

Title (en)

Individually driven folding apparatus for a rotary printing machine

Title (de)

Einzelan angetriebener Falzapparat für eine Rotationsdruckmaschine

Title (fr)

Appareil de pliage entraîné individuellement pour une machine d'impression rotative

Publication

EP 0741019 B2 20030423 (DE)

Application

EP 96810253 A 19960419

Priority

DE 19516443 A 19950504

Abstract (en)

[origin: EP0741019A2] The folder is driven by its own drive motor (10) which is coupled mechanically only to the folder. The mechanical coupling is provided by a drive pinion (10.1) on the motor side and by a spur wheel on the cylinder side. The drive can act on the folding flap cylinder or on the cutter cylinder or on the collecting cylinder. The drive motor can drive through a toothed belt any gear wheel in the entire drive train between cutter cylinder and delivery. The drive can also take place on an intermediate wheel in active connection with the drive train with a one-step translation ratio between drive motor and gearwheel. The individual drive allows the folder to turn to any position independently of the position of the printing mechanism.

IPC 1-7

B41F 13/60; **B41F 13/008**; **B41F 13/00**

IPC 8 full level

B41F 13/00 (2006.01); **B41F 13/004** (2006.01); **B41F 13/008** (2006.01); **B41F 13/60** (2006.01); **B65H 45/16** (2006.01); **B65H 45/22** (2006.01)

CPC (source: EP US)

B41F 13/0045 (2013.01 - EP US); **B41F 13/60** (2013.01 - EP US); **B65H 45/16** (2013.01 - EP US); **B65H 45/225** (2013.01 - EP US); **B41P 2213/126** (2013.01 - EP US); **B41P 2213/734** (2013.01 - EP US)

Citation (opposition)

Opponent :

- DE 2107595 B2 19760722
- US 2022696 A 19351203 - TOMLIN JOHN R, et al
- EP 0581179 A2 19940202 - ROLAND MAN DRUCKMASCH [DE]
- EP 0520967 A1 19921230 - MOTTERSTITCH CO [US]
- WO 9629204 A1 19960926 - KOENIG & BAUER ALBERT AG [DE], et al
- DE 19509948 A
- "Konstruktionselemente des Maschinenbaues", Tochtermann/Bodenstein, Springer Verlag, Berlin Heidelberg New York, 9. Auflage, 1979, Seiten 154-159, Seiten 278-287
- Prospekt ROTOMAN M von MAN Roland Druckmaschinen AG, RA ROTO 08.93.1 Augsburg
- ALEXANDER BRAUN: "Atlas des Zeitungs- und Illustrationsdruckes", Polygraph Verlag GmbH, Frankfurt am Main, 1960, Seiten 71 und 189

Cited by

EP1260474A1; DE102006010602A1; EP1072551A3; CN108557509A; US6846279B2; US8001891B2; US6338707B1; WO2007071459A1; WO9851498A3

Designated contracting state (EPC)

BE CH DE ES FI FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0741019 A2 19961106; **EP 0741019 A3 19971001**; **EP 0741019 B1 20000628**; **EP 0741019 B2 20030423**; DE 19516443 A1 19961107; DE 59605479 D1 20000803; ES 2149442 T3 20001101; ES 2149442 T5 20031101; US 5775222 A 19980707; US 5775222 C1 20011127

DOCDB simple family (application)

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