

Title (en)

METHOD FOR COOLING A METALLURGICAL FURNACE

Title (de)

VERFAHREN ZUR KUEHLUNG EINES METALLURGISCHEN OFENS

Title (fr)

PROCÉDÉ DE REFROIDISSEMENT D'UN FOUR MÉTALLURGIQUE

Publication

**EP 2435772 B1 20180718 (DE)**

Application

**EP 10721488 A 20100521**

Priority

- EP 2010057041 W 20100521
- AT 8332009 A 20090528

Abstract (en)

[origin: WO2010136403A1] In a method for cooling a metallurgical furnace, comprising at least one cooling element through which a cooling medium flows, a cooling medium that contains at least one ionic fluid, and preferably consists thereof, is conducted through the cooling element, thereby preventing the problems that are associated with water cooling, such as the danger of hydrogen explosions and damage to the furnace lining.

IPC 8 full level

**F27B 3/24** (2006.01); **F27D 9/00** (2006.01)

CPC (source: EP KR US)

**F27B 3/24** (2013.01 - EP KR US); **F27D 9/00** (2013.01 - EP KR US); **F27D 2009/001** (2013.01 - EP KR US)

Citation (examination)

- US 2744742 A 19560508 - LORD ALBERT M
- WO 2007115827 A1 20071018 - SO & SO SOMMERHOFER OEG [AT], et al
- JP H07145414 A 19950606 - NIPPON KOKAN KK
- US 2275515 A 19420310 - DUNHAM GEORGE S

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 SE SI SK SM TR

DOCDB simple family (publication)

**WO 2010136403 A1 20101202**; AT 508292 A1 20101215; AT 508292 B1 20110315; AU 2010252063 A1 20111201; AU 2010252063 B2 20160616; BR PI1014692 A2 20160412; BR PI1014692 B1 20180206; CA 2763697 A1 20101202; CA 2763697 C 20180417; CL 2011002957 A1 20120608; CN 102460051 A 20120516; CO 6470831 A2 20120629; EP 2435772 A1 20120404; EP 2435772 B1 20180718; ES 2690740 T3 20181122; JP 2012528290 A 20121112; JP 5702367 B2 20150415; KR 101712685 B1 20170306; KR 20120030114 A 20120327; MX 2011012529 A 20120402; PE 20121068 A1 20120806; PL 2435772 T3 20181231; RU 2011153751 A 20130710; RU 2537479 C2 20150110; SI 2435772 T1 20181130; TR 201815282 T4 20181121; US 2012138271 A1 20120607; US 8992822 B2 20150331; ZA 201108407 B 20140430

DOCDB simple family (application)

**EP 2010057041 W 20100521**; AT 8332009 A 20090528; AU 2010252063 A 20100521; BR PI1014692 A 20100521; CA 2763697 A 20100521; CL 2011002957 A 20111123; CN 201080024610 A 20100521; CO 11161977 A 20111125; EP 10721488 A 20100521; ES 10721488 T 20100521; JP 2012512321 A 20100521; KR 20117031405 A 20100521; MX 2011012529 A 20100521; PE 2011002020 A 20100521; PL 10721488 T 20100521; RU 2011153751 A 20100521; SI 201031769 T 20100521; TR 201815282 T 20100521; US 201013322398 A 20100521; ZA 201108407 A 20111116