

Title (en)  
Printing machine, in particular for printing solid and rigid cardboard, with exchangeable printing cylinders

Title (de)  
Druckmaschine, insbesondere zum Bedrucken einer Papierbahn aus schwerem oder hartem Kartonmaterial, mit austauschbaren Druckzylindern

Title (fr)  
Machine à imprimer, en particulier pour imprimer une bande de papier carton massif ou rigide, avec des cylindres d'impression échangeables

Publication  
**EP 0573877 B1 19970122 (DE)**

Application  
**EP 93108770 A 19930601**

Priority  
US 89803992 A 19920612

Abstract (en)  
[origin: US5186103A] To permit ready exchange of plate cylinder (13) - blanket cylinder (12) printing couples of different circumferences in a printing machine, the blanket cylinder - plate cylinder printing couple is retained in a cassette (8), with adjustment elements (282, 281, 26) to control the throw-off position of the blanket cylinder in the cassette. The adjustment elements are selectively engageable or disengageable against matching adjustment elements (284, 283) in the printing tower (9). The printing tower adjustably supports an impression cylinder (11) located above the blanket cylinder, when the cassette is installed in the tower, so that printing will be from below. Ink application rollers (361, 362, 363) are force-biased against the respective plate cylinders, and movable in a slide path which is radial with respect to the plate cylinder of the respective diameter, under control of slide feelers (161, 162, 163) engaging a stationary ring (213) in the cassette concentric with the plate cylinder. The impression setting of the impression cylinder (11) is determined by a bearer ring setting element (29) on the cassette, engaged by a support arm (22) for the impression cylinder. The cassette is removable in a removal path (15b) which has an upward movement component, so that it can be picked up by a hoist (17), after removing the web from between the impression cylinder (11) and the blanket cylinder (12), which is below the impression cylinder, and after swinging the impression-cylinder out-of-alignment with the cylinders in the cassette.

IPC 1-7  
**B41F 1/00**; **B41F 13/44**

IPC 8 full level  
**B41F 13/20** (2006.01); **B41F 13/24** (2006.01); **B41F 13/44** (2006.01)

CPC (source: EP US)  
**B41F 13/44** (2013.01 - EP US)

Cited by  
EP0638419A1; DE19943027C5; EP1754601A1; EP1757447A3; EP0909643B1

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**US 5186103 A 19930216**; CA 2093028 A1 19931213; CA 2093028 C 19981013; DE 59305204 D1 19970306; EP 0573877 A1 19931215; EP 0573877 B1 19970122; JP 3325651 B2 20020917; JP H0671845 A 19940315

DOCDB simple family (application)  
**US 89803992 A 19920612**; CA 2093028 A 19930331; DE 59305204 T 19930601; EP 93108770 A 19930601; JP 14060993 A 19930611