

Title (en)

METHOD FOR THE FLAME SPRAY COATING OF SURFACES WITH POWDER TO CREATE THE LOTUS EFFECT

Title (de)

VERFAHREN ZUR FLAMMPULVERBESCHICHTUNG VON OBERFLÄCHEN ZUR ERZEUGUNG DES LOTUS-EFFEKTES

Title (fr)

PROCEDE DE REVETEMENT PAR POUDRE A LA FLAMME POUR CREER L'EFFET LOTUS SUR DES SURFACES

Publication

**EP 1525285 B1 20061220 (DE)**

Application

**EP 03783985 A 20030625**

Priority

- DE 10233830 A 20020725
- EP 0306681 W 20030625

Abstract (en)

[origin: DE10233830A1] A method for preparation of surfaces with self cleaning properties by application of particles to the surface and fixing of the particles to the surface, where the hills are separated by a distance of 20 nm to 100 micron and are of height 20 nm to 100 micron, the particles are applied by a hot air stream of temperature so far from that of the surface material that the particles can partially penetrate the material surface, and are fixed in the substrate when it is cooled is new. An Independent claim is included for a self cleaned surface obtained as above. films, utility objects, sports articles, textiles, clothing, and shaped parts (claimed)

IPC 8 full level

**B05D 1/06** (2006.01); **C09K 3/18** (2006.01); **B05D 5/00** (2006.01); **B08B 17/00** (2006.01); **B08B 17/06** (2006.01); **D06M 11/45** (2006.01); **D06M 11/79** (2006.01); **D06M 11/83** (2006.01); **D06M 23/06** (2006.01)

CPC (source: EP US)

**B08B 17/06** (2013.01 - EP US); **B08B 17/065** (2013.01 - EP US); **Y10T 428/24372** (2015.01 - EP US); **Y10T 428/25** (2015.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 10233830 A1 20040212**; AT E348866 T1 20070115; AU 2003249873 A1 20040225; DE 50306053 D1 20070201; EP 1525285 A1 20050427; EP 1525285 B1 20061220; ES 2279207 T3 20070816; JP 2005533649 A 20051110; JP 4273076 B2 20090603; US 2005227045 A1 20051013; US 2009123659 A1 20090514; WO 2004015022 A1 20040219

DOCDB simple family (application)

**DE 10233830 A 20020725**; AT 03783985 T 20030625; AU 2003249873 A 20030625; DE 50306053 T 20030625; EP 0306681 W 20030625; EP 03783985 A 20030625; ES 03783985 T 20030625; JP 2004526699 A 20030625; US 27765808 A 20081125; US 51995104 A 20041229