

## Title (en)

MOULD MATERIAL MIXTURE HAVING IMPROVED FLOWABILITY

## Title (de)

FORMSTOFFMISCHUNG MIT VERBESSERTER FLIESSFÄHIGKEIT

## Title (fr)

MÉLANGE DE MATÉRIAUX DE MOULAGE DE FLUIDITÉ AMÉLIORÉE

## Publication

**EP 2209572 B1 20161214 (DE)**

## Application

**EP 08843523 A 20081030**

## Priority

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- DE 102007051850 A 20071030

## Abstract (en)

[origin: WO2009056320A1] The invention relates to a mould material mixture for producing casting moulds for metal processing, a process for producing casting moulds, casting moulds which can be obtained by the process and their use. The production of the casting moulds is carried out using a refractory base moulding material and a binder based on water glass. A proportion of a particulate metal oxide selected from the group consisting of silicon dioxide, aluminium oxide, titanium oxide and zinc oxide is added to the binder, with particular preference being given to using synthetic amorphous silicon dioxide. The mould material mixture contains a surface-active material as further significant constituent. The addition of the surface-active material enables the flowability of the mould material mixture to be improved, which makes it possible to produce casting moulds having a very complicated geometry.

## IPC 8 full level

**B22C 1/04** (2006.01); **B22C 1/16** (2006.01); **B22C 1/18** (2006.01); **B22C 1/24** (2006.01); **B22C 1/26** (2006.01); **B22C 9/12** (2006.01)

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## Citation (opposition)

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## Designated contracting state (EPC)

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**DE 102007051850 A1 20090507**; BR PI0818221 A2 20200818; BR PI0818221 B1 20210928; CN 101842175 A 20100922; CN 104923716 A 20150923; DE 202008017975 U1 20110127; DK 2209572 T3 20170320; EA 022102 B1 20151130; EA 201070531 A1 20101029; EP 2209572 A1 20100728; EP 2209572 B1 20161214; ES 2615309 T3 20170606; HU E031653 T2 20170728; JP 2011500330 A 20110106; JP 5557289 B2 20140723; KR 101599895 B1 20160304; KR 20100093546 A 20100825; MX 2010004719 A 20100609; MX 338410 B 20160414; PL 2209572 T3 20170630; UA 100030 C2 20121112; US 10232430 B2 20190319; US 2010326620 A1 20101230; US 2016059301 A1 20160303; WO 2009056320 A1 20090507; ZA 201002973 B 20110330

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