

1) Family number: 51716850 (US2012199675A)

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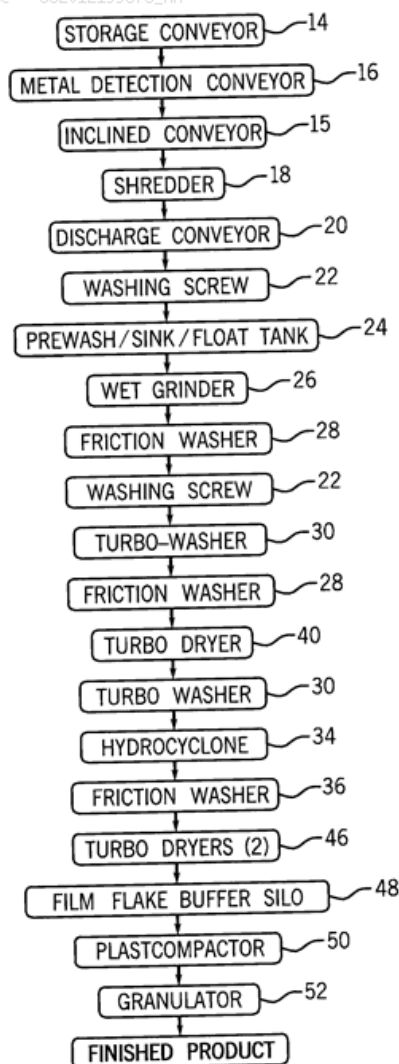
Title: POST CONSUMER SCRAP FILM RECYCLING PROCESS

Abstract: A method for processing a supply of post consumer scrap linear low density or low density polyethylene film into near-virgin quality blown film product. The method includes tearing the supply of film in a shredder, wherein the surface area of the film is exposed, including delaminating the film. The torn supply of film is washed in a water bath including a surfactant. The film is agitated in the bath containing the surfactant wherein contaminants on the film are removed from the film. The washed film is ground into smaller pieces and additional washing of the ground film in a rotating friction washer occurs wherein additional contaminants are removed from the film. The ground film is then dried and compacted without addition of water into granulated objects of near-virgin quality blown film product.

Classifications:

International (IPC 8-9): B02C B02C19/00 B02C21/00 B02C23/08 B02C23/18 B02C23/38 B02C23/40 B29B B29B17/00 B29B17/02 B29B17/04 B29B9/02 B29B9/08 B32B38/10 C08J C08J11/00 C08J11/04 (Advanced/Invention); B29B17/02 B29K105/06 B29K105/26 B29K23/00 B29L7/00 (Advanced/Non-invention); B02C B29B C08J (Subclass/Invention)
CPC: B02C23/08 B32B38/10 B02C23/38 B29B17/02 B02C21/00 B23B38/10 B29B2017/0014 B29B17/04 B29B2017/0015 B29B2017/0289 B29K2023/0625 B29K2023/0633 B29K2105/065 B29L2007/008 Y02W30/62 Y02W30/622 Y02W30/625 Y10T156/11 B29B2017/0272 B29B2017/0231 B29K2023/04 B29K2105/26 B29B17/0412 B02C23/40 C08J11/04 C08J2323/06 B29B17/0026 B29B2017/0021 B29B17/0036 B29K2023/06 B02C23/18 B29B9/08
European: B29B17/00D B29B17/04 L29B17/00C1 L29K23/06B3 L29K23/06B5 L29L7/00G
US: 1/1 100/39 100/75 156/701 156/701S 241/101.2 241/15 241/152.2 241/15P 241/17 241/19 241/21 241/24.14 241/25 241/29 241/42 241/62 241/78 241/81 264/115 264/140 425/202 425/301

PatBase - US2012199675_AA



Family:

Publication number	Publication date	Application number	Application date
CA2764077 AA	20120809	CA20122764077	20120117
CA2764077 C	20160412	CA20122764077	20120117
CA2900848 AA	20150810	CA20142900848	20140116
CN105189075 A	20151223	CN201480014474	20140116
CN105189075 B	20171031	CN201480014474	20140116
DE602014021294 D1	20180322	DE201460021294T	20140116
EP2969443 A1	20160120	EP20140775159	20140116
EP2969443 A4	20161019	EP20140775159	20140116
EP2969443 B1	20180221	EP20140775159	20140116
ES2663818 T3	20180417	ES20140775159T	20140116
HK1220665 A1	20170512	HK20160108666	20160728
HK1220665 B	20181019	HK20160108666	20160728
JP2016522099 T2	20160728	JP20160500170T	20140116
JP6450362 B2	20190109	JP20160500170T	20140116
MX2012001752 A1	20120831	MX20120001752	20120209

MX2015011162 A1	20151111	MX20150011162	20140116
PL2969443 T3	20180831	PL20140775159T	20140116
US2012199675 AA	20120809	US20110024088	20110209
US2013186573 AA	20130725	US20130796143	20130312
US2014014749 AA	20140116	US20130029951	20130918
US2014048631 AA	20140220	US20130063045	20131025
US2014131491 AA	20140515	US20140161737	20140123
US2014209716 AA	20140731	US20140245108	20140404
US2014209725 AA	20140731	US20140245078	20140404
US2015367535 AA	20151224	US20150823014	20150811
US2015375425 AA	20151231	US20150836007	20150826
US2016236377 AA	20160818	US20160137091	20160425
US2017072595 AA	20170316	US20160359166	20161122
US2018065276 AA	20180308	US20170685641	20170824
US8567702 BB	20131029	US20110024088	20110209
US8690090 BB	20140408	US20130029951	20130918
US8820666 BB	20140902	US20130796143	20130312
US9114551 BB	20150825	US20140245078	20140404
US9114552 BB	20150825	US20140245108	20140404
US9120104 BB	20150901	US20140161737	20140123
US9138749 BB	20150922	US20130063045	20131025
US9346192 BB	20160524	US20150836007	20150826
US9527223 BB	20161227	US20150823014	20150811
US9770845 BB	20170926	US20160137091	20160425
US10022725 BB	20180717	US20160359166	20161122
US10076857 BB	20180918	US20160137091	20160425
WO14158316 A1	20141002	WO2014US11850	20140116

Priority:

US20110024088	20110209	CA20122764077	20120117	US20130796143	20130312
US20130029951	20130918	US20130063045	20131025	EP20140775159	20140116
WO2014US11850	20140116	US20140161737	20140123	US20140245108	20140404
US20140245078	20140404	US20150823014	20150811	US20150836007	20150826
US20160137091	20160425	US20160359166	20161122	US20170685641	20170824

Probable Assignee: WISCONSIN FILM AND BAG INC

Assignee(s): (std): BLAKE DANIEL WILLIAM ; CARLSTEDT RICHARD WAYNE ; KULESA ROBERT FRANCIS ; FEENEY JAMES J ; HACKER BUCKELL GARY ; WISCONSIN FILM AND BAG INC ; JOHNSON ABBY MARIE

Assignee(s): WISCONSIN FILM AND BAG INC SHAWANO ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AG ; DEUTSCHE BANK NEW YORK BRANCH COLLATERAL AGENT AG AS ; ANTARES CAPITAL LP AGENT AS

Inventor(s): (std): KULESA ROBERT FRANCIS ; CARLSTEDT RICHARD WAYNE ; BLAKE DANIEL WILLIAM ; FEENEY JAMES J ; HACKER BUCKELL GARY ; JOHNSON ABBY MARIE ; JOHNSON ABBY ; BLAKE DANIEL ; CARLSTEDT RICHARD ; KULESA ROBERT ; FEENEY JAMES ; HACKER BUCKELL

Inventor(s): JOHNSON ABBY MARIE MADISON ; HACKER BUCKELL GARY SHAWANO ; BLAKE DANIEL WILLIAM MENASHA ; CARLSTEDT RICHARD WAYNE GREEN BAY ; FEENEY JAMES J APPLETON ; KULESA ROBERT FRANCIS GREEN BAY ; JAMES J FEENEY ; DANIEL WILLIAM BLAKE ; ROBERT FRANCIS KULESA ; RICHARD WAYNE CARLSTEDT ; BUCKELL GARY HACKER

Agent(s): FINLAYSON AND SINGLEHURST; COPSEY TIMOTHY GRAHAM; ISERN JORGE; CLT PATENT AND TRADEMARK HK LTD; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; ONO SHINJIRO; KOBAYASHI YASUSHI; REINHART BOERNER VAN DEUREN SC; REINHART BOERNER VAN DEUREN SC; NELSON MULLINS RILEY AND SCARBOROUGH LLP; MILLER LESLIE S 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 IR 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 SA 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

2) Family number: 60349252 (US2015258713A)

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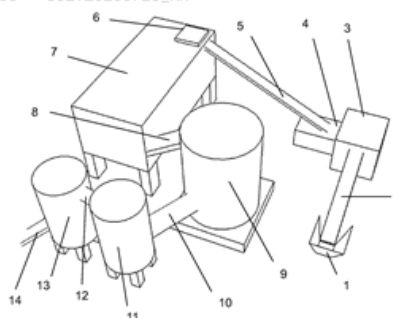
Title: DEVICE FOR RECYCLING MIXED PLASTIC WASTE, A BLADE SYSTEM FOR SAID DEVICE AND A METHOD FOR RECYCLING RECYCLED PLASTIC WASTE

Abstract: A blade system for device for recycling mixed plastic is disclosed. Furthermore, a device and a method for recycling unidentified, unclean, and unsorted mixed plastic into reusable plastic mixture is disclose. The present solution allows the recycling of mixed plastic waste outdoors, both in warm and cold climate conditions. In the course recycling mixed plastic waste the mixed plastic waste is taken to a melting temperature, at which the mixed plastic waste is mixed in a molten state, and the organic and bacterial material is destroyed during the thermal processing. After the melting, mixing and thermal processing of the mixed plastic waste, the compaction process of the molten mixed plastic waste is performed. Volume compacting is performed, and the mass of mixed plastic waste in a molten state is rapidly cooled down, crushed, after-cooled and homogenized.

Classifications:

International (IPC 8-9): B02C18/00 B02C18/08 B02C18/18 B29B17/00 B29B17/04 B29B9/00 B29B9/02 B29B9/12 F16H57/04 (Advanced/Invention); B29B17/00 B29K101/12 B29K105/26 F16H57/04 (Advanced/Non-invention)
CPC: B29B17/0412 B02C18/0084 B29B2017/044 B29K2101/12 B29K2105/26 B29B17/0036 B02C18/086 B02C18/18 B29B9/02 B29B9/12 B29B17/0026 B29B17/04 B29B2017/048 Y02W30/62 Y02W30/625
US: 241/291 241/3 241/65

PatBase - US2015258713_AA



Family:

Publication number	Publication date	Application number	Application date
DE602014007746 D1	20170504	DE201460007746T	20140513
EP2944445 A1	20151118	EP20140168154	20140513
EP2944445 B1	20170322	EP20140168154	20140513
US2015258713 AA	20150917	US20140299540	20140609
US9815225 BB	20171114	US20140299540	20140609

Priority:

EP20140168154 20140513

Probable Assignee: ROLAN INVESTMENT OUE**Assignee(s):** (std): REXEST GRUPP OUE ; ROLAN INVEST OUE ; ROLAN UNVESTMENT OUE**Assignee(s):** ROLAN INVESTMENT OUE**Inventor(s):** (std): VALDMAA ANDRUS ; KAESNAR AIVO ; SAAREVAELI AARNE**Agent(s):** SARAP MARGUS; BERGGREN INC**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**3) Family number: 11689657 (US5084135A)**

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Title: RECYCLING PLASTIC COATED PAPER PRODUCT WASTE

Abstract: A method for reclaiming plastic and cellulosic fiber from plastic coated waste. The method includes the steps of introducing previously hydropulped plastic coated waste into a size reduction unit to reduce the plastic coated waste to a maximum dimension of about 1-4 inches. The plastic coated waste is then subject to flotation with agitation to separate the plastic from the cellulosic fiber. The cellulosic fiber is then screened, dried, and baled. The plastic is further reduced to a maximum dimension of about 1/2 inches and dewatered. The dewatered plastic is dried to a moisture content of less than 10 percent and rolled into plastic pellets. This method produces plastic pellets comprising from about 5 to about 10 weight percent cellulosic fiber and less than about 10 weight percent water from hydropulper plastic coating waste.

Classifications:

International (IPC 8-9): B02C13/04 B03B1/04 B03B5/28 B03B9/06 B29B17/00 B29B17/02 B29B17/04 D21B1/02 D21B1/08 D21B1/32 D21C5/02 (Advanced/Invention); B29B17/00 B29B17/04 B29K105/26 D21C5/02 (Advanced/Non-invention);

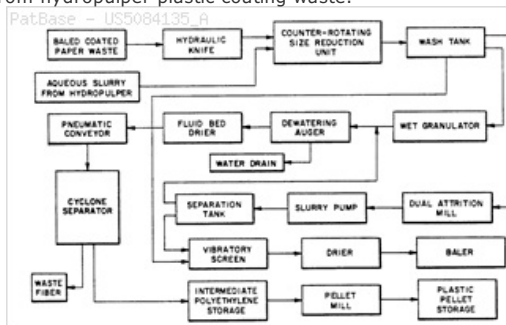
B03B1/00 B03B5/28 B03B9/00 B29B17/02 D21B1/00 (Core/Invention)

International (IPC 1-7): B02C13/04 B02C23/40 B29B17/00 B29K105/26 D21B1/08 D21B1/14 D21B1/30 D21C5/02

CPC: B29B2017/0289 B29K2711/14 Y02W30/524 Y02W30/622 Y02W30/625 Y02W30/646 D21B1/322 B03B1/04 B03B5/28 B03B9/061 B29B17/02 B29B2017/0244 B29B2017/0251 B29B2017/0484 B29B2017/0488 B29K2023/06 B29K2105/065 B29K2705/00 B29K2711/12 B29L2007/008 B29L2009/00 B29L2031/7158 D21B1/026

European: B03B1/04 B03B5/28 B03B9/06D B29B17/02 D21B1/02E D21B1/32B L29B17/02Z1F2 L29B17/02Z1H L29B17/04Z13 L29B17/04Z14 L29K105/06B L29K23/06 L29K705/00 L29K711/12 L29K711/14 L29L31/7158 L29L7/00G L29L9/00

US: 162/191 162/261 162/264 162/4 209/10 209/173 209/3 241/186.4 241/190 241/194 241/20 241/24 241/24.18 241/27 241/3 241/41 261/20 261/24 261/27 264/117 264/40.6 264/40.7

**Family:**

Publication number	Publication date	Application number	Application date
AU199215721 A1	19921021	AU19920015721	19920320
CA2107239 AA	19930921	CA19922107239	19920320
CA2107239 C	20040525	CA19922107239	19920320
EP0586399 A1	19940316	EP19920908658	19920320
EP0586399 A4	19940427	EP19920908658	19920320
JP6508567 T2	19940929	JP19920507893T	19920320
KR19947000579 A	19940222	KR19937002826	19920320
US5084135 A	19920128	US19900499718	19900327
US5268074 A	19931207	US19910672832	19910321
US5277758 A	19940111	US19920854231	19920320
US5351895 A	19941004	US19920912866	19920713
WO9216686 A1	19921001	WO1992US02298	19920320

Priority:

US19900499718 19900327 US19910672832 19910321 WO1992US02298 19920320
US19920854231 19920320 US19920912866 19920713

Probable Assignee: ALLSTATE INSURANCE CO**Assignee(s):** (std): ADVANCED RECYCLING TECH ; ADVANCED RECYCLING TECHNOLOGIE ; ADVANCED ENVIRONMENTAL RECYCLI

Assignee(s): ADVANCED ENVIRONMENTAL RECYCLING TECHNOLOGIES INC ; ADVANCED ENVIRONMENTAL RECYCLING TECHNOLOGIES INC A CORP OF ARKANSAS ; ADVANCED ENVIRONMENTAL RECYCLING TECHNOLOGIES INC A OF OF ARKANSAS CORP ; ALLSTATE INSURANCE CO ; GOFORTH BILLY D ; ADVANCED RECYCLING TECHNOLOGIES INC ; BANK OF OKLAHOMA NA ; BROOKS J DOUGLAS ; BROOKS JOE G ; REGIONS BANK ; GOFORTH CHARLES L ; HIG AERT LLC ADMINISTRATIVE AGENT AS

Inventor(s): (std): BROOKS DOUGLAS J ; BROOKS JOE G ; BROOKS J DOUGLAS ; GOFORTH CHARLES L ; GOFORTH BILLY D ; GOFORTH CHARLES

Inventor(s): JOE G BROOKS ; CHARLES L GOFORTH ; DOUGLAS J BROOKS ; BILLY D GOFORTH

Agent(s): FB RICE; FB RICE PTY LTD; RICHES MCKENZIE AND HERBERT LLP

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN TD TG

Title: INTEGRATED MEDICAL WASTE MANAGEMENT SYSTEM AND OPERATION

Abstract: An integrated medical waste management and treatment system may include sensors, interlocks, communications links and/or other features for determining if the waste itself, the decontaminating disinfectant used in the process, or the status of the system are consistent with recommended or authorized system operation. System operation may be terminated if a condition inconsistent with recommended or authorized system operation is detected. Such compliance apparatus may include an electronic scale for determining the weight of the waste loaded into the receiver compartment, a metal detector, or a sensor for determining if the decontaminating disinfectant is a recommended or authorized disinfectant. A communications link may be provided one or more systems to transmit information to a central station to deliver updates or commands associated with the recommended or authorized operation of each system.

Classifications:

International (IPC 8-9): A61G12/00 A61G19/00 A61L A61L11/00 A61L2/16 A61L2/18 B02C18/00 B02C19/00 B02C23/00 B02C23/08 B02C23/12 B02C23/18 B02C23/36 B02C23/40 B02C25/00 B09B3/00 B09B5/00 (Advanced/Invention);

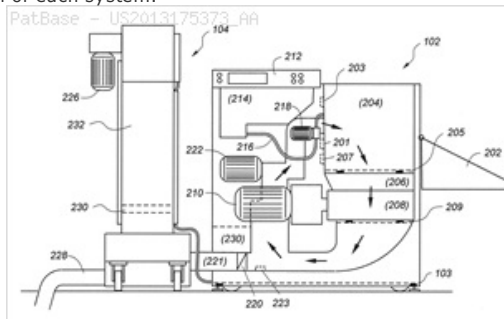
A61L (Subclass/Invention)

CPC: B02C23/00 B02C23/08 B02C23/36 B02C23/40 B02C25/00

A61L2/186 A61L11/00 B02C19/0075 B02C23/12 B02C23/18

B09B3/0075

US: 1/1 241/33 241/36 241/41 241/46.02 422/128

**Family:**

Publication number	Publication date	Application number	Application date
AU2013207988 AA	20130718	AU20130207988	20130110
BR112014016861 A2	20170627	BR20141116861	20130110
CA2865703 AA	20140620	CA20132865703	20130110
CN104159620 A	20141119	CN201380005020	20130110
CO7071104 A2	20140930	CO20140140881	20140701
EA201491341 A1	20150331	EA20140091341	20130110
EP2802361 A1	20141119	EP20130736034	20130110
EP2802361 A4	20160120	EP20130736034	20130110
IL233561 A0	20140831	IL20130233561	20130110
IN05778DN2014 A	20150410	IN2014DN05778	20140710
JP2015511131 T2	20150416	JP20140552294T	20130110
MX2014008453 A1	20150309	MX20140008453	20130110
RU2014128481 A	20160227	RU20140128481	20130110
US2013175373 AA	20130711	US20130737461	20130109
US2017008050 AA	20170112	US20160213066	20160718
US9393569 BB	20160719	US20130737461	20130109
WO13106551 A1	20130718	WO2013US21005	20130110

Priority:

US20120585022P 20120110 US20130737461 20130109 WO2013US21005 20130110
US20160213066 20160718

Probable Assignee: STERIMED MEDICAL WASTE SOLUTIONS UK LTD

Assignee(s): (std): BORIS INDYCH ; DWIGHT MORGAN ; INDYCH BORIS ; LITINSKY YURI ; STERIMED MEDICAL WASTE SOLUTIONS UK LTD ; MORGAN DWIGHT ; WEISS MEIR ; MEIR WEISS ; YURI LITINSKY ; STERIMED MEDICAL WASTE SOLUTIONS INC

Assignee(s): STERIMED MEDICAL WASTE SOLUTIONS UK LTD48 HIGH STREETSURREYGU27 2LAHASLEMEREGB

Inventor(s): (std): MEIR WEISS ; DWIGHT MORGAN ; YURI INSKY ; LAPPE MURRAY ; LITINSKY YURI ; INDYCH BORIS ; MORGAN DWIGHT ; WEISS MEIR ; BORIS INDYCH

Inventor(s): YURI LITINSKY ; LITINSKY YURIIL ; INDYCH BORISIL ; MORGAN DWIGHTGB ; WEISS MEIRIL

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; RIDOUT AND MAYBEE LLP; SILVANA MARIA LOPEZ DIAZ; ABG PATENTES SL; INO SARI; KUMAKURA YOSHIO; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI; DINSMORE AND SHOHL LLP; POSA JOHN G 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

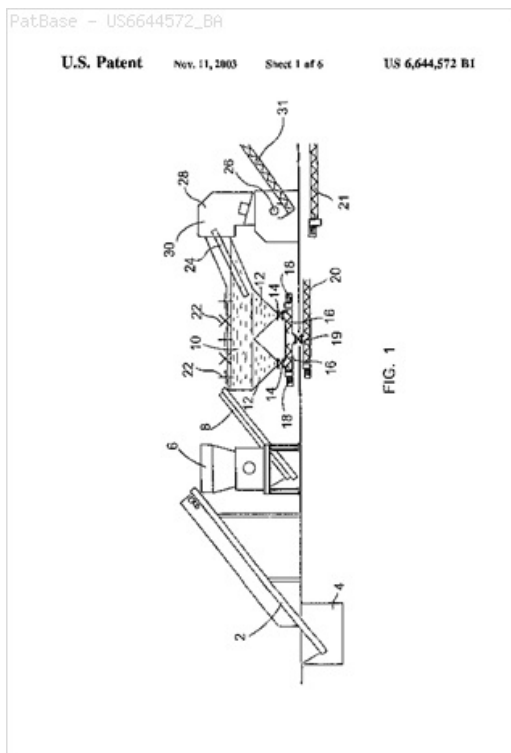
Title: LAMINAR POLYOLEFINE PLASTIC MATERIAL RECYCLING INSTALLATION

Abstract: Equipment for the recycling of polyolefinic plastic sheeting material that comprises: breakers (6) for plastic material; separating devices (10) for separating material of higher density; crusher mills (26); and water separating tanks (62, 68), with a lower outlet and with a feeder that carries the material to the bottom (72) of the tank (62, 68); the equipment also comprises a pump (78) connected to the outlet (74) and equipped with an outlet (80); several movable devices (82) suitable for promoting suction flow of this water and materials through the inlet (76) and a propulsion flow through the outlet (80); and a motor (84) of variable speed suitable for driving the movable devices (82), such that a variation in the speed causes a variation in the flow rate of the flows.

Classifications:

International (IPC 8-9): B02C21/00 B02C23/14 B03B5/28 B03B7/00 B03B9/06 B29B17/00 B29B17/02 B29B17/04 B29K101/00

B29K55/00 F04C2/107 (Advanced/Invention);
B02C21/00 B03B5/28 B03B7/00 B29K23/00
B29K55/00 (Advanced/Non-invention);
B02C21/00 B02C23/00 B03B5/28 B03B7/00 B03B9/00 B29B17/00
B29B17/02 B29B17/04 F04C2/00 (Core/Invention)
International (IPC 1-7): B02C19/12 B02C21/00 B02C23/14
B03B5/28 B03B7/00 B03B9/06 B29B17/00 B29B17/02 B29K23/00
F04C2/107 F04C21/07
CPC: B29L2007/008 B29B17/02 B29B2017/0244 B29K2023/06
B29K2023/083 B29K2023/12 B29K2031/04 B29K2067/006
Y02W30/524 Y02W30/622
European: B29B17/02 L29B17/02Z1F2 L29K23/06 L29K23/08B
L29K23/12 L29K31/04 L29K67/00C
US: 241/152.2 241/76 241/79.1 241/81



Family:

Publication number	Publication date	Application number	Application date
AT247546 E	20030915	AT20000905075T	20000218
AU200026728 A1	20001009	AU20000026728	20000218
AU200026728 A5	20001009	AU20000026728	20000218
BRPI0009197 A	20011226	BR2000PI09197	20000218
BRPI0009197 B1	20100406	BR2000PI09197	20000218
CN1223444 C	20051019	CN20008005363	20000218
CN1344197 A	20020410	CN20008005363	20000218
DE60004696 D1	20030925	DE20006004696	20000218
DE60004696 D1	20030925	DE20006004696T	20000218
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ES2156542 AA	20010616	ES19990000568	19990322
ES2156542 BA	20020201	ES19990000568	19990322
ES2204514 T3	20040501	ES20000905075T	20000218
JP2002539967 T2	20021126	JP20000606396T	20000218
JP4134515 B2	20080820	JP20000606396T	20000218
PT1225019 T	20040130	PT20000905075T	20000218
RU2001128429 A	20030710	RU20010128429	20000218
RU2236940 C2	20040927	RU20010128429	20000218
US6644572 BA	20031111	US20010937123	20010920
WO0056512 A1	20000928	WO2000ES00057	20000218

Priority:

ES19990000568 19990322 WO2000ES00057 20000218

Probable Assignee: JOSEP PERUGA CASES

Assignee(s): (std): CASES JOSEP PERUGA ; JOSEP PERUGA CASES ; PERUGA CASES JOSEP

Inventor(s): (std): CASES JOSEP PERUGA ; PERUGA CASES JOSEP ; PERUGA KASES KHOSEP

Inventor(s): JOSEP PERUGA CASES

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

6) Family number: 68799996 (US2019193303A)

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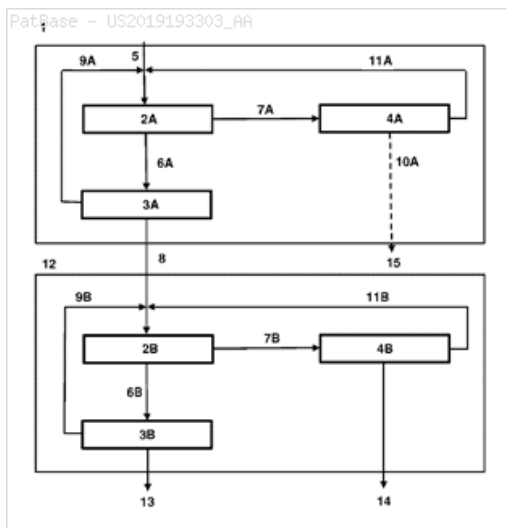
Title: METHOD FOR PRODUCING POLYOLEFIN RECYCLATES

Abstract: The invention relates to a method for producing polyolefin recyclates, in particular HDPE recyclates. In a specified sequence, color-mixed polyolefin-containing groups are washed at a low temperature, washed at an increased temperature in an alkaline medium, flake-sorted, and treated at an increased temperature in order to remove migration materials. By virtue of the aforementioned method, polyolefin recyclates can be obtained with a substantially improved degree of purity compared to hitherto commercially available recyclates, said recyclates being usable in the production of novel consumer product packaging. Additionally, unpleasant odors connected to known polyolefin recyclates due to the decomposition products of migration materials formed during the extrusion process are largely prevented.

Classifications:

International (IPC 8-9): B29B17/02 B29B17/04 B29B9/10 B29B9/16

B29K105/00 B29K23/00 B29L31/00 (Advanced/Invention);
B29B17/04 B29K105/00 B29K105/26 B29K23/00
B29L31/00 (Advanced/Non-invention)
International (IPC 1-7): B29B17/02 B29K105/00 B29K23/00
B29L31/00
CPC: B29B17/0412 B29K2023/00 B29K2023/04 B29K2023/10
Y02W30/622 Y02W30/625 B29B9/10 B29K2023/065 B29K2023/12
B29K2105/26 B29B17/02 B29B2017/0203 B29B2017/0279
B29B2017/0289 B29K2105/0032 B29K2995/002 B29L2031/712



Family:

Publication number	Publication date	Application number	Application date
AU2017324387 AA	20190328	AU20170324387	20170907
BR112019004401 A2	20190528	BR20191104401	20170907
CA3036039 AA	20190306	CA20173036039	20170907
CN109963697 A	20190702	CN201780065754	20170907
DE102016116742 A1	20180308	DE201610116742	20160907
EP3509811 A1	20190717	EP20170768053	20170907
IN201937013137 A	20190524	IN201937013137	20190401
KR20190046956 A	20190507	KR20197009747	20170907
US2019193303 AA	20190627	US20170331360	20170907
WO18046578 A1	20180315	WO2017EP72420	20170907

Priority:

DE201610116742 20160907 WO2017EP72420 20170907

Probable Assignee: DER GRUENE PUNKT DUALES SYSTEM DEUTSCHLAND GMBH

Assignee(s): (std): DER GRUENE PUNKT DUALES SYSTEM DEUTSCHLAND GMBH ; DER GRUNE PUNKT DUALES SYSTEM DEUTSCHLAND GMBH

Assignee(s): HEYDE MICHAEL ; WIETHOFF STEFAN ; SCHWARZ HILGENFELD INES ; RABANIZADA NABILA ; RAMSEL ANNA ; BORCHERS BRYAN CODY

Inventor(s): (std): HEYDE MICHAEL ; WIETHOFF STEFAN ; SCHWARZ HILGENFELD INES ; RAMSEL ANNA ; RABANIZADA NABILA ; BORCHERS BRYAN CODY ; MICHAEL HEYDE ; INES SCHWARZ HILGENFELD ; STEFAN WIETHOFF ; ANNA RAMSEL ; NABILA RABANIZADA ; BRYAN CODY BORCHERS ; SCHWARZFZ HILGENFELD INES

Agent(s): SHELSTON IP PTY LTD; RIDOUT AND MAYBEE LLP; PFRANG TILMAN; POPP EUGEN

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 DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW 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 SA 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: 54624839 (US2015041573A)

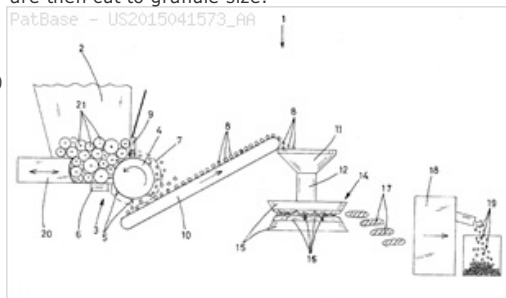
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Title: METHOD AND ARRANGEMENT FOR RECYCLING ADHESIVE-CONTAINING FILM WASTE

Abstract: A method for recycling adhesive-containing film waste. The film waste is initially coarsely chopped in a chopping device. A liquid or powdered additive that reduces the strength of the adhesive on the film waste is added to material in the chopping device or sprayed on components of the chopping device. The waste material exits the chopping device through a perforated sheet as clumps of material, which are then fed into an agglomerator, where they are agglomerated or compacted into strands of material. The temperature in the agglomerator is between 100 and 200 degrees C., i.e., below the melting point of the material of the film. The strands exiting the agglomerator are then cut to granule size.

Classifications:

International (IPC 8-9): B02C23/00 B02C23/18 B02C23/20
B29B17/00 B29B17/04 C08J11/06 (Advanced/Invention);
B29K105/00 B29K105/26 B29L7/00 B29L9/00 (Advanced/Non-invention)
CPC: B29B17/0036 B02C23/20 B29B17/0412 B29K2105/25
B29K2105/26 B29L2007/008 B02C23/00 B02C23/18 B29B17/0026
B29K2105/0097 B29L2007/007 B29L2009/00 Y02W30/62
US: 1/1 241/3 241/60



Family:

Publication number	Publication date	Application number	Application date
DE102012101481 A1	20130829	DE201210101481	20120224
DE502013003132 D1	20160707	DE201350003132T	20130122

DK2817131 T3	20160912	DK20130702197T	20130122
EP2817131 A1	20141231	EP20130702197	20130122
EP2817131 B1	20160525	EP20130702197	20130122
ES2600147 T3	20170207	ES20130702197T	20130122
PL2817131 T3	20170531	PL20130702197T	20130122
PT2817131 T	20160913	PT20130702197T	20130122
US2015041573 AA	20150212	US20140466430	20140822
US9381678 BB	20160705	US20140466430	20140822
WO13124104 A1	20130829	WO2013EP51115	20130122

Priority:

DE201210101481 20120224 EP20130702197 20130122 WO2013EP51115 20130122

Probable Assignee: REELAB AB

Assignee(s): (std): LEITZ WOLFGANG ; WISSING JOHANNES

Assignee(s): REELAB AB

Inventor(s): (std): WISSING JOHANNES ; JOHANNES WISSING

Agent(s): HABEL U HABEL PATENTANWALTE PARTG MBB; HABEL LUDWIG; CARVAJAL Y ISABEL; JEFFREY; BOHAN MATHERS LLC; PATRICIA; HABEL LUTZ

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

8) Family number: 15254845 (US5876644A)

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Title: FOOD QUALITY POLYESTER RECYCLING

Abstract: A method of recycling post-consumer polyester to obtain recycled polyester of sufficiently high purity to meet food packaging requirements is disclosed. The method includes cleaning comminuted pieces of post-consumer polyester to remove surface contaminants; melting the surface-cleaned post-consumer polyester pieces; extruding the post-consumer melt; blending the melt of post-consumer polyester with a melt of virgin polyester prepolymer; solidifying and pelletizing the blended melt while the virgin polyester prepolymer remains as prepolymer; and polymerizing the solid blended pellets in the solid state.

Classifications:

International (IPC 8-9): B29B17/00 B29B17/04 B29B9/16

C08G63/80 C08G63/91 C08J11/06 (Advanced/Invention);

B29C47/00 (Advanced/Non-invention);

B29B17/00 B29B17/04 B29B9/00 C08G63/00

C08J11/00 (Core/Invention);

B29C47/00 (Core/Non-invention)

International (IPC 1-7): B29C47/36 C08G63/80 C08G63/91

C08J11/06

CPC: Y10S264/92 B29B17/0412 B29B9/16 B29B17/0026

B29C2793/009 B29K2067/00 B29K2105/26 B29K2067/003 B29B9/06

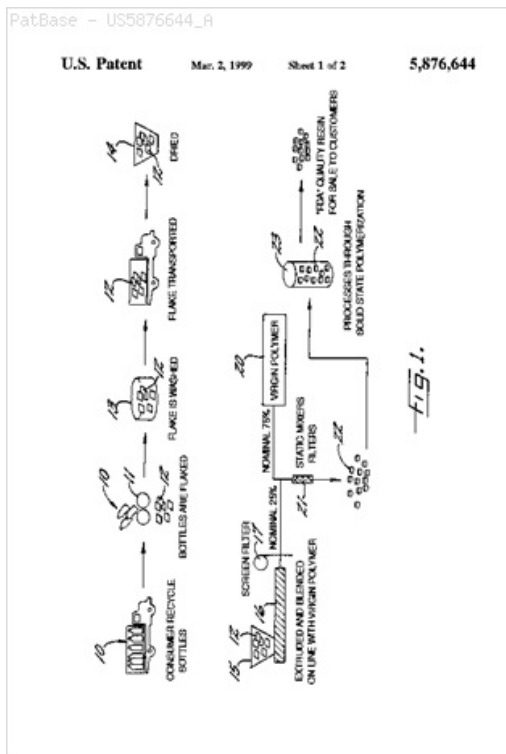
Y10T428/1352 Y02W30/62 Y02W30/625 Y02W30/701 B29C48/00

B29C48/04

European: B29B17/00D B29B17/04D B29B9/16 L29C47/00

L29C793/00J L29K105/26 L29K67/00

US: 264/101 264/141 264/176.1 264/920 428/35.7 521/48 521/48.5



Family:

Publication number	Publication date	Application number	Application date
AT310036 E	20051215	AT19970946953T	19970902
AU199852029 A1	20010102	AU19980052029	19970902
AU199852029 A5	20010102	AU19980052029	19970902
DE69734685 D1	20051222	DE19976034685	19970902
EP1084171 A1	20010321	EP19970946953	19970902
EP1084171 B1	20051116	EP19970946953	19970902
JP2001520703 T2	20011030	JP19990512081T	19970902
US5876644 A	19990302	US19960703491	19960827
WO0077071 A1	20001221	WO1997US21571	19970902

Priority:

US19960703491 19960827 WO1997US21571 19970902

Probable Assignee: DAK AMERICAS MISSISSIPPI INC

Assignee(s): (std): NICHOLS CARL S ; MOORE TONY CLIFFORD ; WELLMAN INC

Assignee(s): CIT GROUP BUSINESS CREDIT INC ; DAK AMERICAS MISSISSIPPI INC ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICAS AGENT AS ; FIBER IND ; WELLMAN INC SHREWSBURY ; WILMINGTON TRUST CO ; WELLMAN INC AND FIBER IND ; WELLS FARGO FOOTHILL LLC AS AGENT ; FIBER IND INC ; WELLMAN INC AND FIBER IND INC ; WELLS FARGO FOOTHILL LLC AGENT AS

Inventor(s): (std): NICHOLS CARL S ; MOORE TONY CLIFFORD ; NICHOLS S ; MOORE CLIFFORD ; TONY CLIFFORD MOORE ; CARL S NICHOLS

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

9) Family number: 12225287 (US6056901A)

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Title: METHOD FOR MANUFACTURE OF REGENERATED SYNTHETIC RESIN PRODUCT

Abstract: A method which is capable of manufacturing regenerated synthetic resin products, particularly slide fastener parts of regenerated synthetic resin, with good quality by using as a raw material such waste synthetic resin materials as emanate from the production line of slide fasteners of synthetic resin or arise from waste plastic products. This method includes granulating the waste synthetic resin material with a rotary blade kept in motion at a high speed and, at the same time, heating the resin material by the heat of friction with the rotary blade, heating and melting the hot granulated synthetic resin and deaerating and extruding the hot molten resin to obtain a strand, and pelletizing the extruded strand thereby forming primary pellets, subjecting the resultant primary pellets to solid-phase polymerization in a vacuum or in an atmosphere of an inert gas at a prescribed temperature thereby forming regenerated pellets, and then forming the regenerated pellets into the shape of a product or the shape of a part aimed at. Preferably, the hot molten resin is subjected to a treatment of filtration for removal of extraneous substance at the step for forming the primary pellets.

Classifications:

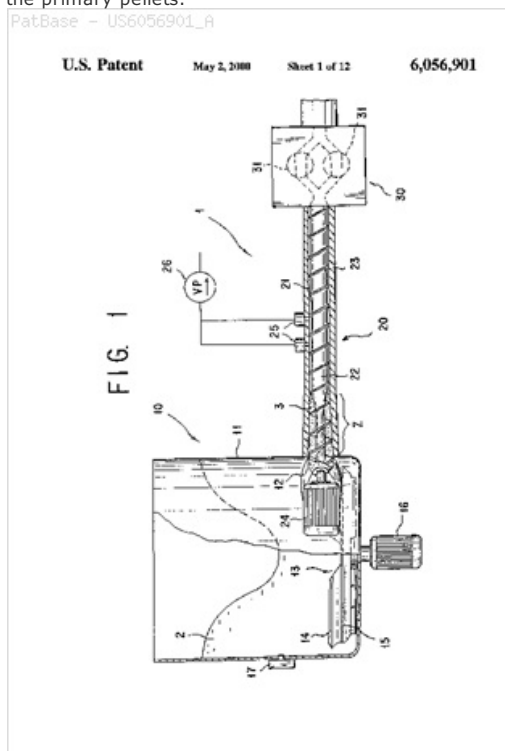
International (IPC 8-9): A44B19/00 B29B13/10 B29B17/00 B29B17/04 B29B9/06 B29B9/16 B29C45/00 B29C47/00 B29D5/00 (Advanced/Invention); B29K105/26 B29K67/00 B29L5/00 (Advanced/Non-invention); A44B19/00 B29B13/10 B29B17/00 B29B17/04 B29B9/00 B29B9/02 B29C45/00 B29C47/00 B29D5/00 (Core/Invention)

International (IPC 1-7): A44B19/00 A44B19/00 B29B13/02 B29B13/02 B29B13/06 B29B13/06 B29B13/10 B29B17/00 B29B17/00 B29B9/06 B29B9/06 B29B9/10 B29B9/12 B29C45/00 B29C47/00 B29D5/00 B29K105/26 B29K67/00 B29L5/00

CPC: Y02W30/62 Y02W30/625 B29B9/16 B29B9/06 B29B17/0026 B29B2017/048 B29C2791/001 B29C2791/006 B29K2067/00 B29K2105/26 B29C48/05 B29C48/15 B29B7/60

European: B29B17/00D B29B9/06 B29B9/16 L29B17/04Z12 L29C47/00J2 L29C47/02 L29C791/00B L29C791/00E4 L29K105/26 L29K67/00

US: 264/102 264/143 264/169 264/176.1 264/328.1 264/331.21 264/37.28 264/37.32 264/37.33 264/68 521/40 521/48 528/308.2 528/502.00A 528/502.00C 528/502A 528/502C



Family:

Publication number	Publication date	Application number	Application date
DE69818180 D1	20031023	DE19986018180	19980812
DE69818180 D1	20031023	DE19986018180T	19980812
DE69818180 T2	20040527	DE19986018180T	19980812
EP0899071 A1	19990303	EP19980115158	19980812
EP0899071 B1	20030917	EP19980115158	19980812
ES2205344 T3	20040501	ES19980115158T	19980812
JP11070588 A2	19990316	JP19970247615	19970829
US6056901 A	20000502	US19980143056	19980828

Priority:

JP19970247615 19970829

Probable Assignee: YKK CORP

Assignee(s): (std): YKK CORP

Assignee(s): YKK CORP TOKIO TOKYO

Inventor(s): (std): HAMAMORI KENSHI ; HAMAMORI TAKESHI ; HAMATANI TSUTOMU ; HAMAYA TSUTOMU

Designated states: DE ES FR GB IT

10) Family number: 8338197 (US5236603A)

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Title: METHOD FOR PLASTICS RECYCLING

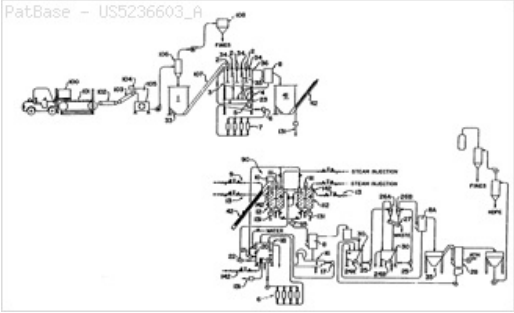
Abstract: The present invention provides improved systems for plastic recycling. In a first embodiment for recycling HDPE

milk jugs, a cold water wash step is used to remove bacteria-generated odor from milk jugs. In a second embodiment, a system for recovering PET and HDPE from soda bottles is disclosed. The separation stage utilizes a three-compartment sump to separate HDPE using water as the medium, and two further stages using heavier media for separation of PVC cap liners and aluminum from the PET.

Classifications:

International (IPC 8-9): B03B5/30 B03B5/34 B03B9/06 B29B17/02 (Advanced/Invention); B03B5/28 B03B9/00 B29B17/02 (Core/Invention)
International (IPC 1-7): B03B5/00 B03B5/32
CPC: Y10S264/918 B29B17/02 B03B5/30 B03B5/34 B03B9/061 B29B17/0412 B29B2017/0203 B29B2017/0217 B29B2017/0227 B29B2017/0241 B29B2017/0244 B29B2017/0272 B29B2017/0289 B29K2023/06 B29K2023/12 B29K2027/06 B29K2067/00 B29K2105/065 B29K2705/00 B29K2705/02 B29K2705/08 B29K2705/12 B29K2709/08 B29L2007/008 B29L2031/753 Y02W30/523 Y02W30/524 Y02W30/525 Y02W30/526 Y02W30/622 Y02W30/625

European: B03B5/30 B03B5/34 B03B9/06D B29B17/02 L29B17/02B L29B17/02Z1 L29B17/02Z1C L29B17/02Z1F1 L29B17/02Z1F2 L29B17/02Z4A L29B17/02Z8A L29B17/04D L29K105/06B L29K23/06 L29K23/12 L29K27/06 L29K67/00 L29K705/00 L29K705/02 L29K705/08 L29K705/12 L29K709/08 L29L31/753 L29L7/00G
US: 209/132 209/2 210/532.2 210/770 210/787 241/19 241/21 241/23 264/37 264/918



Family:

Publication number	Publication date	Application number	Application date
AU199185166 A1	19930112	AU19910085166	19910823
US5236603 A	19930817	US19910717258	19910618
WO9222380 A1	19921223	WO1991US06059	19910823

Priority:

US19910717258 19910618 WO1991US06059 19910823

Probable Assignee: SAMPSON DONALD L

Assignee(s): (std): SAMPSON DONALD L

Assignee(s): DONALD L SAMPSON

Inventor(s): (std): SAMPSON DONALD L

Inventor(s): DONALD L SAMPSON

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LK LU MC MG ML MN MR MW NL NO PL RO SD SE SN SU TD TG

11) Family number: 54600680 (EP2631051A1) © PatBase

Title: POST CONSUMER SCRAP FILM RECYCLING PROCESS PROCEDE DE RECYCLAGE DE DECHETS DE FILM POST

Abstract: A method for processing a supply of post consumer scrap linear low density or low density polyethylene film (12) into near-virgin quality blown film product. The method includes tearing the supply of film in a shredder (18), wherein the surface area of the film is exposed, including delaminating the film. The torn supply of film is washed in a water bath (24) including a surfactant. The film is agitated in the bath containing the surfactant wherein contaminants on the film are removed from the film. The washed film is ground into smaller pieces and additional washing of the ground film in a rotating friction washer (28) occurs wherein additional contaminants are removed from the film. The ground film is then dried and compacted without addition of water into granulated objects of near-virgin quality blown film product.

Classifications:

International (IPC 8-9): B29B17/00 B29B17/02 B29B17/04 B29K105/06 B29L7/00 (Advanced/Invention); B29K105/06 B29L7/00 (Advanced/Non-invention)
CPC: B29B17/0412 B29B17/0036 B29B17/02 B29B2017/0203 B29B2017/0272 B29B2017/0289 B29K2023/0625 B29K2023/0633 B29K2105/065 B29L2007/008 B29L2031/744 Y02W30/526 Y02W30/62 Y02W30/622 Y02W30/625

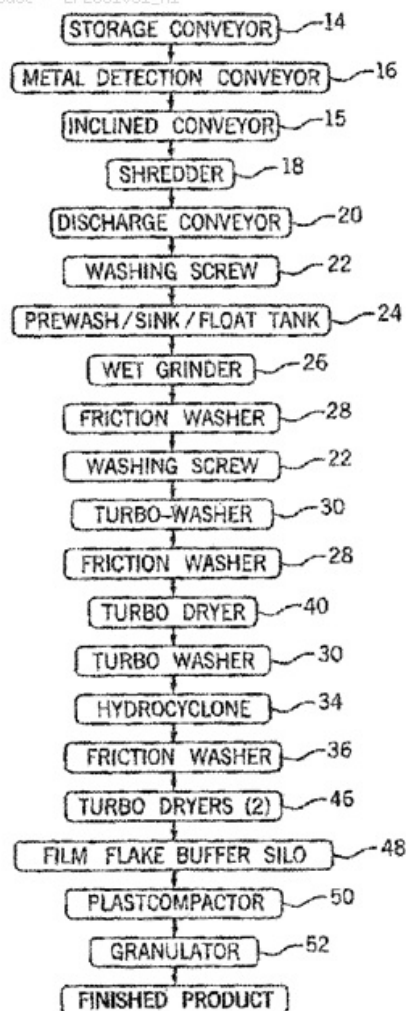


FIG. 1

Family:

Publication number	Publication date	Application number	Application date
DE602012037194 D1	20171026	DE201260037194T	20120223
EP2631051 A1	20130828	EP20120156681	20120223
EP2631051 B1	20170913	EP20120156681	20120223

Priority:

EP20120156681 20120223

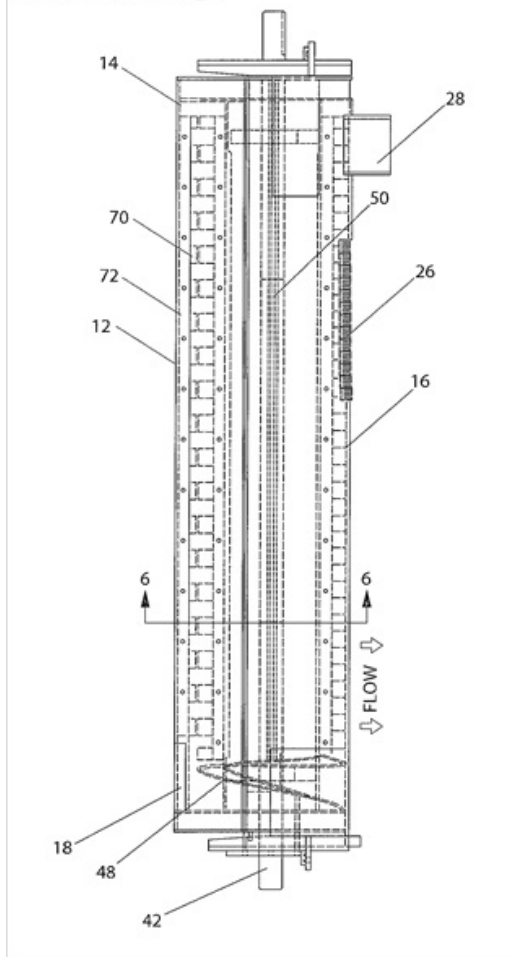
Probable Assignee: WISCONSIN FILM AND BAG INC**Assignee(s):** (std): WISCONSIN FILM AND BAG INC**Assignee(s):** WISCONSIN FILM AND BAG INC SHAWANO**Inventor(s):** (std): KULESA ROBERT FRANCIS ; FEENEY JAMES J ; BLAKE DANIEL WILLIAM ; CARLSTEDT RICHARD WAYNE ; HACKER BUCKELL GARY**Inventor(s):** KULESA ROBERT FRANCIS GREEN BAY ; FEENEY JAMES J APPLETON ; CARLSTEDT RICHARD WAYNE GREEN BAY ; BLAKE DANIEL WILLIAM MENASHA ; HACKER BUCKELL GARY SHAWANO**Agent(s):** COPSEY TIMOTHY GRAHAM**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**12) Family number: 69707764 (US9968971B)**

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Title: FRICTION WASHER THAT CLEANS PLASTIC FOR RECYCLING

Abstract: A method of cleaning plastic chips includes introducing a mixture of plastic chips and water to an in-feed of a housing. The mixture of plastic chips and water is impelled from the in-feed within the housing and agitated so that debris on the plastic chips is abraded by adjacent chips and agitators until substantially all debris has been removed from the plastic chips. Water and debris are discharged through a screen to a debris discharge. Cleaned plastic chips are discharged to a plastic chip discharge that is further from the in-feed than the debris discharge. Chip discharge takes place when the pressure of the plastic chips at the plastic chip discharge exceeds a threshold.

Classifications:**International (IPC 8-9):** B08B3/04 B08B3/14 (Advanced/Invention)**CPC:** B08B3/042 B29B17/02 B29B2017/0289

**Family:**

Publication number	Publication date	Application number	Application date
US9968971 BA	20180515	US20140329345	20140711

Priority:

US20140329345 20140711

Probable Assignee: PLASTIC REVOLUTIONS INC**Assignee(s):** (std): PLASTIC REVOLUTIONS INC**Inventor(s):** (std): COLLINS MIKE ; HANDY ED ; HAGAN JOHN**Agent(s):** MACCORD MASON PLLC**13) Family number: 15228684** (US6436322B)

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Title: METHOD FOR RECYCLING PET FLAKES

Abstract: The invention relates to a method for recycling polyethylene terephthalate (PET) flakes, characterized in that the flakes are extruded and granulated under vacuum, after which the granulate is aftercondensed in a solid phase under vacuum. Extrusion is preferably carried out in differentiated vent zones and aftercondensation of the solid phase is dependent on temperature, vacuum and time spent in a tumble dryer. Said dryer ensures the even and careful mixing and constant viscosity of the PET product. Said method is used in particular for making PET beverage bottles.

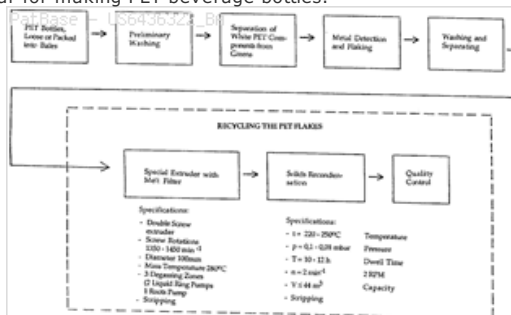
Classifications:**International (IPC 8-9):** B29B17/00 B29B9/16 B29C47/76

B29C48/76 (Advanced/Invention);

B29B17/00 B29B9/00 B29C47/76 (Core/Invention)

International (IPC 1-7): B29B17/00 B29B9/16 B29C47/00

B29C47/76 B29K67/00 B65D1/02 C08J11/04 C08J5/18 C08L67/02 D01F6/62

CPC: Y10S264/92 B29B9/16 B29K2067/00 Y02W30/62 Y02P20/582 B29C48/04 B29C48/762 B29B17/00**European:** B29B17/00 B29B9/16 B29C47/76O L29K67/00**US:** 264/101 264/141 264/571 264/85 264/920**Family:**

Publication number	Publication date	Application number	Application date
AT201351 E	20010615	AT19980912252T	19980217
AU199867183 A1	19980929	AU19980067183	19980217
BRPI9812419 A	20001003	BR1998PI12419	19980217
DE19710098 A1	19980917	DE19971010098	19970312

DE59800765 D1	20010628	DE19985000765	19980217
EP0966344 A1	19991229	EP19980912252	19980217
EP0966344 B1	20010523	EP19980912252	19980217
ES2159433 T3	20011001	ES19980912252T	19980217
US6436322 BA	20020820	US19990381145	19991227
WO9840194 A1	19980917	WO1998DE00459	19980217

Priority:

DE19971010098 19970312 DE19985000765 19980217 WO1998DE000459 19980217
WO1998DE00459 19980217

Probable Assignee: OHL PATENTVERWERTUNGS GMBH AND CO KG

Assignee(s): (std): OHL APPARATEBAU AND VERFAHRENSTECHNIK GMBH ; PAUL STEHNING GMBH ; OHL APPBAU AND VERFAHRENSTECHNIK ; FREDL RUEDIGER ; OHL APP BAU AND VERFAHRENSTECHNI ; OHL APPARATEBAU AND VERFAHRENSTE

Assignee(s): OHL TECHNOLOGIES GMBH ; PAUL STEHNING GMBH 65549 LIMBURG DE ; OHL PATENTVERWERTUNGS GMBH ; OHL PATENTVERWERTUNGS GMBH AND CO KG ; SCHOELLER BETEILIGUNGSVERWALTUNGSGESELLSCHAFT MBH ; SCHOELLER BETEILIGUNGSVERWALTUNGSGESELLSCHAFT MBH GEB

Inventor(s): (std): FREDL RUDIGER ; RUDIGER FREDL ; FREDL RUEDIGER DIPL ING ; FREDL RUEDIGER

Inventor(s): RUEDIGER FREDL ; FREDL RUEDIGER DIPL ING 65549 LIMBURG DE

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

14) Family number: 11705580 (US5951940A)

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Title: METHOD OF RECYCLING POST-CONSUMER PLASTIC WASTE

Abstract: A method of recycling mixed post-consumer plastics waste includes the steps of providing mixed post-consumer plastics waste including polyolefin and non-polyolefin components, and melt-compounding the waste so as to form a continuous phase including a blend of the polyolefin components with the non-polyolefin components microdispersed therein. Preferably, the waste also includes one or more intrinsic compatibilizers, and the method includes the intrinsic compatibilizers at least partially compatibilizing the microdispersed components in the continuous phase.

Classifications:

International (IPC 8-9): B29B17/00 C08J11/06 (Advanced/Invention);
B29C49/00 (Advanced/Non-invention);
B29B17/00 C08J11/00 (Core/Invention);
B29C49/00 (Core/Non-invention)

International (IPC 1-7): B29C49/00

CPC: Y10S264/917 B29B17/0026 B29C49/00 B29K2023/00 B29K2023/083 B29K2023/086 B29K2027/06 B29K2067/00 B29K2105/0005 B29K2105/26 B29L2031/7158 C08J11/06 Y02W30/62 Y02W30/701

European: B29B17/00D C08J11/06 L29C49/00 L29K105/00E L29K105/26 L29K23/00 L29K23/08B L29K23/08D L29K27/06 L29K67/00 L29L31/7158

US: 209/10 209/173 209/2 209/3 264/349 264/523 264/537 264/540 264/917

Family:

Publication number	Publication date	Application number	Application date
US5951940 A	19990914	US19960619102	19960320

Priority:

US19940236447 19940502 US19960619102 19960320

Probable Assignee: UNIV RUTGERS

Assignee(s): (std): UNIV RUTGERS

Assignee(s): RUTGERS STATE UNIV ; RUTGERS THE STATE UNIVERSITY

Inventor(s): (std): VAN NESS KENNETH E ; FERNANDES JOSE R ; SABA RAYMOND G ; RENFREE RICHARD W ; NOSKER THOMAS J

15) Family number: 11338042 (US5257740A)

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Title: APPARATUS AND PROCESS FOR RECYCLING SCRAP FILM

Abstract: An apparatus and process for recycling scrap film. The apparatus includes a washer-shredder upstream from a film cutter in order to remove impurities from the film. The scrap film is rinsed in a rinse loop which uses screen sieves for removing additional impurities, particularly paper fiber. The apparatus and method substantially reduce conventional problems with the film cutter caused by impurities which customarily are present in unwashed film. The invention is particularly useful for recycling very thin scrap film.

Classifications:

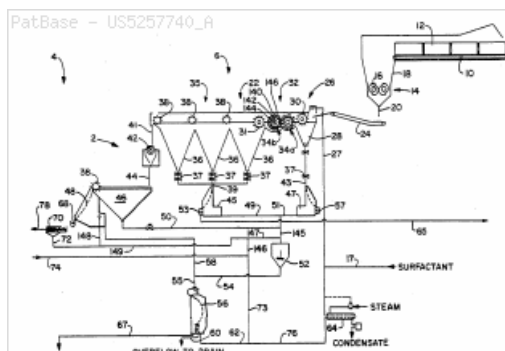
International (IPC 8-9): B08B9/08 B08B9/20 B29B17/02 B29D17/00 H04L12/56 H04W72/12 (Advanced/Invention);
H04W52/00 (Advanced/Non-invention);
B08B9/08 B29B17/02 H04L12/56 H04W72/00 (Core/Invention);
H04W52/00 (Core/Non-invention)

International (IPC 1-7): B02C19/12 B02C23/36 B08B9/20 B29B17/02 B29D17/00

CPC: Y10S241/38 B08B9/083 B29B17/02 B29B2017/0224 B29B2017/0231 B29B2017/0244 B29B2017/0289 B29K2027/00 B29K2027/06 B29K2105/065 B29K2705/00 B29K2711/12 B29K2711/14 B29L2007/008 Y02W30/523 Y02W30/524 Y02W30/622

European: B08B9/08L B29B17/02 L29B17/02Z1B L29B17/02Z1D L29B17/02Z1F2 L29B17/02Z8A L29K105/06B L29K27/00 L29K27/06 L29K705/00 L29K711/12 L29K711/14 L29L7/00G

US: 241/20 241/21 241/24 241/29 241/79.1 241/DIG.38



Family:

Publication number	Publication date	Application number	Application date
TW221391 B	19940301	TW19930101505	19930302
US5257740 A	19931102	US19920953660	19920929
WO9407672 A1	19940414	WO1993US02989	19930330

Priority:

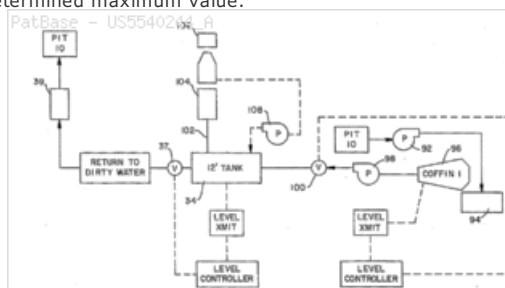
US19920953660 19920929

Probable Assignee: SPROUT BAUER INC ANDRITZ**Assignee(s):** (std): SPROUT BAUER INC ANDRITZ**Assignee(s):** ANDRITZ SPROUT BAUER ; ANDRITZ SPROUT BAUER INC ; ANDRITZ SPROUT BAUER SHERMAN STREETMUNCY PENNSYLVIA**Inventor(s):** (std): PREW STANLEY R ; SEKSINSKY MARK J**Designated states:** AT BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE**16) Family number: 12680619 (US5540244A)**

© PatBase

Title: METHOD AND APPARATUS FOR CLEANING AND RECYCLING POST-CONSUMER PLASTIC FILMS

Abstract: A system and method for removing fine cellulosic contaminants from plastic film utilizing a plurality of tanks, means for moving the plastic film sequentially through the tanks, means for recirculating an aqueous solution through each of the tanks, means for filtering the recirculating aqueous solution, and means for injecting flocculant into the recirculating solution. The subject system preferably includes at least two independent circulation modules, each having means for recirculating and filtering an aqueous solution and for minimizing liquid carry-over from one module to another. The system also preferably includes means for monitoring the turbidity of the recirculating aqueous solution and for injecting flocculant into the recirculating solution whenever the turbidity exceeds a predetermined maximum value.

Classifications:**International (IPC 8-9):** B03B9/06 (Advanced/Invention); B03B9/00 (Core/Invention)**International (IPC 1-7):** B08B13/00**CPC:** Y02W30/523 Y02W30/526 Y02W30/622 B29B17/02 B03B9/061 B29B2017/0227 B29B2017/0272 B29B2017/0289 B29K2023/06 B29K2105/065 B29K2711/12 B29L2007/008 B29B2017/0244 Y02W30/524**European:** B03B9/06D B29B17/02 L29B17/02Z1C L29B17/02Z4A L29B17/02Z8A L29K105/06B L29K23/06 L29K711/12 L29L7/00G**US:** 134/111 134/131 134/56.00R 134/56R 134/68**Family:**

Publication number	Publication date	Application number	Application date
US5540244 A	19960730	US19930171509	19931222

Priority:

US19930163183 19931207

US19930171509 19931222

Probable Assignee: ADVANCED ENVIRONMENTAL RECYCLING TECHNOLOGIES INC**Assignee(s):** (std): ADVANCED ENVIRONMENTAL RECYCLI**Assignee(s):** ADVANCED ENVIRONMENTAL RECYCLING TECHNOLOGIES INC ; ALLSTATE INSURANCE CO ; ALOSTAR BANK OF COMMERCE ; BANK OF OKLAHOMA NA ; HIG AERT LLC ; REGIONS BANK ; HIG AERT LLC ADMINISTRATIVE AGENT AS ; WEBSTER BUSINESS CREDIT CORP**Inventor(s):** (std): ROSE JOYCE H ; PIERCE STEVE W ; BROOKS JOE G ; BROOKS J DOUGLAS**17) Family number: 14883382 (EP0893220A2)**

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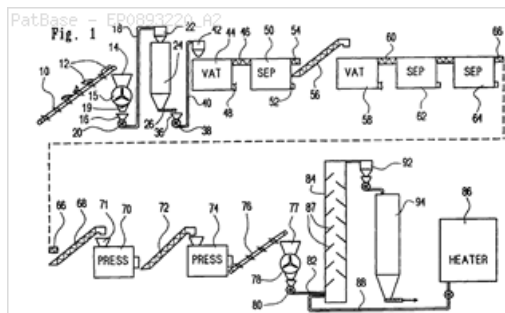
Title: APPARATUS FOR RECYCLING POLYETHYLENE, PARTICULARLY POLYETHYLENE FOIL

Abstract: A coarse chopper (15) minces discarded material consisting mainly of polyethylene foil. The chopped material is collected in a silo (24), and from there is fed at a substantially constant flow to a first washing vat (44), where the material is mixed with water and is stirred to precipitate heavy sludge and to deliver a mix of water with lightweight material comprising mainly polyethylene. A first centrifugal separator (50) subjects the mix of water and lightweight material to a strong, swirling motion within a perforated cage having holes of a diameter smaller than the average size of the lightweight material, in order to expel the water and the flaking material out of the cage. After further washing and drying steps (58, 62, 64), the purified material is squeezed in one or more presses (70, 74), is re-chopped to a fine size in a fine chopper (78) and is blown through a hot-air drying tower (84).

Classifications:**International (IPC 8-9):** B03B9/06 B29B17/00

B29B17/02 (Advanced/Invention);

B03B9/00 B29B17/00 B29B17/02 (Core/Invention)

International (IPC 1-7): B03B9/06 B03B9/06 B29B17/00 B29B17/00 B29B17/02 B29C**CPC:** Y02W30/524 Y02W30/622 Y02W30/625 B03B9/061 B29B17/02 B29B17/0412 B29B2017/0231 B29B2017/0244 B29K2023/06 B29K2027/06 B29K2105/065 B29K2705/00 B29K2711/12 B29L2007/00 B29L2007/008 B29B2017/0289 Y02W30/62**European:** B03B9/06D B29B17/02 L29B17/02Z1D L29B17/02Z1F2 L29B17/04D L29K105/06B L29K23/06 L29K27/06 L29K705/00 L29K711/12 L29L7/00 L29L7/00G**Family:**

Publication number	Publication date	Application number	Application date
AT231780 E	20030215	AT19980112813T	19980710
DE69811007 D1	20030306	DE19986011007	19980710
DE69811007 D1	20030306	DE19986011007T	19980710
DE69811007 T2	20031127	DE19986011007T	19980710
EP0893220 A2	19990127	EP19980112813	19980710
EP0893220 A3	20001004	EP19980112813	19980710
EP0893220 B1	20030129	EP19980112813	19980710
ES2191228 T3	20030901	ES19980112813T	19980710
IT1293445 B1	19990301	IT1997TO00630	19970714
ITTO970630 A1	19990114	IT1997TO00630	19970714
SI0893220 T1	20030430	SI19980030321T	19980710

Priority:

IT1997TO00630 19970714 EP19980112813 19980710

Probable Assignee: PLASTIPOL S R L

Assignee(s): (std): PLASTIPOL S R L

Assignee(s): PLASTIPOL S R L SILVANO D ORBA ; PLASTIPOL SRL

Inventor(s): (std): MALASPINA GIORGIO

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

18) Family number: 12756964 (US5225130A)

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Title: PROCESS FOR RECLAIMING THERMALLY STRAINED POLYESTER SCRAP MATERIAL

Abstract: Reclaiming of polyester waste material for re-use in the production of high-quality PET plastic material comprises shredding, cleaning, sorting and postcondensing said waste materials. The shredded scrap material comprises polyester waste materials of various molecular weights and degrees of purifying. The shredded material is molten and filtered. The filtered melt is either post-condensed in the molten state and then granulated or is first granulated and then subjected to a solid phase post-condensation. The granules obtained in each case are preferably fed into an extruder and extruded together with virgin raw material so as to produce a useful film or article.

Classifications:

International (IPC 8-9): B29B17/00 B29C47/00 C08J11/04

C08J11/06 C08L67/00 C08L67/02 (Advanced/Invention);

B29B17/00 B29C47/00 C08J11/00 C08L67/00 (Core/Invention)

International (IPC 1-7): B29B17/00 B29C47/00 B29C47/76

B29K67/00 C08G63/89 C08J11/04 C08J3/12 C08L67/00 C08L67/02

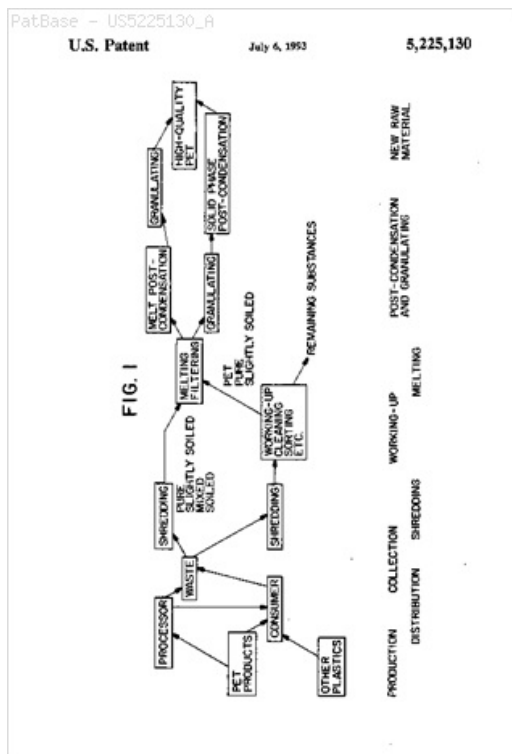
CPC: Y10S264/913 Y10S264/916 Y10S264/918 Y10S264/92

C08J11/06 C08J2367/02 Y02W30/701

European: C08J11/06 M08J367/02

US: 264/102 264/140 264/169 264/211.24 264/37 264/85 264/913

264/916 264/918 264/920 264/DIG.69 425/185



Family:

Publication number	Publication date	Application number	Application date
AT151796 E	19970515	AT19910118112T	19911024
DE4034459 A1	19920507	DE19904034459	19901030
DE59108661 D1	19970522	DE19915008661	19911024
EP0483665 A2	19920506	EP19910118112	19911024
EP0483665 A3	19930127	EP19910118112	19911024
EP0483665 B1	19970416	EP19910118112	19911024
JP5154843 A2	19930622	JP19910311938	19911030
US5225130 A	19930706	US19910783699	19911030

Priority:

DE19904034459 19901030 DE19915008661 19911024

Probable Assignee: HOECHST AG

Assignee(s): (std): HOECHST AG

Assignee(s): HOECHST AG 65929 FRANKFURT DE ; HOECHST AKTIENGESellschaft ; HOECHST 6230 FRANKFURT DE AG

Inventor(s): (std): DEIRINGER GUENTHER DR ; DEIRINGER GUENTHER ; DEIRINGER GUENTHER DIPL CHEM D ; GIYUNTA
DEIRINGERU
Inventor(s): DEIRINGER GUENTHER DIPL CHEM DR ; DEIRINGER GUENTHER DR W 8261 KASTL DE
Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

19) Family number: 2985865 (US4830188A)

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Title: PLASTICS SEPARATION AND RECYCLING METHODS

Abstract: Plastics fragments including polyethylene terephthalate and polyolefins derived from comminution of containers such as beverage bottles are segregated according to specific gravity by flotation. The flotation liquid includes a surfactant to facilitate complete separation of the light and heavy plastic fractions from one another. The surfactant may be a residue of a detergent used to wash the flakes and remove contaminants therefrom. Rinsing prior to flotation separation is controlled so as to leave the desired detergent residue leading to a marked reduction in rinse water requirements.

Classifications:

International (IPC 8-9): B03B5/40 B03B5/44 B03B9/06

B29B17/02 (Advanced/Invention);

B03B5/28 B03B9/00 B29B17/02 (Core/Invention)

International (IPC 1-7): B03B5/28 B03B5/44

CPC: Y10S241/38 B03B9/061 B03B5/40 B03B5/44 B29B17/02

B29B2017/0203 B29B2017/0231 B29B2017/0244 B29B2017/0265

B29B2017/0289 B29K2023/12 B29K2067/003 B29K2105/065

B29K2705/00 B29K2705/02 B29K2711/12 B29L2031/7158

B29L2031/744 Y02W30/521 Y02W30/524 Y02W30/527 Y02W30/622

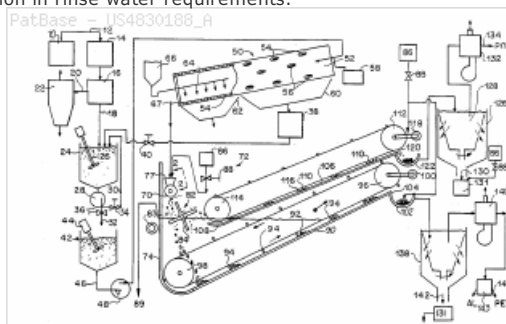
European: B03B5/40 B03B5/44 B03B9/06D B29B17/02 L29B17/02B

L29B17/02Z1D L29B17/02Z1F2 L29B17/02Z3A L29B17/02Z8A

L29B223/00 L29B267/00 L29K105/06B L29K23/12 L29K67/00B

L29K705/00 L29K705/02 L29K711/12 L29L31/7158 L29L31/744

US: 209/17 209/172.5 209/173 209/3 241/16 241/24 241/DIG.38



Family:

Publication number	Publication date	Application number	Application date
US4830188 A	19890516	US19870102122	19870930

Priority:

US19870102122 19870930

Probable Assignee: RUTGERS STATE UNIV A EDUCATIONAL INSTITUTION OF NEW JERSEY

Assignee(s): (std): RUTGERS STATE UNIV ; UNIV RUTGERS

Assignee(s): RUTGERS STATE UNIV A EDUCATIONAL INST ; RUTGERS STATE UNIV A EDUCATIONAL INSTITUTION OF NE ; RUTGERS STATE UNIV A EDUCATIONAL INSTITUTION OF NEW JERSEY ; RUTGERS THE STATE UNIVERSITY

Inventor(s): (std): HANNIGAN BENJAMIN R ; FERNANDES JOSE R

20) Family number: 8356025 (US5419634A)

© PatBase

Title: APPARATUS FOR FILTERING AND EXTRUDING SYNTHETIC PLASTIC SCRAP MATERIAL

Abstract: PCT No. PCT/AT92/00110 Sec. 371 Date Feb. 25, 1994 Sec. 102(e) Date Feb. 25, 1994 PCT Filed Aug. 6, 1992 PCT Pub. No. WO93/04841 PCT Pub. Date Mar. 18, 1993. An apparatus for filtering and extruding plastic scrap consists of an extruder housing having an interior chamber and an extruder worm received and supported for axial rotation in the chamber. The extruder worm includes a centrally located set of return threads which divide the chamber into first and second chamber portions. The housing further includes an intake opening in the first chamber portion for receiving raw material, an exit opening in the second chamber portion for discharging filtered material, and a degassing opening in the second chamber portion for discharging gasses from the chamber. A drive mechanism is provided for rotating the extruder worm. A filter channel connects the first and second chamber portions wherein the plastic material passes from the first chamber portion to the second chamber portion through the channel. The channel has an inlet opening in the first chamber portion and an outlet opening in the second chamber portion. The degassing opening is preferably located between the outlet opening of the channel and the exit opening of the chamber. A filter is disposed in the channel for filtering the plastic material as it passes therethrough. The extruder worm has a thread geometry in the second chamber portion which creates a no pressure zone therein. The no pressure zone is preferably located between first and second ends of said second chamber portion.

Classifications:

International (IPC 8-9): B29C47/34 B29C47/64 B29C47/68

B29C47/74 B29C47/76 (Advanced/Invention);

B29C47/76 (Advanced/Non-invention);

B29C47/58 B29C47/60 B29C47/76 (Core/Invention)

International (IPC 1-7): B29C47/26 B29C47/34 B29C47/68

B29C47/74 B29C47/76

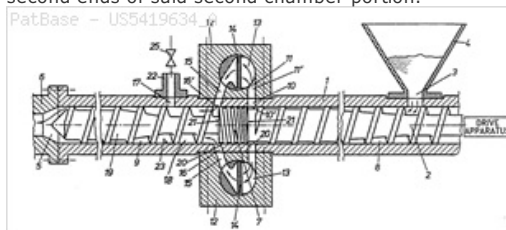
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B29C48/69 B29C48/693 B29C48/6945 B29C48/745 B29K2105/26

European: B29C47/08V B29C47/60L B29C47/68 B29C47/68D2

B29C47/74B B29C47/76 L29C47/08X8B L29C47/68C L29K105/26

US: 366/75 366/87 366/88 366/89 425/203



Family:

Publication number	Publication date	Application number	Application date
AT134563 E	19960315	AT19920916113T	19920806
AU199223845 A1	19930405	AU19920023845	19920806
AU664564 B2	19951123	AU19920023845	19920806
BRP19206425 A	19951107	BR1992PI06425	19920806
CA2116659 A	19940228	CA19922116659	19920806
CA2116659 C	19951114	CA19922116659	19920806
DE59205518 D1	19960404	DE19925005518	19920806
DK0600924 T3	19960722	DK19920916113T	19920806
EP0600924 A1	19940615	EP19920916113	19920806

EP0600924 B1	19960228	EP19920916113	19920806
ES2086760 T3	19960701	ES19920916113T	19920806
JP2583823 B2	19970219	JP19930504740T	19920806
JP6506413 T2	19940721	JP19930504740T	19920806
KR0131010 B1	19980413	KR19940070657	19940228
KR19940702123 A	19940728	KR19940700657	19940228
KR19947002123 A	19940728	KR19947000657	19920806
MX9204979 A1	19930430	MX19920004979	19920828
TW210975 B	19930811	TW19920107115	19920909
US5419634 A	19950530	US19940199136	19940225
WO9304841 A1	19930318	WO1992AT00110	19920806
ZA9206169 A	19930303	ZA19920006169	19920817

Priority:

AT19910001709 19910829 WO1992AT00110 19920806

Probable Assignee: SCHULZ HELMUTH

Assignee(s): (std): EREMA ; EREMA ENGINEERING RECYCLING MA ; EREMA ENGINEERING RECYCLIN G MASCH U ANLAGEN GESELLSCH ; SCHULZ HELMUTH ; SCHULZ HELMUT ; WENDELIN GEORG ; BACHER HELMUT

Assignee(s): BATSUKERU HERUMUTO ; EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GESELLSCHAFT ; EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GESELLSCHAFT M B H ; EREMA ENGINEERING RECYCLING MASCHINEN ANLAGEN GES M B H ANSFELDEN AT ; EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GMBH ; SHURUTSU HERUMUTO ; EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN ; EREMA ENGINEERING RECYCLING MASCHINEN ; EREMA ENGINEERING RECYCLING MASCH U ANLAGEN GMBH ; EREMA ENGINEERING RECYCLING MASCH ANLAGEN GESMBH ; EREMA ENGINEERING RECYCLING MASCH U ANLAGEN GES ; EREMA ENGINEERING RECYCLING MASCH ; EREMA ENGINEERING RECYCLING MASCH U ANLAGEN GES MBH ; EREMA ENGINEERING RECYCLING MASCH U ANLAGEN

Inventor(s): (std): BACHER HELMUT ; WENDELIN GEORG ; SCHULZ HELMUT ; SCHULZ HELMUTH ; EREMA ENGINEERING RECYCLING MA

Inventor(s): EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GESELLSCHAFT M B H ; EREMA ENGINEERING RECYCLING MASCHINEN ANLAGEN GES M B H ; SHURUTSU HERUMUTO ; UENDERIN JEORUGU ; EREMA ENGINEERING RECYCLING MASCH U ANLAGEN GES MBH ; EREMA ENGINEERING RECYCLING MASCH ANLAGEN GESMBH ; BATSUKERU HERUMUTO ; EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN ; GEORG WENDELIN ; HELMUT BACHER ; HELMUTH SCHULZ

Agent(s): LORD AND CO; MARKS AND CLERK

Designated states: AT AU BE BR CA CH DE DK ES FR GB GR IE IT JP KR LI LU MC NL SE US

21) Family number: 34859035 (US2008039540A)

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Title: PROCESS FOR RECYCLING POLYESTERS

Abstract: The present invention is directed towards a process for the recycling of polyesters comprising the steps of blending a starting polymer that is to be recycled with an alkylene diol to form a blend, melting the blend and holding the melt blend under conditions of a first residence time, first temperature and shear to produce a cracked polymer. The cracked polymer blend can then be filtered, cooled and held under conditions such that solid phase polymerization takes place until a desired molecular weight is achieved.

Classifications:

International (IPC 8-9): B01J31/04 C08G63/16 C08G63/80 C08J11/04 C08J11/24 C08L67/02 (Advanced/Invention);

C08L67/02 (Advanced/Non-invention);

B01J31/04 C08G63/00 C08J11/00 C08L67/00 (Core/Invention);

C08L67/00 (Core/Non-invention)

CPC: Y02W30/706 C08J2367/02 C08J11/24

European: C08J11/24 M08J367/02

US: 521/48.5 521/48.500P

Family:

Publication number	Publication date	Application number	Application date
CN101346421 A	20090114	CN200680049254	20061213
CN101346421 B	20111214	CN200680049254	20061213
EP1969043 A2	20080917	EP20060845355	20061213
JP2010513571 T2	20100430	JP20080548560T	20061213
KR20080090469 A	20081008	KR20087018363	20061213
US2008039540 AA	20080214	US20060637210	20061211
WO07078780 A2	20070712	WO2006US47570	20061213
WO07078780 A3	20071129	WO2006US47570	20061213

Priority:

US20050754339P 20051228 US20060637210 20061211 WO2006US47570 20061213

Probable Assignee: E I DU PONT DE NEMOURS AND CO

Assignee(s): (std): DU PONT ; EIDU PONT DE NEMOURS AND CO ; REITZ ROBERT R

Assignee(s): E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; EI DU PONT DE NEMOURS AND CO

Inventor(s): (std): REITZ ROBERT R

Inventor(s): REITZ ROBERT

Agent(s): MORF JAN STEFAN; ABE KAZUO; TANI YOSHIKAZU; E I DU PONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER; E I DU PONT DE NEMOURS AND CO LEGAL PATENT RECORDS CENTER

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 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 MG MK ML MN MR 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

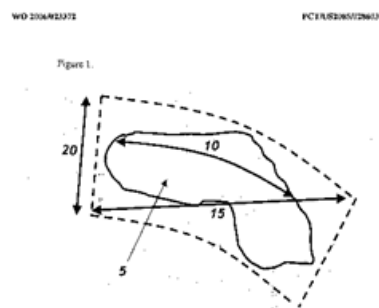
Title: METHODS OF PURIFYING POLYMERIC MATERIAL

Abstract: A method is disclosed to purify a polymeric material by filtering a melt comprising poly(arylene ether) and poly(alkenyl aromatic) through a melt filtration system. The method provides a polymeric material having reduced levels of particulate impurities. The polymeric material prepared is suitable for use in data storage media applications.

Classifications:

International (ipc 8-9): B29B13/10 B29B9/12 B29C45/00 B29C47/38 B29C47/60 B29C47/68 B29D17/00 B29K71/00 B32B3/02 B32B5/16 C08F6/00 C08G64/00 C08G65/46 C08J3/12 C08J3/20 C08J3/22 C08L25/00 C08L25/04 C08L25/06 C08L29/10 C08L53/00 C08L71/00 C08L71/02 C08L71/10 C08L71/12 C11D17/00 D01D1/10 G11B7/24 G11B7/253 (Advanced/Invention); B29K25/00 B29K71/00 C08G63/02 C08L25/02 C08L29/10 C08L71/00 C08L71/02 (Advanced/Non-invention)
International (ipc 1-7): B29C47/38 B29C47/60 B29C47/68 B29D17/00 B29K71/00 B32B3/02 C08L25/06 C08L71/00 C11D17/00 D01D1/10
CPC: Y10T428/2982 C08L25/02 C08L25/06 C08L71/10 C08G65/46 C08L25/04 C08L71/12 G11B7/2536 C08L25/00
European: C08G65/46 C08L25/04 C08L25/06 C08L71/10 C08L71/12 G11B7/2536 M08L25/00 M08L25/02 M08L71/12
US: 264/14 264/140 264/140S 264/141 264/141P 264/169 264/169S 264/176.1 264/211.21 264/211.210S 264/211.23 264/211.230S 264/219 264/85 264/85S 369/275.4 428/402 428/402P 428/64.2 428/64.200P 428/65.1 524/447 524/474 525/55 525/55S 528/480 528/480P 528/481

PatBase - W006023372_R1

**Family:**

Publication number	Publication date	Application number	Application date
■ CN101068882 A	20071107	CN200580035868	20050811
■ CN101068882 B	20110323	CN200580035868	20050811
■ CN101693783 A	20100414	CN200910209716	20040823
■ CN1871301 A	20061129	CN200480031453	20040823
■ CN1871301 B	20101229	CN200480031453	20040823
■ DE602005039823 D1	20130725	DE200560039823T	20050811
■ EP1660580 A1	20060531	EP20040781842	20040823
■ EP1789494 A1	20070530	EP20050798244	20050811
■ EP1789494 B1	20130529	EP20050798244	20050811
■ IN00886DN2006 A	20070810	IN2006DN00886	20060220
■ IN01563DN2007 A	20070803	IN2007DN01563	20070227
■ JP2007517918 T2	20070705	JP20060524762T	20040823
■ JP2008510060 T2	20080403	JP20070527882T	20050811
■ JP2012224865 A2	20121115	JP20120177343	20120809
■ JP5173420 B2	20130403	JP20070527882T	20050811
■ KR100810356 B1	20080304	KR20067003907	20040823
■ KR20060083970 A	20060721	KR20067003907	20040823
■ KR20070042209 A	20070420	KR20077006128	20070316
■ US2005046070 AA	20050303	US20030648604	20030826
■ US2005064129 AA	20050324	US20040922194	20040819
■ US2005250932 AA	20051110	US20050183714	20050718
■ US2008187753 AA	20080807	US20080098548	20080407
■ US7244813 BB	20070717	US20030648604	20030826
■ US7314907 BB	20080101	US20040922194	20040819
■ US7354990 BB	20080408	US20050183714	20050718
■ US7585935 BB	20090908	US20080098548	20080407
■ WO05021648 A1	20050310	WO2004US27237	20040823
■ WO06023372 A1	20060302	WO2005US28603	20050811

Priority:

US20030648604	20030826	US20040922194	20040819	JP20060524762	20040823
JP20060524762T	20040823	WO2004US27237	20040823	US20050183714	20050718
EP20050798244	20050811	WO2005US28603	20050811	WO2004US27237	20060224
US20080098548	20080407				

Probable Assignee: SABIC GLOBAL TECHNOLOGIES BV

Assignee(s): (std): GUO HUA ; HOSSAN ROBERT JOHN ; LIETZAU CHRISTIAN ; MHETAR VIJAY R ; HOSSAN ROBERT J ; NIEMEYER MATTHEW F ; PARTHASARATHY MUKUND ; NIEMEYER MATTHEW FRANK ; DONG JIAWEN ; GEN ELECTRIC ; SABIC INNOVATIVE PLASTICS IP ; SABIC INNOVATIVE PLASTICS IP BV

Assignee(s): MHETAR VIJAY ; SABIC GLOBAL TECHNOLOGIES BV ; CITIBANK NA ; CITIBANK NA COLLATERAL AGENT AS ; GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY ; SABIC INNOVATIVE PLASTICS IP B V

Inventor(s): (std): DONG JIAWEN ; GUO HUA ; HOSSAN ROBERT JOHN ; LIETZAU CHRISTIAN ; MHETAR VIJAY R ; MHETAR VIJAY ; HOSSAN ROBERT J ; NIEMEYER MATTHEW F ; PARTHASARATHY MUKUND ; NIEMEYER MATTHEW FRANK ; FRANK NIEMEYER MATTHEW ; MUKUND PARTHASARATHY ; MUKUND HOSSAN ROBERT JOHN

LIET ; JIAWEN DONG ; JOHN HOSSAN ROBERT ; HUA GUO ; CHRISTIAN LIETZAU ; DONG JIAWEN GUO
HUA HOSSAN ROB

Inventor(s): DONG JIAWEN GUO HUA HOSSAN ROBERT JOHN LIETZAU ; HOSSAN ROBERT JOHN LIETZAU
CHRISTIAN NIEMEYER ; HOSSAN ROBERT ; DONG JIAWEN GUO HUA HOSSAN ROBERT JOHN LIETZAU
CHRISTIAN MHETAR VIJAY R ; NIEMEYER MATTHEW ; PARTHASARATHY MUKUND DELMAR ; NIEMEYER
MATTHEW FRANK NORTH CHATHAM ; LIETZAU CHRISTIAN DELMAR ; HOSSAN ROBERT JOHN DELMAR ;
DONG JIAWEN GUO HUA HOSSAN ROBERT JOHN LIETZAU CHR

Agent(s): SCHIEBER FARAGO ; BUBLAK WOLFGANG ; CHIBA AKIO ; ONO SHINJIRO ; NOYA HIROAKI ; TOMITA
HIROYUKI ; SOMA TAKAYOSHI ; OKIMOTO KAZUAKI ; SHAMOTO ICHIO ; KOBAYASHI YASUSHI ;
HOSHINO OSAMU ; CANTOR COLBURN 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

23) Family number: 4388516 (US4453905A)

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Title: PLASTICS RECYCLING APPARATUS

Abstract: Plastics recycling apparatus in which an elongated tubular body has a core member therein and in which the core member has leading and trailing conical heads for directing the flow of molten material through the elongated tubular body. Inner and outer annular chambers are provided for the flow of material through a wall between the chambers while the material is being heated by energized coils about one of the chambers. The material flows to the discharge under pressure and passes through discharge orifices to form plastic ribbons which are cooled and then cut into pellets for reuse.

Classifications:

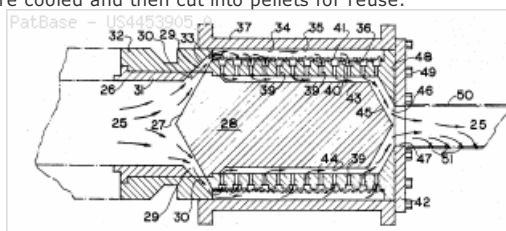
International (IPC 8-9): B29B17/00 B29C47/68 (Advanced/Invention);
B29B17/00 B29C47/58 (Core/Invention)

International (IPC 1-7): B29F3/04

CPC: B29B17/0036 Y02W30/62 B29C48/04 B29C48/08 B29C48/694

European: B29B17/00D2 B29C47/68D

US: 210/236 210/773 366/79 425/192R 425/197



Family:

Publication number	Publication date	Application number	Application date
US4453905 A	19840612	US19830499835	19830601

Priority:

US19830499835 19830601

Probable Assignee: BENNETT BOBBY B

Assignee(s): (std): BENNETT BOBBY B

Inventor(s): (std): BENNETT BOBBY B

24) Family number: 69757749 (CN108044833A)

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Title: WASTE PLASTIC RECYCLING SYSTEM

Abstract: The invention discloses a waste plastic recycling system, and relates to the technical field of plastic recycling. The waste plastic recycling system comprises a crushing unit, a cleaning unit, a volume reduction unit, a drying unit and a waste water treatment unit; the crushing unit comprises a feeding mechanism, a crushing machine and a fragment pool which are connected in sequence; the cleaning unit comprises a first rinsing machine, a friction cleaning machine, an ultrasonic cleaning machine and a second rinsing machine which are connected in sequence; the drying unit comprises a drying machine, a conveyor and a packing machine which are connected in sequence, and the drying machine is connected with a collecting stock bin; and the waste water treatment unit comprises a plurality of water pumping pipes, a sedimentation tank, a foam separator, an ultraviolet disinfection tank and a plurality of water delivery pipes. According to the system, the processing amount of waste plastic and the quality of produced plastic particles can be improved, and the functions of waste water circular processing and utilizing are added, so that the system has economic benefits and environmental protection benefits.

Classifications:

International (IPC 8-9): B29B17/00 B29B17/04 (Advanced/Invention)

CPC: B29B17/00 B29B17/0412 B29B2017/0015 Y02W30/521 Y02W30/62 Y02W30/625

Family:

Publication number	Publication date	Application number	Application date
CN108044833 A	20180518	CN201710971289	20171018

Priority:

CN201710971289 20171018

Probable Assignee: ANHUI HUANJIA TIANYI RENEWABLE RESOURCES CO LTD

Assignee(s): (std): ANHUI HUANJIA TIANYI RENEWABLE RESOURCES CO LTD

Assignee(s): ANHUI LOOP RECYCLING CO LTD ; RING KA ANHUI TIANYI RENEWABLE RESOURCES LTD ; ANHUI
HUANJIA TIANYI RENEWABLE RESOURCES CO

Inventor(s): (std): CHEN SEN ; LI ZHONGWEI ; PENG CHUNYU ; TAN SHOUBIAO ; XU CHAO ; YANG CHUANRONG

25) Family number: 65583190 (CN206374068U)

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Title: ENVIRONMENT -FRIENDLY ABANDONMENT PLASTIC BOTTLE IS RETRIEVED AND IS RECYCLED PROCESSING SYSTEM

Abstract: The utility model relates to an environment -friendly abandonment plastic bottle is retrieved and is recycled processing system, including bottom plate, washing feeder, conveyor, extrusion device, breaker and storage device, the bottom plate be L type structure, rinse the preceding side that feeder lies in the bottom plate, conveyor lies in and rinses the feeder dead astern, and conveyor with rinse feeder and lie in same straight line, extrusion unit bit in the exit of conveyor rear side, breaker and conveyor arrange for perpendicular, and breaker fixes with the bottom plate mutually, storage device installs on the left of breaker. The utility model discloses can wash the abandonment plastic bottle, the propelling movement feed, carry transmission, extrusion, broken and store, realized retrieving the whole processing of recycling to the abandonment plastic bottle, and processing procedure level of mechanization be high, has saved a large amount of labours, has improved the treatment efficiency, and also avoid discarded plastic bottle to the pollution of environment simultaneously, protect environment ecology.

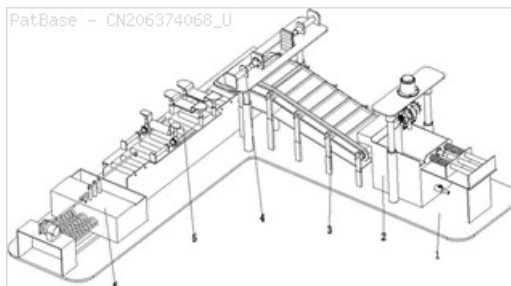
Classifications:

International (IPC 8-9): B29B17/00 B29B17/04 (Advanced/Invention)

CPC: Y02W30/62 Y02W30/625 B29B17/00 B29B17/0052

B29B17/0412 B29B2017/0015 B29B2017/0057 B29B2017/044

Y02W30/521



Family:

Publication number	Publication date	Application number	Application date
■ CN106608004 A	20170503	CN201611254478	20161230
■ CN106608004 B	20180914	CN201611254478	20161230
■ CN206374068 U	20170804	CN201621476390U	20161230

Priority:

CN201611254478 20161230 CN201621476390U 20161230

Probable Assignee: JIANGSU BAONENG ENVIRONMENTAL PROTECTION TECH CO LTD

Assignee(s): (std): JIANGSU BAONENG ENVIRONMENTAL PROTECTION TECH CO LTD ; JIANGSU BAONENG ZHONGXIANG ENVIRONMENTAL PROTECTION TECH CO LTD ; LIU CHANGMIAO

Assignee(s): JIANGSU BAONENG ZHONGXIANG ENVIRONMENTAL PROTECTION TECHNOLOGY CO ; JIANGSU BAONENG ENVIRONMENTAL PROTECTION TECHNOLOGY CO

Inventor(s): (std): LIU CHANGMIAO ; FANG ZHUOJUN

26) Family number: 61351585 (CN105216137A)

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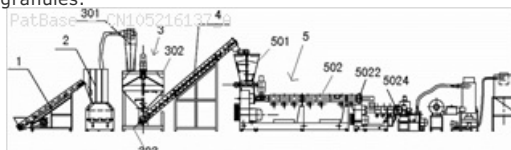
Title: PLASTIC FILM RECYCLING AND GRANULATING MACHINE

Abstract: The invention discloses a plastic film recycling and granulating machine which comprises a feeding machine, a breaking machine, a separating machine, a conveying machine and an extruding machine. The breaking machine is arranged at the downstream of the feeding machine and used for breaking plastic films, the separating machine is arranged at the downstream of the breaking machine and used for separating the broken plastic films, the conveying machine is arranged at the downstream of the separating machine and used for conveying the broken plastic films, and the extruding machine is arranged at the downstream of the conveying machine and used for melting, forming and extruding the plastic films. The extruding machine comprises an extruding system, a transmitting system and a heating and cooling system. The plastic film recycling and granulating machine further comprises a granule cutting device which is arranged at the downstream of the extruding machine and used for cutting plastic bars, a dewatering machine which is arranged at the downstream of the granule cutting machine and used for dewatering plastic granules, a conveying device which is arranged at the downstream of the dewatering machine, a boiling bed arranged at the downstream of the conveying device and a material cabin arranged at the downstream of the boiling bed. The plastic film recycling and granulating machine has the beneficial effects of being convenient to operate, simple in structure, reasonable in design and convenient to popularize. In addition, reclaimed materials are lower in water content and better glossiness of formed granules.

Classifications:

International (IPC 8-9): B29B17/00 (Advanced/Invention)

CPC: Y02W30/62



Family:

Publication number	Publication date	Application number	Application date
■ CN105216137 A	20160106	CN201510697555	20151026

Priority:

CN201510697555 20151026

Probable Assignee: SUZHOU NEW DISTR JIAHE PLASTIC CO LTD

Assignee(s): (std): SUZHOU NEW DISTR JIAHE PLASTIC CO LTD

Assignee(s): SUZHOU NEW DISTRICT JIAHE PLASTIC CO ; JIAHE PLASTIC CO LTD SUZHOU NEW DISTRICT

Inventor(s): (std): JIANG XUEGONG

27) Family number: 11563110 (US2004072920A)

© PatBase

Title: METHOD AND DEVICE FOR THE REPROCESSING OF A THERMOPLASTIC POLYCONDENSATE

Abstract: Method and device for reprocessing a thermoplastic polycondensate, in particular for the recycling of thermoplastic polycondensates, such as polyethylene terephthalate, polyester or polyamide is provided. The polycondensate is introduced into an extruder in a solid state. The polycondensate is then heated to a temperature below melting

temperature and degassed or dried at below atmospheric pressure or with an inert gas added. Preferably, to prevent the polycondensate flakes from escaping through a degassing opening, a conveying device is used to convey the escaping flakes back into the extruder. The dried flakes are then melted.

Classifications:

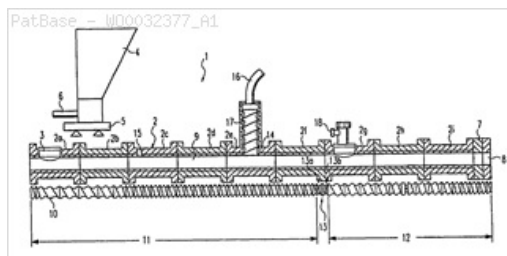
International (IPC 8-9): B29B13/06 B29B7/24 B29B9/10 B29C47/10 B29C47/42 B29C47/76 (Advanced/Invention); B29K105/26 B29K67/00 B29K77/00 (Advanced/Non-invention); B29B13/00 B29B7/02 B29B9/00 B29C47/10 B29C47/38 B29C47/76 (Core/Invention)

International (IPC 1-7): B29B13/06 B29B7/24 B29B7/84 B29B9/10 B29C47/10 B29C47/40 B29C47/42 B29C47/76 B29K105/26 B29K67/00 B29K77/00 C08J11/04 C08J3/00

CPC: B29K2067/00 B29K2105/26 B29C48/767 B29C48/03 B29C48/29 B29C48/425 B29C48/435 B29C48/763 B29B7/485 B29B7/826 B29B7/845 B29B7/86

European: B29C47/10 B29C47/42 B29C47/76P B29C47/76Q2B L29K105/26 L29K67/00

US: 366/75 366/76.4 366/76.400S 366/85 366/88 521/48 521/48P 523/343 523/347 523/348



Family:

Publication number	Publication date	Application number	Application date
AT330772 E	20060715	AT19990950425T	19991103
AU199963231 A1	20000619	AU19990063231	19991103
AU199963231 A5	20000619	AU19990063231	19991103
BRPI9915620 A	20010814	BR1999PI15620	19991103
CA2352256 AA	20010524	CA19992352256	19991103
CA2352256 C	20070911	CA19992352256	19991103
DE19854689 A1	20000608	DE19981054689	19981126
DE59913611 D1	20060803	DE19995013611	19991103
EP1135245 A1	20010926	EP19990950425	19991103
EP1135245 B1	20060621	EP19990950425	19991103
ES2267295 T3	20070301	ES19990950425T	19991103
JP2002531285 T2	20020924	JP20000585049T	19991103
US2004072920 AA	20040415	US20030697661	20031030
US6838496 BA	20050104	US20010856833	20011009
US7380973 BB	20080603	US20030697661	20031030
WO0032377 A1	20000608	WO1999C00515	19991103

Priority:

DE19981054689 19981126 DE19995013611 19991103 US19990856833 19991103
WO1999C00515 19991103 US20010856833 20011009 US20030697661 20031030

Probable Assignee: BUEHLER AG

Assignee(s): (std): BUEHLER AG ; BUEHLER AG GEB ; GOEDICKE FRANZ ; INNEREBNER FEDERICO ; BUEHLER GEB AG

Assignee(s): BUEHLER UZWIL AG ; BUHLER AG ; GOEDICKE FRANK ; BUEHLER AG UZWIL ; BUEHLER AGCH

Inventor(s): (std): GOEDICKE FRANZ ; INNEREBNER FEDERICO ; GOEDICKE FRANK ; FRANZ GOEDICKE

Inventor(s): FEDERICO INNEREBNER

Agent(s): GOWLING LAFLEUR HENDERSON LLP; REED SMITH LLP

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

28) Family number: 54818989 (US2014175196A)

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Title: SYSTEM AND METHOD FOR PROCESSING OBJECTS HAVING CHEMICAL CONTAMINATES

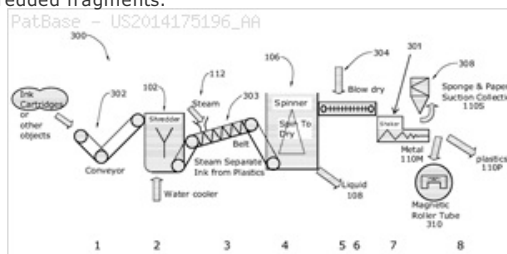
Abstract: A system and method for processing objects having chemical contaminants includes a shredding module arranged to shred the objects to form a plurality of shredded fragments, each having the chemical contaminants, and a separating module arranged to separate the chemical contaminants from the shredded fragments.

Classifications:

International (IPC 8-9): B02C19/00 B02C23/10 B02C23/20 B03B B09B3/00 B09B5/00 B41J (Advanced/Invention); B03B B41J (Subclass/Invention)

CPC: B02C23/20 B09B3/00 B09B3/0091 B02C19/0056 B02C23/10 B03B9/061 B29B17/02 B29B2017/0272 B29B2017/0293 B29L2031/7678 Y02W30/521 Y02W30/526 Y02W30/622

US: 241/17 241/18 241/19 241/60



Family:

Publication number	Publication date	Application number	Application date
CN103878163 A	20140625	CN201310499916	20131022
CN103878163 B	20160622	CN201310499916	20131022
HK1177382 A2	20130823	HK20120113252	20121221
US2014175196 AA	20140626	US20130059944	20131022

Priority:

HK20120113252 20121221

Probable Assignee: LTG GREEN TECH R AND D CO LTD

Assignee(s): (std): LI TONG H K TELECOM CO LTD

Assignee(s): LI TONG HK TELECOM CO LTD ; LI TONG TELECOM CO LTD ; LTG GREEN TECH R AND D CO LTD

Inventor(s): (std): MING TONG WANG ; LEI ZHANG ; WANG MING TONG ; ZHANG LEI ; MINGTONG WANG
Agent(s): MARKS AND CLERK

29) Family number: 1936983 (DE3717839A1)

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Title: METHOD FOR SEPARATING OFF LIGHT MATERIALS, IN PARTICULAR PLASTIC PARTS, FROM SUBSTRATE MIXTURES AND APPARATUS FOR CARRYING OUT THE METHOD

Abstract: The invention relates to a method for separating off light materials, in particular plastic parts, from, if applicable disintegrated, in particular wet-ground substrate mixtures, preferably waste material fractions or pre-sorted refuse fractions, in which the substrate mixtures are subjected to gravity separation in a sink-float basin and the floating light-material phase is removed and afterwards, if applicable after drying, subjected to further processing and is characterised in that the substrate mixtures subjected to the gravity separation are acted upon by liquid jets during their residence in the sink-float basin. The apparatus for carrying out the method is characterised in that at least one, preferably a number of jet nozzles is arranged in particular above the sink-float basin, with which nozzles liquid jets can be sprayed onto the substrate mixtures in the sink-float basin.

Classifications:

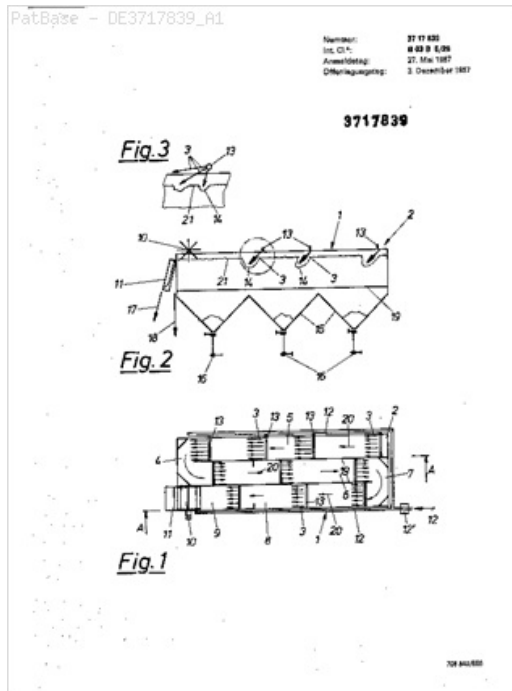
International (IPC 8-9): B03B5/28 B03B5/40 B03B9/06

B29B17/02 (Advanced/Invention);
B03B5/28 B03B9/00 B29B17/02 (Core/Invention)

International (IPC 1-7): B01D21/00 B01D21/34 B03B5/26 B03B9/06
B29B17/02

CPC: Y02W30/521 Y02W30/524 Y02W30/622 B03B5/28 B03B5/40
B03B9/061 B29B17/02 B29B2017/0203 B29B2017/0244
B29K2023/06 B29K2027/06 B29K2711/12 B29L2007/008

European: B03B5/28 B03B5/40 B03B9/06D B29B17/02 L29B17/02B
L29B17/02Z1F2 L29K23/06 L29K27/06 L29K711/12 L29L7/00G



Family:

Publication number	Publication date	Application number	Application date
AT143986 A	19871015	AT19860001439	19860528
AT385680 B	19880510	AT19860001439	19860528
DE3717839 A1	19871203	DE19873717839	19870527

Priority:

AT19860001439 19860528

Probable Assignee: ANDRITZ AG MASCHF

Assignee(s): (std): ANDRITZ AG MASCHF ; ANDRITZ MASCHF AG

Assignee(s): MASCHF ANDRITZ ACTIENGESellschaft ; MASCHF ANDRITZ AG ; MASCHINENFABRIK ANDRITZ ACTIENGESellschaft ; MASCHINENFABRIK ANDRITZ AG

Inventor(s): (std): WEINMANN ALFRED DIPL ING DR ; STEINEGGER JOSEF ING ; SCHEUCHER PETER DIPL ING DR ; LETZENDORFF WOLFGANG DR ; KONSTANTINIUK ROLAND DIPL ING ; HERMANN HUBERT ING

Inventor(s): SCHEUCHER PETER DIPL INGDR ; WEINMANN ALFRED DIPLING DR ; WEINMANN ALFRED DIPL INGDR

30) Family number: 59476808 (CN104690850A)

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Title: TECHNOLOGY FOR RECOVERING PLASTIC FROM OLD AND DECAYED GARBAGE

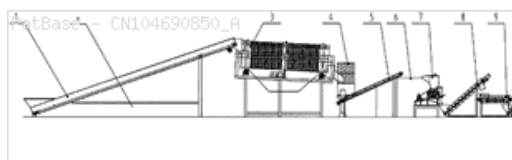
Abstract: The invention discloses a technology for recovering plastic from old and decayed garbage. Plastic films in the old and decayed garbage pass through a belt feeder, a roller cleaning machine, an air classification separator, a spiral feeder, a flushing rubbing machine, a spiral squeezer, a beater, a pelletizer, a recovering device and the like to be cleaned, pelletized and recovered, all the parts coordinate and cooperate to work to form the complete recovering technology, and the technology is particularly suitable for industrially cleaning and recycling the plastic films in the old and decayed garbage on a large scale.

Classifications:

International (IPC 8-9): B29B17/00 B29B17/02

B29B17/04 (Advanced/Invention)

CPC: Y02W30/62 Y02W30/625 Y02W30/622



Family:

Publication number	Publication date	Application number	Application date
CN104690850 A	20150610	CN201510145027	20150330
CN104690850 B	20170616	CN201510145027	20150330

Priority:

CN201510145027 20150330

Probable Assignee: HUAINAN RUNHUI ENVIRONMENTAL PROT TECHNOLOGY CO LTD

Assignee(s): (std): HUAINAN RUNHUI ENVIRONMENTAL PROT TECHNOLOGY CO LTD

Assignee(s): HUAINAN RUNHUI ENVIRONMENTAL PROTECTION TECHNOLOGY CO

Inventor(s): (std): INVENTOR HAS WAIVED RIGHT TO BE MENTIONED

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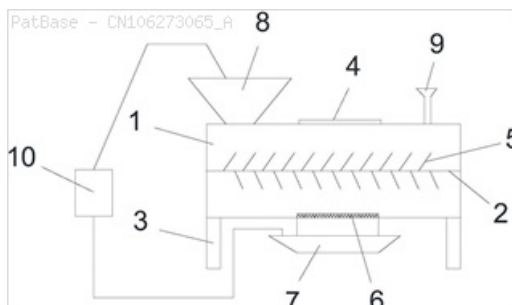
Title: WATER-SAVING CLEANING DEVICE FOR PLASTIC PART

Abstract: The invention discloses a water-saving cleaning device for a plastic part. Supporting feet are arranged at the four corners of the bottom of a machine barrel. A material taking opening is formed in the top of the machine barrel and covered with a sealing cover. A rotating shaft is arranged in the machine barrel, and the two ends of the rotating shaft are erected on the two opposite inner walls of the machine barrel correspondingly. The rotating shaft is connected with a motor so as to make the rotating shaft to rotate. The rotating shaft is provided with a plurality of brush strips evenly arranged on the outer wall in the axial direction of the rotating shaft at intervals. A plurality of bristles are distributed on the brush strips. A notch is formed in the center of the bottom of the machine barrel and covered with a filtering net. A cleaning water collector is arranged under the filtering net. A hopper is further arranged above the machine barrel. The hopper is wide in upper portion and narrow in lower portion, and the bottom end of the hopper communicates with the machine barrel. The water-saving cleaning device for the plastic part further comprises a water suction pump, one end of the water suction pump communicates with the cleaning water collector, and the other end of the water suction pump communicates with the hopper so that water in the cleaning water collector can be pumped into the hopper. The water-saving cleaning device for the plastic part is simple in structure, convenient to operate, good in cleaning effect and capable of saving water resources and avoiding resource waste.

Classifications:

International (IPC 8-9): B29B17/00 (Advanced/Invention)

CPC: Y02W30/62 B29B17/00 B29B2017/0015



Family:

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Probable Assignee: WUHU DEXIN AUTO PARTS CO LTD

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