

Title (en)

REFRACTORY COMPOUND AND BINDER THEREFOR, METHOD FOR THE PRODUCTION AND USE THEREOF

Title (de)

FEUERFESTMASSE UND BINDEMittel DAFÜR, VERFAHREN ZU DEREN HERSTELLUNG SOWIE VERWENDUNG

Title (fr)

MASSE RÉFRACTAIRE ET AGENT LIANT POUR CELLE-CI, PROCÉDÉ POUR SA PRODUCTION AINSI QU'UTILISATION

Publication

EP 3927673 A2 20211229 (DE)

Application

EP 20709506 A 20200220

Priority

- DE 102019001214 A 20190220
- DE 202019003290 U 20190807
- EP 2020054551 W 20200220

Abstract (en)

[origin: WO2020169772A2] The invention relates to an unshaped refractory compound, in particular a casting compound, gunning compound and/or free-flowing compound, comprising a bond system, which forms upon addition of water, and a dry micro-scale amorphous SiO₂- binder as the sole binder, which is mixed in a proportion of ≤ 1% by weight of the total mass with the solid components to be bonded and forms the bond system after addition of 1-30% by weight of water. The invention further relates to a method for producing refractory compounds and a use of microcrystalline amorphous silicon dioxide in the production of refractory compounds.

IPC 8 full level

C04B 28/24 (2006.01); **C04B 30/00** (2006.01); **C04B 35/66** (2006.01)

CPC (source: EP)

C04B 28/24 (2013.01); **C04B 30/00** (2013.01); **C04B 35/101** (2013.01); **C04B 35/18** (2013.01); **C04B 35/624** (2013.01); **C04B 35/6263** (2013.01); **C04B 35/62655** (2013.01); **C04B 35/62665** (2013.01); **C04B 35/6316** (2013.01); **C04B 35/66** (2013.01); **C04B 2111/00431** (2013.01); **C04B 2235/3206** (2013.01); **C04B 2235/3222** (2013.01); **C04B 2235/3418** (2013.01); **C04B 2235/5212** (2013.01); **C04B 2235/5409** (2013.01); **C04B 2235/5436** (2013.01); **C04B 2235/5463** (2013.01); **C04B 2235/72** (2013.01); **C04B 2235/94** (2013.01); **C04B 2235/96** (2013.01)

C-Set (source: EP)

1. **C04B 28/24 + C04B 14/041 + C04B 14/042 + C04B 14/06 + C04B 14/10 + C04B 14/303 + C04B 14/304 + C04B 14/324 + C04B 18/025 + C04B 2103/12 + C04B 2103/22 + C04B 2103/30**
2. **C04B 30/00 + C04B 14/041 + C04B 14/042 + C04B 14/06 + C04B 14/062 + C04B 14/10 + C04B 14/303 + C04B 14/304 + C04B 14/324 + C04B 18/025 + C04B 2103/12 + C04B 2103/22 + C04B 2103/30**

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)

WO 2020169772 A2 20200827; **WO 2020169772 A3 20201112**; BR 112021015523 A2 20211005; EP 3927673 A2 20211229; MX 2021009952 A 20211013; ZA 202106305 B 20231220

DOCDB simple family (application)

EP 2020054551 W 20200220; BR 112021015523 A 20200220; EP 20709506 A 20200220; MX 2021009952 A 20200220; ZA 202106305 A 20210830