

Title (en)

DEVICE FOR REMOVING SHEETS OR FOLDED ARTICLES FROM A FOLDING CYLINDER WITH JAWS

Publication

EP 0250771 B1 19910724 (DE)

Application

EP 87106360 A 19870430

Priority

DE 3621822 A 19860628

Abstract (en)

[origin: US4807865A] To permit introduction of adjacently located sheet elements (20, 22), for example folded sheets (24), received from a folding flap cylinder (2), with the fold line or spine leading and with the sheet elements spread apart, a guide belt (13) has laterally projecting fingers (12) which engage between the sheet elements (20, 22), the guide belt being positioned adjacent to and operating at essentially the same speed as a pair of transport belts (25, 26) between which the sheet elements are being transported. The fingers are inserted between the sheet elements as a sheet (24) is folded or two individual sheet elements are gripped by a folding flap or gripper cylinder (2), and remain between the sheet elements upon transport by the transport belt system. At a delivery region, adjacent a storage unit, the guide belt is deflected over a roller, thereby twisting the fingers and spreading the sheet elements apart adjacent their trailing ends, by guiding the guide belt in a path different from the transport belt system. Preferably, the spread-apart sheet elements are transferred to an accordion or zig-zag pocket structure, for example made of elastic sheet elements, which, to receive the spread-apart sheet elements, has the accordion pockets spread, for example for a worm (50).

IPC 1-7

B41F 13/54; B65H 29/00; B65H 45/16

IPC 8 full level

B41F 13/70 (2006.01); **B41F 13/54** (2006.01); **B41F 13/68** (2006.01); **B65H 5/30** (2006.01); **B65H 29/00** (2006.01); **B65H 29/04** (2006.01); **B65H 29/14** (2006.01); **B65H 45/16** (2006.01); **B65H 47/00** (2006.01)

CPC (source: EP US)

B41F 13/54 (2013.01 - EP US); **B41F 13/68** (2013.01 - EP US); **B65H 29/00** (2013.01 - EP US); **B65H 45/167** (2013.01 - EP US)

Cited by

DE19725606B4; EP0482399A1

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

EP 0250771 A2 19880107; EP 0250771 A3 19890517; EP 0250771 B1 19910724; CA 1279071 C 19910115; DE 3621822 A1 19880107; DE 3621822 C2 19890831; DE 3771592 D1 19910829; JP H0629118 B2 19940420; JP S6359533 A 19880315; US 4807865 A 19890228

DOCDB simple family (application)

EP 87106360 A 19870430; CA 539371 A 19870610; DE 3621822 A 19860628; DE 3771592 T 19870430; JP 15991087 A 19870629; US 5685787 A 19870529