

Title (en)

LEVITATION MELTING METHOD USING AN ANNULAR ELEMENT

Title (de)

SCHWEBESCHMELZVERFAHREN MIT EINEM RINGFÖRMIGEN ELEMENT

Title (fr)

PROCÉDÉ DE FUSION PAR LÉVITATION AU MOYEN D'UN ÉLÉMENT ANNULAIRE

Publication

**EP 3622781 B1 20200520 (DE)**

Application

**EP 19739554 A 20190709**

Priority

- DE 102018117302 A 20180717
- EP 2019068431 W 20190709

Abstract (en)

[origin: WO2020016062A1] The invention relates to a levitation melting method and a device for producing cast bodies using an annular element made of a conductive material for introducing the casting of a molten batch into a casting mold. In the method, the annular element is introduced into the region of the electromagnetic alternating field between the induction coils in order to cast the molten batch, and the molten metal thus drains into the casting mold in a controlled manner by influencing the induced magnetic field.

IPC 8 full level

**B22D 39/00** (2006.01); **H05B 6/26** (2006.01); **H05B 6/32** (2006.01); **H05B 6/36** (2006.01); **H05B 6/44** (2006.01)

CPC (source: EP KR RU US)

**B22D 39/00** (2013.01 - RU); **B22D 39/003** (2013.01 - EP KR US); **H05B 6/26** (2013.01 - KR US); **H05B 6/32** (2013.01 - EP KR RU US); **H05B 6/365** (2013.01 - EP KR US); **H05B 6/44** (2013.01 - EP KR RU US); **H05B 6/26** (2013.01 - EP)

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 2020016062 A1 20200123**; CN 111758299 A 20201009; CN 111758299 B 20220225; DE 102018117302 A1 20200123; EP 3622781 A1 20200318; EP 3622781 B1 20200520; ES 2800305 T3 20201229; JP 2021522666 A 20210830; JP 6961110 B2 20211105; KR 102217519 B1 20210219; KR 20200115634 A 20201007; PL 3622781 T3 20200921; PT 3622781 T 20200626; RU 2735329 C1 20201030; SI 3622781 T1 20200831; TW 202007224 A 20200201; TW I757611 B 20220311; US 11192179 B2 20211207; US 2021245241 A1 20210812

DOCDB simple family (application)

**EP 2019068431 W 20190709**; CN 201980014870 A 20190709; DE 102018117302 A 20180717; EP 19739554 A 20190709; ES 19739554 T 20190709; JP 2020567596 A 20190709; KR 20207025407 A 20190709; PL 19739554 T 20190709; PT 19739554 T 20190709; RU 2020125353 A 20190709; SI 201930002 T 20190709; TW 108124859 A 20190715; US 201917049534 A 20190709