

Title (en)

A METHOD AND AN ARRANGEMENT FOR MELTING AND DECANTING A METAL

Title (de)

VERFAHREN UND ANORDNUNG ZUM SCHMELZEN UND DEKANTIEREN EINES METALLS

Title (fr)

PROCÉDÉ ET AGENCEMENT POUR FAIRE FONDRE ET DÉCANTER UN MÉTAL

Publication

**EP 3798562 A1 20210331 (EN)**

Application

**EP 19020539 A 20190925**

Priority

EP 19020539 A 20190925

Abstract (en)

The invention relates to a method for melting and decanting a metal (7) into a tundish (3), wherein a liquefied inert shielding gas (20) is supplied to a melt of the metal (7) during melting, wherein the liquefied shielding gas (20) is supplied to the metal (7) through at least two different lance outlet nozzles (61, 62, 61a, 62a), wherein the liquefied shielding gas (20) is supplied during melting through one (61, 61a) of the at least two lance outlet nozzles (61, 62, 61a, 62a) to the metal (7) located in a crucible (1) and wherein the liquefied shielding gas (20) is supplied during decanting through another one (62, 62a) of the at least two lance outlet nozzles (61, 62, 61a, 62a) to a flow of the decanting molten metal and/or to the metal (7) located in the tundish (3).

IPC 8 full level

**F27B 14/08** (2006.01); **B22D 35/02** (2006.01); **B22D 41/04** (2006.01)

CPC (source: EP)

**B22D 35/00** (2013.01); **B22D 41/04** (2013.01); **B22D 41/05** (2013.01); **B22D 45/00** (2013.01); **F27B 14/08** (2013.01); **F27D 2003/168** (2013.01)

Citation (search report)

- [XY] JP 2015188893 A 20151102 - NIPPON STEEL & SUMITOMO METAL CORP
- [XY] US 3467167 A 19690916 - MAHIN WILLIAM E
- [XY] US 6241798 B1 20010605 - DIMITROV STEFAN [AT], et al
- [Y] US 2008184848 A1 20080807 - LA SORDA TERENCE D [US]
- [Y] GB 1372801 A 19741106 - AIR LIQUIDE
- [A] US 4047936 A 19770913 - CHANG YI-CHUNG

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3798562 A1 20210331**

DOCDB simple family (application)

**EP 19020539 A 20190925**