

Title (en)  
Hydrophobic material

Title (de)  
Hydrophobes Material

Title (fr)  
Matériau hydrophobe

Publication  
**EP 2594343 A2 20130522 (EN)**

Application  
**EP 12192414 A 20121113**

Priority  
JP 2011249135 A 20111114

Abstract (en)  
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 (applicant)  
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Designated contracting state (EPC)  
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Designated extension state (EPC)  
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DOCDB simple family (publication)  
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DOCDB simple family (application)  
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