

Title (en)

METHOD FOR PRODUCING INGOTS CONSISTING OF A METAL COMPOUND CONTAINING TITANIUM

Title (de)

VERFAHREN ZUR HERSTELLUNG VON BLÖCKEN AUS EINER TITANHALTIGEN METALLVERBINDUNG

Title (fr)

PROCÉDÉ DE FABRICATION DE LINGOTS EN COMPOSÉ MÉTALLIQUE À BASE DE TITANE

Publication

**EP 3814541 B1 20221019 (FR)**

Application

**EP 19744764 A 20190624**

Priority

- FR 1855713 A 20180626
- FR 2019051541 W 20190624

Abstract (en)

[origin: WO2020002811A1] The invention relates to a method for producing an ingot (2) consisting of a metal compound containing titanium, said method comprising the following steps: supplying fragments of raw material (3); melting the fragments of raw material (3) to form a liquid metal (4) in at least one basin; maintaining the liquid metal (4) in the molten stage in said at least one basin; pouring the liquid metal (4) from the at least one basin into a crucible (15) by overflow of the at least one basin into said crucible (15); and forming an ingot (2) by cooling the liquid metal (4) in the crucible (15); characterised in that the method comprises the following step: preheating the fragments of raw material (3) before the melting of said fragments of raw material (3), at a preheating temperature higher than or equal to 75% of the liquidus temperature of said fragments of raw material (3), and strictly lower than the liquidus temperature of said fragments of raw material (3).

IPC 8 full level

**C22C 1/02** (2006.01); **C22C 14/00** (2006.01)

CPC (source: EP US)

**C22C 1/02** (2013.01 - EP US); **C22C 14/00** (2013.01 - EP US); **C22F 1/18** (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 2020002811 A1 20200102**; BR 112020026376 A2 20210323; BR 112020026376 B1 20231010; CA 3104572 A1 20200102; CN 112368406 A 20210212; CN 112368406 B 20211224; EP 3814541 A1 20210505; EP 3814541 B1 20221019; FR 3082853 A1 20191227; FR 3082853 B1 20200904; JP 2021529260 A 20211028; JP 7379394 B2 20231114; US 11512369 B2 20221129; US 2021262061 A1 20210826

DOCDB simple family (application)

**FR 2019051541 W 20190624**; BR 112020026376 A 20190624; CA 3104572 A 20190624; CN 201980043379 A 20190624; EP 19744764 A 20190624; FR 1855713 A 20180626; JP 2020573013 A 20190624; US 201917255277 A 20190624