

Title (en)

METHOD FOR PRODUCING FABRICATED PARTS BASED ON BETA-SiC FOR USING IN AGGRESSIVE MEDIA

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ROHTEILEN AUF BETA-SiC-BASIS ZUR VERWENDUNG FÜR AGGRESSIVE MEDIEN

Title (fr)

PROCEDE DE FABRICATION DE PIECES DE FORME A BASE DE BETA-SiC POUR UTILISATION DANS DES MILIEUX AGRESSIFS

Publication

EP 1751077 A2 20070214 (FR)

Application

EP 05770958 A 20050510

Priority

- FR 2005001163 W 20050510
- FR 0405284 A 20040514

Abstract (en)

[origin: WO2005121044A2] The invention relates to a method for producing a composite material based on beta -SiC, said method comprising the following steps: (a) a precursor mixture is prepared, said mixture comprising at least one beta -SiC precursor with at least one, preferably thermosetting, carbonated resin, (b) the precursor mixture is fabricated, especially in the form of granulated material, plates, tubes or bricks, in order to form an intermediate part; (c) the resin is polymerised; (d) said intermediate parts are introduced into a receptacle; (e) said receptacle is closed by a closing means in such a way that an over-pressure can escape; and (f) the intermediate parts are thermally treated at a temperature of between 1100 and 1500 DEG C in order to eliminate the organic constituents of the resin and to form beta -SiC in the final part.

IPC 8 full level

C04B 35/573 (2006.01); **C04B 35/571** (2006.01); **C04B 35/80** (2006.01); **C25C 3/08** (2006.01); **F23G 5/48** (2006.01); **F23M 5/00** (2006.01)

CPC (source: EP US)

C04B 35/565 (2013.01 - EP US); **C04B 35/571** (2013.01 - EP US); **C04B 35/573** (2013.01 - EP US); **C04B 35/80** (2013.01 - EP US); **C25C 3/085** (2013.01 - EP US); **F23M 5/00** (2013.01 - EP US); **C04B 2235/3217** (2013.01 - EP US); **C04B 2235/3418** (2013.01 - EP US); **C04B 2235/383** (2013.01 - EP US); **C04B 2235/3834** (2013.01 - EP US); **C04B 2235/3873** (2013.01 - EP US); **C04B 2235/3886** (2013.01 - EP US); **C04B 2235/424** (2013.01 - EP US); **C04B 2235/428** (2013.01 - EP US); **C04B 2235/48** (2013.01 - EP US); **C04B 2235/5244** (2013.01 - EP US); **C04B 2235/526** (2013.01 - EP US); **C04B 2235/5427** (2013.01 - EP US); **C04B 2235/5436** (2013.01 - EP US); **C04B 2235/6021** (2013.01 - EP US); **C04B 2235/658** (2013.01 - EP US); **C04B 2235/6587** (2013.01 - EP US); **C04B 2235/762** (2013.01 - EP US); **C04B 2235/767** (2013.01 - EP US); **C04B 2235/77** (2013.01 - EP US); **C04B 2235/80** (2013.01 - EP US); **C04B 2235/94** (2013.01 - EP US); **C04B 2235/95** (2013.01 - EP US); **C04B 2235/9692** (2013.01 - EP US); **F23M 2900/05004** (2013.01 - EP US)

Citation (search report)

See references of WO 2005121044A2

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

FR 2870233 A1 20051118; **FR 2870233 B1 20061201**; AU 2005251983 A1 20051222; AU 2005251983 B2 20100408; CA 2566869 A1 20051222; CN 100579934 C 20100113; CN 1980871 A 20070613; EP 1751077 A2 20070214; RU 2006144450 A 20080620; RU 2375331 C2 20091210; US 2008095692 A1 20080424; WO 2005121044 A2 20051222; WO 2005121044 A3 20060608; WO 2005121044 A8 20061228

DOCDB simple family (application)

FR 0405284 A 20040514; AU 2005251983 A 20050510; CA 2566869 A 20050510; CN 200580015502 A 20050510; EP 05770958 A 20050510; FR 2005001163 W 20050510; RU 2006144450 A 20050510; US 56910305 A 20050510