

Title (en)

METHOD OF EMBEDDING SOLID METAL PARTICLES INTO THE MELT DURING THE MELTING OF METALS AND A DEVICE FOR PERFORMING IT

Title (de)

VERFAHREN ZUM EINBETTEN VON FESTEN METALLPARTIKELN IN DIE SCHMELZE BEIM SCHMELZEN VON METALLEN UND VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ D'INCORPORATION DE PARTICULES SOLIDES DE MÉTAL DANS LA FONTE PENDANT LA FUSION DE MÉTAUX ET DISPOSITIF POUR SA MISE EN UVRE

Publication

**EP 3553441 A1 20191016 (EN)**

Application

**EP 19168403 A 20190410**

Priority

CZ 20181800 A 20180411

Abstract (en)

The invention relates to a method of embedding (immersing) solid metal particles into the melt during the melting of metals, in which the melt flow is directed into a continuous curve, and solid melt particles are placed on the melt surface in the continuous curve, whereupon the curved melt with the solid particles is conveyed back to the melting furnace. The invention consists in that after the solid metal particles have been added to its surface and before the melt is taken to the melting furnace, the continuous curved flow of the melt is guided onto a barrier to disrupt the continuous curved flow of the melt. The invention also relates to a device for immersing solid metal particles during the melting of metals comprising a melt inlet conduit (1) which is adjoined by a melt drive conduit (5) which is associated with a drive melt device, whereby the melt drive conduit (5) opens into a feed chamber (6) with a curved rear wall (63) and a melt outlet conduit (2) leads out of the feed chamber (6). The rear wall (63) of the feed chamber (6) is on the side facing away from the drive conduit (5) provided with a projection (62) extending into the free space of the feed chamber (6).

IPC 8 full level

**F27D 3/00** (2006.01)

CPC (source: EP)

**F27D 3/0025** (2013.01); **F27D 2003/0083** (2013.01)

Citation (search report)

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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 3553441 A1 20191016**

DOCDB simple family (application)

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