

Title (en)
FOLDING APPARATUS WITH A COLLECTING DEVICE BEFORE THE THIRD FOLD

Publication
EP 0210633 B1 19910508 (DE)

Application
EP 86110407 A 19860728

Priority
DE 3527712 A 19850802

Abstract (en)
[origin: US4720091A] To provide double-infolded printed copy substrates for short copies, a collection and assembly apparatus assembles copy of a first type, for example representative of an advertisement for ladies' fashions, with folded copy of a second type, for example representative of men's fashions. The apparatus forms a first cross fold in a first transverse folding stage (5, 7), typically a folding blade-folding cylinder unit, and forms a longitudinal fold by a longitudinal folding stage (13, 14), typically a folding blade (14) pushing printed copy between gripping rollers (13). To assemble and collect printed copy of the two types above each other for conjoint longitudinal folding by the longitudinal folding stage (13, 14), printed copy, delivered sequentially on a transport belt (12), is delayed and placed above printed copy arriving subsequently on the belt by a collection and assembly apparatus which includes a switching apparatus (16', 40), selectively guiding printed copy of the first type in a detour path, while letting printed copy of the second type pass through, so that the printed copy in the detour path can be placed, with edges in alignment, on a subsequently arriving second-type printed copy. The detour path may be defined by the circumference of a rotating cylinder (FIG. 2: 16) or by a separate belt way (FIG. 3: 18, 19). The detour path defined by the belts has the additional advantage that the length of the detour path is adjustable so that substrate copy of various dimensions can be readily accommodated by the apparatus.

IPC 1-7
B41F 13/64

IPC 8 full level
B41F 13/64 (2006.01); **B65H 5/26** (2006.01); **B65H 29/60** (2006.01); **B65H 39/10** (2006.01); **B65H 45/28** (2006.01)

CPC (source: EP US)
B41F 13/64 (2013.01 - EP US)

Cited by
EP0293634A3; EP1040919A1; US4863152A; US5165674A; US6439562B1

Designated contracting state (EPC)
CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0210633 A2 19870204; EP 0210633 A3 19881207; EP 0210633 B1 19910508; DE 3527712 A1 19870212; DE 3527712 C2 19881006; DE 3679114 D1 19910613; JP 2574250 B2 19970122; JP S6251567 A 19870306; US 4720091 A 19880119

DOCDB simple family (application)
EP 86110407 A 19860728; DE 3527712 A 19850802; DE 3679114 T 19860728; JP 18025086 A 19860801; US 89271286 A 19860731