

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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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)

- [XII] 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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