Title (en)

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

Publication

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Application

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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 satelite 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 satelite rollers (3, 8, 9) and said roller-formed central roller (5) and in that the pressure between said satelite 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 deformaton, by a change of the pressure inside said roller-formed body (5).

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