

Title (en)

AN APPARATUS FOR REDUCING THE AMOUNT OF WATER IN A MOIST AND WATERY MATERIAL WEB

Publication

EP 0018954 B1 19840314 (EN)

Application

EP 80850049 A 19800410

Priority

SE 7903953 A 19790507

Abstract (en)

[origin: EP0018954A1] The present invention relates to an apparatus for reducing the amount of water in a moist and watery material web (1), primarily a fiber web in a machine for the manufacture of paper, by means of one or more press nips (4, 6, 7), each being provided between a press roller (3, 8, 9) and a roller-formed body (5), which at least to a certain part being deformable for controlling of the length of said press nips (4, 6, 7). One object of the present invention is to reduce the inconveniences inherent in prior art methods and arrangements for realizing an extended press nip and, in general terms, to improve the pressing-out of moisture and water from a material web without realizing any deterioration of the quality of the material web. This object is achieved according to the present invention in that said roller-formed body being a central roller (5) in cooperation with at least three satellite rollers (3, 8, 9) positioned around the central roller (5) for positioning said roller (5) in a balanced condition, in that said press nip (4, 6, 7) being provided between at least one of said satellite rollers (3, 8, 9) and said roller-formed central roller (5) and in that the pressure between said satellite roller (3, 8, 9) and said roller-formed central roller (5) being controllable almost independently of the length of the press nip (4, 6, 7), provided by the deformation, by a change of the pressure inside said roller-formed body (5).

IPC 1-7

D21F 3/02; **D21G 1/00**

IPC 8 full level

D21F 3/04 (2006.01); **D21F 3/02** (2006.01); **D21G 1/00** (2006.01)

CPC (source: EP)

D21F 3/045 (2013.01); **D21G 1/00** (2013.01)

Cited by

FR2557895A1; US6397739B1; WO9844196A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0018954 A1 19801112; **EP 0018954 B1 19840314**; AT E6680 T1 19840315; AU 532802 B2 19831013; AU 5790480 A 19801113; BR 8002492 A 19801209; CA 1125559 A 19820615; DE 3066914 D1 19840419; ES 491193 A0 19801201; ES 8101162 A1 19801201; FI 801233 A 19801108; JP S569496 A 19810130; MX 153039 A 19860722; SE 7903953 L 19801108

DOCDB simple family (application)

EP 80850049 A 19800410; AT 80850049 T 19800410; AU 5790480 A 19800430; BR 8002492 A 19800423; CA 351403 A 19800507; DE 3066914 T 19800410; ES 491193 A 19800506; FI 801233 A 19800417; JP 5874680 A 19800506; MX 18215680 A 19800430; SE 7903953 A 19790507