

Title (en)  
Variable-size combination folding apparatus.

Title (de)  
Formatvariabler Kombinationsfalzapparat.

Title (fr)  
Appareil de pliage combiné à format variable.

Publication  
**EP 0607514 A3 19941117 (DE)**

Application  
**EP 93118335 A 19931112**

Priority  
DE 4241810 A 19921211

Abstract (en)  
[origin: DE4241810A1] The folding machine has a device for making longitudinal folds with cutters and a subsequent device for making transverse folds. There is a first out-tray associated with these. There is a second longitudinal folding device, to which the contents of the first out-tray are delivered by rollers, and thence to a second out-tray. The cutting cylinders (9) are driven independently by a motor (10) from the delivery rollers (4, 6), which have their own motor (7). The transverse folding devices (19, 22, 24) are driven from the cutting cylinder by other rollers. There are conveyor belts (13, 14) below the cutting cylinder, driven from a separate motor (15). A sensor (17) delivers pulses to a drive (15) of the conveyor belts (13,14). ADVANTAGE - Gives variable format with no punctures.

IPC 1-7  
**B41F 13/54**; **B65H 45/28**

IPC 8 full level  
**B41F 13/54** (2006.01); **B65H 45/28** (2006.01)

CPC (source: EP US)  
**B41F 13/54** (2013.01 - EP US); **B65H 29/58** (2013.01 - EP US); **B65H 45/28** (2013.01 - EP US); **B65H 2404/2613** (2013.01 - EP US)

Citation (search report)

- [A] US 4368879 A 19830118 - HOSHI TOSHIO [JP]
- [A] GB 549067 A 19421104 - IGRANIC ELECTRIC CO LTD, et al
- [A] DE 820998 C 19511115 - STRECKER OTTO C DR KG, et al
- [A] EP 0469311 A1 19920205 - HEIDELBERGER DRUCKMASCH AG [DE]
- [AD] DE 3626287 A1 19880204 - FRANKENTHAL AG ALBERT [DE]
- [A] EP 0302489 A2 19890208 - FRANKENTHAL AG ALBERT [DE]
- [AD] PATENT ABSTRACTS OF JAPAN vol. 16, no. 287 (M - 1271) 25 June 1992 (1992-06-25)
- [A] H. MÜRMANN: "Suction Removal and Handling of Edge Strips", PAPIER + KUNSTSTOFF VERARBEITER INTERNATIONAL, no. 2, December 1989 (1989-12-01), FRANKFURT DE, pages 42 - 46, XP000136171

Cited by  
DE10018770C1; DE102006057453A1; DE102006057453B4; US6941862B2; US7255668B2; US6913567B2; WO02079065A3

Designated contracting state (EPC)  
CH DE FR GB LI

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**DE 4241810 A1 19940616**; **DE 4241810 C2 20010104**; DE 59306666 D1 19970710; EP 0607514 A2 19940727; EP 0607514 A3 19941117; EP 0607514 B1 19970604; US 5405126 A 19950411

DOCDB simple family (application)  
**DE 4241810 A 19921211**; DE 59306666 T 19931112; EP 93118335 A 19931112; US 16598193 A 19931213