

Title (en)

Device for separating flat stacked objects

Title (de)

Vorrichtung zum Vereinzeln gestapelter flacher Gegenstände

Title (fr)

Dispositif pour séparer des objets plats empilés

Publication

**EP 0752383 B1 20020515 (DE)**

Application

**EP 96108751 A 19960531**

Priority

- DE 19524878 A 19950707
- DE 19539935 A 19951026

Abstract (en)

[origin: EP0752383A2] The separator has cylindrical tubular rollers (8) running on guidance tracks (6,7) fixed (4,5) to the sides (e.g. 3) of a machine frame. The ends of the rollers are fixed to endless chains. The magazine (12) fitted to the frame sides above the upper set (11) of rollers contains a stack of paper tubes (13) which are extracted by suction boxes (25,26) underlying perforated belt conveyors (17,18) running parallel to each other and driven by motors at different speeds.

IPC 1-7

**B65H 9/10**; B65H 3/32; B65H 3/08

IPC 8 full level

**B65H 9/00** (2006.01); **B65G 59/06** (2006.01); **B65H 3/12** (2006.01); **B65H 3/32** (2006.01); **B65H 9/10** (2006.01)

CPC (source: EP KR US)

**B65H 3/12** (2013.01 - KR); **B65H 3/32** (2013.01 - EP US); **B65H 9/105** (2013.01 - EP US); **B65H 2301/42322** (2013.01 - EP US); **B65H 2301/4233** (2013.01 - EP US); **B65H 2404/313** (2013.01 - EP US); **B65H 2404/3132** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

AT DE ES FR GB IT

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**EP 0752383 A2 19970108**; **EP 0752383 A3 19970611**; **EP 0752383 B1 20020515**; AT E217599 T1 20020615; CN 1064638 C 20010418; CN 1145874 A 19970326; CZ 156296 A3 19970917; DE 19549675 B4 20050217; JP H0930672 A 19970204; KR 100254706 B1 20001002; KR 970006142 A 19970219; US 5785310 A 19980728

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**EP 96108751 A 19960531**; AT 96108751 T 19960531; CN 96110112 A 19960705; CZ 156296 A 19960529; DE 19549675 A 19951026; JP 17758296 A 19960708; KR 19960027337 A 19960706; US 67176296 A 19960628