

Title (en)

CATHODE BLOCK HAVING A SLOT WITH VARYING DEPTH AND A SECURING SYSTEM

Title (de)

KATHODENBLOCK MIT EINER NUT MIT VARIIERENDER TIEFE UND EINER FIXIEREINRICHTUNG

Title (fr)

BLOC CATHODIQUE MUNI D'UNE RAINURE DE PROFONDEUR VARIABLE ET D'UN DISPOSITIF DE FIXATION

Publication

**EP 3546620 A1 20191002 (DE)**

Application

**EP 19166841 A 20140425**

Priority

- DE 102013207737 A 20130426
- EP 14721300 A 20140425
- EP 2014058478 W 20140425

Abstract (en)

[origin: CA2910233A1] A cathode block for an aluminum electrolysis cell based on carbon and/or graphite has at least one slot for receiving at least one bus bar, said slot extending in the longitudinal direction of the cathode block, wherein at least one of the at least one slot has a depth that varies when viewed over the length of the cathode block, and wherein at least one recess which extends horizontally in the longitudinal direction of the cathode block is provided in the cathode block wall bordering the at least one slot. According to another embodiment, a cathode block for an aluminum electrolysis cell based on carbon and/or graphite has at least one slot for receiving at least one bus bar, said slot extending in the longitudinal direction of the cathode block, wherein at least one of the at least one slot has a depth that varies when viewed over the length of the cathode block, and wherein this slot is bordered by a wall, at least one projection that projects into the slot being provided on said wall.

Abstract (de)

Ein Kathodenblock für eine Aluminium-Elektrolysezelle auf Basis von Kohlenstoff und/oder Graphit weist wenigstens eine sich in der Längsrichtung des Kathodenblocks erstreckende Nut zur Aufnahme wenigstens einer Stromschiene auf, wobei wenigstens eine der wenigstens einen Nut eine, über die Länge des Kathodenblocks gesehen, variierende Tiefe aufweist, wobei diese Nut von einer Wand begrenzt ist, wobei an der Wand wenigstens ein sich in die Nut hinein erstreckender Vorsprung vorgesehen ist.

IPC 8 full level

**C25C 3/08** (2006.01); **C25C 3/16** (2006.01)

CPC (source: EP RU)

**C25C 3/08** (2013.01 - EP RU); **C25C 3/16** (2013.01 - EP)

Citation (search report)

- [A] DE 102011004009 A1 20120816 - SGL CARBON SE [DE]
- [A] DE 2405461 A1 19740815 - ALUSUISSE
- [A] EP 0052577 A1 19820526 - ALUSUISSE [CH]
- [Y] US 2009050474 A1 20090226 - HILTMANN FRANK [DE], et al
- [Y] DE 2631673 A1 19770120 - SAVOIE ELECTRODES REFRACT
- [X] CN 102181883 A 20110914 - UNIV CENTRAL SOUTH, et al

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 102013207737 A1 20141030**; CA 2910233 A1 20141030; CA 2910233 C 20180116; CN 105247109 A 20160113; CN 105247109 B 20180605; EP 2989235 A1 20160302; EP 2989235 B1 20190612; EP 2989235 B9 20231115; EP 3546620 A1 20191002; EP 3546620 B1 20211222; JP 2016516905 A 20160609; JP 6808485 B2 20210106; PL 2989235 T3 20191031; PL 3546620 T3 20220328; RU 2015150375 A 20170602; RU 2020114123 A 20200610; RU 2020114123 A3 20211122; RU 2727621 C2 20200722; UA 117481 C2 20180810; WO 2014174089 A1 20141030

DOCDB simple family (application)

**DE 102013207737 A 20130426**; CA 2910233 A 20140425; CN 201480023590 A 20140425; EP 14721300 A 20140425; EP 19166841 A 20140425; EP 2014058478 W 20140425; JP 2016509493 A 20140425; PL 14721300 T 20140425; PL 19166841 T 20140425; RU 2015150375 A 20140425; RU 2020114123 A 20140425; UA A201511659 A 20140425