

Title (en)

PROCESS FOR PRODUCING REFRACTORY CERAMICS FOR GAS TURBINE PLANTS

Title (de)

VERFAHREN ZUM HERSTELLEN VON FEUERFESTKERAMIKEN FÜR GASTURBINENANLAGEN

Title (fr)

PROCÉDÉ DE FABRICATION DE CÉRAMIQUES RÉFRACTAIRES POUR INSTALLATIONS DE TURBINE À GAZ

Publication

EP 2750844 A1 20140709 (DE)

Application

EP 12748202 A 20120814

Priority

- DE 102011081847 A 20110831
- EP 2012065846 W 20120814

Abstract (en)

[origin: WO2013029980A1] The invention relates to a process for producing refractory ceramics (K) for use as heat shield in the hot gas path of gas turbine plants, which comprises the steps: ° - introduction of a casting composition into a component casting mould for the refractory ceramic (K), ° - closing of the casting mould so that the casting composition is under a defined static pressure after closure, ° - oriented vibration of the casting mould in the direction (V) of a normal (N) to a surface of the refractory ceramic (K) to be produced, which is required to meet particular quality requirements for use as heat shield, and ° - subsequent removal from the mould and firing of the cast component.

IPC 8 full level

B28B 1/087 (2006.01); **B28B 3/02** (2006.01); **F23R 3/00** (2006.01)

CPC (source: EP US)

B28B 1/087 (2013.01 - EP US); **B28B 1/14** (2013.01 - US); **B28B 3/022** (2013.01 - EP US); **B28B 11/243** (2013.01 - US); **B30B 11/022** (2013.01 - EP US); **F23R 3/002** (2013.01 - US); **F23R 3/007** (2013.01 - EP US)

Citation (search report)

See references of WO 2013029980A1

Citation (examination)

- EP 2168935 A1 20100331 - SIEMENS AG [DE]
- FR 2261865 A1 19750919 - INST P RABOT OGNEUP [SU]
- DE 563358 C 19321104 - KOPPERS AG HEINRICH

Cited by

CN114484506A

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)

DE 102011081847 A1 20130228; EP 2750844 A1 20140709; EP 3120982 A2 20170125; EP 3120982 A3 20170308; RU 2014112056 A 20151010; US 2014165573 A1 20140619; WO 2013029980 A1 20130307

DOCDB simple family (application)

DE 102011081847 A 20110831; EP 12748202 A 20120814; EP 16001473 A 20120814; EP 2012065846 W 20120814; RU 2014112056 A 20120814; US 201214240179 A 20120814