

Title (en)

METHOD AND DEVICE FOR SORTING A MIXTURE OF PAPER

Title (de)

VERFAHREN UND EINRICHTUNG ZUR SORTIERUNG EINES PAPIERGEMISCHS

Title (fr)

PROCEDE ET DISPOSITIF POUR TRIER UN MELANGE DE PAPIER

Publication

EP 1248880 A1 20021016 (DE)

Application

EP 00988574 A 20001110

Priority

- DE 0003932 W 20001110
- DE 19954737 A 19991112
- DE 19957548 A 19991130

Abstract (en)

[origin: WO0136739A1] The invention relates to a method for sorting a mixture of paper, according to which the mixture is shredded to a particle size in the range of between 20 and 80 mm and the shredded mixture is then separated using an air separator at a separation speed of between 1 and 5m/sec into a heavy fraction containing a mixture of paper and a light fraction containing deinking material. The invention aims to produce a high-quality fraction of commercial waste paper and a high-quality fraction of deinking material in a cost-effective manner. To this end, the paper is sieved using a sieve-hole size of between 200 and 450 mm before being shredded, in order to separate a coarse fraction containing large pieces of cardboard. The invention also relates to a device for sorting a mixture of paper comprising a shredder (2) for shredding the mixture and an air separator(3) connected downstream of the shredder (2) for separating the shredded mixture of paper into a heavy fraction and a light fraction. The air separator (3) has a separation cross-section, in which a separation speed of between 1 and 5 m/sec can be set. The invention achieves the aim of producing a high-quality fraction of commercial waste paper and a high-quality fraction of deinking material in a cost-effective manner by the positioning of a sieve (1) upstream of the shredder (2), for separating a coarse fraction containing large pieces of cardboard, said sieve having a sieve-hole size of between 200 and 450 mm.

IPC 1-7

D21B 1/02

IPC 8 full level

D21B 1/02 (2006.01)

CPC (source: EP)

D21B 1/028 (2013.01)

Citation (search report)

See references of WO 0136739A1

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 0136739 A1 20010525; AU 2501701 A 20010530; DE 10083527 D2 20021205; EP 1248880 A1 20021016

DOCDB simple family (application)

DE 0003932 W 20001110; AU 2501701 A 20001110; DE 10083527 T 20001110; EP 00988574 A 20001110