

Title (en)

FLOOR CASTING NOZZLE FOR ARRANGEMENT IN THE FLOOR OF A METALLURGICAL CONTAINER

Title (de)

BODENAUSSGUSSDÜSE FÜR DIE ANORDNUNG IM BODEN EINES METALLURGISCHEN GEFÄSSES

Title (fr)

BUSE DE COULÉE DE FOND DESTINÉE À ÊTRE DISPOSÉE DANS LE FOND D'UN RÉCIPIENT MÉTALLURGIQUE

Publication

**EP 2637814 A1 20130918 (DE)**

Application

**EP 11788766 A 20111025**

Priority

- DE 102010050936 A 20101111
- EP 2011005373 W 20111025

Abstract (en)

[origin: CA2754323A1] Bottom pouring nozzle for arrangement in or at a bottom of a metallurgical vessel, having an upper end, particularly for fitting to a metallurgical vessel or to a sliding gate of a metallurgical vessel and a lower end, whereby a throughflow channel is arranged in between both having at least a lower pouring opening arranged at the lower end, whereby the radially outermost surface of the wall of the throughflow opening is surrounded by a gastight housing, and is characterized in that the housing encases the lower end of the at least one pouring opening in a gastight manner.

IPC 8 full level

**B22D 41/50** (2006.01); **B22D 41/58** (2006.01)

CPC (source: EP KR US)

**B22D 41/50** (2013.01 - EP KR US); **B22D 41/58** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2012062414A1

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

DOCDB simple family (publication)

**DE 102010050936 A1 20120516**; AU 2011328557 A1 20130502; AU 2011328557 B2 20150205; BE 1019916 A5 20130205; BR 112013011578 A2 20160809; CA 2754323 A1 20120511; CA 2754323 C 20141216; CN 103228382 A 20130731; EP 2637814 A1 20130918; JP 2013542856 A 20131128; JP 5572266 B2 20140813; KR 20130100160 A 20130909; MX 2013005164 A 20130829; RU 2013121151 A 20141120; UA 107409 C2 20141225; US 2013233899 A1 20130912; WO 2012062414 A1 20120518; ZA 201303150 B 20140129

DOCDB simple family (application)

**DE 102010050936 A 20101111**; AU 2011328557 A 20111025; BE 201100274 A 20110505; BR 112013011578 A 20111025; CA 2754323 A 20111005; CN 201180054590 A 20111025; EP 11788766 A 20111025; EP 2011005373 W 20111025; JP 2013538090 A 20111025; KR 20137011376 A 20111025; MX 2013005164 A 20111025; RU 2013121151 A 20111025; UA A201305830 A 20111025; US 201113883606 A 20111025; ZA 201303150 A 20130430