

Search history

Search 1: recov* or retriev* or reclamation or rall* or pickup or recycle* (Results 1000000)
Search 2: foil* or blist* (Results 687471)
Search 3: alumin* and (PVC or polyvinyl w1 chloride) (Results 102887)
Search 4: 1 and 2 and 3 (Results 6705)
Search 5: IC=(B09B3/00) (Results 69994)
Search 6: IC=(B65D75/36) (Results 4840)
Search 7: 4 and 5 (Results 42)
Search 8: 4 and 6 (Results 46)
Search 9: 5 and 6 (Results 1)
Search 10: 7 not biomass* (Results 32)

Title: METHOD FOR PRODUCING SOIL, SOIL-PROCESSING UNIT, METHOD FOR PROCESSING AND UNIT FOR PROCESSING

Abstract: An object to be treated such as soil, burned fly ashes, or the like containing organic halides is introduced to a hermetically sealable thermal decomposition furnace 310 and heated under reduced pressure. Emitted gases of the object to be treated are treated so that the generation and recombination of dioxins are suppressed. A heated residue of the object to be treated is cooled after being purged with a purge gas which is organic halide-free and has no organic halide generating capacity. Thus, the concentration of organic halides remaining in the heated residue can be held to an extremely low level.

Classifications:

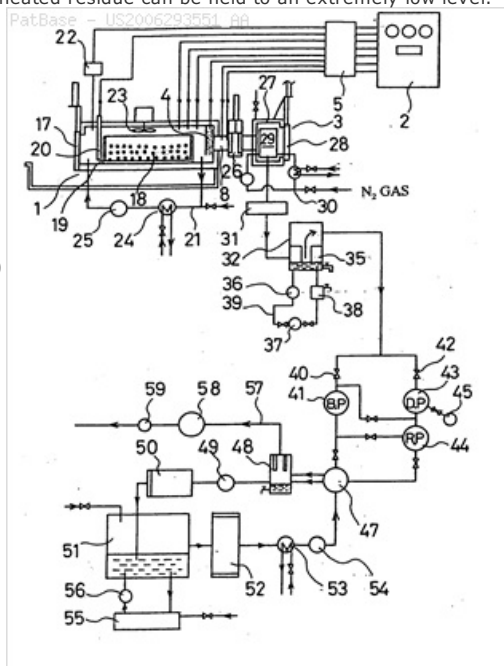
International (IPC 8-9): A62D3/00 A62D3/30 A62D3/33 A62D3/34 A62D3/36 A62D3/37 A62D3/38 A62D3/40 B01D53/00 B01D53/02 B01D53/34 B01D53/64 B01D53/70 B01J19/00 B01J3/00 B01J3/02 B09B3/00 B09C1/06 C01B7/00 C02F11/00 C02F11/10 C07B35/06 C07D319/24 C08J11/12 C09K17/00 C10B53/07 C22B1/00 C22B7/00 C22B9/02 C22B9/04 F23B7/00 F23G5/027 F23G5/12 F23G7/00 F23G7/14 F23J1/00 F23J15/00 F27B5/02 F27B5/18 F27B9/02 F27B9/04 F27D17/00 G01N33/24 (Advanced/Invention); A62D101/04 A62D101/08 A62D101/22 A62D101/28 A62D101/43 B09B3/00 B09C1/06 C07D319/24 C08J11/12 C09K17/00 C22B9/02 F23G7/14 (Advanced/Non-invention); A62D3/00 B01D53/00 B01D53/02 B01D53/34 B01D53/46 B01D53/70 B01J3/00 B01J3/02 B09B3/00 B09C1/00 C01B7/00 C02F11/00 C02F11/10 C07B35/00 C07D319/00 C08J11/00 C09K17/00 C10B53/07 C22B1/00 C22B7/00 C22B9/00 C22B9/02 F23G5/027 F23G5/08 F23G7/00 F23J1/00 F23J15/00 F27B5/00 F27B9/00 F27D17/00 G01N33/24 (Core/Invention); C07D319/00 C09K17/00 C22B9/02 (Core/Non-invention)

International (IPC 1-7): A62D3/00 B01D53/34 B01D53/64 B01D53/70 B01J3/00 B01J3/02 B09B3/00 B09C1/06 C02F11/00 C02F11/10 C07B35/06 C07D319/24 C09K17/00 C22B1/00 C22B7/00 C22B9/02 F23G5/027 F23G7/00 F23G7/14 F23J1/00 F23J15/00 F27B5/02 F27B5/18 F27D17/00

CPC: B01D53/002 B01D53/02 B01D53/70 B09B3/00 B09C1/06 F23G5/027 F23G7/14 F23G2201/50 F23G2202/103 F23G2202/30 F23G2203/8016 F23G2205/18 F23G2205/20 F23G2209/24 F23G2209/30 F23J2215/30 F23J2219/60 F23J2219/70 Y02E50/30 Y02W30/703 Y02P10/234 Y02P20/143 Y02P10/214

European: B01D53/00C B01D53/02 B01D53/70 B09B3/00 B09C1/06 F23G5/027 F23G7/14 R23G201/50 R23G202/103 R23G202/30 R23G203/801B R23G205/18 R23G205/20 R23G209/24 R23G209/30 R23J215/30 R23J219/60 R23J219/70 Y02E50/30

US: 110/229 110/341 266/144 266/148 266/149 266/153 266/271 422/140 422/188 422/198 422/244 422/288 423/240.00R 423/240R 588/321 588/321P 588/406 588/406S 588/412 588/412S



Family:

Publication number	Publication date	Application number	Application date
EP1114679 A1	20010711	EP19990912057	19990331
EP1114679 A4	20020918	EP19990912057	19990331
EP1136141 A1	20010926	EP19990919557	19990513
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JP2000246085 A2	20000912	JP19990320233	19990101
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JP2000249477 A2	20000914	JP19990132245	19990513
JP2002331273 A2	20021119	JP20020012148	19990331
JP2003175372 A2	20030624	JP20020228009	20020805
JP2007152350 A2	20070621	JP20060348587	20061225
JP2007196229 A2	20070809	JP20070097687	20070403
JP3023479 B1	20000321	JP19990132245	19990513
JP3395148 B1	20030407	JP20000542123T	19990331
JP3395148 B2	20030407	JP20000542123T	19990331
KR100555686 B1	20060303	KR20007010691	20000926
KR100583892 B1	20060526	KR20007012679	20001113
KR20010042202 A	20010525	KR20007010691	19990331
KR20010043559 A	20010525	KR20007012679	19990513
US2006293551 AA	20061228	US20060509586	20060825
US2009005630 AA	20090101	US20080100021	20080409
US7156027 BA	20070102	US20000676367	20000929
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WO9951366 A1	19991014	WO1999JP01660	19990331
WO9958260 A1	19991118	WO1999JP02470	19990513

Priority:

JP19980103297	19980331	JP19980148435	19980513	JP19980273417	19980928
JP19980377175	19981227	WO1999JP01660	19990331	JP19990132245	19990513
WO1999JP02470	19990513	KR20007010691	20000926	US20000676367	20000929
US20000711362	20001110	KR20007012679	20001113	JP20020012148	20020121
JP20020228009	20020805	US20060509586	20060825	JP20060348587	20061225
JP20070097687	20070403	US20080100021	20080409		

Probable Assignee: HOUEI SYOUKAI CO LTD

Assignee(s): (std): HOEI SHOKAI CO LTD ; HOEI SHOKAI KK ; HOUEI SYOUKAI CO LTD ; YOKOYAMA YOSHIKI ; KODAMA TOORU ; MISHIMA YASUO ; TAKAMIYA KATUO ; MIZUNO HITOSHI ; ABE TUYOSHI

Assignee(s): HOEI SHOKAI CO ; SHOW CHI KK ; HOUEI SYOUKAI CO

Inventor(s): (std): YOKOYAMA YOSHIKI ; KODAMA TOORU ; MISHIMA YASUO ; TAKAMIYA KATUO ; ABE TUYOSHI ; MIZUNO HITOSHI ; KIGAMI TORU ; TAKAMIYA KATSUO ; ABE TAKESHI ; ABE TSUYOSHI ; KODAMA TORU

Agent(s): C IRVIN MCCLELLAND OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK
MCCLELLAND MAIER AND NEUSTADT PC

Designated states: BE DE DK FI FR GB JP KR NL SE US

Title: METHOD FOR TREATING WASTE HIGH-POLYMER MIXTURE

Abstract: A method for treating a waste high-polymer mixture by fractionating the mixture consisting essentially of five groups of high polymers, i.e., polyolefinic, polystyrenic, **polyvinyl chloride**, thermosetting, and natural high polymers, taking advantage of their dissimilar solubilities in different organic solvents, characterized in that the mixture is brought into contact with o-xylene, p-xylene, or m-xylene, the solvents being used either singly or in a combination of two or more, at temperatures within a certain range or ranges to dissolve and fractionate the polystyrenic and polyolefinic high polymers, and the **polyvinyl chlorides** in the remainder are dissolved and fractionated by using at least one solvent selected from the group consisting of tetrahydrofuran, cyclohexanone, dioxane, and methylethylketone and at a temperature within a certain range, whereby the waste mixture is fractionated into the groups of polyolefinic, polystyrenic, **polyvinyl chloride**, thermosetting, and natural high polymers.

Classifications:

International (IPC 8-9): B09B3/00 B29B11/00 B29B17/02 C08J11/08
C10B53/07 (Advanced/Invention);
B09B3/00 B29B11/00 B29B17/02 C08J11/00
C10B53/07 (Core/Invention)

International (IPC 1-7): B01J1/00 B29C29/00 B29H19/00 C08J11/00
C08J11/04 C08L23/02 C08L27/06

CPC: Y02W30/701 C08J11/08

European: C08J11/08

US: 260/2.3 422/131 423/1 521/46.5

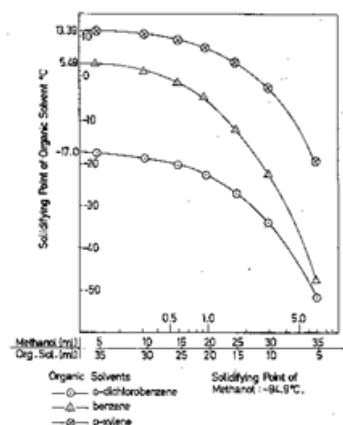
PatBase - US4031039_A

U.S. Patent

June 21, 1977

4,031,039

FIG. 1



Family:

Publication number	Publication date	Application number	Application date
BE845789 A	19761231	BE19760170303	19760902
DE2639864 A1	19770303	DE19762639864	19760902
DE2639864 B2	19790426	DE19762639864	19760902
DE2639864 C3	19791213	DE19762639864	19760902
FR2322891 A1	19770401	FR19760026524	19760902
FR2322891 B1	19790928	FR19760026524	19760902
GB1564525 A	19800410	GB19760036371	19760902
IT1064911 A	19850225	IT19760026769	19760901
JP52029879 A2	19770307	JP19750105612	19750902
US4031039 A	19770621	US19760716585	19760823

Priority:

JP19750105612 19750902

Probable Assignee: MITSUBISHI HEAVY IND LTD

Assignee(s): (std): MITSUBISHI HEAVY IND LTD

Assignee(s): MITSUBISHI JUKOGYO K K ; MITSUBISHI JUKOGYO K K TOKIO ; MITSUBISHI JUKOGYO KABUSHIKI KAISHA ; MITSUBISHI JUKOGYO KK

Inventor(s): (std): NIZUMOTO Y ; HASEGAWA S ; TATANI ATSUSHI ; TAO KOSO ; KABUMOTO TSUTOMU ; FUJITA HIROSHI ; MIZUMOTO YOSHIKI ; HASEGAWA SHIGEO

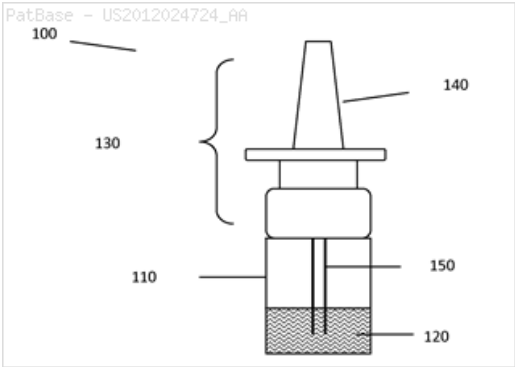
Inventor(s): KABUMOTO TSUTOMU MUSASHINO TOKIO ; Y NIZUMOTO ; S HASEGAWA

Title: MEDICINE DISPOSAL CONTAINER

Abstract: Embodiments of the present invention provide a container for liquid medicine disposal, wherein the container has one or more interior surfaces associated with activated carbon cloth for capturing a drug dissolved in the liquid medicine. Embodiments of the present invention are particularly intended for use when dispensing a medicine spray, wherein the container must be held inverted whilst dispensing the spray.

Classifications:

International (IPC 8-9): A61B19/02 A61J3/02 A61M11/00 B08B17/00 B09B3/00 B23P17/00 B65D81/00 (Advanced/Invention); A61J3/02 A61M11/00 (Core/Non-invention)
CPC: Y10T29/49826 B09B3/0075 B08B17/00 A61B50/36 A61B2050/316
European: A61B19/02R B08B17/00 B09B3/00M K61B19/02P5D
US: 206/205 29/428 29/428S



Family:

Publication number	Publication date	Application number	Application date
TW201208665 A	20120301	TW20110127304	20110802
US2012024724 AA	20120202	US20110196061	20110802
WO12017228 A1	20120209	WO2011GB51445	20110729

Priority:

EP20100171648 20100802

Probable Assignee: ARCHIMEDES DEVELOPMENT LTD

Assignee(s): (std): BEARDSALL IAN ; BEARDSALL IAN R ; EVANS SANDRA ; WATTS PETER ; WHITWOOD ROBERT ; SMITH ALAN ; EVANS SANDRA D ; WHITWOOD ROBERT J ; ARCHIMEDES DEV LTD

Assignee(s): ARCHIMEDES DEVELOPMENT LIMITED ; ARCHIMEDES DEVELOPMENT LTD

Inventor(s): (std): EVANS SANDRA D ; WATTS PETER ; BEARDSALL IAN R ; SMITH ALAN ; WHITWOOD ROBERT J ; WHITWOOD ROBERT ; EVANS SANDRA ; BEARDSALL IAN ; WHITWOOD ROBERT JOHN ; BEARDSALL IAN ROBERT ; EVANS SANDRA DAWN

Agent(s): BENSON CHRISTOPHER

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 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 RO RS RU 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: DISPOSAL OF PLASTIC FOOD CONTAINERS - USING PORTABLE HOLDER FOR STACKED CONTAINERS WHICH ARE EMPTIED INTO BASE FOR REMOVAL TO DISINTEGRATOR AND REDUCED MATERIAL IS THEN REUSED

Abstract: Equipment is designed to dispose of plastic packaging and, in particular, plastic containers for foodstuffs such as dairy produce. The empty containers are washed and placed in a cylindrical or square section portable holder (pref. made of plastics) whose i.d. matches the containers and which consists of two half-sections with ventilating gaps at the top and bottom made by spacers, this holder has a top cover which is opened for the purpose and the containers are stacked together until the holder is full, after which the cover is closed again. The container is taken to a moveable main container and emptied into bags of high tear strength plastic material fixed inside it, this procedure is repeated until the sack is full, when the sack is removed through a side door, sealed and temporarily stacked together with other similar sacks ready for transportation, all the filled sacks are finally passed to a disintegrator (partic. a mobile one) and reduced so that the sack contents can be reused in the prodn. of plastic articles. The sacks are pref. made of polypropylene or polystyrene and can contain also PVC. **ADVANTAGE** - The equipment and function prevent pollution of the environment by packaging plastics.

Classifications:

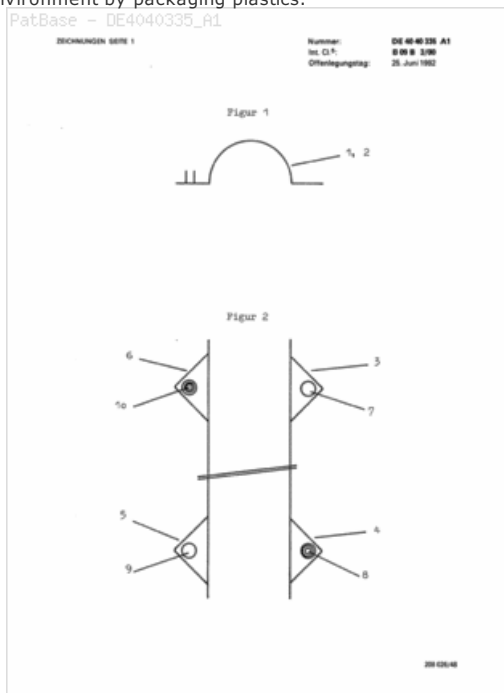
International (IPC 8-9): B03B5/44 B03B9/06 B09B3/00 B29B17/02 B65F1/14 (Advanced/Invention);

B03B5/28 B03B9/00 B09B3/00 B29B17/02 B65F1/14 (Core/Invention)

International (IPC 1-7): B09B3/00 B29B17/02 B65F1/00

CPC: Y02W30/521 Y02W30/524 Y02W30/622 B03B9/061 B03B5/44 B09B3/00 B09B3/0025 B29B17/02 B29B2017/0089 B29B2017/0203 B29K2023/12 B29K2025/00 B29K2027/06 B29K2705/00 B29K2705/02 B65F1/14

European: B03B5/44 B03B9/06D B09B3/00 B09B3/00D B29B17/02 B65F1/14 L29B17/00E L29B17/02B L29K23/12 L29K25/00 L29K27/06 L29K705/00 L29K705/02



Family:

Publication number	Publication date	Application number	Application date
DE4040335 A1	19920625	DE19904040335	19901217

Priority:

DE19904040335 19901217

Probable Assignee:

KOPISCHKE JOACHIM

Assignee(s): (std):

KOPISCHKE JOACHIM

Assignee(s):

KOPISCHKE JOACHIM 6403 FLIEDEN DE

Inventor(s): (std):

KOPISCHKE JOACHIM

Inventor(s):

KOPISCHKE JOACHIM 6403 FLIEDEN DE

Title: PRESSURE VESSEL DOOR SEAL MECHANISM

Abstract: The invention relates to a pressure apparatus that can be used to process solid waste materials into useful, fuel and recyclable streams. The pressure vessel utilizes, conditions of heat and pressure to process the solid waste into the fuel and recyclable streams reducing hazardous materials and offensive odors. The vessel comprises an elongated container having enclosed volume and at least one open end. The open end is sealed using a closure having a closing apparatus. The closing apparatus is a rapidly actuated easily used mechanism that maintains the door in a sealed closed position maintaining useful pressure but can be readily opened with little effort for either removing processed waste or for introducing unprocessed solid waste.

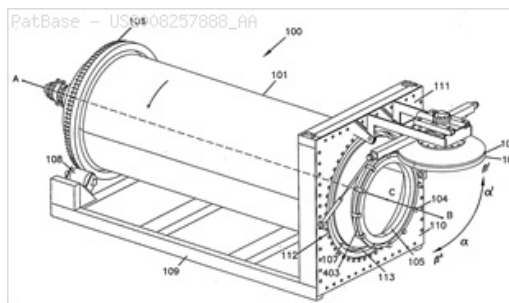
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International (IPC 8-9): B01J19/28 B01J3/00 B01J3/02 B01J3/03 B01J3/04 B09B3/00 B65D45/16 B65D45/32 C10L5/46 F16J12/00 F16J13/08 F16J13/20 F17C1/00 F17C13/06 (Advanced/Invention); B01J3/00 B01J3/04 B09B3/00 (Advanced/Non-invention); B01J19/28 B01J3/00 B01J3/02 B01J3/03 B01J3/04 B09B3/00 B65D45/00 C10L5/40 F16J12/00 F16J13/00 F17C1/00 F17C13/00 (Core/Invention); B01J (Subclass/Invention)

International (IPC 1-7): B01J19/28 B01J3/03 C10L5/46 F16J13/08 CPC: B01J3/03 B01J19/28 B01J2219/182 B01J2219/185 C10L5/46 F16J13/08 F16J13/20 Y02E50/10 Y02E50/30

European: B01J19/28 B01J3/03 C10L5/46 F16J13/08 F16J13/20 L01J219/18B L01J219/18D Y02E50/10 Y02E50/30

US: 220/319 220/320 220/324 220/581 220/582



Family:

Publication number	Publication date	Application number	Application date
AU2004324109 AA	20060420	AU20040324109	20040921
CA2581367 AA	20070321	CA20042581367	20040921
EP1799338 A1	20070627	EP20040784745	20040921
IL182108 A0	20070724	IL20040182108	20040921
JP2008513711 T2	20080501	JP20070533440T	20040921
KR20070083747 A	20070824	KR20077009075	20040921
NO20072022 A	20070621	NO20070002022	20070420
NO20072022 L	20070621	NO20070002022	20070420
NZ554654 A	20080829	NZ20040554654	20040921
US2008257888 AA	20081023	US20040663483	20040921
US7802694 BB	20100928	US20040663483	20040921
WO06041439 A1	20060420	WO2004US31007	20040921

Priority:

NZ20040554654 20040921 US20040663483 20040921 WO2004US31007 20040921
KR20077009075 20070420

Probable Assignee: CORNERSTONE RESOURCES LLC

Assignee(s): (std): LEE OLAF N ; ALLIANCE TECHNOLOGY GROUP INC

Assignee(s): CORNERSTONE RESOURCES LLC ; PETERSON DAVID ; SYNERGY BURCELL TECHNOLOGIES LLC ; VISIAM LLC

Inventor(s): (std): LEE OLAF N

Inventor(s): OLAF N LEE

Agent(s): GRIFFITH HACK; ROBIC; ISONO MICHIZO; MERCHANT AND GOULD PC; PAULY DEVRIES SMITH AND DEFFNER LLC

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 KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: METHOD FOR SEPARATING METALLIC MATERIAL FROM WASTE PRINTED CIRCUIT BOARDS, AND DRY DISTILLATION APPARATUS USED FOR WASTE TREATMENT

Abstract: A method for treating waste printed circuit boards, the method has the steps of: heating up for dry-distilling the waste printed circuit boards having copper foil retaining solder in at least a part of the surface, at a temperature of 250 degrees centigrade or higher; pulverizing the dry-distilled material of the waste printed circuit boards obtained in the heating step; and separating the pulverized material of the waste printed circuit boards obtained in the pulverizing step, into board resin component and metal component.

Classifications:

International (IPC 8-9): B09B3/00 B09B5/00 B29B17/00 B29B17/02 B29B17/04 C22B1/00 C22B7/00 F23G5/00 F23G5/02 F23G5/027

H05K3/34 (Advanced/Invention);

H05K3/22 H05K3/34 (Advanced/Non-invention);

B09B3/00 B09B5/00 B29B17/00 B29B17/02 B29B17/04 C22B1/00 C22B7/00 F23G5/00 F23G5/02 F23G5/027 H05K3/34 (Core/Invention);

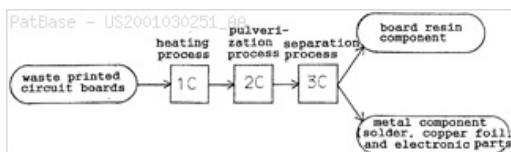
H05K3/34 (Core/Non-invention)

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CPC: Y10S241/38 C22B7/005 B09B3/00 B29B17/02 B29B2017/0472 B29B2017/0496 B29K2021/00 B29K2077/00 B29K2105/06 B29K2705/00 B29K2705/10 B29K2705/12 B29K2711/12 B29L2009/00 B29L2031/3425 C22B7/001 H05K3/22 H05K2203/178 Y02W30/82 Y02W30/822 Y02W30/521 Y02W30/622 Y02W30/625 Y02P10/214 Y02P70/613 B03B9/061

European: B09B3/00 B29B17/02 C22B7/00B C22B7/00C L29B17/04Z10 L29B17/04Z16 L29K105/06 L29K21/00 L29K705/00 L29K705/10 L29K705/12 L29K711/12 L29K77/00 L29L31/34E L29L9/00 T05K203/17E T05K3/22

US: 241/16.38 241/23 241/23P 241/24.13 241/24.130S 241/24.18 241/24.180S 241/30 241/DIG.38



Family:

Publication number	Publication date	Application number	Application date
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CN1260250 A	20000719	CN19991026403	19991213
CN1433851 A	20030806	CN20031004381	20030210
EP1008395 A2	20000614	EP19990124578	19991209
EP1008395 A3	20030502	EP19990124578	19991209
JP2000294919 A2	20001020	JP19990099455	19990406
JP2000301131 A2	20001031	JP19990349491	19991208
JP2001049355 A2	20010220	JP19990223101	19990805
JP2001050518 A2	20010223	JP19990223381	19990806
US2001030251 AA	20011018	US20010766232	20010119
US6336601 BA	20020108	US19990458845	19991213
US6523764 BB	20030225	US20010766232	20010119

Priority:

JP19980353079 19981211 JP19990037959 19990217 JP19990099455 19990406
 JP19990223101 19990805 JP19990223381 19990806 JP19990349491 19991208
 US19990458845 19991213 US20010766232 20010119

Probable Assignee: MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Assignee(s): (std): MATSUSHITA ELECTRIC IND CO LTD

Assignee(s): MATSUSHITA ELECTRIC IND K K ; MATSUSHITA ELECTRIC IND KK ; MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; NAKAJIMA KEIZO ; ONISHI HIROSHI ; PANASONIC CORP ; SUZUKI MASA AKI ; UENO TAKAYOSHI ; TERADA TAKAHIKO ; KAWAKAMI TETSUJI ; KAWASAKI YOSHITAKA ; MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Inventor(s): (std): AL SUZUKI MASA AKI ET ; KAWAKAMI TETSUJI ; KAWASAKI YOSHITAKA ; NAKAJIMA KEIZO ; ONISHI HIROSHI ; SUZUKI MASA AKI ; TERADA TAKAHIKO ; UENO TAKAYOSHI ; KEIZO NAKASHIMA ; MASA AKI SUZUKI ; KITA UENO ; KEIZAO NAKASHIMA ; TAKAYOSHI UENO

Inventor(s): SUZUKI MASA AKI ET AL ; NAKASHIMA KEIZAO ; UENO KITA ; NAKASHIMA KEIZO

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: METHOD AND APPARATUS FOR RELEASING METAL-RESIN JOINT

Abstract: A method for separating a metal-resin joint including the steps of: (1) immersing an article including a metal-resin joint with a counter electrode in an alkaline solution; and (2) applying a voltage over a certain time period between the metal portion of the joint and the counter electrode such that the potential of the metal portion is lower than that of a standard hydrogen electrode.

Classifications:

International (IPC 8-9): B09B3/00 B09B5/00 B23H3/00 B29B17/00 B29B17/02 B29B17/04 C08J11/06 C25F1/00 C25F1/02 C25F5/00 (Advanced/Invention); B29K23/00 B29K33/04 B29K67/00 B29K77/00

B29K81/00 (Advanced/Non-invention); B09B3/00 B09B5/00 B23H3/00 B29B17/00 B29B17/02 B29B17/04 C08J11/00 C25F1/00 C25F5/00 (Core/Invention)

International (IPC 1-7): B09B3/00 B09B5/00 B29B17/00 B29B17/02 B29K23/00 B29K33/04 B29K67/00 B29K77/00 B29K81/00 B32B1/00 C08J11/06 C25F1/02 C25F5/00 H02G1/12

CPC: Y10T29/49755 Y10T29/53274 Y10T156/1158 Y10T156/19

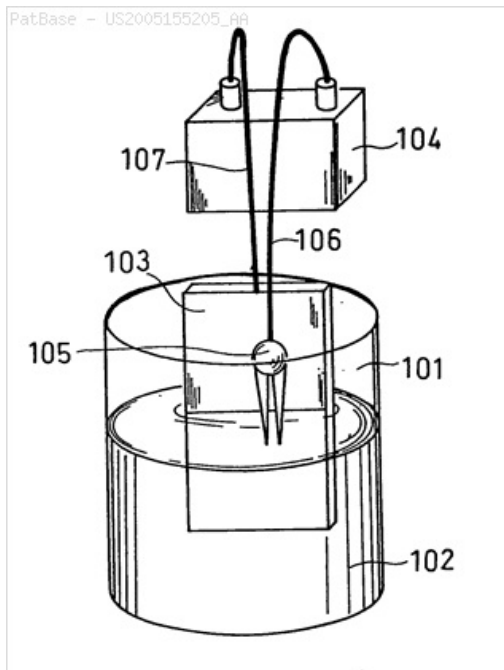
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B29K2705/02 B29K2705/04 B29K2705/06 B29K2705/08 B29K2705/10 B29K2705/12 B29L2009/003 B29L2009/005 B29L2031/3425 B29L2031/707 C25F1/00 C25F5/00 Y02W30/622 Y02W30/625

European: B29B17/02 B29B17/04 C25F1/00 C25F5/00 L29B17/02Z9 L29B17/02Z9A L29B17/04 L29B17/04Z2 L29K21/00 L29K27/06 L29K33/12 L29K69/00 L29K705/00 L29K705/02 L29K705/04 L29K705/06 L29K705/08 L29K705/10 L29K705/12

L29K75/00 L29K77/00 L29L31/34E L29L31/707 L29L9/00C L29L9/00D

US: 156/344 156/344S 156/712 156/750 156/750S 156/937 156/937S 204/230.2 204/242 205/702 205/704 205/705 205/717 29/403.3 29/403.300P 29/762 29/762S



Family:

Publication number	Publication date	Application number	Application date
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CN100425418 C	20081015	CN20038010989	20030424
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Priority:

JP20020142146 20020516 WO2003JP05312 20030424 JP20030127007 20030502

Probable Assignee: MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Assignee(s): (std): IZUMI YOICHI ; MATSUSHITA ELECTRIC IND CO LTD ; NANNO TETSUO ; PANASONIC CORP

Assignee(s): MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; MATSUSHITA ELECTRIC IND CO

Inventor(s): (std): IZUMI YOICHI ; MINAMINO TETSUO ; NANNO TETSUO ; TETSUO NANNO ; YOICHI IZUMI

Agent(s): BRADLEY JOSEPHINE MARY ; MCDERMOTT WILL AND EMERY LLP

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 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 NI 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: AUTOMOBILE SHREDDER RESIDUE-SYNTHETIC PLASTIC MATERIAL COMPOSITE, AND METHOD FOR PREPARING THE SAME

Abstract: A method is provided for processing a mixture raw automobile shredder residue, and virgin and/or contaminated synthetic plastic material, e.g., raw post consumer plastic waste. By means of this method, automobile shredder residue produced by a conventional automobile shredder is formed into a first stream by being ground in a first granulating zone to a reasonable small granular size using conventional equipment. A second stream comprising virgin and/or contaminated synthetic plastics material is ground in a second granulating zones. The two streams are combined to provide a processable mixture. The processable mixture is introduced into a high intensity, mixer. The processable mixtures transformed into a semi-molten discharge stream by the kinetic energy imparted to the processable mixture by the mixer are simultaneously vented from the mixer. The semi-molten mixture emerging from the mixer is then introduced into an extruder or press where it is formed into a mass of desired shape, and cooled. This method allows for the production of useful, shaped masses from two different classes of materials which have been otherwise treated as waste.

Classifications:

International (IPC 8-9): B09B3/00 B29B11/14 B29B13/10 B29B17/00 B29B17/02 B29B17/04 B29B9/06 (Advanced/Invention); B29K101/00 B29K105/26 (Advanced/Non-invention); B09B3/00 B29B11/14 B29B13/10 B29B17/00 B29B17/02 B29B17/04 B29B9/02 (Core/Invention)

International (IPC 1-7): B09B3/00 B29B11/14 B29B13/10 B29B17/00 B29B17/02 B29B9/06 B29C47/00 B29K101/00 B29K105/26

CPC: Y10S264/912 Y10S264/913 Y10S264/916 Y10S264/92 Y02W30/521 Y02W30/526 Y02W30/622 B29B17/02 B03B2009/068 B29B2017/0272 B29K2023/06 B29K2023/12 B29K2025/00 B29K2027/06 B29K2033/12 B29K2055/02 B29K2067/00 B29K2067/006 B29K2075/00 B29K2077/00 B29K2105/06 B29K2705/00 B29L2031/3055

European: B29B17/02 L03B9/06L L29B17/02Z4A L29K105/06 L29K23/06 L29K23/12 L29K25/00 L29K27/06 L29K33/12 L29K55/02 L29K67/00 L29K67/00C L29K705/00 L29K75/00 L29K77/00 L29L31/30G

US: 264/115 264/118 264/121 264/122 264/126 264/912 264/913 264/916 264/920 264/DIG.69 428/903.3

PatBase - US5503788_A

U.S. Patent

Apr. 3, 1996

Sheet 1 of 4

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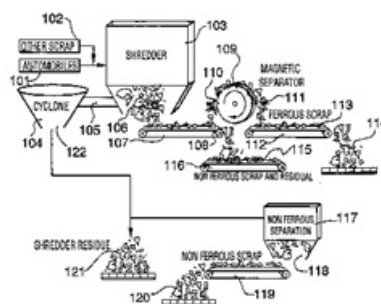


FIG.1

Family:

Publication number	Publication date	Application number	Application date
CA2153450 AA	19960113	CA19952153450	19950707
CA2153450 C	19970318	CA19952153450	19950707
EP0692356 A2	19960117	EP19950850131	19950711
EP0692356 A3	19960731	EP19950850131	19950711
JP9085212 A2	19970331	JP19950208995	19950712
US5503788 A	19960402	US19940273844	19940712

Priority:

US19940273844 19940712 CA19952153450 19950707

Probable Assignee: LAZARECK JACK

Assignee(s): (std): LAZARECK JACK ; RAZARETSUKU JIYATSUKU ; UORUSHIYU MAATEIN ; WALSH MARTIN

Inventor(s): (std): LAZARECK JACK ; WALSH MARTIN ; UORUSHIYU MAATEIN ; RAZARETSUKU JIYATSUKU

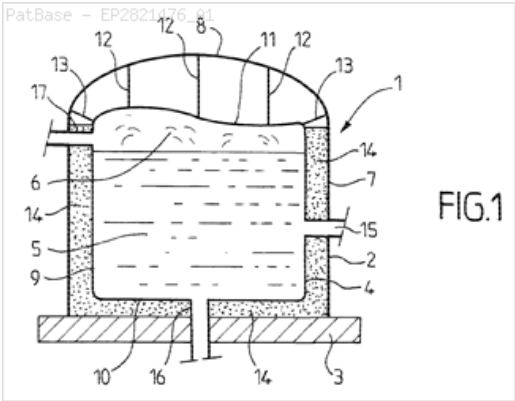
Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

Title: DIGESTER FOR PRODUCING BIOGAS AND DIGESTATE AND METHOD FOR ASSEMBLING SAME DIGESTEUR POUR LA PRODUCTION DE BIOGAZ ET DE DIGESTAT ET SON PROCEDE DE MONTAGE <

Abstract: Source: EP2821476A1 [FR] L'invention a pour objet un digesteur (1) pour la production de biogaz (6) et de digestat, comprenant un silo externe (2) dans lequel est loge un receptacle pour les matieres organiques fermentescibles (5), dont la fermentation conduit d'une part a un digestat restant dans ledit receptacle et, d'autre part a un biogaz (6) se formant au-dessus desdites matieres organiques fermentescibles qui se transforment en digestat, ledit silo (2) comportant au moins une entree desdites matieres organiques fermentescibles et au moins une sortie dudit biogaz (6), caracterise par le fait que le receptacle pour les matieres organiques fermentescibles consiste en une enveloppe souple (4), fermee sur elle-meme, de confinement desdites matieres organiques fermentescibles (5) et dudit biogaz (6), la ou les entrees de matieres organiques fermentescibles (5) et la ou les sorties de biogaz (6) traversant ladite enveloppe (4) de maniere etanche. **Machine translation:** The invention relates to a digester (1) for the biogas (6) and digest, comprising an external storage (2) in which is housed a receptacle for fermentable organic material (5), the fermentation leads firstly to a digestate remaining in said receptacle and the other has a biogas (6) forming above said fermentable organic matter that turn into digestate, said silo (2) having at least one entry said fermentable organic matter and at least one output of said biogas (6), characterized by the fact that the receptacle for fermentable organic matter consists of a flexible envelope (4), closed on itself, containment said fermentable organic matter (5) and said biogas (6), or the entries of fermentable organic matter (5) or biogas and outputs (6) passing through said shell (4) sealed manner.

Classifications:
International (IPC 8-9): B09B3/00 C02F11/04 C02F3/28 C12M1/00 C12M1/107 C12M1/113 (Advanced/Invention)
CPC: C12M21/04 C12M23/26 C12M23/34 C12M47/18 Y02E50/343



Family:

Publication number	Publication date	Application number	Application date
EP2821476 A1	20150107	EP20140175882	20140704
FR3008105 A1	20150109	FR20130056585	20130704
FR3008105 B1	20160304	FR20130056585	20130704

Priority:
FR20130056585 20130704

Probable Assignee: VALOGREEN

Assignee(s): (std): VALOGREEN

Inventor(s): (std): DELACOUR THOMAS

Inventor(s): THOMAS DELACOUR

Agent(s): CABINET CHAILLOT; VALOGREEN

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: ENVIRONMENTALLY FRIENDLY PAINT CONTAINER SYSTEM - HAVING OUTER CONTAINER IN WHICH IS SEPARABLE INNER CONTAINER, OUTER CONTAINER HAVING LID OF STABLE MATERIAL

Abstract: The inner container (3) is of a recyclable material such as plastics **foli**, and comprises a container part (3a) for accommodation of material and a lid part (3b) which is releasably fixed to the lid (4) of the outer container (2). The inner container comprises a laminate, with both a bearer layer which forms the outer surface of the inner container, and a protective layer, releasable from the bearer layer and resistant to the material placed in the container. The protective layer forms the inner surface of the inner container. USE/ADVANTAGE - A container for lacquer, paint and the like which is easily recyclable.

Classifications:

International (IPC 8-9): B44D3/12 B65D25/14

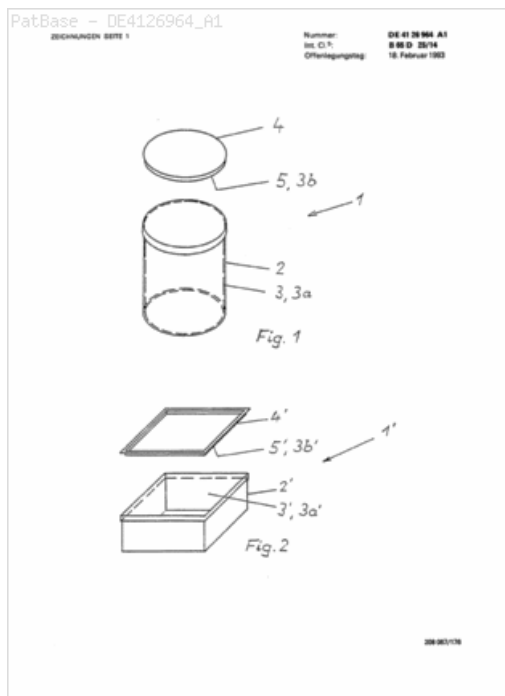
B65D77/06 (Advanced/Invention);

B44D3/12 B65D25/14 B65D77/06 (Core/Invention)

International (IPC 1-7): B09B3/00 B44D3/12 B65D25/14 B65D65/42

CPC: Y02W30/807 B65D25/14 B44D3/12 B65D77/06

European: B44D3/12 B65D25/14 B65D77/06



Family:

Publication number	Publication date	Application number	Application date
DE4126964 A1	19930218	DE19914126964	19910814

Priority:

DE19914126964 19910814

Probable Assignee: SPIES LUTZ VOLKER

Assignee(s): (std): SPIES LUTZ VOLKER

Assignee(s): SPIES LUTZ VOLKER 8908 KRUMBACH DE

Inventor(s): (std): SPIES LUTZ VOLKER

Inventor(s): SPIES LUTZ VOLKER 8908 KRUMBACH DE

Title: PROCESSING APPARATUS, PROCESSING SYSTEM AND PROCESSING METHOD

Abstract: A processing apparatus capable of separating and **recovering** resins and metals, respectively, from an object being processed, which has resins and metals as its constituent, comprises a first gastight area (102), in which temperature and pressure are regulated so as to permit selective thermal decomposition of resins from the object (150) being processed, a second gastight area (103), which is partitioned from the first gastight area by an openable and closeable partition (105C) and in which temperature and pressure are regulated so as to permit selective vaporization of metals from the object, first **recovering** chamber (111) connected to the first gastight area for **recovering** gases produced by thermal decomposition of resins, and second **recovering** chamber (115) connected to the second gastight area for **recovering** vaporized metals.

Classifications:

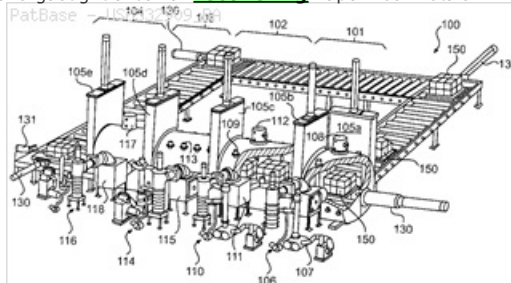
International (IPC 8-9): A62D3/00 A62D3/36 A62D3/37 A62D3/40 B01D53/70 B09B3/00 B09B5/00 C08J11/12 C10B53/00 C10B53/07 C10B7/14 C10L3/06 C22B1/00 C22B13/02 C22B7/00 C22B9/02 F27D17/00 F27D19/00 F27D7/06 (Advanced/Invention); A62D101/22 A62D101/28 A62D101/43 (Advanced/Non-invention); A62D3/00 B01D53/70 B09B3/00 B09B5/00 C08J11/00 C10B53/00 C10B53/07 C10B7/00 C10L3/00 C22B1/00 C22B13/00 C22B7/00 C22B9/02 F27D17/00 F27D19/00 F27D7/00 (Core/Invention)

International (IPC 1-7): A62D3/00 B01D53/70 B09B3/00 B09B5/00 C08J11/12 C10L3/06 C22B1/00 C22B13/00 C22B7/00

CPC: Y02E50/30 Y02W30/20 C10B7/14 B09B3/00 C10B53/07 C22B7/001 F23G2201/301 F23G2201/50 Y02P10/214 Y02P20/143 Y02P10/234 Y02W30/703

European: B09B3/00 C10B53/00 C10B53/07 C10B7/14 C22B7/00B R23G201/301 R23G201/50 Y02E50/30

US: 432/128 432/133 432/191 432/37 588/223 588/228 588/234 588/320 588/405 588/412 75/392 75/401 75/414 75/693 75/694

**Family:**

Publication number	Publication date	Application number	Application date
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DE19781654 T	19990429	DE19971081654T	19970317
DE19781654 T1	19990429	DE19971081654T	19970317
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JP2002194451 A2	20020710	JP20010274259	20010910
JP3245073 B2	20020107	JP19960259201	19960930
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TW457140 B	20011001	TW19970113391	19970915
US6332909 BA	20011225	US19990142742	19990223
WO9733703 A1	19970918	WO1997JP00851	19970317

Priority:

JP19960058656 19960315 JP19960259201 19960930 WO1997JP00851 19970317
JP20010274259 20010910

Probable Assignee: OGIHARA ECOLOGY CO LTD

Assignee(s): (std): KOYAMA MASAO ; OGIHARA ECOLOGY CO LTD ; OGIHARA TERUHISA ; TESHIMA KOICHI ; TODOROKI TOMOHIRO ; TEZUKA FUMINOBU ; OYASATO NAOHIKO ; OGIHARA KAICHIRO ; FURUYA TOMIAKI ; HAYATA TERUNOBU ; OGIHARA ECOLOGY CO ; TOSHIBA CO LTD ; YOKOYAMA YOSHIKI ; TOSHIBA KAWASAKI KK ; TOSHIBA CORP ; TOSHIBA KK ; OGIHARA EKOROJII KK

Assignee(s): OGIHARA ECOLOGY CO LTD OTA JP ; TOSHIBA KAWASAKI KANAGAWA JP KK ; KABUSHIKI KAISHA TOSHIBA ; KABUSHIKI KAISHA TOSHIBA KAWASAKI ; KABUSHIKI KAISHA TOSHIBA KAWASAKI KANAGAWA JP ; TOSHIBA 72 HORIKAWA CHOSAIWAI KU KAWASAKI SHI KANA

Inventor(s): (std): FURUYA TOMIAKI ; HAYATA TERUNOBU ; KOYAMA MASAO ; KOYAMA MASAO AND ; OGIHARA KAICHIRO ; OGIHARA TERUHISA ; OGIWARA AKIHISA ; OGIWARA HIDEHISA ; OGIWARA KAICHIRO ; OYASATO NAOHIKO ; TEJIMA KOICHI ; TESHIMA KOICHI ; TESHIMA KOUICHI ; TEZUKA FUMINOBU ; TODOROKI TOMOHIRO ; YOKOYAMA YOSHIKI

Inventor(s): YOKOYAMA YOSHIKI OTA GUNMA JP ; TODOROKI TOMOHIRO TOKIO TOKYO JP ; TEZUKA FUMINOBU TOKIO TOKYO JP ; TESHIMA KOICHI TOKIO TOKYO JP ; OYASATO NAOHIKO TOKIO TOKYO JP ; OGIHARA TERUHISA OTA GUNMA JP ; OGIHARA KAICHIRO OTA GUNMA JP ; KOYAMA MASAO TOKIO TOKYO JP ; HAYATA TERUNOBU TOKIO TOKYO JP ; FURUYA TOMIAKI TOKIO TOKYO JP

Agent(s): SUYAMA SAICHI

Designated states: CN DE KR US

Title: PROCESS FOR RECYCLING MIXED POLYMER CONTAINING POLYETHYLENE TEREPHTHALATE

Abstract: The invention described herein provides a process for recycling a mixed polymer **recycle** stream containing polyester polymers, particularly polyethylene terephthalate (PET) typically in the form of carbonated soft drink or other containers. This novel process includes the steps of: (1) contacting the mixed polymer **recycle** stream with a solvent which selectively dissolves the PET, (2) separating the selective solvent containing PET from the residual mixed polymer, (3) cooling the selective solvent to precipitate the PET, and (4) removing the selective solvent from the precipitated PET. It is preferable that the mixed polymer **recycle** stream be prepared for recycling by conventional steps, such as water washing. In a preferred embodiment, the mixed polymer **recycle** stream is chemically washed subsequent to water washing and prior to contact with the selective solvent. The PET **recovered** is preferably combined with "virgin" PET and further processed to increase its molecular weight.

Classifications:

International (IPC 8-9): B09B3/00 C08J11/02 C08J11/04 C08J11/08 C08K5/00 C08K5/10 C08L67/00

C08L67/02 (Advanced/Invention);

B09B3/00 C08K5/00 C08L67/00 (Advanced/Non-invention);

B09B3/00 C08J11/00 C08K5/00 C08L67/00 (Core/Invention)

International (IPC 1-7): B03D1/08 B09B3/00 B29B17/02 C08F6/16 C08G63/00 C08G63/183 C08G63/78 C08G63/89

C08J11/02 C08J11/04 C08J11/06 C08J11/08 C08J11/08 C08K5/00 C08K5/10 C08L67/02

CPC: Y02W30/701 C08J11/08 C08J2367/02

European: C08J11/08 M08J367/02

US: 209/166 521/46 521/46.5 521/48 528/308.1 528/502A

Family:

Publication number	Publication date	Application number	Application date
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CA2175876 AA	19961109	CA19962175876	19960506
CN1143090 A	19970219	CN19961006202	19960507
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DE69625951 T2	20030703	DE19966025951T	19960507
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EP0742251 B1	20030129	EP19960201131	19960507
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NO961827 A	19961111	NO19960001827	19960506
NO961827 A0	19960506	NO19960001827	19960506
NO961827 L	19961111	NO19960001827	19960506
PL186674 B1	20040227	PL19960314078	19960506
PL314078 A1	19961112	PL19960314078	19960506
PT742251 T	20030430	PT19960201131T	19960507
SG48395 A1	19980417	SG19960009333	19960417
TW397851 B	20000711	TW19960108237	19960708
US5554657 A	19960910	US19950436078	19950508

Priority:

US19950436078 19950508 CA19962175876 19960506

Probable Assignee: M AND G USA CORP

Assignee(s): (std): SHELL CANADA LTD ; M AND G POLIMERI ITALIA SPA ; M AND G POLIMERI ITALIA S P A PA ; SHELL INT RESEARCH ; SHELL OIL CO ; M AND G POLIMERI ITALIA S P A

Assignee(s): TOMPKIN MARK RICHARD ; SHELL INTERNATL RES MIJ BV ; SHELL CANADA LIMITED ; SHELL INT RESEARCH MIJ BV ; SHELL OIL COMPANY ; SHELL INTERNATL RES MAATSCHAPPIJ BV ; SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V ; M and G POLIMERI ITALIA S P A ; M and G POLIMERI ITALIA S P A PATRICA FROSINONE ; M and G POLIMERI ITALIA S P A PATRICA ; SEMPLE THOMAS CARL ; ROLICK KEVIN LOUIS ; MOSSI AND GHISOLFI OVERSEAS SA ; M AND G USA CORP ; BROWNSCOMBE THOMAS FAIRCHILD ; CHUAH HOE HIN ; DIAZ ZAIDA ; FONG HOWARD LAM HO ; JUNE RAYMOND LAWRENCE

Inventor(s): (std): BROWNSCOMBE THOMAS ; BROWNSCOMBE THOMAS F ; BROWNSCOMBE THOMAS FAIRCHILD ; BROWSCOM T F ; CHAR H H ; CHUA HOE HIN ; CHUAH HOE H ; CHUAH HOE HIN ; DIAZ ZAIDA ; FONG HOWARD L ; FONG HOWARD LAM HO ; FONG HOWARD LAN HO ; JUNE RAYMOND LAWRENCE ; JUNE RAYMOND LAWRENDE ; ROLICK KEVIN L ; ROLICK KEVIN LOUIS ; SEMPLE THOMAS C ; SEMPLE THOMAS CARL ; TOMPKIN MARK R ; TOMPKIN MARK RICHARD ; TOOMASU FUEACHIYAIRUDO BURAUNZ ; Z DIYATZ ; JUNE RAYMOND L ; ZAIDA DEIAZU ; TOOMASU KAARU SENPURI ; SEMPEL THOMAS KARL ; REIMONDO ROORENSU JIYUUN ; MAAKU RICHIIYAADO TONPUKIN ; LAM HO FONG HOWARD ; KEBUIN RUISU RORITSUKU ; HOO HIN CHIYAA ; HAWAADO RAMUHHOO FUONGU ; CHAUN HOE HIN

Inventor(s): TOOMASU FUEACHIYAIRUDO BURAUNZUKOMUBE ; JUNE RAYMOND L AND ; ZAIDA DIAZ ; T F BROWSCOM ; THOMAS CARL SEMPLE ; THOMAS FAIRCHILD BROWNSCOMBE ; KEVIN LOUIS ROLICK ; MARK RICHARD TOMPKIN ; RAYMOND LAWRENCE JUNE ; RAYMOND LAWRENDE JUNE ; H H CHAR ; HOE HIN CHUAH ; HOWARD LAM HO FONG

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR

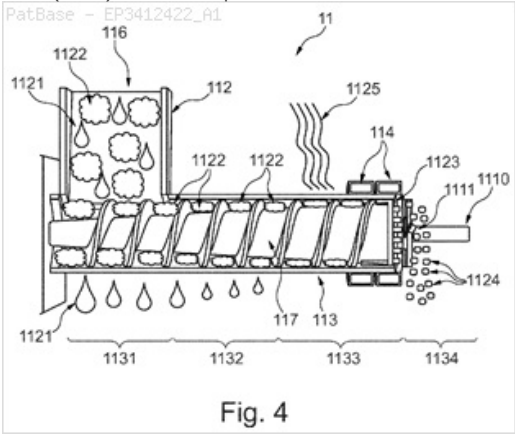
Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

Title: INTEGRATED METHOD, SYSTEM AND MACHINE FOR RECYCLING PULPER REJECT INTO RAW MATERIAL APPLICABLE AS INPUT FOR INJECTION MOULDING PRODUCTION OF VARIOUS PRODUCTS OBTAINED FROM SAID METHOD AND MACHINE PROCEDE INTEGRE, SYSTEME ET MACHINE DE RECYCLAGE DE REJETS DE PULPEUR DANS UNE MATIERE PREMIERE APPLICABLES EN TANT QU'ENTREE DE MOULAGE PAR INJECTION POUR LA PRODUCTION DE DIVERS PRODUITS OBTENUS A PARTIR DUDIT PROCEDE ET DE LADITE MACHIN

Abstract: Described herein is a method for recycling pulper reject into raw material, characterized by comprising the steps of receiving a pulper reject (1) defined by plastic, **aluminium**, water and impurities from a previous washing/separating process; moisture removing, softening and compacting the pulper reject, obtaining a **recycled** raw material (1124); and feeding a thermoplastic transformation machine (16) with the raw material (1124) to obtain a product.

Classifications:

International (ipc 8-9): B09B3/00 B29B13/06 B29B17/00 B29B17/02 B29B9/02 B29C45/17 B29C45/46 B29C48/76 D21B1/04 (Advanced/Invention)
International (ipc 1-7): B09B3/00 B29B17/02 B29C45/17 B29C45/46 D21B1/04
CPC: B29B17/0026 B29B7/90 B29B9/06 B29B9/12 B29B13/06 B29K2105/26 B29B17/02 B29B2017/0244 B29L2031/7166 B29C48/761 B29B13/02



Family:

Publication number	Publication date	Application number	Application date
BR102017012176 A2	20181226	BR20171012176	20170608
EP3412422 A1	20181212	EP20180176599	20180607

Priority:

BR20171012176 20170608

Probable Assignee: TAMAM TRADING DWC LLC

Assignee(s): (std): TAMAM TRADING DWC LLC

Inventor(s): (std): ART 6 4 DA LPI 9279 96

Inventor(s): ART 6 DEGREES 4 DEGREES DA LPI 9279 96

Agent(s): LUCKE ANDREAS

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: BUILDING OR CONSTRUCTION ELEMENT, A CONSTRUCTION MANUFACTURED MAKING USE OF SUCHAN ELEMENT AND A METHOD OF MANUFACTURING SUCH AN ELEMENT.

Abstract: The invention relates to building or construction elements, having a core containing material contaminated or otherwise, possibly mixed with filling material, a curing material and/or foaming materials, which core is brought into a shape and is wrapped by a **foil** impermeable by moisture, made of, for instance, polytene, polypropene, polyester, **polyvinyl chloride**, bitumen etc.. In addition, such an element may be enclosed by a layer of curing material or solid material such as metal plate, or it may be incorporated in a mass of a curing material.

Classifications:

International (IPC 8-9): E04C1/40 E04C2/16 (Advanced/Invention);
E04C1/00 E04C2/10 (Core/Invention)

International (IPC 1-7): B09B3/00 E04B1/74 E04B2/00 E04C1/40 E04C2/16

CPC: E04C1/40 E04C2/16

European: E04C1/40 E04C2/16

Family:

Publication number	Publication date	Application number	Application date
EP0606120 A1	19940713	EP19940200007	19940104
NL9300009 A	19940801	NL19930000009	19930105
NL9300275 A	19940801	NL19930000275	19930212

Priority:

NL19930000009 19930105

Probable Assignee: W B B WORLD BUILDING BRICK

Assignee(s): (std): W B B WORLD BUILDING BRICK

Assignee(s): W B B WORLD BUILDING BRICK SCHIPHOLCENTRUM 7673

Inventor(s): (std): LAAN DIRK

Designated states: AT BE CH DE DK ES FR GB IT LI NL PT SE