

Title (en)

CERMET MATERIALS AND METHOD FOR MAKING SUCH MATERIALS

Title (de)

CERMETMATERIALIEN UND VERFAHREN ZUR HERSTELLUNG SOLCHER MATERIALIEN

Title (fr)

MATERIAUX EN CERMET ET PROCEDE DE FABRICATION DE TELS MATERIAUX

Publication

**EP 3256279 B1 20190501 (FR)**

Application

**EP 16707872 A 20160205**

Priority

- FR 1551002 A 20150209
- FR 2016050249 W 20160205

Abstract (en)

[origin: WO2016128653A1] The invention relates to a cermet material comprising a first phase MAX having the general formula  $Tin+1AlCn$  and a second intermetallic phase having the general formula  $TixAly$ , where n equals 1 or 2, x is between 1 and 3, y is between 1 and 3, and  $x + y \leq 4$ . The proportion by volume of the first phase in the material is between 70% and 95%. The proportion by volume of the second phase in the material is between 30% and 5%. The void ratio is less than 5%.

IPC 8 full level

**B22F 3/14** (2006.01); **C22C 1/05** (2006.01); **C22C 29/06** (2006.01); **C22C 29/02** (2006.01); **C22C 29/16** (2006.01)

CPC (source: CN EP US)

**C22C 1/051** (2013.01 - EP US); **C22C 1/058** (2023.01 - CN EP US); **C22C 29/06** (2013.01 - CN EP US); **C22C 29/067** (2013.01 - EP US); **B22F 3/14** (2013.01 - EP US); **B22F 2998/10** (2013.01 - CN EP US); **B22F 2999/00** (2013.01 - EP US); **C22C 29/02** (2013.01 - EP US); **C22C 29/16** (2013.01 - EP US)

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)

**FR 3032449 A1 20160812**; **FR 3032449 B1 20170127**; CN 107257866 A 20171017; EP 3256279 A1 20171220; EP 3256279 B1 20190501; JP 2018510112 A 20180412; JP 6918697 B2 20210811; US 10920302 B2 20210216; US 2018057914 A1 20180301; WO 2016128653 A1 20160818

DOCDB simple family (application)

**FR 1551002 A 20150209**; CN 201680009188 A 20160205; EP 16707872 A 20160205; FR 2016050249 W 20160205; JP 2017541012 A 20160205; US 201615547341 A 20160205