

Title (en)
Cylinder for transporting signatures.

Title (de)
Zylinder zum Transportieren von Signaturen.

Title (fr)
Cylindre de transport de cahiers.

Publication
EP 0656307 A1 19950607 (DE)

Application
EP 94118471 A 19941124

Priority
• DE 4340858 A 19931201
• US 35322894 A 19941201

Abstract (en)
In the case of a cylinder for transporting signatures (29) in a folding apparatus of a web-fed rotary printing machine, the signatures (29), which are retained on their leading edge (f) by means of puncture needles (37, 38, 39), are subject, despite a high production rate, to a further-processing apparatus without being damaged. In this arrangement, the signatures (29) are arranged in a fixedly clampable manner, in their border regions (e, f), at least in the vicinity of the outer puncture needles (37, 39), on the cylinder (1) by means of controllable grippers (23, 54, 59, 63) until they are transferred.

Abstract (de)
Bei einem Zylinder zum Transportieren von Signaturen (29) in einem Falzapparat einer Rollenrotationsdruckmaschine werden die an ihrer Vorderkante (f) mittels Punkturen (37,38,39) gehaltenen Signaturen (29) trotz hoher Produktionsgeschwindigkeit einer Weiterverarbeitungsvorrichtung beschädigungsfrei zugeführt. Dabei sind die Signaturen (29) in ihren Randbereichen (e,f) mindestens in der Nähe der äußeren Punkturadeln (37,39) mittels steuerbaren Greifern (23,54,59,63) auf dem Zylinder (1) bis zu einer Übergabe festklemmbar angeordnet.

IPC 1-7
B65H 5/14; **B41F 21/10**; **B65H 45/16**

IPC 8 full level
B41F 13/62 (2006.01); **B65H 45/16** (2006.01); **B65H 45/28** (2006.01)

CPC (source: EP US)
B65H 45/165 (2013.01 - EP US); **B65H 2402/00** (2013.01 - EP US)

Citation (search report)
• [X] EP 0515945 A1 19921202 - FRANKENTHAL AG ALBERT [DE]
• [XY] DE 3226119 A1 19830421 - POLYGRAPH LEIPZIG [DD]
• [DY] DE 536459 C 19311023 - ALBERT SCHNELLPRESSEN
• [DA] DE 1074057 C

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

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US 5503071 A 19960402; DE 4340858 A1 19950608; DE 4340858 C2 19980212; EP 0656307 A1 19950607; EP 0656307 B1 19990609; JP 2666887 B2 19971022; JP H07206260 A 19950808

DOCDB simple family (application)
US 35322894 A 19941201; DE 4340858 A 19931201; EP 94118471 A 19941124; JP 29864894 A 19941201