

Title (en)
METHOD AND MACHINE FOR MANUFACTURING PRINTING PAPER OR PAPERBOARD

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON DRUCKPAPIER ODER PAPPE

Title (fr)
PROCEDE ET MACHINE DE FABRICATION DE PAPIER D'IMPRESSION OU DE CARTON

Publication
EP 1238146 B1 20050223 (EN)

Application
EP 00931804 A 20000502

Priority
• SE 0000826 W 20000502
• SE 9901754 A 19990514
• US 13963499 P 19990617

Abstract (en)
[origin: WO0070142A1] For manufacturing printing paper or paperboard with a grammage of 30-200 g/m<2> in a paper or paperboard machine, comprising a wet section, a press section and a drying section, and in which a formed web (W) is pressed in a roll press with a double-felted roll-press nip and, thereafter, in a shoe press with an extended single or double-felted shoe-press nip, it is suggested, in accordance with the invention that the web is pressed in a deflection-compensating roll press, having said double-felted roll-press nip and open press rolls; that the machine is operated at a web speed of at least 1,200 m/min.; that the web in the roll-press nip is subjected to a linear load ranging from 100 to 300 kN-m and a specific pressure ranging from 5 to 15 MPa; and that the web in the shoe-press nip is subjected to a linear load ranging from 500 to 1,500 kN/m and a specific high pressure ranging from 4 to 13 MPa, to obtain a dewatered web with a dry-solids content of at least 35 per cent after the roll-press nip and at least 45 per cent after the shoe-press nip.

IPC 1-7
D21F 3/00

IPC 8 full level
D21F 3/02 (2006.01); **D21F 3/04** (2006.01)

CPC (source: EP)
D21F 3/04 (2013.01); **D21F 3/045** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0070142 A1 20001123; AT E289643 T1 20050315; CA 2373205 A1 20001123; CA 2373205 C 20061128; DE 60018304 D1 20050331; DE 60018304 T2 20060413; EP 1238146 A1 20020911; EP 1238146 B1 20050223; ES 2237428 T3 20050801; JP 2002544408 A 20021224; JP 4494651 B2 20100630

DOCDB simple family (application)
SE 0000826 W 20000502; AT 00931804 T 20000502; CA 2373205 A 20000502; DE 60018304 T 20000502; EP 00931804 A 20000502; ES 00931804 T 20000502; JP 2000618541 A 20000502