

Title (en)

CATHODE BLOCK FOR AN ALUMINIUM ELECTROLYSIS CELL AND A PROCESS FOR THE PRODUCTION THEREOF

Title (de)

KATHODENBLOCK FÜR EINE ALUMINIUM-ELEKTROLYSEZELLE UND EIN VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

BLOC CATHODIQUE POUR CELLULE D'ÉLECTROLYSE D'ALUMINIUM ET PROCÉDÉ DE PRODUCTION DUDIT BLOC CATHODIQUE

Publication

EP 2598675 A1 20130605 (DE)

Application

EP 11743994 A 20110729

Priority

- DE 102010038669 A 20100729
- EP 2011063082 W 20110729

Abstract (en)

[origin: CA2805866A1] The invention relates to a cathode block for an aluminium electrolysis cell, comprising a composite layer which contains graphite and a hard material, such as TiB₂. According to the invention, the hard material is present in a monomodal particle size distribution, where d₅₀ is between 10 and 20 µm, in particular between 12 and 18 µm, in particular between 14 and 16 µm.

IPC 8 full level

C25C 3/08 (2006.01)

CPC (source: EP)

C25C 3/08 (2013.01)

Citation (search report)

See references of WO 2012013772A1

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 102010038669 A1 20120202; CA 2805866 A1 20120202; CA 2805866 C 20150721; CN 103038396 A 20130410; CN 103038396 B 20160803; EP 2598675 A1 20130605; EP 2598675 B1 20170308; JP 2013532773 A 20130819; JP 5714108 B2 20150507; RU 2013108797 A 20140910; RU 2533066 C2 20141120; UA 109019 C2 20150710; WO 2012013772 A1 20120202

DOCDB simple family (application)

DE 102010038669 A 20110729; CA 2805866 A 20110729; CN 201180037314 A 20110729; EP 11743994 A 20110729; EP 2011063082 W 20110729; JP 2013521157 A 20110729; RU 2013108797 A 20110729; UA A201302500 A 20110729