

Title (en)  
Extended nip press roll for a paper machine

Title (de)  
Schuhpresswalze für eine Papiermaschine

Title (fr)  
Rouleau de presse à pinçage élargi pour une machine à papier

Publication  
**EP 0740016 B1 20000510 (DE)**

Application  
**EP 96101385 A 19960201**

Priority  
DE 19515832 A 19950429

Abstract (en)  
[origin: DE19515832C1] A press shoe (16) for a paper machine shoe press is pressed against the opposing roll by one or more hydraulic elements (26) between a stationary support (24) and the inner surface of the shoe. The cylinder part (40) of the hydraulic element has a first pressurisable chamber (28) which communicates via an opening (32) with a second chamber (30) which is open to the press shoe and whose edges bear against a sealing surface (36) of the press shoe. The opening which connects the two chambers is in the form of a throttling point. Pref. the dimensions of the throttling orifice are such that, under normal operating conditions, the pressure in the two chambers is the same, but if the surface of the press shoe inclines at an angle to the surface of the piston, the pressure in the second chamber falls quickly and the leakage of the hydraulic fluid is minimised.

IPC 1-7  
**D21F 3/02**

IPC 8 full level  
**B30B 3/00** (2006.01); **D21F 3/02** (2006.01); **D21F 3/08** (2006.01)

CPC (source: EP US)  
**D21F 3/0218** (2013.01 - EP US)

Cited by  
WO2005080675A1; WO2005080674A1

Designated contracting state (EPC)  
AT IT SE

DOCDB simple family (publication)  
**US 5688375 A 19971118**; AT E192800 T1 20000515; CA 2173890 A1 19961030; DE 19515832 C1 19960502; EP 0740016 A1 19961030; EP 0740016 B1 20000510; FI 113068 B 20040227; FI 960908 A0 19960227; FI 960908 A 19961030; JP H08302582 A 19961119

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**US 62827896 A 19960405**; AT 96101385 T 19960201; CA 2173890 A 19960411; DE 19515832 A 19950429; EP 96101385 A 19960201; FI 960908 A 19960227; JP 3691696 A 19960223