

Title (en)

AN ELECTRODE FOR ALUMINIUM PRODUCTION AND A METHOD OF MAKING SAME

Title (de)

ELEKTRODE ZUR ALUMINIUMHERSTELLUNG UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

ÉLECTRODE POUR PRODUCTION D'ALUMINIUM ET SON PROCÉDÉ DE FABRICATION

Publication

EP 2948577 A1 20151202 (EN)

Application

EP 14743388 A 20140120

Priority

- NO 20130123 A 20130122
- NO 2014000002 W 20140120

Abstract (en)

[origin: WO2014116117A1] An electrode for production of aluminium metal by electrolysis of an aluminium containing compound dissolved in a molten electrolyte, where the electrowinning process is performed in smelting cells of conventional Hall-Héroult design. The electrode comprises a calcinated carbon containing body being integrated with at least one composite metallic conductor comprising conducting elements of a Fe containing material and conducting elements of a Cu containing material. The composite conductor comprises a barrier layer material at the interface between the two conducting materials. Barrier materials of ceramic, Refractory Hard Materials (RHM), and of metallic types are proposed as well as methods for their application.

IPC 8 full level

C25C 3/16 (2006.01); **C25C 3/08** (2006.01); **C25C 3/12** (2006.01)

CPC (source: CN EP)

C25C 3/08 (2013.01 - CN EP); **C25C 3/12** (2013.01 - CN); **C25C 3/125** (2013.01 - EP); **C25C 3/16** (2013.01 - CN EP)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014116117 A1 20140731; AU 2014210417 A1 20150716; AU 2014210417 B2 20170629; BR 112015017071 A2 20170711; CA 2896472 A1 20140731; CA 2896472 C 20200414; CN 104937144 A 20150923; CN 104937144 B 20190903; EA 028191 B1 20171031; EA 201500763 A1 20151130; EP 2948577 A1 20151202; EP 2948577 A4 20160420; EP 2948577 B1 20181205; NO 20130123 A1 20140723; NO 338410 B1 20160815; NZ 709857 A 20190726; SA 515360744 B1 20181210

DOCDB simple family (application)

NO 2014000002 W 20140120; AU 2014210417 A 20140120; BR 112015017071 A 20140120; CA 2896472 A 20140120; CN 201480005438 A 20140120; EA 201500763 A 20140120; EP 14743388 A 20140120; NO 20130123 A 20130122; NZ 70985714 A 20140120; SA 515360744 A 20150709