

Title (en)
Shoe press roll

Title (de)
Schuhpresswalze

Title (fr)
Rouleau de presse à sabot

Publication
EP 1813714 A1 20070801 (DE)

Application
EP 06123727 A 20061109

Priority
DE 102006003888 A 20060127

Abstract (en)
The shoe (3) retraction mechanism can be deactivated, when the shoe is pressed against the roller (8). This pressure is exerted by one or more axially-adjacent hydraulic cylinder units (2). The retraction mechanism acts outside the cylinder units, on the support (1) and pressure shoe (3). Springs (4) of the retraction mechanism, act at right angles to the length of the pressure shoe. These retraction springs have an interlocking connection with the shoe. The connection can be separated, to deactivate the retraction mechanism. The springs have tie bars running through them, in a radial direction with respect to the roller. The spring ends facing the pressure shoe, have an articulated connection with it. Spiral springs are used, the ends remote from the shoe being supported by a coupling component (9), against a stop end (11) of the corresponding tie bar. Several tie bars are associated with a common coupling component (9). Control actuators (10) act on the coupling components, which can be moved to separate the interlocking connection at the tie bar stop ends. The actuators are preferably hydraulic pressure units which press toward the springs and tension them, hence deactivating retraction.

Abstract (de)
Die Erfindung betrifft eine Schuhpresswalze zur Entwässerung oder Glättung einer Papier-, Karton-, Tissue- oder einer anderen Faserstoffbahn (7) in einer Maschine zur Herstellung und/oder Veredlung derselben mit einem stationären Tragkörper (1) und einem, um diesen rotierbaren, flexiblen Walzenmantel (6), der von einem Pressschuh (3) hydraulisch an eine Gegenwalze (8) anpressbar ist, wobei der Pressschuh (3) radial verschiebbar am Tragkörper (1) gelagert ist und Rückholmitteln zum Zurückziehen des Pressschuhs (3) von der Gegenwalze (8) vorhanden sind. Dabei soll das Linienkraftprofil des Pressschuhs (3) dadurch verbessert werden, dass die Rückholmittel während der Anpressung des Pressschuhs (3) deaktivierbar sind.

IPC 8 full level
D21F 3/02 (2006.01); **D21G 1/00** (2006.01)

CPC (source: EP)
D21F 3/0218 (2013.01); **D21G 1/006** (2013.01)

Citation (search report)
• [X] WO 0240771 A1 20020523 - METSO PAPER KARLSTAD AB [SE]
• [X] US 6158333 A 20001212 - HONKALAMPI PETTER [FI], et al
• [AD] DE 19514142 C1 19960711 - VOITH SULZER PAPIERMASCH GMBH [DE]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1813714 A1 20070801; **EP 1813714 B1 20081008**; AT E410546 T1 20081015; DE 102006003888 A1 20070802;
DE 502006001736 D1 20081120

DOCDB simple family (application)
EP 06123727 A 20061109; AT 06123727 T 20061109; DE 102006003888 A 20060127; DE 502006001736 T 20061109