

Title (en)
COOLING FACILITY AND METHOD

Title (de)
KÜHLEINRICHTUNG UND -VERFAHREN

Title (fr)
PROCÉDÉ ET ÉQUIPEMENT DE REFROIDISSEMENT

Publication
EP 3171996 B1 20180411 (FR)

Application
EP 15753101 A 20150710

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Abstract (en)
[origin: WO2016012691A1] The invention relates to a method for cooling a sheet ingot made of an aluminium alloy, after the heat treatment for the metallurgical homogenisation of said ingot and before the hot-rolling thereof, characterised in that the cooling, representing a value of between 30 and 150°C, is carried out at a speed of between 150 and 500°C/h, with a homogeneity of less than 40°C over all of the treated part of the ingot. The invention also relates to the facility allowing the implementation of said method and to said implementation.

IPC 8 full level
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Citation (opposition)
Opponent : Aleris Aluminum Duffel BVBA
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• EP 1967598 A1 20080910 - SUMITOMO LIGHT METAL IND [JP]
• "Aluminium-Taschenbuch", 1988, article "Aluminium-Taschenbuch", pages: 22 - 23, XP055545398
• "Rolling Aluminum: From the Mine Through the Mill", THE ALUMINUM ASSOCIATION, December 2007 (2007-12-01), XP055545409

Cited by
EP3842561A1; WO2019222177A1

Designated contracting state (EPC)
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WO 2016012691 A1 20160128; BR 112017000205 A2 20171031; BR 112017000205 B1 20230314; CA 2954711 A1 20160128; CA 2954711 C 20230404; CN 106661648 A 20170510; CN 106661648 B 20200107; DE 15753101 T1 20170727; EP 3171996 A1 20170531; EP 3171996 B1 20180411; EP 3398696 A1 20181107; EP 3398696 B1 20210512; FR 3024058 A1 20160129; FR 3024058 B1 20160715; JP 2017521260 A 20170803; JP 6585155 B2 20191002; KR 102336948 B1 20211209; KR 20170039166 A 20170410; MX 2017000483 A 20170728; RU 2017105464 A 20180827; RU 2017105464 A3 20181129; RU 2676272 C2 20181227; SA 517380746 B1 20210415; TW 201622843 A 20160701; TW I593476 B 20170801; US 10130980 B2 20181120; US 2017189949 A1 20170706; US 2018236514 A1 20180823

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