

Title (en)

Hydrophobic material and production process thereof

Title (de)

Hydrophobes Material und Verfahren zu seiner Herstellung

Title (fr)

Matériau hydrophobe et son procédé de production

Publication

**EP 2594343 A3 20130911 (EN)**

Application

**EP 12192414 A 20121113**

Priority

JP 2011249135 A 20111114

Abstract (en)

[origin: EP2594343A2] A hydrophobic material includes a substrate, a fine uneven structure formed on a surface of the substrate, and a hydrophobic molecule covering a surface of the fine uneven structure. The fine uneven structure includes a petal-like structure formed of an aggregate of a plurality of plate-like particles and a columnar structure formed of columnar particles, in which a length from a surface of the substrate to the tip of the columnar structure is longer than a length from the surface of the substrate to the tip of the petal-like structure. The hydrophobic material is obtained by forming a fine uneven structure including a petal-like structure formed of an aggregate of a plurality of plate-like particles and a columnar structure formed of columnar particles on a surface of a substrate, in which a length from a surface of the substrate to a tip of the columnar structure is longer than a length from the surface of the substrate to a tip of the petal-like structure, and covering a surface of the fine uneven structure with a hydrophobic molecule.

IPC 8 full level

**B05D 5/08** (2006.01); **B05D 3/10** (2006.01)

CPC (source: EP)

**B05D 3/102** (2013.01); **B05D 2350/63** (2013.01)

Citation (search report)

[X] US 2007031639 A1 20070208 - HSU MING F [US], et al

Cited by

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