

Title (en)
DRY CYLINDER

Title (de)
TROCKENZYLINDER

Title (fr)
CYLINDRE-SECHEUR

Publication
EP 1838921 A1 20071003 (DE)

Application
EP 05811125 A 20051122

Priority
• EP 2005056151 W 20051122
• DE 102005000782 A 20050105

Abstract (en)
[origin: WO2006072507A1] The invention relates to a dry cylinder (4) which is used to dry a paper, cardboard, tissue or other web of fibrous material (1) in a machine for the production and/or for the transformation thereof. Said dry cylinder comprises a support body (8) and an external cover layer (7) which is heated by a hot fluid. The thermal flow passing through the external cover layer (7) is increased such that at least one cavity (12) is provided between the support body (8) and the external cover layer (7) through which the fluid flows, and the external cover layer (7) is predominately so thin that the quotient (A) formed by the thermal conductivity of the material and the thickness(s) of the external cover layer (7) is greater than a threshold value (G) which is 3,2 kW/m²K for steel, 30 kW/m²K for aluminium, 18 kW/m²K for bronze alloys, 3,4 kW/m²K for copper and 6,1 kW/m²K for magnesium.

IPC 8 full level
D21F 5/02 (2006.01)

CPC (source: EP US)
D21F 5/027 (2013.01 - EP US)

Citation (search report)
See references of WO 2006072507A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006072507 A1 20060713; BR PI0518106 A 20081104; CN 101094953 A 20071226; DE 102005000782 A1 20060720; EP 1838921 A1 20071003; JP 2008527289 A 20080724; JP 2011047643 A 20110310; JP 4633801 B2 20110216; RU 2007129851 A 20090220; RU 2372434 C2 20091110; US 2007294914 A1 20071227; US 7802377 B2 20100928

DOCDB simple family (application)
EP 2005056151 W 20051122; BR PI0518106 A 20051122; CN 200580045877 A 20051122; DE 102005000782 A 20050105; EP 05811125 A 20051122; JP 2007548796 A 20051122; JP 2010210831 A 20100921; RU 2007129851 A 20051122; US 76981907 A 20070628