

Title (en)

PROCESS FOR PRODUCING A CATHODE BLOCK FOR AN ALUMINIUM ELECTROLYSIS CELL

Title (de)

VERFAHREN ZUM HERSTELLEN EINES KATHODENBLOCKS FÜR EINE ALUMINIUM-ELEKTROLYSEZELLE

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN BLOC CATHODIQUE POUR CELLULE D'ÉLECTROLYSE D'ALUMINIUM

Publication

EP 2598674 B1 20180214 (DE)

Application

EP 11738711 A 20110729

Priority

- DE 102010038665 A 20100729
- EP 2011063077 W 20110729

Abstract (en)

[origin: CA2805562A1] The invention relates to a process for producing a cathode block, comprising the following steps: providing starting materials, including coke and a hard material powder, such as TiB₂, and also if appropriate a carbon-containing material, mixing the starting materials, forming a cathode block, carbonizing and graphitizing, and also cooling. According to the invention, the graphitizing step is carried out at temperatures of between 2300 and 3000 °C, in particular between 2400 and 2900 °C.

IPC 8 full level

C25C 3/08 (2006.01)

CPC (source: EP)

C25C 3/08 (2013.01)

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 RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102010038665 A1 20120202; CA 2805562 A1 20120202; CA 2805562 C 20150616; CN 103069053 A 20130424; EP 2598674 A1 20130605; EP 2598674 B1 20180214; JP 2013532772 A 20130819; JP 5631492 B2 20141126; NO 2598674 T3 20180714; RU 2013108752 A 20140910; RU 2556192 C2 20150710; UA 109020 C2 20150710; WO 2012013769 A1 20120202

DOCDB simple family (application)

DE 102010038665 A 20100729; CA 2805562 A 20110729; CN 201180037464 A 20110729; EP 11738711 A 20110729; EP 2011063077 W 20110729; JP 2013521156 A 20110729; NO 11738711 A 20110729; RU 2013108752 A 20110729; UA A201302501 A 20110729