPORT ENGINEERING LTD ; LEES TONY FAIRPORT ENGINEERING LIMITED

Agent(s): FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; FISHER ADAMS KELLY; SPRUSON AND FERGUSON; MOFFAT AND CO; WEBER AND HEIM PATENTANWALTE
PARTNERSCHAFTSGESELLSCHAFT MBB; WILSON GUNN; AZNAREZ PABLO; JOHNSON STOKES AND MASTER; QUARLES AND BRADY LLP; GAVIN J

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

12) Family number: 31992494 (US2005126958A)

© PatBase

Title: SYSTEMS AND METHODS FOR SORTING RECYCLABLES AT A MATERIAL RECOVERY FACILITY

Abstract: Systems and methods for providing a quantity of cullet having at least two colors of glass from an input stream of recyclable material and non-recyclable material. In an embodiment, the system includes a sortation station, a screening apparatus, an air classifier, and a crushing apparatus to provide as output substantially pure cullet having at least two colors.

Classifications:

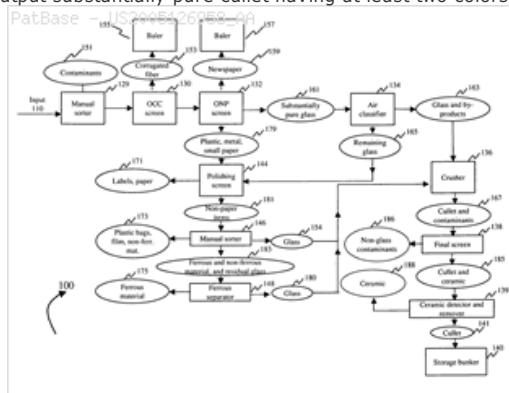
International (IPC 8-9): B02C15/00 B02C19/00 B02C23/08
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B07B15/00 B07B4/00 B07B9/00 B07C5/00 B07C5/02 B07C5/16
B07C5/34 B07C5/342 B07C5/344 B07C5/36 B09B3/00 B09B5/00
B29B17/02 C03B1/00 (Advanced/Invention);
C03B1/00 (Advanced/Non-invention);
B03B7/00 (Core/Invention)

International (IPC 1-7): B03B7/00 B03B9/00 C03B1/00
CPC: Y10S209/93 B07C5/3425 B29B2017/0272 B29L2007/008
B02C23/14 B02C19/0056 Y02W30/521 Y02W30/523 Y02W30/526
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B03B11/00 B03B13/00 B29B17/02 B29B2017/0203 B29B2017/0224
B29B2017/0268 B29B2017/0279 B29K2023/06 B29K2023/065
B29K2023/12 B29K2025/00 B29K2027/06 B29K2067/00
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B29K2705/12 B29K2709/02 B29K2709/08 B29K2711/12
B29L2031/7158

European: B03B11/00 B03B13/00 B03B9/06D B03B9/06D1
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L29K23/06B9 L29K23/12 L29K25/00 L29K27/06 L29K67/00 L29K705/00 L29K705/02 L29K705/04 L29K705/08 L29K705/12
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US: 209/12.1 209/12.100P 209/133 209/133S 209/19 209/19P 209/3.1 209/3.100P 209/30 209/31 209/37 209/555 209/559
209/576 209/577 209/587 209/592 209/592 209/659 209/694 209/694S 209/930 241/24.13 241/24.130P 241/24.14 241/24.18
241/24.180S 241/24.19 241/24.190S 241/24.22 241/24.3 241/243 241/62 241/62S 241/81 700/223 700/304 700/32

Family:

Publication number	Publication date	Application number	Application date
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AU2005271821 AA	20060216	AU20050271821	20050712
CA2573836 AA	20070112	CA20052573836	20050712
CA2573838 AA	20070112	CA20052573838	20050712
CA2573838 AA	20060216	CA20052573838	20050712
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EP1616637 A2	20060118	EP20050254328	20050711
EP1616637 A3	20060308	EP20050254328	20050711
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MX2007000494 A1	20070328	MX20070000494	20050712
US2005126958 AA	20050616	US20040989604	20041117
US2005242006 AA	20051103	US20050106634	20050415



US2006254957 AA	20061116	US20060487372	20060717
US2008237093 AA	20081002	US20050883758	20050712
US2012217328 AA	20120830	US20120360000	20120127
US2014131488 AA	20140515	US20130075216	20131108
US7264124 BB	20070904	US20040989604	20041117
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US8590708 BB	20131126	US20120360000	20120127
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WO06017282 B1	20070531	WO2005US24681	20050712
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WO06017285 A3	20080306	WO2005US24687	20050712

Priority:

US20030520310P 20031117	US20030531663P 20031223	US20040587031 20040713
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US20050883758 20050712	WO2005US24681 20050712	WO2005US24687 20050712
US20060487372 20060717	US20080883758 20080527	US20120360000 20120127

Probable Assignee: RE COMMUNITY HOLDINGS II INC

Assignee(s): (std): BOHLIG JAMES W ; CASELLA WASTE SYS INC ; DUFFY SEAN P ; RE COMMUNITY HOLDINGS II INC ; MPH ENERGY LLC

Assignee(s): RE COMMUNITY ENERGY LLC ; CLOROX CO ; WILMINGTON TRUST CO ; WILMINGTON TRUST CO COLLATERAL AGENT AS ; FCR LLC ; RE COMMUNITY ENERGY LLC ; CASELLA WASTE SYSTEMS INC ; ARES CAPITAL COLLATERAL AGENT AS CORP ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): DUFFY SEAN P ; BOHLIG JAMES W ; BOHLIG JAMES W DUFFY SEAN P

Inventor(s): DUFFY SEAN ; BOHLIG JAMES ; JAMES W BOHLIG ; SEAN P DUFFY

Agent(s): PETER MAXWELL AND ASSOCIATES; BENNETT JONES LLP; SHIMIZU HATSUSHI; WILMER CUTLER PICKERING HALE AND DORR LLP; WILMERHALE/DC; WILMERHALE DC; COOLEY LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

13) Family number: 32136968 (US2005173306A)

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Title: SYSTEMS AND METHODS FOR GLASS RECYCLING AT A BENEFICIATOR

Abstract: The invention provides systems and methods for obtaining recycled mixed cullet at a beneficiator. The recycled mixed cullet can be used by glass plants to make new glass articles, such as beverage bottles.

Classifications:

International (IPC 8-9): B03B7/00 B03B9/06 B07B9/00

C03B9/41 (Advanced/Invention);

B03B7/00 B03B9/00 B07B9/00 (Core/Invention)

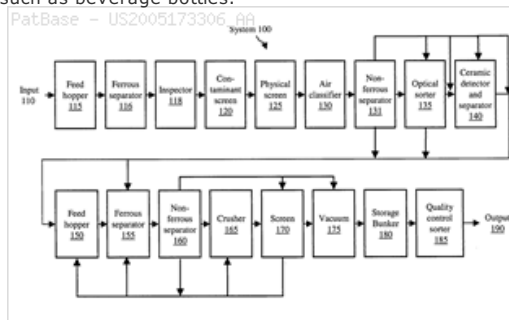
International (IPC 1-7): B03B7/00 B07B9/00

CPC: Y10S209/937 Y02W30/60 B03B9/062 B07B9/00 C03B1/00

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European: B03B9/06D1 B07B9/00

US: 209/12.1 209/12.100P 209/21 209/21P 209/30 209/31 209/33 209/37 209/44 209/44.4 209/44S 209/937 241/24.22 241/24.220S 65/29.11 65/29.110P 700/157 700/157S



Family:

Publication number	Publication date	Application number	Application date
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US2006000237 AA	20060105	US20050135291	20050524
US2007012599 AA	20070118	US20060518985	20060912
US7757863 BB	20100720	US20050135291	20050524
US7918343 BB	20110405	US20040989425	20041117

Priority:

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US20050135291 20050524	US20060518985 20060912	

Probable Assignee: RE COMMUNITY HOLDINGS II INC

Assignee(s): (std): CASELLA WASTE SYS INC

Assignee(s): CASELLA WASTE SYSTEMS INC ; FCR LLC ; WILMINGTON TRUST CO ; WILMINGTON TRUST CO COLLATERAL AGENT AS ; RE COMMUNITY HOLDINGS II INC ; RE COMMUNITY ENERGY LLC ; RE COMMUNITY ENERGY LLC ; MPH ENERGY LLC ; ARES CAPITAL COLLATERAL AGENT AS CORP ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): BOHLIG JAMES W ; DUFFY SEAN P

Inventor(s): BOHLIG JAMES ; DUFFY SEAN

Agent(s): WILMER CUTLER PICKERING HALE AND DORR LLP

Title: METHOD FOR PRECONCENTRATION OF ORGANIC SYNTHETIC MATERIALS DERIVED FROM SHREDDING OF END-OF-LIFE DURABLE GOODS

Abstract: Process for pre-concentration of recoverable polymer materials formed from residues from grinding consumer durable goods at the end of their lives such as automobiles, computer equipment and household appliances, consisting of treating the residue by steps in sequence consisting of screening, aeraulic separation, grinding and ultimate aeraulic separation, to eliminate the major part of contaminating materials from them, such as metals, glass, rubber, sand or others in order to obtain a fraction pre-concentrated in recoverable polymer materials by recycling. The pre-concentration process is a means of reaching preferably at least 85 percent by weight of recoverable polymer materials by recycling.

Classifications:

International (IPC 8-9): B02C17/00 B03B5/28 B03B9/00 B03B9/06 B07B13/00 B07B4/00 B07B9/00 B09B3/00

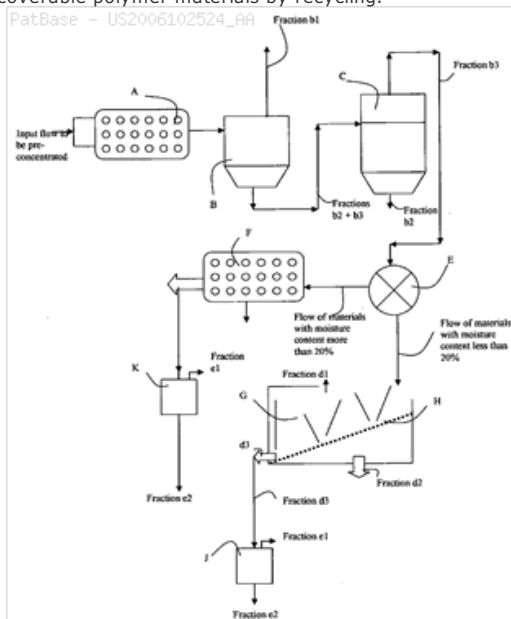
B29B17/02 (Advanced/Invention);
B02C17/00 B03B5/28 B03B9/00 B07B13/00 B07B4/00 B07B9/00 B09B3/00 B29B17/02 (Core/Invention)

International (IPC 1-7): B03B5/28 B03B9/00 B03B9/06 B07B4/00 B07B9/00 B09B3/00 B29B17/02

CPC: Y02W30/523 Y02W30/524 Y02W30/622 Y02W30/625 Y02W30/68 B29B17/02 B29B2017/0224 B29B2017/0244 B29B2017/0484 B29K2105/065

European: B29B17/02 L29B17/02Z1B L29B17/02Z1F2 L29B17/04Z13 L29K105/06B

US: 209/133 209/21 209/30 209/30P 241/24.1 241/24.100S 241/24.12 241/24.15 241/24.18 241/28 241/75 241/77



Family:

Publication number	Publication date	Application number	Application date
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BRPI0312327 A	20050412	BR2003PI12327	20030630
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EP1534487 B1	20081015	EP20030762712	20030630
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PT1534487 T	20090123	PT20030762712T	20030630
US2006102524 AA	20060518	US20050519928	20051102
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Priority:

FR20020008242 20020702 WO2003FR02011 20030630

Probable Assignee: GALLOO PLASTICS SA

Assignee(s): (std): DE FERAUDY HUGUES ; DEFERAUDY HUGUES ; GALLOO PLASTICS ; GALLOO PLASTICS S A ; GALLOO PLASTICS SA

Inventor(s): (std): DE FERAUDY HUGUES ; DEFERAUDY HUGUES ; FERAUDY HUGUES DE ; HUGUES DE FERAUDY

Agent(s): GOUDREAU GAGE DUBUC ; LAVERY DE BILLY LLP ; GAUCHERAND MICHEL; MCCARTER AND ENGLISH LLP, CITYPLACE I; MCCARTER AND ENGLISH LLP CITYPLACE I

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: METHOD FOR SPENT POTLINER PROCESSING SEPARATING AND RECYCLING THE PRODUCTS THEREFROM

Abstract: A method is provided for efficient processing of spent potliner, separating and recycling/utilizing the liquid and solid products generated during processing. The method includes the steps of crushing and screening the potliner freed from metal debris, pulverizing the potliner suspended in a hot aqueous slurry by autogenous grinding in the presence of air, subjecting the potliner to a series of leaching, thickening and filtering steps followed by separation of the potliner into Bayer Liquor, solid sodium fluoride, quality carbon product and mineral matter characterized by low cyanide and fluoride leachability. About 85 percent of the water required for potliner processing is recovered and recycled into the process.

Classifications:

International (IPC 8-9): B01D11/02 B02C17/00 B03B9/06 B03C1/00 B07B1/22 B09B3/00 C01D3/02 C01F7/06 C22B21/00

C22B7/00 (Advanced/Invention);
B03B9/00 C01D3/00 C01F7/00 C22B21/00 C22B7/00 (Core/Invention)
International (IPC 1-7): B01D11/02 B02C17/00 B03C1/00 B07B1/22
B09B3/00 C22B35/00
CPC: Y02W30/521 C22B7/008 B03B9/061 C01D3/02 C01F7/0606
C22B21/0023 Y02P10/234
European: B03B9/06D C01D3/02 C01F7/06A C22B21/00D6
C22B7/00D2
US: 423/122



Family:

Publication number	Publication date	Application number	Application date
CA2367544 AA	20030708	CA20022367544	20020108
US2004146440 AA	20040729	US20030351145	20030127

Priority:

CA20022367544 20020108 US20030351145 20030127

Probable Assignee: IGNASIAK BOLESŁAW LES
Assignee(s): (std): IGNASIAK BOLESŁAW ; IGNASIAK BOLESŁAW LES
Inventor(s): (std): IGNASIAK BOLESŁAW ; IGNASIAK BOLESŁAW LES
Agent(s): NA