

Publication

**EP 0933471 A3 19990818**

Application

**EP 99850014 A 19990129**

Priority

- SE 9800262 A 19980130
- US 18392498 A 19981030

Abstract (en)

[origin: EP0933471A2] A shoe press for applying pressure to a moving web (W) of paper or the like includes a press shoe extending along a full width of the web being carried through a nip (N) defined between the shoe and a backing member (16), a support (18) for the shoe, and a plurality of articulated hydraulic loading cylinders (20) arranged between the support and the shoe for urging the shoe toward the backing member (16) to apply pressure to the web. Each loading cylinder (20) includes a single piston (26) and first and second cylinders (22, 24) attached to the shoe and to the support, respectively. The opposite end portions of the piston are slidably received within the cylinders so as to define working chambers (34) in the cylinders which are pressurizable by hydraulic fluid for urging the two cylinders away from each other. The piston (26) engages the cylinders (22, 24) at seals (32) which enable the piston to pivot with respect to both cylinders about axes parallel to and perpendicular to the machine direction so as to enable the loading cylinders to accommodate deformations and thermal expansion of the shoe in the cross-machine direction and to allow the shoe to pivot about an axis perpendicular to the machine direction. <IMAGE>

IPC 1-7

**D21F 3/02**

IPC 8 full level

**D21F 3/02** (2006.01)

CPC (source: EP)

**D21F 3/0218** (2013.01)

Citation (search report)

- [A] DE 19515832 C1 19960502 - VOITH SULZER PAPIERMASCH GMBH [DE]
- [A] DE 4423212 C1 19960307 - ESCHER WYSS GMBH [DE]

Cited by

DE10196358B4; EP1273700A1; CN103774483A; US8118980B2; WO2008092868A1; WO0142559A1; WO0163043A1

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**EP 0933471 A2 19990804; EP 0933471 A3 19990818; EP 0933471 B1 20030326;** AT 3188 U1 19991125; AT E235598 T1 20030415; CA 2259768 A1 19990730; CA 2259768 C 20040511; DE 29900914 U1 19991223; DE 69906167 D1 20030430; DE 69906167 T2 20031211; JP H11279976 A 19991012

DOCDB simple family (application)

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