

Title (en)  
METHOD AND DEVICE BY WHICH MOULDING COMPOUND TO BE PROCESSED IS KEPT MOIST DURING THE PRODUCTION OF CORES

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM FEUCHTHALTEN VON ZU VERARBEITENDEM FORMSTOFF BEI DER HERSTELLUNG VON KERNEN

Title (fr)  
PROCÉDÉ ET DISPOSITIF PERMETTANT DE MAINTENIR HUMIDE UN MATÉRIAU DE FORMAGE À TRAITER LORS DE LA FABRICATION DE NOYAUX

Publication  
**EP 2563537 B2 20190911 (DE)**

Application  
**EP 11713707 A 20110408**

Priority

- DE 102010018751 A 20100429
- EP 2011001757 W 20110408

Abstract (en)  
[origin: WO2011134598A1] In order to produce moulds or cores for foundry purposes from a mixture (M) of moulding compound or sand and at least one binder, the mixture is mixed (M) by means of a mixing device (20) and is fed with the aid of a feeding system (30) to at least one sand storage unit (40) of a core or mould production device (50), wherein the mixture-free region (21) of the mixing device (20), at least at times, and/or the feeding system (30) located between the mixing device (20) and the core or mould production device (50), and/or the sand storage unit (40) downstream of the feeding system (30) and upstream of the core or mould production device (50), is moistened or kept moist by means of a liquid (71), wherein the liquid (71) used for moistening is atomised by at least one ultrasonic atomiser (60) to form a suspended aerosol and is fed to the mixing device (20) and/or the feeding system (30) and/or the sand storage unit (40) via pipes (81, 82, 83).

IPC 8 full level  
**B22C 5/04** (2006.01); **B22C 19/00** (2006.01); **B22C 23/00** (2006.01); **B22C 15/24** (2006.01)

CPC (source: EP US)  
**B22C 5/04** (2013.01 - EP US); **B22C 19/00** (2013.01 - EP US); **B22C 23/00** (2013.01 - EP US); **B22C 15/24** (2013.01 - EP US)

Citation (opposition)  
Opponent :

- DE 1203919 B 19651028 - FISCHER AG GEORG
- DE 10144193 C1 20021031 - VAW MANDL & BERGER GMBH LINZ [AT]
- DE 102005057724 B3 20070201 - LAEMPE & MOESSNER GMBH [DE]

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**DE 102010018751 A1 20111103; DE 102010018751 B4 20150813**; AU 2011247371 A1 20121206; AU 2011247371 B2 20140814; BR 112012027621 A2 20160809; CN 102869464 A 20130109; DE 202011110835 U1 20160830; EP 2563537 A1 20130306; EP 2563537 B1 20160831; EP 2563537 B2 20190911; EP 3117928 A1 20170118; EP 3117928 B1 20190109; ES 2600508 T3 20170209; ES 2600508 T5 20200304; ES 2713461 T3 20190521; HU E043772 T2 20190930; JP 2013525116 A 20130620; JP 5744183 B2 20150701; MX 2012012332 A 20130305; PL 3117928 T3 20190628; RU 2012146853 A 20140610; RU 2557382 C2 20150720; TR 201902510 T4 20190321; UA 109784 C2 20151012; US 2013042989 A1 20130221; WO 2011134598 A1 20111103

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**DE 102010018751 A 20100429**; AU 2011247371 A 20110408; BR 112012027621 A 20110408; CN 201180021369 A 20110408; DE 202011110835 U 20110408; EP 11713707 A 20110408; EP 16184969 A 20110408; EP 2011001757 W 20110408; ES 11713707 T 20110408; ES 16184969 T 20110408; HU E16184969 A 20110408; JP 2013506521 A 20110408; MX 2012012332 A 20110408; PL 16184969 T 20110408; RU 2012146853 A 20110408; TR 201902510 T 20110408; UA A201213677 A 20110408; US 201113695446 A 20110408