

Title (en)  
PAPER MACHINE FOR AND METHOD OF MANUFACTURING SOFT PAPER

Title (de)  
PAPIERMASCHINE UND VERFAHREN ZUR HERSTELLUNG VON TISSUE-PAPIER

Title (fr)  
MACHINE ET PROCEDE DE FABRICATION POUR PAPIER DOUX

Publication  
**EP 1075567 A1 20010214 (EN)**

Application  
**EP 99912198 A 19990312**

Priority  
• SE 9900382 W 19990312  
• SE 9800948 A 19980320

Abstract (en)  
[origin: WO9949132A8] A paper machine for manufacturing soft paper comprises a press section (3) with a shoe press nip, through which a substantially impermeable belt (16) and a felt (15) run with the fibrous web (1) enclosed between them, a drying cylinder (5) and a transfer roll (17) forming a nip for transfer of the web to the drying cylinder. According to the invention the belt (16) comprises a carrier with a compressible polymer coating having a hardness of 50 to 97 Shore A, which polymer coating has a web-contacting surface with a degree of roughness in unloaded state of Rz=2-80 µm, measured in accordance with ISO 4287, and a lower degree of roughness of Rz=0-20 µm when the polymer coating is compressed by linear load of 20-220 kN/m on the belt as measured in a non-extended press nip, the belt and the web-carrying felt being arranged to run together not until they enter the press section, the belt running directly to the press section. Further, the belt runs from the shoe press to the drying cylinder to carry the web to the transfer nip, the felt running away from the belt before a water film formed in the nip on the belt breaks up. A device (31) is also provided for applying adhesive on the drying cylinder.

IPC 1-7  
**D21F 9/00; D21F 11/00**

IPC 8 full level  
**D21F 3/00** (2006.01); **D21F 3/04** (2006.01); **D21F 11/14** (2006.01); **D21H 27/00** (2006.01)

CPC (source: EP KR)  
**D21F 11/14** (2013.01 - EP KR)

Cited by  
CN102428230A; AT508305A3; US11414816B2; WO2010132903A3; EP2264243A1; US8349138B2; KR20100092959A; US8202396B2

Designated contracting state (EPC)  
AT DE FR GB IT SE

DOCDB simple family (publication)  
**WO 9949132 A1 19990930; WO 9949132 A8 19991125**; AT E246745 T1 20030815; BR 9908983 A 20001114; BR 9908983 B1 20090113; CA 2323636 A1 19990930; CA 2323636 C 20061212; DE 69910194 D1 20030911; DE 69910194 T2 20040609; EP 1075567 A1 20010214; EP 1075567 B1 20030806; JP 2002507674 A 20020312; JP 3764050 B2 20060405; KR 100554340 B1 20060224; KR 20010042035 A 20010525; SE 511702 C2 19991108; SE 9800948 D0 19980320; SE 9800948 L 19990921

DOCDB simple family (application)  
**SE 9900382 W 19990312**; AT 99912198 T 19990312; BR 9908983 A 19990312; CA 2323636 A 19990312; DE 69910194 T 19990312; EP 99912198 A 19990312; JP 2000538082 A 19990312; KR 20007010373 A 20000919; SE 9800948 A 19980320