

Title (en)

METHOD FOR DETECTING MULTIPLE OVERLAPPING COVERS IN A MAIL SORTING INSTALLATION

Title (de)

VERFAHREN ZUR ERKENNUNG VON MEHRFACHABZUEGEN IN EINER POSTSORTIEREINRICHTUNG

Title (fr)

PROCEDE DE DETECTION DE PRISES MULTIPLES DANS UNE INSTALLATION DE TRI POSTAL

Publication

EP 1526924 A2 20050504 (FR)

Application

EP 03753635 A 20030710

Priority

- FR 0302183 W 20030710
- FR 0208738 A 20020711

Abstract (en)

[origin: US2004232055A1] The method of detecting overlapping postal items in a postal sorting installation (1) consists in detecting variation in the length of each item by causing each item to go past a plurality of proximity detectors (4, 5, 6, 7). The proximity detectors are situated at different points of the sorting installation (1) and they are configured to evaluate the length of each item. As they pass through the sorting installation, overlapping items shift progressively relative to one another due, in particular, to friction. Thus, the total length of a set of overlapping items tends to vary, such that evaluating variation in the length of each potential item serves to provide information that is reliable for detecting overlaps. Since it is relatively easy to evaluate the length of an item, the performance of the installation is improved at low cost.

IPC 1-7

B07C 1/04

IPC 8 full level

B65G 43/08 (2006.01); **B07C 1/04** (2006.01); **B07C 1/14** (2006.01); **B65H 7/12** (2006.01)

CPC (source: EP US)

B07C 1/04 (2013.01 - EP US); **B65H 7/125** (2013.01 - EP US); **B65H 2511/11** (2013.01 - EP US); **Y10S 209/90** (2013.01 - EP US)

C-Set (source: EP US)

B65H 2511/11 + **B65H 2220/01**

Citation (search report)

See references of WO 2004007100A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2004232055 A1 20041125; **US 7182335 B2 20070227**; AT E345176 T1 20061215; AU 2003271799 A1 20040202; AU 2003271799 A8 20040202; CA 2487076 A1 20040122; CA 2487076 C 20081223; DE 60309715 D1 20061228; DE 60309715 T2 20070920; EP 1526924 A2 20050504; EP 1526924 B1 20061115; ES 2273027 T3 20070501; FR 2842127 A1 20040116; JP 2005537913 A 20051215; WO 2004007100 A2 20040122; WO 2004007100 A3 20040408

DOCDB simple family (application)

US 47435203 A 20030710; AT 03753635 T 20030710; AU 2003271799 A 20030710; CA 2487076 A 20030710; DE 60309715 T 20030710; EP 03753635 A 20030710; ES 03753635 T 20030710; FR 0208738 A 20020711; FR 0302183 W 20030710; JP 2004520767 A 20030710