

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

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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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