

Title (en)
METHOD FOR PRODUCING ALUMINUM ALLOY THICK PLATE

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER DICKEN PLATTE AUS EINER ALUMINIUMLEGIERUNG

Title (fr)
PROCÉDÉ DE FABRICATION D'UNE PLAQUE ÉPAISSE D'ALLIAGE D'ALUMINIUM

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EP 2130931 B1 20190918 (EN)

Application
EP 08722912 A 20080327

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Abstract (en)
[origin: EP2130931A1] Disclosed is a method for manufacturing an aluminum alloy thick plate. The method includes, in the following order, a melting step (S1) for melting an aluminum alloy, the aluminum alloy containing a predetermined amount of Mg and further containing at least one of Si, Fe, Cu, Mn, Cr, Zn, Ti, and Zr, with the remainder being aluminum and inevitable impurities; a hydrogen gas removal step (S2) for removing hydrogen gas from the molten aluminum alloy; a filtration step (S3) for removing inclusions from the aluminum alloy from which hydrogen gas have been removed; a casting step (S4) for casting the aluminum alloy, from which inclusions have been removed, into a slab; a slicing step (S5) for slicing the slab into an aluminum alloy thick plate having a predetermined thickness; and a heat treatment step (S6) for subjecting the aluminum alloy thick plate having a predetermined thickness to a heat treatment by holding the same at a temperature of 400°C or higher but lower than its melting point for one hour or longer.

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Citation (opposition)
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