

Title (en)
TEXTILE SUBSTRATE INCLUDING A THERMAL REGULATION COMPOSITION SURROUNDING TRANSFER ISLANDS

Title (de)
TEXTILSUBSTRAT MIT TRANSFERINSELN INNERHALB EINER WÄRMEREGULIERUNGSZUSAMMENSETZUNG

Title (fr)
SUBSTRAT TEXTILE INCORPORANT UNE COMPOSITION DE RÉGULATION THERMIQUE ENTOURANT DES ILOTS DE TRANSFERT

Publication
EP 2122045 A2 20091125 (FR)

Application
EP 08761746 A 20080109

Priority

- FR 2008000024 W 20080109
- FR 0700166 A 20070110

Abstract (en)
[origin: FR2911153A1] A fiber-containing textile substrate (A), incorporating a thermal regulation composition (I), also has 'islets', associated with the fibers and surrounded by (I), of material (II) for promoting the transfer of heat and/or moisture into (I). An independent claim is included for the production of (A), incorporating (I) and (II), where (I) is in the form of microcapsules (MC's) containing phase-change material (Ia), by: (1) preparing a formulation containing the MC's, comprising (Ia) in a shell of material (III) with groups reacting under ionizing radiation (IZR), and a crosslinker (IV) with two types of groups reacting under IZR; (2) applying (II) to at least one zone on the surface of (A) in the form of islets; (3) impregnating (A) with the MC formulation; and (4) irradiating with IZR to crosslink the MC's on (A) via the reactive groups.

IPC 8 full level
D06M 23/12 (2006.01); **D06M 10/08** (2006.01)

CPC (source: EP KR US)
D06M 10/08 (2013.01 - EP KR US); **D06M 23/12** (2013.01 - EP KR US); **D06N 3/00** (2013.01 - KR); **D06N 3/0056** (2013.01 - EP US); **Y10T 442/2123** (2015.04 - EP US)

Citation (search report)
See references of WO 2008099089A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2911153 A1 20080711; FR 2911153 B1 20090410; AT E529565 T1 20111115; AU 2008214556 A1 20080821; CA 2670008 A1 20080821; CN 101627159 A 20100113; EP 2122045 A2 20091125; EP 2122045 B1 20111019; IL 198816 A0 20100217; JP 2010515835 A 20100513; KR 20090100446 A 20090923; MA 31164 B1 20100201; TN 2009000259 A1 20101018; US 2010099315 A1 20100422; WO 2008099089 A2 20080821; WO 2008099089 A3 20081106; ZA 200903655 B 20100428

DOCDB simple family (application)
FR 0700166 A 20070110; AT 08761746 T 20080109; AU 2008214556 A 20080109; CA 2670008 A 20080109; CN 200880001599 A 20080109; EP 08761746 A 20080109; FR 2008000024 W 20080109; IL 19881609 A 20090519; JP 2009545208 A 20080109; KR 20097016690 A 20080109; MA 32140 A 20090804; TN 2009000259 A 20090623; US 52258308 A 20080109; ZA 200903655 A 20090526