

Title (en)
Thermal recovery of casting sand

Title (de)
Thermische Regenerierung von Giessereisand

Title (fr)
Régénération thermique de sable de coulée

Publication
EP 2329900 B1 20210707 (DE)

Application
EP 10015725 A 20080219

Priority
• DE 102007008149 A 20070219
• EP 08707774 A 20080219
• EP 2008001286 W 20080219

Abstract (en)
[origin: CA2678292A1] The invention relates to a method for regenerating used foundry sand, which is contaminated with soluble glass, wherein: used foundry sand is provided, which is tainted with a binding agent made of the soluble glass, to which a particle-shaped metal oxide is added; and the used foundry sand is subjected to a thermal treatment, wherein the foundry sand is heated to a temperature of at least 200°C, thereby obtaining regenerated foundry sand. The invention further relates to regenerated foundry sand, as that obtained from using the method.

IPC 8 full level
B22C 5/06 (2006.01); **B22C 5/08** (2006.01); **B22C 5/18** (2006.01)

CPC (source: EP KR US)
B22C 1/16 (2013.01 - KR); **B22C 5/00** (2013.01 - KR); **B22C 5/06** (2013.01 - EP KR US); **B22C 5/08** (2013.01 - KR);
B22C 5/085 (2013.01 - EP US)

Cited by
CN102825212A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102007008149 A1 20080821; AU 2008217190 A1 20080828; AU 2008217190 B2 20130613; AU 2008217190 C1 20131128;
BR PI0807534 A2 20140610; CA 2678292 A1 20080828; CA 2678292 C 20141028; CN 101663112 A 20100303; CN 101663112 B 20120627;
DE 202008018001 U1 20110414; EP 2117749 A1 20091118; EP 2117749 B1 20210526; EP 2329900 A2 20110608; EP 2329900 A3 20121212;
EP 2329900 B1 20210707; JP 2010519042 A 20100603; JP 5401325 B2 20140129; KR 101548219 B1 20150828; KR 20090113877 A 20091102;
MX 2009008857 A 20091110; PL 2117749 T3 20211122; PL 2329900 T3 20211220; RU 2009134089 A 20110327; RU 2496599 C2 20131027;
UA 100853 C2 20130211; US 2010173767 A1 20100708; US 9737927 B2 20170822; WO 2008101668 A1 20080828; ZA 200905640 B 20100428

DOCDB simple family (application)
DE 102007008149 A 20070219; AU 2008217190 A 20080219; BR PI0807534 A 20080219; CA 2678292 A 20080219;
CN 200880012575 A 20080219; DE 202008018001 U 20080219; EP 08707774 A 20080219; EP 10015725 A 20080219;
EP 2008001286 W 20080219; JP 2009549803 A 20080219; KR 20097018716 A 20080219; MX 2009008857 A 20080219;
PL 08707774 T 20080219; PL 10015725 T 20080219; RU 2009134089 A 20080219; UA A200909556 A 20080219; US 52768508 A 20080219;
ZA 200905640 A 20090814