

Title (en)

METHOD FOR PRODUCING SILICON-CONTAINING ALUMINUM ALLOY INGOT

Title (de)

VERFAHREN ZUR HERSTELLUNG SILICIUMHALTIGER ALUMINIUMLEGIERUNGSBLÖCKE

Title (fr)

PROCÉDÉ DE PRODUCTION DE LINGOT D'ALLIAGE D'ALUMINIUM CONTENANT DU SILICIUM

Publication

**EP 2929958 A4 20160713 (EN)**

Application

**EP 13863450 A 20131128**

Priority

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- JP 2013082093 W 20131128

Abstract (en)

[origin: EP2929958A1] Provided is a method of producing a silicon-containing aluminum ingot capable of preventing filter clogging that requires suspension of casting, suppressing aluminum loss, and reducing a content rate of phosphorus as an impurity in the obtained silicon-containing aluminum alloy ingot. The production method of the present invention includes a water-rinsing step for subjecting a silicon mass containing phosphorus as an impurity to a water-rinsing treatment, a molten metal formation step for obtaining molten metal by introducing, into a melting furnace, an alloy material including at least the silicon mass obtained through the water-rinsing step and an aluminum material and melting the alloy material, and a casting step for obtaining a silicon-containing aluminum alloy ingot by casting the obtained molten metal.

IPC 8 full level

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Citation (search report)

- [X1] US 2004035250 A1 20040226 - MARGARIA THOMAS [FR]
- [X] US 2006042539 A1 20060302 - OHTA HIROTAKE [JP]
- [A] WO 2010126639 A1 20101104 - CALISOLAR INC [US], et al
- See references of WO 2014091939A1

Designated contracting state (EPC)

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**EP 2929958 A1 20151014**; **EP 2929958 A4 20160713**; CN 104837577 A 20150812; CN 104837577 B 20160824; JP 5833257 B2 20151216; JP WO2014091939 A1 20170105; KR 20150067291 A 20150617; US 2015314367 A1 20151105; WO 2014091939 A1 20140619

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