

Title (en)

MOLDING SAND INCLUDING GRAPHITE NANOPARTICLES AND MOLD MADE OF SUCH A MOLDING SAND

Title (de)

FORMSAND MIT GRAPHITNANOPARTIKELN UND AUS SOLCH EINEM FORMSAND HERGESTELLTE FORM

Title (fr)

SABLE DE MOULAGE COMPRENANT DES NANOPARTICULES DE GRAPHITE ET MOULE FABRIQUÉ À PARTIR D'UN TEL SABLE DE MOULAGE

Publication

EP 3366385 A1 20180829 (EN)

Application

EP 17305219 A 20170228

Priority

EP 17305219 A 20170228

Abstract (en)

Molding sand (5) comprising: - Quartz sand (6); - A binder (7) including sodium or potassium silicate and graphite nanoparticles; - A radical initiator (8).

IPC 8 full level

B22C 1/02 (2006.01); **B22C 9/02** (2006.01); **B22D 21/00** (2006.01)

CPC (source: EP)

B22C 1/02 (2013.01); **B22C 1/188** (2013.01); **B22C 9/02** (2013.01)

Citation (applicant)

- WO 2012175883 A1 20121227 - SNECMA [FR], et al
- FR 2138358 A1 19730105 - MESSIER FA

Citation (search report)

- [X] CN 105414465 A 20160323 - HEFEI LINUO NEW MAT TRADE CO LTD
- [I] CN 104057017 A 20140924 - ANHUI XINRUN NEW MATERIALS CO LTD
- [A] "Microwaves in Nanoparticle Synthesis", 24 April 2013, WILEY-VCH VERLAG GMBH & CO. KGAA, Weinheim, Germany, ISBN: 978-3-52-733197-0, article SATOSHI HORIKOSHI ET AL: "Introduction to Nanoparticles", pages: 1 - 24, XP055198443, DOI: 10.1002/9783527648122.ch1
- [A] "Nanotechnologies - Vocabulary - Part 2: Nano-objects", ISO TS 80004-2:2015, IEC, 3, RUE DE VAREMBÉ, PO BOX 131, CH-1211 GENEVA 20, SWITZERLAND, 4 January 2015 (2015-01-04), pages 1 - 10, XP082006389
- [X] J. ZYCH ET AL: "Thermal Conductivity of Moulding Sand with Chemical Binders, Attempts of its Increasing", ARCHIVES OF METALLURGY AND MATERIALS, vol. 60, no. 1, 1 January 2015 (2015-01-01), Poland, XP055393704, ISSN: 1733-3490, DOI: 10.1515/amm-2015-0058

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3366385 A1 20180829

DOCDB simple family (application)

EP 17305219 A 20170228