

Title (en)
DEVICE FOR REFINING METAL MELTS

Title (de)
VORRICHTUNG ZUM RAFFINIEREN VON METALLSCHMELZEN

Title (fr)
DISPOSITIF DE RAFFINAGE DE MÉTAL EN FUSION

Publication
EP 2739927 B1 20151007 (DE)

Application
EP 13742381 A 20130626

Priority
• CZ 2012446 A 20120702
• CZ 2013000078 W 20130626

Abstract (en)
[origin: CZ304029B6] The rotary device for refining molten metal according to the present invention consists of a cylindrical rotor being fastened on a hollow shaft and having a cavity that is open at the bottom and interconnected at the top with a supply channel in the shaft, whereby radial outward enlarging passages separated by partitions extend from the cavity. The partitions (5) pass on the rotor (1) outer jacket over into ribs (6) extending along the rotor (1), wherein the ribs (6) pass at their lower end over into radial projections (7) performed on the rotor (1) bottom side (1).

IPC 8 full level
F27D 3/16 (2006.01); **B01F 27/2122** (2022.01); **C22B 9/05** (2006.01); **C22B 21/06** (2006.01); **F27D 27/00** (2010.01)

CPC (source: EP)
C22B 9/05 (2013.01); **C22B 21/064** (2013.01); **F27D 3/16** (2013.01); **F27D 27/00** (2013.01)

Citation (opposition)
Opponent : JAP Trading, s.r.o.
• WO 2012003509 A2 20120105 - PYROTEK INC [US], et al
• EP 2017560 A1 20090121 - FOSECO INT [GB]
• WO 2004057045 A1 20040708 - FOSECO INT [GB], et al
• EP 0332292 A1 19890913 - FOSECO INT [GB]
• US 2011163486 A1 20110707 - COOPER PAUL V [US]
• US 2011140320 A1 20110616 - COOPER PAUL V [US]
• EP 0347108 A1 19891220 - ALCAN INT LTD [CA]
• US 5527381 A 19960618 - WAITE PETER D [CA], et al
• RIVERIN ET AL., A NOVEL CRUCIBLE METAL TREATMENT PROCESS FOR IMPURITY REMOVAL IN SECONDARY ALUMINIUM, 2006, XP055297385
• HENRY J. RUSHTON, MIXING OF LIQUIDS IN CHEMICAL PROCESSING, December 1952 (1952-12-01), XP055297385
• THOMAS MARTIN, GAS DISPERSION WITH RADIAL AND HYDROFOIL IMPELLERS IN FLUIDS WITH DIFFERENT COALESCENCE CHARACTERISTICS, 1996, ISBN: 3-89675-104-2
• TRIAL REPORT 1
• TRIAL REPORT 2
• EXPERT DECLARATION BY DR PAUL EVANS

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 202013102823 U1 20130814; CZ 2012446 A3 20130828; CZ 304029 B6 20130828; EP 2739927 A1 20140611; EP 2739927 B1 20151007; EP 2739927 B2 20210901; PL 2739927 T3 20160429; PL 2739927 T5 20220131; WO 2014005560 A1 20140109

DOCDB simple family (application)
DE 202013102823 U 20130628; CZ 2012446 A 20120702; CZ 2013000078 W 20130626; EP 13742381 A 20130626; PL 13742381 T 20130626