

Title (en)

METHOD FOR PRODUCING MOULDED BODIES EXHIBITING THERMOREGULATION PROPERTIES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FORMKÖRPERN MIT THERMOREGULATIVEN EIGENSCHAFTEN

Title (fr)

METHODE POUR LA PREPARATION DE CORPS MOULES A PROPRIETES THERMOREGULATIVES

Publication

**EP 1658395 A1 20060524 (DE)**

Application

**EP 04786178 A 20040825**

Priority

- DE 2004001893 W 20040825
- DE 10340110 A 20030830

Abstract (en)

[origin: US2006279017A1] The invention related to a method for producing molded bodies made of cross-linked native polymers in such a way that a network is formed by chemically coupled functional groups, hydrogen bridges or polymer or oligomer structures helically connected to each other and up to 200 mass % of micro-encapsulated phase change material is included into a polymer matrix with respect to the cross-linked polymer. Said cross-linked polymers can, for example be embodied in the form of polysaccharides and/or globular proteins. In the form of fibers the molded bodies can be processed to textile fabrics having enhanced thermoregulation properties and an improved wearability to the textiles produced therefrom, as well as a high functionality with respect to heat storage and heat removal when used in other applications.

IPC 1-7

**D01F 1/10**; **D01F 2/00**; **D01F 4/00**; **D01F 4/06**; **D01F 8/02**

IPC 8 full level

**D01F 1/10** (2006.01); **D01F 2/00** (2006.01); **D01F 4/00** (2006.01); **D01F 4/04** (2006.01); **D01F 4/06** (2006.01); **D01F 8/02** (2006.01)

CPC (source: EP US)

**D01F 1/10** (2013.01 - EP US); **D01F 2/00** (2013.01 - EP US); **D01F 4/00** (2013.01 - EP US); **D01F 4/04** (2013.01 - EP US)

Citation (search report)

See references of WO 2005024102A1

Cited by

WO2011079331A1; US9303335B2; DE102007054702B4; US10323138B2; DE102007054702A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**US 2006279017 A1 20061214**; AT E344844 T1 20061115; DE 102004041684 A1 20050317; DE 112004002148 D2 20060713; DE 502004001972 D1 20061221; EP 1658395 A1 20060524; EP 1658395 B1 20061108; PL 1658395 T3 20070430; WO 2005024102 A1 20050317

DOCDB simple family (application)

**US 57037406 A 20060228**; AT 04786178 T 20040825; DE 102004041684 A 20040825; DE 112004002148 T 20040825; DE 2004001893 W 20040825; DE 502004001972 T 20040825; EP 04786178 A 20040825; PL 04786178 T 20040825