

Title (en)

Envelope transport turn module and ramp for an output portion of an inserter system

Title (de)

Umkehrvorrichtung für einen Transport von Briefumschlägen und Rampe für einen Ausgangsteil eines Kuvertiersystems

Title (fr)

Module de virage de transport d'enveloppes et rampe pour la section de sortie d'un système d'insertion

Publication

EP 1371586 A2 20031217 (EN)

Application

EP 03013331 A 20030613

Priority

- US 38894502 P 20020613
- US 20901902 A 20020731

Abstract (en)

An apparatus and method for changing the orientation, height and direction of envelopes (7) conveyed in an inserter system. The invention reorienting horizontally transported envelopes (7) to a vertical position. The envelopes (7) then being transported around a turning arrangement (1) comprised of a length of driven belt (13) urged against a large diameter idler wheel (14). A turning guide (26) serves to aid the envelopes (7) through the turning arrangement (1). A ramp module (2) comprised of nips having toroidal outer circumferences (201) elevate the vertical envelopes (7). The envelopes (7) finally are turned 180 degrees to be sorted into sorting bins (40). The overall arrangement of the invention results in an output sub-system of an inserter system with a shortened footprint and ergonomically desirable layout. Also, features of the invention provide that envelopes avoid damage and jamming and that recently closed envelope flaps do not inadvertently open. <IMAGE>

IPC 1-7

B65H 15/00; **B65H 29/12**

IPC 8 full level

B07C 1/18 (2006.01); **B65H 15/00** (2006.01); **B65H 29/12** (2006.01)

CPC (source: EP US)

B07C 1/18 (2013.01 - EP US); **B65H 5/021** (2013.01 - EP); **B65H 29/12** (2013.01 - EP); **B65H 2301/33212** (2013.01 - EP); **B65H 2301/33222** (2013.01 - EP); **B65H 2301/44314** (2013.01 - EP); **B65H 2404/261** (2013.01 - EP); **B65H 2701/1916** (2013.01 - EP)

Citation (applicant)

- US 209016 A
- US 5971161 A 19991026 - BRANECKY GEORGE N [US], et al
- US 5960963 A 19991005 - CHODACK JEFFREY L [US], et al
- US 5449159 A 19950912 - BELEC ERIC A [US], et al
- US 5429249 A 19950704 - BELEC ERIC A [US], et al
- US 5411250 A 19950502 - BELEC ERIC A [US], et al
- US 5368287 A 19941129 - BELEC ERIC A [US], et al

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1371586 A2 20031217; **EP 1371586 A3 20041020**; **EP 1371586 B1 20080528**; CA 2432236 A1 20031213; CA 2432236 C 20100119; DE 60321270 D1 20080710; DE 60322975 D1 20080925

DOCDB simple family (application)

EP 03013331 A 20030613; CA 2432236 A 20030613; DE 60321270 T 20030613; DE 60322975 T 20030613