

Title (en)

METHOD OF CASTING MELT BY MEANS OF A MELT CONTAINER IN WHICH A MELT RECEPTION AREA IS FORMED

Title (de)

VERFAHREN ZUM GIESSEN VON SCHMELZE MITTELS EINES SCHMELZEBEHÄLTERS IN WELCHEM EIN SCHMELZEAUFNAHMERaum AUSGEBILDET IST

Title (fr)

PROCÉDÉ DE COULAGE DE LA FUSION AU MOYEN D'UN CONTENEUR DE FONDRE DANS LEQUEL UNE ZONE DE RÉCEPTION DE FONDRE EST FORMÉE

Publication

EP 4072750 B1 20231004 (DE)

Application

EP 20838330 A 20201211

Priority

- AT 510952019 A 20191213
- AT 2020060446 W 20201211

Abstract (en)

[origin: WO2021113892A1] The invention relates to a method for casting a melt (2) by means of a melt container (3) in which a melt receiving space (4) is formed, wherein the melt container (3) has an outlet (5) in the form of a lance (20) below the melt container (3), wherein the method comprises the following method steps: filling the melt container (3) with a melt (2), wherein the melt (2) is transferred via an outlet opening (6) of the lance (20) from a crucible (25) into the melt receiving space (4) of the melt container (3); casting at least one cast workpiece with a melt (2); re-filling the melt container (3) with a melt (2), and, as the melt container (3) is filled with the melt (2), more melt is received in the melt receiving space (4) than is required during the casting of the cast workpiece, wherein a remaining amount of melt (2), which has an oxide layer formed on the surface (19) of the melt, is located in the melt receiving space (3) of the melt container (3) directly before the re-filling of the melt container (3).

IPC 8 full level

B22D 35/00 (2006.01); **B22D 35/04** (2006.01); **B22D 39/06** (2006.01); **B22D 41/12** (2006.01); **B22D 41/13** (2006.01); **B22D 41/14** (2006.01)

CPC (source: AT EP US)

B22D 11/10 (2013.01 - AT US); **B22D 17/28** (2013.01 - AT US); **B22D 17/30** (2013.01 - AT US); **B22D 35/00** (2013.01 - EP); **B22D 35/04** (2013.01 - EP US); **B22D 39/00** (2013.01 - AT); **B22D 39/06** (2013.01 - AT EP US); **B22D 41/08** (2013.01 - AT US); **B22D 41/12** (2013.01 - AT EP); **B22D 41/13** (2013.01 - EP); **B22D 41/14** (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 2021113892 A1 20210617; AT 523251 A1 20210615; CN 115038532 A 20220909; CN 115038532 B 20240625; EP 4072750 A1 20221019; EP 4072750 B1 20231004; EP 4072750 C0 20231004; MX 2022007254 A 20220923; US 11931796 B2 20240319; US 2023038351 A1 20230209

DOCDB simple family (application)

AT 2020060446 W 20201211; AT 510952019 A 20191213; CN 202080095354 A 20201211; EP 20838330 A 20201211; MX 2022007254 A 20201211; US 202017784337 A 20201211