

Title (en)  
ULTRA-THIN WATER AND OIL REPELLENT LAYER, MANUFACTURING METHOD AND USE IN WATCHMAKING AS EPILAME

Title (de)  
HYDROPHOBE UND OLEOPHOBE ULTRADÜNNE SCHICHT, HERSTELLUNGSVERFAHREN UND ANWENDUNG BEIM UHRENBAU ALS EPILAME

Title (fr)  
COUCHE ULTRA-MINCE HYDROPHOBE ET OLEOPHOBE, PROCEDE DE FABRICATION ET UTILISATION EN HORLOGERIE COMME EPILAME

Publication  
**EP 2084253 A1 20090805 (FR)**

Application  
**EP 07816285 A 20071129**

Priority

- CH 2007000602 W 20071129
- EP 06405504 A 20061201
- EP 07816285 A 20071129

Abstract (en)  
[origin: EP1927648A1] Ultra-thin hydrophobic layer and oleophobic layer formed by self-assembly on a solid substrate surface of an aromatic compound (I), is claimed. Ultra-thin hydrophobic layer and oleophobic layer formed by self-assembly on a solid substrate surface of an aromatic 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 : electron 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->, 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].

IPC 8 full level  
**C10M 105/54** (2006.01); **C10M 105/70** (2006.01)

CPC (source: EP US)  
**C10M 105/20** (2013.01 - EP US); **C10M 105/54** (2013.01 - EP US); **C10M 105/62** (2013.01 - EP US); **C10M 105/68** (2013.01 - EP US); **C10M 105/70** (2013.01 - EP US); **C10M 2207/085** (2013.01 - EP US); **C10M 2215/0425** (2013.01 - EP US); **C10M 2215/0806** (2013.01 - EP US); **C10M 2215/2203** (2013.01 - EP US); **C10N 2040/06** (2013.01 - EP US); **C10N 2050/02** (2013.01 - EP US); **Y10T 428/12556** (2015.01 - EP US); **Y10T 428/265** (2015.01 - EP US); **Y10T 428/31511** (2015.04 - EP US); **Y10T 428/31663** (2015.04 - EP US); **Y10T 428/31678** (2015.04 - EP US); **Y10T 428/31725** (2015.04 - EP US); **Y10T 428/31855** (2015.04 - EP US); **Y10T 428/31938** (2015.04 - EP US)

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Designated contracting state (EPC)  
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