

Title (en)
METHOD AND DEVICE FOR THE DRY SEPARATION OF UNSORTED GARBAGE THAT CONTAINS PACKAGING WASTE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR TROCKENEN AUFTRENNUNG VON SAMMELMÜLL MIT VERPACKUNGSABFÄLLEN

Title (fr)
PROCEDE ET DISPOSITIF POUR LE TRIAGE A SEC D'ORDURES MENAGERES COLLECTEES CONTENANT DES DECHETS D'EMBALLAGES

Publication
EP 1289720 A1 20030312 (DE)

Application
EP 01943067 A 20010509

Priority

- DE 0101799 W 20010509
- DE 10024309 A 20000517

Abstract (en)
[origin: WO0187567A1] The invention relates to a method for the dry separation of unsorted garbage that contains packaging waste, said packaging waste including plastics of various polymer groups. The inventive method comprises the following steps: separating the materials on the basis of differences in size; separating the materials on the basis of differences in grain shape, grain size and/or specific weight; separating the materials on the basis of differences in their magnetic properties; separating the materials on the basis of differences in their electric properties; and separating the materials on the basis of differences in their spectroscopic properties. Every separation step is carried out at least once and the separation of components of the unsorted garbage results in a remaining mass flow that contains non-recyclable remaining garbage and plastic articles. The plastic articles are collectively removed from the mass flow as a mixed plastic fraction and said mixed plastic fraction is selectively separated into substantially polymer-specific fractions using polymer-specific separation methods. The invention also relates to a device for carrying out the inventive method.

IPC 1-7
B29B 17/02; B03B 9/06; B07C 5/34; G01N 33/44; G01N 21/35

IPC 8 full level
B09B 5/00 (2006.01); **B03B 9/06** (2006.01); **B03C 1/00** (2006.01); **B03C 1/23** (2006.01); **B07B 1/22** (2006.01); **B07B 1/28** (2006.01); **B07B 4/00** (2006.01); **B07B 4/08** (2006.01); **B07B 9/00** (2006.01); **B29B 17/02** (2006.01); **B29B 17/04** (2006.01); **G01N 33/44** (2006.01)

CPC (source: EP US)
B03B 9/061 (2013.01 - EP US); **B29B 17/02** (2013.01 - EP US); **B29K 2705/02** (2013.01 - EP US); **B29K 2705/12** (2013.01 - EP US); **B29K 2711/12** (2013.01 - EP US); **B29L 2007/00** (2013.01 - EP US); **B29L 2031/7158** (2013.01 - EP US); **G01N 33/44** (2013.01 - EP US); **Y02W 30/52** (2015.05 - EP US); **Y02W 30/62** (2015.05 - EP US)

Citation (search report)
See references of WO 0187567A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0187567 A1 20011122; **WO 0187567 B1 20020321**; AR 028568 A1 20030514; AU 6578001 A 20011126; BR 0110693 A 20030318; CN 1443107 A 20030917; DE 10024309 A1 20011129; EP 1289720 A1 20030312; HK 1055577 A1 20040116; JP 2004516163 A 20040603; TW 491732 B 20020621; US 2003183705 A1 20031002

DOCDB simple family (application)
DE 0101799 W 20010509; AR P010102307 A 20010515; AU 6578001 A 20010509; BR 0110693 A 20010509; CN 01809172 A 20010509; DE 10024309 A 20000517; EP 01943067 A 20010509; HK 03106582 A 20030912; JP 2001584004 A 20010509; TW 90111801 A 20010517; US 27555103 A 20030509