

Title (en)  
SELF-CLEANING COMPOSITE MATERIAL FOR PRODUCING MOLDED KITCHEN AND BATHROOM INTERIOR DECORATION ITEMS

Title (de)  
SELBSTSTREINIGENDER VERBUNDWERKSTOFF ZUR HERSTELLUNG VON GEFORMTEN KÜCHEN- UND  
BADEZIMMERINNENDEKORATIONSARTIKELN

Title (fr)  
MATÉRIAU COMPOSITE AUTO-NETTOYANT POUR LA PRODUCTION D'ARTICLES DE DÉCORATION INTÉRIEURE DE CUISINES ET DE  
SALLES DE BAIN

Publication  
**EP 3292167 B8 20190612 (EN)**

Application  
**EP 16725043 A 20160502**

Priority  
• IT UB20150293 A 20150506  
• EP 2016059737 W 20160502

Abstract (en)  
[origin: WO2016177662A1] A self-cleaning composite material comprising the following composition: 50%-85% in weight of alumina trihydrate (ATH)-based mineral charges; 10%-30% of cross-linking polymer comprising polyester resin; photocatalytic Titanium Dioxide (TiO<sub>2</sub>) dispersed in the cross- linking polymer in a weight percentage from 0.05% to 5% with respect to the weight of the cross-linking polymer; compatibilizing agent for anchoring between the photocatalytic TiO<sub>2</sub> and the cross-linking polymer, wherein said anchoring compatibilizing agent of the TiO<sub>2</sub> is silane; and cross-linking monomers in order to obtain the reticulation of the cross- linking polymer by means of thermal or chemical polymerization.

IPC 8 full level  
**C08K 3/22** (2006.01); **C08K 5/00** (2006.01); **C08K 5/103** (2006.01); **C08K 5/5415** (2006.01)

CPC (source: EP RU US)  
**B29C 51/12** (2013.01 - RU); **C04B 26/18** (2013.01 - EP); **C08F 2/01** (2013.01 - US); **C08F 2/44** (2013.01 - RU); **C08K 3/08** (2013.01 - US); **C08K 3/22** (2013.01 - EP RU US); **C08K 3/34** (2013.01 - RU); **C08K 3/36** (2013.01 - RU); **C08K 5/0025** (2013.01 - EP US); **C08K 5/103** (2013.01 - EP US); **C08K 5/5415** (2013.01 - EP RU US); **C08L 67/06** (2013.01 - RU US); **C04B 2111/00965** (2013.01 - EP); **C04B 2111/54** (2013.01 - EP); **C08K 2003/0812** (2013.01 - US); **C08K 2003/2227** (2013.01 - EP US); **C08K 2003/2241** (2013.01 - EP US); **C08K 2201/005** (2013.01 - US)

C-Set (source: EP US)  
EP  
1. **C08K 3/22 + C08L 67/06**  
2. **C08K 5/5415 + C08L 67/06**  
3. **C08K 5/103 + C08L 67/06**  
4. **C08K 5/0025 + C08L 67/06**  
5. **C04B 26/18 + C04B 14/303 + C04B 14/305 + C04B 20/008 + C04B 20/1051**  
US  
1. **C08K 3/22 + C08L 67/06**  
2. **C08K 5/5415 + C08L 67/06**  
3. **C08K 5/103 + C08L 67/06**  
4. **C08K 5/0025 + C08L 67/06**

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2016177662 A1 20161110**; CN 107567479 A 20180109; CN 107567479 B 20200410; EP 3292167 A1 20180314; EP 3292167 B1 20190123; EP 3292167 B8 20190612; ES 2732471 T3 20191122; IL 255281 A0 20171231; IT UB20150293 A1 20161106; PL 3292167 T3 20190731; RS 58569 B1 20190531; RU 2687917 C1 20190516; SI 3292167 T1 20190531; US 10519294 B2 20191231; US 2018127563 A1 20180510

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