

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

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- 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)

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