

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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