

Title (en)
ULTRA-THIN WATER AND OIL REPELLENT LAYER, MANUFACTURING METHOD AND USE IN MECHANICS AS A BARRIER FILM

Title (de)
HYDROPHOBE UND OLEOPHOBE ULTRADÜNNE SCHICHT, HERSTELLUNGSVERFAHREN SOWIE DEREN MECHANISCHE ANWENDUNG ALS SPERRSCHICHT

Title (fr)
COUCHE ULTRA-MINCE HYDROPHOBE ET OLEOPHOBE, PROCEDE DE FABRICATION, SON UTILISATION EN MECANIQUE COMME FILM BARRIERE

Publication
EP 2102319 B1 20170329 (FR)

Application
EP 07816286 A 20071129

Priority

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- EP 06405505 A 20061201
- EP 07816286 A 20071129

Abstract (en)
[origin: EP1927649A1] Ultra-thin hydrophobic layer and oleophobic layer formed by self-assembly on a solid substrate surface having a compound (I), is claimed. Ultra-thin hydrophobic layer and oleophobic layer formed by self-assembly on a solid substrate surface having a compound of formula (A-B 1) (I), is claimed. A : dihydroxy substituted aromatic compound of formula (II); Z : C or N +>; X : C-H or C-L; L : electro attractor group comprising F, Cl, Br, I, CF 3, NO 2 and N(CH 3) 3 +>; either Y 1H or CH3; or XY 15-6 membered heterocyclic atom; T : NH, CO, CONH or NH 2 +>U 1 ->; U 1 ->soluble anion containing F ->, Cl ->, Br ->, I, OH ->, NO 3 ->, HSO 4 ->, SO 4 2->, CO 3 2->, HCO 3 -> or SCN ->; and B 11-20C aliphatic linear alkyl group substituted by F. An independent claim is included for a preparation of the ultra-thin layer comprising immersing the substrate in a solution containing (I) in water or its mixture and protic solvent. [Image] [Image] [Image] [Image].

IPC 8 full level
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