

Title (en)

DEVICE FOR THE TRANSPARENT PATTERNING OF A MATERIAL WEB

Title (de)

VORRICHTUNG ZUR FARBLOSEN MUSTERUNG EINER WARENBAHN

Title (fr)

DISPOSITIF POUR CREER DES DESSINS TRANSPARENTS SUR UNE BANDE D'ETOFFE

Publication

EP 1404914 A2 20040407 (DE)

Application

EP 02751071 A 20020625

Priority

- DE 10132563 A 20010710
- EP 0206987 W 20020625

Abstract (en)

[origin: WO03008691A2] The invention relates to a method for generating three-dimensional transparent patterns on a non-woven fabric or similar, whereby, for example, hot air is sucked through openings which form the pattern in the circumferential surface of a drum. The openings are straight or curved gaps instead of conventional holes and together with other openings form the desired pattern. The air or similar, flowing through the gaps, presses the fibres into the gaps and the vacuum on the inner side of the drum sucks said fibres onto the patterning.

IPC 1-7

D06C 23/00; **D04H 1/54**

IPC 8 full level

D06B 1/02 (2006.01); **D04H 1/46** (2012.01); **D04H 1/54** (2012.01); **D04H 1/70** (2012.01); **D04H 1/732** (2012.01); **D04H 1/736** (2012.01); **D06C 23/00** (2006.01)

CPC (source: EP KR US)

D04H 1/46 (2013.01 - EP US); **D04H 1/495** (2013.01 - KR); **D04H 1/54** (2013.01 - EP US); **D04H 1/732** (2013.01 - EP US); **D04H 1/736** (2013.01 - EP US); **D04H 18/04** (2013.01 - EP US); **D06C 23/00** (2013.01 - EP US)

Citation (search report)

See references of WO 03008691A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 03008691 A2 20030130; **WO 03008691 A3 20030918**; **WO 03008691 B1 20031120**; AT E325211 T1 20060615; BR 0211065 A 20040615; BR 0211065 B1 20120918; CA 2453356 A1 20030130; CN 1267596 C 20060802; CN 1526042 A 20040901; DE 10132563 A1 20030130; DE 50206670 D1 20060608; EP 1404914 A2 20040407; EP 1404914 B1 20060503; JP 2004535521 A 20041125; JP 4373209 B2 20091125; KR 20040030041 A 20040408; RU 2329339 C2 20080720; US 2005015950 A1 20050127; US 7310858 B2 20071225

DOCDB simple family (application)

EP 0206987 W 20020625; AT 02751071 T 20020625; BR 0211065 A 20020625; CA 2453356 A 20020625; CN 02813818 A 20020625; DE 10132563 A 20010710; DE 50206670 T 20020625; EP 02751071 A 20020625; JP 2003514999 A 20020625; KR 20047000339 A 20020625; RU 2004102686 A 20020625; US 48333504 A 20040722