

Title (en)
Shoe roll

Title (de)
Schuhwalze

Title (fr)
Rouleau à sabot

Publication
EP 1314816 A2 20030528 (DE)

Application
EP 02020713 A 20020914

Priority
DE 10157222 A 20011122

Abstract (en)

A shoe roll (1) comprises a flexible, replaceable press cover (3) having two end regions. <??>A shoe roll comprises a flexible, replaceable press cover having two end regions; an end supporting disc (2); two end regions having reinforcing inlays (5) and being releasably coupled to the end supporting disc; and a quick-acting closure located between an inner wall of the end region and the end supporting disc. The quick-acting closure has radially pressing element structured to exert a pressing force and to seal an interior of the shoe roll from an external environment. <??>Independent claims are also included for: <??>(a) a quick-acting closure for a shoe roll for dewatering or calendering a moving fibrous web that includes a flexible, replaceable press cover having two axial end regions, reinforcing inlays provided in the two axial end regions and at the supporting disc positionable in the end region comprising a radially pressing element structured to exert a pressing force and to seal an interior of the shoe roll from an external environment; and radially pressing element located between an inner wall of the end region and the end supporting disc; and <??>(b) a process of connecting and disconnecting the press cover of the shoe roll comprising axially moving the end of the press cover onto the supporting disc, where the supporting disc radially opens the end.

A shoe roll (1) comprises a flexible, replaceable press cover (3) having two end regions. A shoe roll comprises a flexible, replaceable press cover having two end regions; an end supporting disc (2); two end regions having reinforcing inlays (5) and being releasably coupled to the end supporting disc; and a quick-acting closure located between an inner wall of the end region and the end supporting disc. The quick-acting closure has radially pressing element structured to exert a pressing force and to seal an interior of the shoe roll from an external environment. Independent claims are also included for: (a) a quick-acting closure for a shoe roll for dewatering or calendering a moving fibrous web that includes a flexible, replaceable press cover having two axial end regions, reinforcing inlays provided in the two axial end regions and at the supporting disc positionable in the end region comprising a radially pressing element structured to exert a pressing force and to seal an interior of the shoe roll from an external environment; and radially pressing element located between an inner wall of the end region and the end supporting disc; and (b) a process of connecting and disconnecting the press cover of the shoe roll comprising axially moving the end of the press cover onto the supporting disc, where the supporting disc radially opens the end.

Abstract (de)

Die Erfindung betrifft eine Schuhwalze zum Entwässern oder Glätten einer laufenden Faserstoffbahn, insbesondere Papier- oder Kartonbahn, mit einem flexiblen, austauschbaren Pressmantel (3), der wenigstens in einem seiner Endbereiche (E) Verstärkungseinlagen (4,5) aufweist und an diesem Endbereich der Pressmantel (3) an einer stirnseitigen Tragscheibe (2) befestigbar und bei einem Austausch des Pressmantels (3) wieder lösbar ist. Die Erfindung ist gekennzeichnet durch einen Schnellverschluss dergestalt, dass zwischen der Innenwandung (I) des Endbereiches (E) des Pressmantels (3) und der stirnseitigen Scheibe (2) ein radial pressendes und in seiner Presskraft veränderbares Element angeordnet ist, welches gleichzeitig geeignet ist auch den Innenraum (WI) der Schuhpresswalze (1) gegenüber der Umgebung (U) schnell und sicher abzudichten. <IMAGE>

IPC 1-7
D21F 3/02; **D21G 1/00**

IPC 8 full level
D21F 3/02 (2006.01); **D21F 3/08** (2006.01); **D21G 1/00** (2006.01); **D21G 1/02** (2006.01); **F16C 13/00** (2006.01)

CPC (source: EP US)
D21F 3/0227 (2013.01 - EP US); **D21F 3/0245** (2013.01 - EP US); **D21G 1/006** (2013.01 - EP US)

Designated contracting state (EPC)
AT DE FI IT SE

DOCDB simple family (publication)
EP 1314816 A2 20030528; **EP 1314816 A3 20031217**; DE 10157222 A1 20030605; JP 2003193392 A 20030709; US 2003094256 A1 20030522

DOCDB simple family (application)
EP 02020713 A 20020914; DE 10157222 A 20011122; JP 2002328461 A 20021112; US 30079502 A 20021121