

Title (en)

Tensioning device for tensioning printing forms upon the plate cylinder of a printing machine.

Title (de)

Spannvorrichtung zum Spannen von Druckplatten auf dem Plattenzylinder einer Druckmaschine.

Title (fr)

Dispositif de tension des plaques d'impression sur le cylindre de forme d'une machine d'impression.

Publication

EP 0069835 A1 19830119 (DE)

Application

EP 82103754 A 19820503

Priority

DE 3127586 A 19810713

Abstract (en)

[origin: US4489653A] A clamping device for thin flexible printing plates has a tensioning rail at the trailing wall of a wide longitudinal groove in the plate cylinder. The tensioning unit is mounted for axial and peripheral adjustment on a support of "L" cross-section having a first leg seated with respect to the bottom of the groove and a second leg presenting an upstanding reference surface interposed between the tensioning rail and the trailing wall of the groove. A set of tensioning springs recessed in the tensioning rail bear against the reference surface and apply peripheral tension to the plate. A spring detent latches the tensioning rail temporarily against the reference surface, overcoming the tensioning springs while the trailing edge of the plate is being gripped. The spring detent is mounted upon and movable with the support. Screws having a plurality of selectable holes anchor the support in a series of peripheral positions for accommodation of plates of different length. A plurality of jack screws threaded into the tensioning rail have tips which bear against the reference surface on the support for removing slack from the plate and for tensioning of the plate about the surface of the cylinder.

Abstract (de)

Eine Spannvorrichtung zum Spannen von Druckplatten (19) weist zwei in einem Zylinderkanal (2) eines Plattenzylinders (1) angeordnete Spannschienen (3 und 4) auf. Während die vordere Spannschiene (3) zum Druckanfang (6) mittels Stellschrauben eingestellt wird, ist die hintere Spannschiene (4) am Druckende (6) auf einer in ihrem Abstand zum Druckende (6) variierbaren Winkelschiene (7) angeordnet. Zum Spannen der Druckplatte (19) wird die Spannschiene (4) von einer an der Winkelschiene (7) angeordneten Blattfeder (15) freigegeben und durch Federkraft, sich auf den Schenkel (11) der Winkelschiene (7) abstützend, in Zylinderkanalmitte bewegt. Zum Variieren der Spannlänge der zu spannenden Druckplatte (19) kann die Winkelschiene (7) parallel zum Druckende (6) in Bohrungen (13) durch federnde Bolzen (12) arretiert werden.

IPC 1-7

B41F 27/12

IPC 8 full level

B41F 27/12 (2006.01)

CPC (source: EP US)

B41F 27/1231 (2013.01 - EP US)

Citation (search report)

- [Y] CH 542720 A 19731015 - HEIDELBERGER DRUCKMASCH AG [DE]
- [YD] DE 2200187 A1 19720810 - POLYGRAPH LEIPZIG
- [A] DE 2114717 A1 19720928 - REGISTER SYSTEM GMBH
- [A] GB 1346799 A 19740213 - KOENIG & BAUER AG
- [A] DE 2213614 B1 19730322 - ROLAND OFFSETMASCHF [DE]
- [A] DE 2702393 A1 19780803 - EUROPA CARTON AG
- [A] US 3994224 A 19761130 - HILL GEORGE B

Cited by

FR2628680A1; GB2196941A; GB2196941B

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

US 4489653 A 19841225; AT E10720 T1 19841215; BR 8204031 A 19830705; DE 3127586 C1 19821209; DE 3261518 D1 19850124; EP 0069835 A1 19830119; EP 0069835 B1 19841212; JP H0242665 B2 19900925; JP S5859084 A 19830407

DOCDB simple family (application)

US 45642083 A 19830107; AT 82103754 T 19820503; BR 8204031 A 19820712; DE 3127586 A 19810713; DE 3261518 T 19820503; EP 82103754 A 19820503; JP 11999982 A 19820712