

Title (en)

Device for the rapid precise clamping and tensioning of printing plates on the forme cylinder of a printing press.

Title (de)

Vorrichtung zum lagegenauen Schnellklemmen und Spannen von Druckplatten auf dem Plattenzylinder von Druckmaschinen.

Title (fr)

Dispositif pour serrer rapidement et précisément et tendre des clichés sur le cylindre porte-plaque d'une machine à imprimer.

Publication

EP 0508113 B1 19940921 (DE)

Application

EP 92103851 A 19920306

Priority

DE 4111636 A 19910410

Abstract (en)

[origin: EP0508113A1] In order to be able to clamp and tension printing plates on the forme cylinder with a minimum of handling effort and in any angular position of said forme cylinder, the invention proposes to arrange the drive members, which bring about the clamping and tensioning of the printing plate, in the groove of the forme cylinder. The eccentric shafts (5.3, 6.3) of the front and of the rear tensioning rails (5, 6) are guided through appropriate openings (11) on both cylinder side walls and have actuating arms (12). Two adjusting rings (8, 9) are arranged rotatably in each case on a collar mounted upstream of the forme cylinder on both side walls thereof, said adjusting rings having recesses (13) in which the actuating arms engage. Turning the adjusting rings thus causes clamping or loosening of the corresponding tensioning rail. The adjusting rings are driven by appropriate spur wheels (17) which are guided out of the cylinder side walls and mesh with a tooth gearing (14) of the respective adjusting ring. Said spur wheels are driven in each case by a motor (20.a, 20.b) (compressed air motor) from the cylinder groove via a train of gears, consisting of a plurality of gearwheels, together with clutches. The tensioning is caused by one of the two motors provided, in that a further clutch is provided, by means of which a rotary spindle can be driven. By means of the latter, a pressure strip, assigned to the rear tensioning rail, can be displaced over a bridge. <IMAGE>

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