Title (en)

MELT METALLURGICAL METHOD FOR THE PRODUCTION OF METAL MELTS, AND TRANSITION METAL-CONTAINING CHARGE FOR USE THEREIN

Title (de)

SCHMELZMETALLURGISCHES VERFAHREN ZUR HERSTELLUNG VON METALLSCHMELZEN UND ÜBERGANGSMETALLHALTIGER ZUSCHLAGSTOFF ZUR VERWENDUNG IN DIESEN

Title (fr)

PROCÉDÉ DE MÉTALLURGIE DE FUSION POUR LA PRODUCTION DE BAINS MÉTALLIQUES ET ADJUVANT CONTENANT DES MÉTAUX DE TRANSITION DESTINÉ À ÊTRE UTILISÉ DANS CE PROCÉDÉ

Publication

EP 2132345 B1 20140430 (DE)

Application

EP 08715538 A 20080304

Priority

- DE 2008000389 W 20080304
- DE 102007015585 A 20070329

Abstract (en)

[origin: US2008236334A1] The invention relates to a process for producing a metal melt containing at least one base metal and at least one further alloy constituent, wherein the production takes place in a melting vessel with slag covering the melt. In accordance with the invention, for increasing the content of the alloy constituent of the melt, an additive is fed to the melt which contains said alloy constituent at a content of >=5-10 percent by weight of the alloy constituent, >=5-10 percent by weight of melting metallurgically harmless volatile matter, <=5 percent by weight of sulfur and possibly fractions of further alloy constituents and/or slag formers. The additive is obtainable by ore leaching and by precipitation in the form of hydroxides and/or carbonates. The invention also relates to such an additive.

IPC 8 full level

C21C 5/36 (2006.01); **C21C 5/32** (2006.01); **C21C 7/00** (2006.01); **C22B 1/24** (2006.01); **C22B 3/00** (2006.01); **C22B 9/10** (2006.01)

CPC (source: EP KR US)

C21C 5/00 (2013.01 - KR); **C21C 5/32** (2013.01 - EP US); **C21C 5/36** (2013.01 - EP US); **C21C 7/00** (2013.01 - KR); **C21C 7/0006** (2013.01 - EP US); **C21C 7/04** (2013.01 - KR); **C22B 3/08** (2013.01 - KR); **C22B 23/043** (2013.01 - EP US); C22B 1/24 (2013.01 - EP US); C22B 9/103 (2013.01 - EP US)

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 102007015585 A1 20081002; AU 2008234283 A1 20081009; AU 2008234283 B2 20101223; BR PI0809379 A2 20140909; BR PI0809379 B1 20170718; CU 23832 A3 20121015; EP 2132345 A1 20091216; EP 2132345 B1 20140430; ES 2477495 T3 20140717; JP 2010522824 A 20100708; JP 5395047 B2 20140122; KR 101229212 B1 20130201; KR 20090125834 A 20091207; PL 2132345 T3 20140930; RU 2009139868 A 20110510; RU 2442829 C2 20120220; TW 200902729 A 20090116; TW I396747 B 20130521; US 2008236334 A1 20081002; US 8187357 B2 20120529; WO 2008119317 A1 20081009

DOCDB simple family (application)

DE 102007015585 A 20070329; AU 2008234283 A 20080304; BR PI0809379 A 20080304; CU 20090160 A 20090922; DE 2008000389 W 20080304; EP 08715538 A 20080304; ES 08715538 T 20080304; JP 2010500064 A 20080304; KR 20097022103 A 20080304; PL 08715538 T 20080304; RU 2009139868 A 20080304; TW 97108957 A 20080314; US 5908908 A 20080331