

Title (en)
ALKALI-STABLE SOL-GEL COATING

Title (de)
ALKALISTABILE SOL-GEL-BECHICHTUNG

Title (fr)
REVETEMENT SOL-GEL STABLE AUX ALCALINS

Publication
EP 1891176 A1 20080227 (DE)

Application
EP 06742406 A 20060612

Priority
• DE 2006001002 W 20060612
• DE 102005027789 A 20050615

Abstract (en)
[origin: CA2611868A1] The invention relates to alkali-stable sol-gel coatings, to a method for producing alkali-stable sol-gel coatings, and to the use thereof. According to the invention, in order to obtain alkali-stable sol-gel coatings, the coating contains the following: a hydrolysable silane of the compounds TEOS, MTEOS or higher-chained alkyl silanes (bifunctional, trifunctional and tetrafunctional silanes), but preferably TEOS, MTEOS or mixtures thereof; and a condensation catalyst based on a) secondary or tertiary bases (e.g. amino, mercaptosilanes) and/or b) Lewis acids as metal alkoxides such as aluminium alkoxides, zirconium alkoxides, and titanium alkoxides, the ratio (in wt. %) of the hydrolysable silane to the condensation catalyst being between 99:1 and 70:30.

IPC 8 full level
C09D 183/06 (2006.01)

CPC (source: EP KR US)
C09D 183/00 (2013.01 - KR); **C09D 183/04** (2013.01 - EP KR US); **C09D 183/06** (2013.01 - KR); **C09D 183/08** (2013.01 - EP US)

Citation (search report)
See references of WO 2006133677A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102005027789 A1 20061221; CA 2611868 A1 20061221; CN 101218317 A 20080709; EP 1891176 A1 20080227; JP 2008543994 A 20081204; KR 20080022577 A 20080311; US 2009238986 A1 20090924; WO 2006133677 A1 20061221

DOCDB simple family (application)
DE 102005027789 A 20050615; CA 2611868 A 20060612; CN 200680024766 A 20060612; DE 2006001002 W 20060612; EP 06742406 A 20060612; JP 2008516118 A 20060612; KR 20087001043 A 20080114; US 92229706 A 20060612