

Title (en)

AN ANODE FOR USE IN AN ELECTROLYSIS PROCESS FOR PRODUCTION OF ALUMINIUM IN CELLS OF HALL-HEROULT TYPE, AND A METHOD FOR MAKING SAME

Title (de)

ANODE ZUR VERWENDUNG IN EINEM ELEKTROLYSEVERFAHREN ZUR HERSTELLUNG VON ALUMINIUM IN ZELLEN VOM HALL-HEROULT-TYP UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

ANODE DESTINÉE À ÊTRE UTILISÉE DANS UN PROCÉDÉ D'ÉLECTROLYSE POUR LA PRODUCTION D'ALUMINIUM DANS DES CELLULES DU TYPE HALL-HÉROULT ET PROCÉDÉ PERMETTANT DE FABRIQUER CETTE DERNIÈRE

Publication

**EP 3256622 B1 20230118 (EN)**

Application

**EP 16749522 A 20160209**

Priority

- NO 20150224 A 20150213
- NO 2016000005 W 20160209

Abstract (en)

[origin: WO2016130014A1] An anode for use in an electrolysis process for production of aluminium in cells of Hall- Héroult type, the anode comprises a body or block (120; 20) of calcinated carbonaceous material connected with an electrical current lead, where said current lead being connected with an anode rod (103; 3) and further being part of an anode hanger (101; 1). The current lead comprises at least one metallic suspension plate(s) (104; 4, 4') with vertically oriented redding plates (105 105'', 5, 5') at least partly embedded by their lower partly in corresponding recesses (113, 113'', 13, 13'; 100, 100') in the top of the carbonaceous block (120; 20) and further connected by mechanical fixation means (108; 8; 14, 16). Said recesses are wider than the rodding plates and being filled with an electric conductive particulate material only. It is also described a method for processing an undercut recess (10) in the anode top for mechanically fixing the anode block (20) to a protrusion (8) on the current lead.

IPC 8 full level

**C25C 3/12** (2006.01); **C25C 3/10** (2006.01); **C25C 3/16** (2006.01)

CPC (source: EA EP US)

**C25C 3/10** (2013.01 - EA EP US); **C25C 3/125** (2013.01 - EA EP US); **C25C 3/16** (2013.01 - EA EP US)

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)

**WO 2016130014 A1 20160818**; AU 2016218531 A1 20170803; AU 2016218531 B2 20200611; BR 112017017062 A2 20180410; CA 2975081 A1 20160818; CA 2975081 C 20220719; CN 107208288 A 20170926; CN 107208288 B 20201127; EA 035309 B1 20200527; EA 201791832 A1 20171229; EP 3256622 A1 20171220; EP 3256622 A4 20181031; EP 3256622 B1 20230118; NZ 733895 A 20180928; US 2018023206 A1 20180125; ZA 201705026 B 20190731

DOCDB simple family (application)

**NO 2016000005 W 20160209**; AU 2016218531 A 20160209; BR 112017017062 A 20160209; CA 2975081 A 20160209; CN 201680009846 A 20160209; EA 201791832 A 20160209; EP 16749522 A 20160209; NZ 73389516 A 20160209; US 201615548840 A 20160209; ZA 201705026 A 20170724