

Title (en)
METHOD AND DEVICE DOR THE DIGESTION OF RECYCLED PAPER.

Title (de)
VERFAHREN UND EINRICHTUNG ZUM AUFLÖSEN VON ALTPAPIER.

Title (fr)
PROCEDE ET DISPOSITIF PERMETTANT DE DECOMPOSER DE VIEUX PAPIERS.

Publication
EP 0639238 A1 19950222 (DE)

Application
EP 94909913 A 19940303

Priority
• DE 4306936 A 19930305
• EP 9400617 W 19940303

Abstract (en)
[origin: DE4306936A1] To break down used paper material, with a consistency of 8-15%, it is processed in a closed vessel together with gas or steam to give an overpressure of 0.2-4.0 bar and a temp. of 90-150 deg.C followed by dilution to a consistency of 3-5%. The material is sorted by rotation in a drum, pref. on a horizontal axis, with a perforated mantle, where the material is blown in through one end side. Appts. includes a container (1) with a feed opening for the used paper material which is covered by a lid (4) in a steam-sealed fit. A rotor (2) is at or near the base of the container to break down the material. At least one steam or gas feed (21) is connected to the container (1). The perforated mantle of the sorting drum pref. has openings of 6-20 mm and pref. 6-8 mm. The drum, with a reversing drive and interior bars to advance the material through it, is initially rotated for 3-5 mins. to carry the charge from the feed end as far as the closed end of the drum. For the remainder of the process time, up to max. 30 mins., the drum rotation is reversed to move the material axially back to the feed end for the heavy and large impurities and other large debris to be removed. USE/ADVANTAGE - The method is for breaking down used paper, for recycling, using heat and pressure. The operation gives an effective break-down and sorting of the material in a reliable and simple process, with cost savings.

IPC 1-7
D21B 1/32; **D21B 1/34**

IPC 8 full level
D21B 1/32 (2006.01); **D21B 1/34** (2006.01); **D21C 5/02** (2006.01)

CPC (source: EP KR)
D21B 1/32 (2013.01 - EP KR); **D21B 1/345** (2013.01 - EP KR); **D21C 5/02** (2013.01 - EP KR); **Y02W 30/64** (2015.05 - EP)

Citation (search report)
See references of WO 9420669A1

Designated contracting state (EPC)
AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
DE 4306936 A1 19930923; BR 9404875 A 19990615; CA 2135164 A1 19940915; EP 0639238 A1 19950222; FI 945210 A0 19941104; FI 945210 A 19941104; JP H07506641 A 19950720; KR 950701401 A 19950323; WO 9420669 A1 19940915

DOCDB simple family (application)
DE 4306936 A 19930305; BR 9404875 A 19940303; CA 2135164 A 19940303; EP 9400617 W 19940303; EP 94909913 A 19940303; FI 945210 A 19941104; JP 51956594 A 19940303; KR 19940703918 A 19941103