Title (en)

DEVICE FOR INJECTING MOLTEN MATERIAL, CASTING EQUIPMENT USING SAME, AND CASTING METHOD

Title (de)

VORRICHTUNG ZUM INJIZIEREN VON GESCHMOLZENEM MATERIAL, GIESSVORRICHTUNG DAMIT UND GIESSVERFAHREN

Title (fr)

DISPOSITIF PERMETTANT L'INJECTION DE MATIÈRE EN FUSION, APPAREILLAGE DE COULÉE L'UTILISANT ET PROCÉDÉ DE COULÉE

Publication

**EP 3424617 A4 20190403 (EN)**

Application

**EP 16892800 A 20161115**

Priority

- KR 20160025300 A 20160302
- KR 2016013161 W 20161115

Abstract (en)

[origin: EP3424617A1] The present disclosure relates to a device for injecting molten material, a casting equipment using the same, and a casting method. A casting method comprises: preparing main mod flux; injecting molten steel into a mold; melting the main mold flux to produce molten mold flux and injecting the molten mold flux onto a top face of the molten steel; casting a slab; and determining whether to input an additive based on a casted state of the slab during casting thereof. A quality and productivity of the slab may be improved.

IPC 8 full level

**B22D 11/10** (2006.01); **B22D 11/108** (2006.01); **B22D 11/16** (2006.01)

CPC (source: EP)

**B22D 11/108** (2013.01); **B22D 11/165** (2013.01)

Citation (search report)

- [I] KR 20140070037 A 20140610 - POSCO [KR]
- [I] EP 2446982 A1 20120502 - POSCO [KR]
- [I] KR 101114422 B1 20120222
- [I] EP 0101521 B1 19861105
- [A] WILLIAM H EMLING: "Breakout prevention, Serie of Articles??"KEEPING CURRENT II"?Published from May to October 1994", IRON AND STEEL MAKER : I & SM, 1 October 1994 (1994-10-01), US, XP055404661, ISSN: 0275-8687
- See also references of WO 2017150787A1

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 3424617 A1 20190109**; **EP 3424617 A4 20190403**; CN 108602115 A 20180928; JP 2019501027 A 20190117; KR 101790001 B1 20171120; KR 20170102760 A 20170912; WO 2017150787 A1 20170908

DOCDB simple family (application)

**EP 16892800 A 20161115**; CN 201680081282 A 20161115; JP 2018536136 A 20161115; KR 20160025300 A 20160302; KR 2016013161 W 20161115