

Title (en)

APPARATUS FOR FORMING AT LEAST ONE EXTENDED NIP

Title (de)

VORRICHTUNG ZUM BILDEN MINDESTENS EINES LANGSPALTS

Title (fr)

DISPOSITIF POUR FORMER AU MOINS UN INTERSTICE LONGITUDINAL

Publication

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Application

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Priority

- EP 2007003923 W 20070504
- DE 102006021428 A 20060505

Abstract (en)

[origin: WO2007128497A1] Apparatus for forming at least one extended nip between a backing roll and a shoe roll for treating a material web, wherein the shoe roll has a stationary carrier and a flexible roll cover which can rotate around the carrier and is supported in the region of the extended nip on a shoe which is guided on the carrier, forms a pressing section and has an active shoe width, and the shoe can be pressed against the backing roll via at least one hydraulic element, wherein the at least one hydraulic element is configured on the carrier as a cylinder/piston unit, on which the shoe is mounted in a floating manner, wherein the hydraulic element (7) has, as piston, a sealing member (8) having at least one hydrostatic pressure chamber (9) which has a raised border all the way around, is open towards the shoe (6), can be loaded via at least one channel (10) with the working force of the pressure medium in a cylinder chamber (11) as supporting force, and has a supporting force in a region on the outlet side displaced towards a centre (Ms) of the active shoe width (SBw), and at least two further edge chambers (12, 13) are provided which are open towards the shoe (6) at a spacing from the pressure chamber (9), have raised borders all the way around and can be supplied as hydrostatic bearings with a pressure medium via throttle points (14, 15).

IPC 8 full level

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