

Title (en)
MOULDING OR CORE SANDMIX

Title (de)
FORM- ODER KERNSANDMISCHUNG

Title (fr)
MÉLANGE SABLEUX DE MOULAGE OU DE NOYAU

Publication
EP 3524372 A1 20190814 (EN)

Application
EP 18202842 A 20181026

Priority
• PL 42453418 A 20180208
• PL 42453318 A 20180208

Abstract (en)
The moulding or core sandmix with inorganic binder, the matrix of which is the fireproof granular material, which contains the inorganic loosening additive and possibly a hardener, which is characterized by this, that as a loosening additive it contains fine-grained vermiculite, a material which is a magnesium, iron and lithium hydrated aluminosilicate or fine-grained pearlite ore which is a transformed igneous rock in a form of potassium-sodium aluminosilicate glass.

IPC 8 full level
B22C 1/02 (2006.01); **B22C 1/18** (2006.01); **B22C 9/02** (2006.01)

CPC (source: EP)
B22C 1/02 (2013.01); **B22C 1/188** (2013.01); **B22C 9/02** (2013.01)

Citation (applicant)
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• PL 128721 B1 19840229
• PL 166929 B1 19950731 - AKAD GORNICZO HUTNICZA [PL]
• PL 206691 B1 20100930 - AKAD GORNICZO HUTNICZA [PL]
• A. BOBROWSKI; A. KMITA; M. STAROWICZ; B. STYPUTA; B. HUTERA: "Effect of magnesium oxide nanoparticles on water glass structure", ARCHIVES OF FOUNDRY ENGINEERING, vol. 12, no. 3, 2012, pages 9 - 12
• A. BOBROWSKI; B. STYPUTA; B. HUTERA; A. KMITA; D. DROZYRISKI; M. STAROWICZ: "FTIR spectroscopy of water glass - the binder moulding modified by ZnO nanoparticles", METALURGIJA = METALLURGY, vol. 51, no. 4, 2012, pages 477 - 480

Citation (search report)
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• [X] ST. M DOBOSZ ET AL: "Development tendencies of moulding and core sands", CHINA FOUNDRY, vol. 8, no. 4, 1 November 2011 (2011-11-01), pages 438 - 446, XP055177917
• [X] "Sand mould additive which promotes disintegration after use - consists of unsintered high temp. expandable clay mineral", WPI / THOMSON,, vol. 1977, no. 1, 18 November 1976 (1976-11-18), XP002680293

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 3524372 A1 20190814

DOCDB simple family (application)
EP 18202842 A 20181026