

Title (en)
Press arrangement

Title (de)
Pressenanordnung

Title (fr)
Dispositif de pressage

Publication
EP 1186701 A3 20020828 (DE)

Application
EP 01117413 A 20010719

Priority
DE 10042906 A 20000831

Abstract (en)
[origin: EP1186701A2] The press section (10) has an extended press gap (16) along the direction (L) of web travel between a shoe press roller (12) and a counter surface (14). The shoe press roller has a fixed carrier (18) with a flexible press mantle (20) rotating around it, supported by a press shoe (22) against the counter surface and extend it through an outlet (24) at the press gap in the direction of mantle rotation (LM). The press section of a production machine for paper or cardboard or tissue has a shoe press roller, and the pressure on the mantle from the shoe forces it radially outside the mantle circle (26) at the press gap, and it returns to the mantle circle at the free end (28) of the outlet from the press. The length (1A) of the web outlet, in the direction of mantle rotation, is more than one half the length (1S) of the press gap and especially more than 3/4 and preferably equal to or more than the press gap length. At the press gap, the roller mantle is pressed radially outside the mantle circle by a displacement (a) which, at the center, is 1-3% of the mantle circle diameter and especially 1.5-2.5% and particularly 2%. The outlet from the press gap has a flat surface (30) towards the press mantle at one end and, at the end towards the exit (32) from the press gap press surface (34) of the press shoe, it lies at a tangent (36) in an angle (α) of 18 degrees . The contour of the press mantle, at the press shoe, matches the contour of the counter surface formed by a counter roller (38). The press shoe has a concave press surface against the roller mantle at the press gap. The free end of the outlet from the press gap is curved radially inwards at its free end, with a rounded transit (40). The web is carried through the press gap with at least one blanket.

IPC 1-7
D21F 3/02

IPC 8 full level
D21F 3/02 (2006.01)

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

Citation (search report)
• [A] GB 2218122 A 19891108 - VOITH GMBH J M [DE]
• [A] DE 29902451 U1 19990527 - VALMET CORP [FI]

Cited by
AT516329A2; AT516329B1

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