

Title (en)

MODULAR BUSBAR FOR SERIES OF ALUMINIUM ELECTROLYZERS

Title (de)

MODULARE SAMMELSCHIENE FÜR EINEN REIHE VON ALUMINIUMELEKTROLYSATOREN

Title (fr)

AMÉNAGEMENT MODULAIRE DE BUS POUR SÉRIES DE CELLULES D'ÉLECTROLYS D'ALUMINIUM

Publication

EP 3643813 A4 20200729 (EN)

Application

EP 18895625 A 20181221

Priority

- RU 2017147133 A 20171229
- RU 2018050166 W 20181221

Abstract (en)

[origin: US2020010968A1] The busbar system consists of an anode part designed to connect anodes in a cell line by means of anode rods, a cathode part composed of cathode rods with flexible strap stacks and designed to connect to the anode part of the next cell in a cell line by means of a bus module that comprises main (collecting) cathode busbars on the upstream and downstream sides of the cathode shell of the cell, connecting busbars located under the cell bottom, at least one anode riser on the upstream side and at least one anode riser on the downstream side of the cell. The busbar system is designed to supply current to two similar cell lines that are composed of one row of electrolysis (reduction) cells, such lines are designed to be independent from each other in terms of power supply and to have opposite current directions, and comprises correction (compensation) busbars.

IPC 8 full level

C25C 3/16 (2006.01); **C25C 7/02** (2006.01)

CPC (source: EP IL RU US)

C25C 3/16 (2013.01 - EP IL RU US); **C25C 7/02** (2013.01 - EP IL RU US)

Citation (search report)

- [IY] US 4316788 A 19820223 - SELE THORLEIF
- [Y] EP 0084142 A2 19830727 - ITALIA ALLUMINIO [IT]
- [Y] US 2008078674 A1 20080403 - PLATONOV VITALIY V [RU], et al
- [A] RU 2170290 C1 20010710 - OAO OB EDINENNAJA KOMPANIJA SI
- See references of WO 2019132737A1

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)

US 2020010968 A1 20200109; AU 2018398340 A1 20190926; BR 112019018189 A2 20200623; CA 3052237 A1 20190704; CA 3052237 C 20210727; CN 110392750 A 20191029; CN 110392750 B 20230721; EP 3643813 A1 20200429; EP 3643813 A4 20200729; IL 269993 B 20220601; RU 2678624 C1 20190130; WO 2019132737 A1 20190704

DOCDB simple family (application)

US 20181648453 A 20181221; AU 2018398340 A 20181221; BR 112019018189 A 20181221; CA 3052237 A 20181221; CN 201880016437 A 20181221; EP 18895625 A 20181221; IL 26999319 A 20191015; RU 2017147133 A 20171229; RU 2018050166 W 20181221