

Title (en)  
SCREEN PIPE FOR DRY FORMING WEB MATERIAL

Title (de)  
FILTERROHR ZUM TROCKENEN HERSTELLEN VON BAHNMATERIAL

Title (fr)  
TUBE FILTRE POUR FORMER A SEC UN MATERIAU EN BANDE

Publication  
**EP 1187708 A1 20020320 (EN)**

Application  
**EP 00937855 A 20000526**

Priority  
• FI 991203 A 19990527  
• US 0014631 W 20000526

Abstract (en)  
[origin: WO0073032A1] The invention relates to a screen pipe to be used in dry forming of web material in order to distribute fiber material blown into the screen pipe through a jacket (2) of the pipe onto a wire arranged to move under the pipe. The fiber material provided inside the screen pipe is made to move for example by means of a spiked roll placed inside the pipe, so that the movement of the fiber material has both a radial and a tangential component with respect to the jacket (2) of the screen pipe. The jacket comprises on its inner surface profiled grooves (8) in the pipe's axial direction. The edge (8a) of the profiled groove is situated downstream with respect to the tangential component of the fiber flow. The upstream edge (8b) of the groove is positioned downstream with respect to the tangential component of the fiber flow. The bottoms of the profiled grooves comprise holes or slots (9) through which the fibers are discharged from the screen pipe. In the invention, the downstream edge (8a) of the profiled grooves is at a more acute angle to the tangential component of the fiber material flow than the upstream edge (8b).

IPC 1-7  
**B27N 1/00**

IPC 8 full level  
**B27N 3/10** (2006.01); **B27N 3/14** (2006.01); **D04H 1/72** (2006.01)

CPC (source: EP KR)  
**B27N 3/146** (2013.01 - EP); **D21D 5/06** (2013.01 - KR)

Citation (search report)  
See references of WO 0073032A1

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 0073032 A1 20001207; WO 0073032 A9 20020418**; AU 5297600 A 20001218; BR 0011588 A 20020319; CA 2374914 A1 20001207; CN 1352591 A 20020605; EP 1187708 A1 20020320; FI 107818 B 20011015; FI 991203 A0 19990527; FI 991203 A 20001128; JP 2003521590 A 20030715; KR 20020047039 A 20020621

DOCDB simple family (application)  
**US 0014631 W 20000526**; AU 5297600 A 20000526; BR 0011588 A 20000526; CA 2374914 A 20000526; CN 00808138 A 20000526; EP 00937855 A 20000526; FI 991203 A 19990527; JP 2000621128 A 20000526; KR 20017015088 A 20011126