

Title (en)

METHOD OF DESULFURIZATION OF MOLTEN IRON

Title (de)

VERFAHREN ZUR ENTSCHWEFELUNG VON GESCHMOLZENEM EISEN

Title (fr)

PROCÉDÉ DE DÉSULFURATION DE FER FONDU

Publication

**EP 2434025 A4 20161214 (EN)**

Application

**EP 10794262 A 20100629**

Priority

- JP 2010061366 W 20100629
- JP 2009155148 A 20090630
- JP 2009294022 A 20091225
- JP 2010147015 A 20100629

Abstract (en)

[origin: EP2434025A1] In a method for desulfurizing hot metal using a mechanical stirring desulfurization apparatus equipped with an impeller, a CaO-based desulfurization agent having a size in diameter of 30 to 400  $\mu\text{m}$  is blasted, together with a carrier gas, through a top lance onto the surface of hot metal that is being stirred with the impeller to desulfurize the hot metal. In this manner, the desulfurization agent can be added with a high addition yield, and the aggregation of the added desulfurization agent can be prevented, thereby allowing for stable and highly efficient desulfurization.

IPC 8 full level

**C21C 1/02** (2006.01)

CPC (source: EP KR)

**C21C 1/02** (2013.01 - KR); **C21C 1/025** (2013.01 - EP)

Citation (search report)

- [X1] JP 2008050659 A 20080306 - JFE STEEL KK
- [XD1] JP 2005179690 A 20050707 - JFE STEEL KK
- [A] JP 2009079261 A 20090416 - JFE STEEL KK
- [A] US 2002112567 A1 20020822 - KAWAKAMI MASAHIRO [JP], et al
- See also references of WO 2011002094A1

Cited by

EP3572534A4

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 SE SI SK SM TR

DOCDB simple family (publication)

**EP 2434025 A1 20120328; EP 2434025 A4 20161214; EP 2434025 B1 20180321**; BR PI1015360 A2 20160510; BR PI1015360 B1 20211026; CN 102471814 A 20120523; CN 102471814 B 20160615; JP 2011149087 A 20110804; JP 5195833 B2 20130515; KR 101366720 B1 20140224; KR 20120026623 A 20120319; WO 2011002094 A1 20110106

DOCDB simple family (application)

**EP 10794262 A 20100629**; BR PI1015360 A 20100629; CN 201080029394 A 20100629; JP 2010061366 W 20100629; JP 2010147015 A 20100629; KR 20127001048 A 20100629