

Title (en)  
SIC/GLASS-CERAMIC COMPOSITE FILTER

Title (de)  
SIC/GLAS-KERAMIKVERBUNDFILTER

Title (fr)  
FILTRE COMPOSITE SIC-VITROCERAMIQUE

Publication  
**EP 2282824 A1 20110216 (FR)**

Application  
**EP 09766038 A 20090519**

Priority  
• FR 2009050931 W 20090519  
• FR 0853341 A 20080522

Abstract (en)  
[origin: WO2009153476A1] The invention relates to a filter, the filtering part of which is made from an inorganic material comprising SiC particles bound together by a phase of the glass-ceramic type, so as to form a porous structure having an open porosity of between 20 and 70%, said glass-ceramic binding phase comprising at least the following constituents, in molar percent in relation to all the oxides present in the phase: 30% to 80% SiO<sub>2</sub>; 5% to 45% Al<sub>2</sub>O<sub>3</sub>; and 10% to 45% MO, MO representing an oxide of a divalent cation or the sum of the oxides of divalent cations present in said glass-ceramic phase, M preferably being chosen from Ca, Ba, Mg and Sr, said glass-ceramic phase having a residual glassy phase volume percent of less than 20%.

IPC 8 full level  
**B01D 39/20** (2006.01); **C04B 35/565** (2006.01)

CPC (source: EP KR US)  
**B01D 39/20** (2013.01 - KR); **B01D 39/2075** (2013.01 - EP US); **B01J 35/56** (2024.01 - KR); **C03C 10/0036** (2013.01 - EP US); **C03C 10/0045** (2013.01 - EP US); **C03C 10/0054** (2013.01 - EP US); **C04B 35/565** (2013.01 - EP KR US); **C04B 35/6263** (2013.01 - EP US); **C04B 38/0006** (2013.01 - EP US); **F01N 3/022** (2013.01 - KR); **C04B 2111/00793** (2013.01 - EP US); **C04B 2235/3201** (2013.01 - EP US); **C04B 2235/3206** (2013.01 - EP US); **C04B 2235/3208** (2013.01 - EP US); **C04B 2235/3213** (2013.01 - EP US); **C04B 2235/3215** (2013.01 - EP US); **C04B 2235/3217** (2013.01 - EP US); **C04B 2235/3244** (2013.01 - EP US); **C04B 2235/3272** (2013.01 - EP US); **C04B 2235/3409** (2013.01 - EP US); **C04B 2235/3418** (2013.01 - EP US); **C04B 2235/3463** (2013.01 - EP US); **C04B 2235/3481** (2013.01 - EP US); **C04B 2235/36** (2013.01 - EP US); **C04B 2235/447** (2013.01 - EP US); **C04B 2235/5436** (2013.01 - EP US); **C04B 2235/5445** (2013.01 - EP US); **C04B 2235/5472** (2013.01 - EP US); **C04B 2235/6562** (2013.01 - EP US); **C04B 2235/6565** (2013.01 - EP US); **C04B 2235/6567** (2013.01 - EP US); **C04B 2235/77** (2013.01 - EP US); **C04B 2235/80** (2013.01 - EP US); **C04B 2235/96** (2013.01 - EP US); **C04B 2235/9607** (2013.01 - EP US)

C-Set (source: EP US)  
**C04B 38/0006 + C04B 35/565 + C04B 38/0016 + C04B 38/0058 + C04B 38/0074**

Cited by  
CN110734277A

Designated contracting state (EPC)  
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 SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2009153476 A1 20091223**; EP 2282824 A1 20110216; FR 2931366 A1 20091127; FR 2931366 B1 20110121; JP 2011520605 A 20110721; KR 20110020772 A 20110303; US 2011185690 A1 20110804

DOCDB simple family (application)  
**FR 2009050931 W 20090519**; EP 09766038 A 20090519; FR 0853341 A 20080522; JP 2011510030 A 20090519; KR 20107025836 A 20090519; US 99370109 A 20090519