

Title (en)

Process for increasing the water impermeability of textile fabrics, so treated products and use thereof

Title (de)

Verfahren zur Erhöhung der Wasserdichtigkeit von textilen Flächengebilden, so ausgerüstete textile Flächengebilde sowie deren Verwendung

Title (fr)

Procédé pour accroître l'étanchéité à l'eau de tissus textiles, produits ainsi traités et leur utilisation

Publication

**EP 1674611 A1 20060628 (DE)**

Application

**EP 05110588 A 20051110**

Priority

DE 102004062743 A 20041227

Abstract (en)

Increasing the waterproofness of porous textiles comprises applying a suspension of particles in a solvent and removing the solvent so that the particles are fixed to the textile fibers to form a structure of elevations with a height 20 nm -100  $\mu$ m and a spacing of 20 nm -100  $\mu$ m. The particles have an average size of 0.02-100  $\mu$ m and are hydrophobic, or are nonhydrophobic and then hydrophobized. An independent claim is also included for textiles with increased waterproofness, comprising fibers with a hydrophobic surface structure of elevations with a height 20 nm to 100  $\mu$ m and a spacing of 20 nm to 100  $\mu$ m.

IPC 8 full level

**D06M 13/517** (2006.01); **D06M 15/657** (2006.01); **D06M 23/10** (2006.01)

CPC (source: EP US)

**D06M 13/517** (2013.01 - EP US); **D06M 15/657** (2013.01 - EP US); **D06M 23/08** (2013.01 - EP US); **D06M 23/10** (2013.01 - EP US); **Y10T 428/24372** (2015.01 - EP US); **Y10T 428/24479** (2015.01 - EP US); **Y10T 428/24612** (2015.01 - EP US); **Y10T 442/2164** (2015.04 - EP US); **Y10T 442/2221** (2015.04 - EP US); **Y10T 442/3065** (2015.04 - EP US)

Citation (search report)

- [X] WO 2004048450 A1 20040610 - CREAVIS TECH & INNOVATION GMBH [DE], et al
- [X] EP 1472011 B
- [A] WO 02084016 A1 20021024 - CREAVIS TECH & INNOVATION GMBH [DE], et al

Cited by

DE102010028662A1; DE102006009761A1

Designated contracting state (EPC)

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**EP 1674611 A1 20060628**; DE 102004062743 A1 20060706; JP 2006214076 A 20060817; US 2006141223 A1 20060629

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