Title (en)

LEVITATION MELTING

Title (de)

SCHWEBESCHMELZVERFAHREN

Title (fr)

FUSION EN LÉVITATION

Publication

EP 3586568 B1 20201216 (DE)

Application

EP 19721225 A 20190418

Priority

- DE 102018109592 A 20180420
- EP 2019060168 W 20190418

Abstract (en)

[origin: WO2019202111A1] The invention relates to a method for producing cast bodies in a levitation melting process, wherein a charge of an electrically conductive material is brought, by means of a starting material which has multiple preseparated charges separated by regions with a reduced cross-section, into the reach of at least one alternating electromagnetic field so that the charge is held in a state of levitation. The regions are designed in such a way that the preseparated charges are not detached until during the melting process in an alternating electromagnetic field. The molten metal is then cast into casting molds.

IPC 8 full level

H05B 6/32 (2006.01)

CPC (source: EP KR RU US)

B22D 27/02 (2013.01 - US); **B22D 39/003** (2013.01 - US); **F27B 14/061** (2013.01 - KR); **F27B 14/0806** (2013.01 - KR); **H05B 6/10** (2013.01 - US); **H05B 6/32** (2013.01 - EP KR RU US)

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)

WO 2019202111 A1 20191024; CN 111742615 A 20201002; CN 111742615 B 20210629; DE 102018109592 A1 20191024; EP 3586568 A1 20200101; EP 3586568 B1 20201216; ES 2845253 T3 20210726; JP 2021515374 A 20210617; JP 6883152 B1 20210609; KR 102226483 B1 20210311; KR 20200116154 A 20201008; PL 3586568 T3 20210628; PT 3586568 T 20210121; RU 2736273 C1 20201113; SI 3586568 T1 20210730; TW 201944434 A 20191116; TW I727304 B 20210511; US 11370020 B2 20220628; US 2021146431 A1 20210520

DOCDB simple family (application)

EP 2019060168 W 20190418; CN 201980014882 A 20190418; DE 102018109592 A 20180420; EP 19721225 A 20190418; ES 19721225 T 20190418; JP 2020552273 A 20190418; KR 20207025504 A 20190418; PL 19721225 T 20190418; PT 19721225 T 20190418; RU 2020125375 A 20190418; SI 201930022 T 20190418; TW 108113182 A 20190416; US 201917048842 A 20190418