

Title (en)  
POROUS LAYER, ITS MANUFACTURING PROCESS AND ITS APPLICATIONS

Title (de)  
PORÖSE SCHICHT, HERSTELLUNGSVERFAHREN DAFÜR UND ANWENDUNG

Title (fr)  
COUCHE POREUSE, SON PROCEDE DE FABRICATION ET SES APPLICATIONS

Publication  
**EP 2089331 A2 20090819 (FR)**

Application  
**EP 07858693 A 20071113**

Priority

- FR 2007052336 W 20071113
- FR 0654886 A 20061114

Abstract (en)  
[origin: WO2008059170A2] The present invention relates to a substrate (1) coated with a porous layer (2), to the processes for manufacturing the layer and to its applications. The porous layer (2) is mainly inorganic and of sol-gel type having a series of closed pores with at least the smallest characteristic dimension which is, on average, greater than or equal to 20 nm and less than or equal to 100 nm.

IPC 8 full level  
**C03C 17/00** (2006.01); **C03C 17/25** (2006.01); **H01L 31/00** (2006.01)

CPC (source: EP KR US)  
**B32B 17/10036** (2013.01 - EP US); **B32B 17/10174** (2013.01 - EP US); **B32B 17/10339** (2013.01 - EP US); **B32B 17/10706** (2013.01 - EP US); **B32B 17/10733** (2013.01 - EP US); **B32B 17/10761** (2013.01 - EP US); **B32B 17/1077** (2013.01 - EP US); **B32B 17/10788** (2013.01 - EP US); **C03C 1/008** (2013.01 - EP US); **C03C 17/00** (2013.01 - KR); **C03C 17/006** (2013.01 - EP US); **C03C 17/25** (2013.01 - KR); **F24S 80/52** (2018.04 - EP US); **H01L 31/00** (2013.01 - KR); **H01L 31/0216** (2013.01 - EP US); **C03C 2203/30** (2013.01 - EP US); **C03C 2217/425** (2013.01 - EP US); **C03C 2218/113** (2013.01 - EP US); **Y02E 10/40** (2013.01 - EP US); **Y10T 428/24496** (2015.01 - EP US); **Y10T 428/249969** (2015.04 - EP US); **Y10T 428/249975** (2015.04 - EP US); **Y10T 428/249976** (2015.04 - EP US); **Y10T 428/249977** (2015.04 - EP US)

Citation (search report)  
See references of WO 2008059170A2

Citation (examination)

- WO 0064830 A1 20001102 - FRAUNHOFER GES FORSCHUNG [DE], et al
- CHANG DONG SOOK ET AL: "FABRICATION OF UNIFORMLY NANO-SIZED MACROPOROUS SILICA STRUCTURE USING TEMPLATES", KEY ENGINEERING MATER, TRANS TECH PUBLICATIONS LTD., STAFÄ-ZÜRICH, CH, vol. 317-318, 1 January 2006 (2006-01-01), pages 729 - 732, XP009085304, ISSN: 1013-9826

Cited by  
CN112639162A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**FR 2908406 A1 20080516; FR 2908406 B1 20120824**; BR PI0718842 A2 20140204; CN 101626989 A 20100113; CN 101626989 B 20140924; CN 103553357 A 20140205; CN 103553357 B 20170517; CN 103921507 A 20140716; EP 2089331 A2 20090819; EP 2423171 A1 20120229; EP 2423172 A1 20120229; EP 2423172 B1 20190313; EP 2423173 A1 20120229; EP 2423173 B1 20190313; ES 2729269 T3 20191031; JP 2010509175 A 20100325; JP 2015120632 A 20150702; JP 5689600 B2 20150325; JP 6212471 B2 20171011; KR 101485891 B1 20150126; KR 20090082217 A 20090729; MX 2009005072 A 20090615; PL 2423172 T3 20190930; PT 2423172 T 20190614; SI 2423172 T1 20190628; TR 201908183 T4 20190621; US 2010101649 A1 20100429; WO 2008059170 A2 20080522; WO 2008059170 A3 20081002

DOCDB simple family (application)  
**FR 0654886 A 20061114**; BR PI0718842 A 20071113; CN 200780049839 A 20071113; CN 201310408178 A 20071113; CN 201410129936 A 20071113; EP 07858693 A 20071113; EP 11187873 A 20071113; EP 11187876 A 20071113; EP 11187878 A 20071113; ES 11187876 T 20071113; FR 2007052336 W 20071113; JP 2009536775 A 20071113; JP 2014241698 A 20141128; KR 20097009831 A 20071113; MX 2009005072 A 20071113; PL 11187876 T 20071113; PT 11187876 T 20071113; SI 200732112 T 20071113; TR 201908183 T 20071113; US 51436107 A 20071113