

Title (en)  
REFRACTORY PRODUCT BASED ON THE OXIDES OF CHROMIUM, ZIRCONIUM AND HAFNIUM

Title (de)  
FEUERFESTES PRODUKT AUF DER BASIS VON CHROM-, ZIRCONIUM- UND HAFNIUMOXID

Title (fr)  
PRODUIT RÉFRACTAIRE D'OXYDES DE CHROME, DE ZIRCONIUM ET D'HAFNIUM

Publication  
**EP 2697182 A1 20140219 (FR)**

Application  
**EP 12718403 A 20120413**

Priority  

- FR 1153308 A 20110415
- FR 1162379 A 20111223
- IB 2012051848 W 20120413

Abstract (en)  
[origin: WO2012140624A1] Sintered refractory product comprising, in percentages by weight on the basis of the oxides, - more than 10% of chromium oxide Cr<sub>2</sub>O<sub>3</sub>, - more than 2% of hafnium oxide HfO<sub>2</sub>, - more than 1% of zirconium oxide ZrO<sub>2</sub>, the total content of chromium, hafnium and zirconium oxides Cr<sub>2</sub>O<sub>3</sub> + HfO<sub>2</sub> + ZrO<sub>2</sub> being greater than 70%.

IPC 8 full level  
**C04B 35/10** (2006.01); **C04B 35/12** (2006.01); **C04B 35/482** (2006.01); **C04B 35/49** (2006.01); **C04B 35/626** (2006.01); **C04B 35/628** (2006.01); **C04B 35/66** (2006.01); **C10J 3/72** (2006.01); **C10J 3/74** (2006.01); **F22B 1/18** (2006.01); **F27D 1/00** (2006.01)

CPC (source: EP KR US)  
**C04B 35/10** (2013.01 - US); **C04B 35/12** (2013.01 - EP KR US); **C04B 35/42** (2013.01 - KR); **C04B 35/48** (2013.01 - KR); **C04B 35/482** (2013.01 - EP US); **C04B 35/49** (2013.01 - US); **C04B 35/62665** (2013.01 - EP US); **C04B 35/62695** (2013.01 - EP US); **C04B 35/62823** (2013.01 - EP US); **C04B 35/66** (2013.01 - EP US); **C10J 3/72** (2013.01 - EP US); **C10J 3/74** (2013.01 - EP US); **F22B 1/18** (2013.01 - EP KR US); **F27D 1/0006** (2013.01 - EP US); **C04B 2235/3206** (2013.01 - EP US); **C04B 2235/3208** (2013.01 - EP US); **C04B 2235/3217** (2013.01 - EP US); **C04B 2235/3225** (2013.01 - EP US); **C04B 2235/3232** (2013.01 - EP US); **C04B 2235/3241** (2013.01 - EP US); **C04B 2235/3244** (2013.01 - EP US); **C04B 2235/3246** (2013.01 - EP US); **C04B 2235/3418** (2013.01 - EP US); **C04B 2235/349** (2013.01 - EP US); **C04B 2235/5427** (2013.01 - EP US); **C04B 2235/5436** (2013.01 - EP US); **C04B 2235/5472** (2013.01 - EP US); **C04B 2235/762** (2013.01 - EP US); **C04B 2235/77** (2013.01 - EP US); **C04B 2235/96** (2013.01 - EP US); **C04B 2235/9692** (2013.01 - EP US)

Citation (search report)  
See references of WO 2012140624A1

Citation (examination)  

- WO 2014060940 A1 20140424 - SAINT GOBAIN CT RECHERCHES [FR]
- US 2006211566 A1 20060921 - CHAMPION THIBAUT P P [FR], et al

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 2012140624 A1 20121018**; CN 103476731 A 20131225; CN 103476731 B 20160817; EA 201391300 A1 20140430; EP 2697182 A1 20140219; FR 2974081 A1 20121019; FR 2974081 B1 20160226; FR 2974082 A1 20121019; FR 2974082 B1 20160226; KR 101564691 B1 20151030; KR 20130140196 A 20131223; US 2014030163 A1 20140130; ZA 201307424 B 20150429

DOCDB simple family (application)  
**IB 2012051848 W 20120413**; CN 201280018468 A 20120413; EA 201391300 A 20120413; EP 12718403 A 20120413; FR 1153308 A 20110415; FR 1162379 A 20111223; KR 20137030283 A 20120413; US 201214111337 A 20120413; ZA 201307424 A 20131003