

Title (en)

A METHOD OF DEWATERING A WEB IN THE PRESS SECTION OF A PAPER MACHINE

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Application

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Abstract (en)

[origin: WO8201203A1] A procedure in the press section of a paper machine both with a view to improving the paper technology characteristics of the paper web (W) being manufactured and to boosting the dewatering action and improving the runability of the paper machine. The press section comprises three or more consecutive press nips (N), between which the web (W) to be treated passes in closed conduction. The first nip (N<u1>u) is defined between a water-receiving roll (2a) and a suction roll (2b). The second nip (N<u2>u) is defined between said suction roll (2b) and a smooth-surfaced roll (2c). The smooth-surfaced roll (2c) serves as one of two rolls in the next nip or nips (N<u3>u). On the web (W) from both sides thereof is directed a heating effect. With a first set of means (60) a heating effect is directed from the first side of the web in the interval between the first and second nips (N<u1>u, N<u2>u). A second heating effect is directed from the second side of the web (W) in the interval of the second and third nips (N<u2>u, N<u3>u) on a substantially extensive sector (//c) of said roll (2c). The heating effects are such of their power that the temperature of the web rises before the last nip (N<u1>u) of the closed press section substantially above 50°C, but the last-mentioned temperature still remains below about 95°C.

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