

Title (en)

Device for removing flat objects from a pile of such objects, especially for envelopes.

Title (de)

Vorrichtung zum Herausnehmen flacher Gegenstände aus einem Stapel solcher Gegenstände, insbesondere für Briefumschläge.

Title (fr)

Dispositif d'extraction un à un d'objets plats à partir d'une pile de tels objets, notamment des enveloppes de lettres.

Publication

**EP 0507661 A1 19921007 (FR)**

Application

**EP 92400876 A 19920330**

Priority

FR 9104046 A 19910403

Abstract (en)

Device for removing, one by one, flat objects from a pile of such objects, especially constituted by mail envelopes (2), including a belt (6) and a lateral jogging edge (7), an entrainment member (9) consisting of at least one band, driven in continuous rotation by rollers (12-14), the band having a perforated surface for allowing a stream of air sucked through the band, so as to press against the latter the first object of the pile, thereby moving it parallel to itself. According to the invention, this device is characterised in that the entrainment member (9) consists of two adjacent parallel bands (10 and 11) which are synchronously entrained over the rollers and separated by an intermediate free space (15), in that a drive member (16) is mounted between the rollers (12-14), is brought into communication with a suction fan (23) and includes a selector (17) which itself surrounds a rotary distributor (18), this selector (17) being provided so as to move, as desired, the location at which, by virtue of the fan, a flow of suction air is produced through the entrainment member, especially in line with predetermined zones of the bands and in the free space. <IMAGE>

IPC 1-7

**B65H 3/12**

IPC 8 full level

**B65H 3/12** (2006.01)

CPC (source: EP)

**B65H 3/124** (2013.01); **B65H 2301/321** (2013.01); **B65H 2406/322** (2013.01); **B65H 2701/1916** (2013.01)

Citation (search report)

- [A] US 2970834 A 19610207 - MARTIN SAMUEL W, et al
- [A] FR 2199321 A5 19740405 - MATSUO MASAHARU [JP]
- [A] US 3735976 A 19730529 - WATSON J P
- [A] US 3212772 A 19651019 - WARD WILLIAM F
- [A] EP 0018057 A2 19801029 - BELL TELEPHONE MFG [BE], et al

Cited by

FR2721298A1; US6186491B1; NL2003117C2; EP0824083A3; US6123330A; EP0801016A1; NL1002819C2; US5988626A; EP1403199A3; KR100478335B1; WO02060792A3; WO2011002297A1

Designated contracting state (EPC)

DE IT

DOCDB simple family (publication)

**EP 0507661 A1 19921007**; **EP 0507661 B1 19940608**; DE 69200177 D1 19940714; DE 69200177 T2 19941208; FR 2674834 A1 19921009; FR 2674834 B1 19930730

DOCDB simple family (application)

**EP 92400876 A 19920330**; DE 69200177 T 19920330; FR 9104046 A 19910403