

Title (en)
ARRANGEMENT OF ANODE FOR UTILISATION IN AN ELECTROLYSIS CELL

Title (de)
ANODENANORDNUNG ZUR VERWENDUNG IN EINER ELEKTROLYSEZELLE

Title (fr)
DISPOSITIF D'ANODE POUR UTILISATION DANS UNE CELLULE ELECTROLYTIQUE

Publication
EP 1386023 A1 20040204 (EN)

Application
EP 02720682 A 20020424

Priority
• NO 0200157 W 20020424
• NO 20012118 A 20010427

Abstract (en)
[origin: WO02088432A1] The invention relates to an arrangement of anode for utilisation in an electrolysis cell for production of aluminium metal from an aluminium containing component in a molten salt electrolyte, in which the aluminium containing component mainly is alumina and the molten salt electrolyte is based on mixtures of NaF and AlF₃ and CaF₂, and possibly alkaline and alkaline earth halides. More specific it relates to improvements of anodes useful for retrofit of existing electrolysis cells, in which the anodes remains inert during operation. The anode is characterised by being shaped in a manner to increase the area of the electroactive surface. Several examples of such designs are shown. The anode is useful for utilisation in retrofit of existing electrolysis cells of Hall-Héroult design for aluminium production.

IPC 1-7
C25C 3/06; **C25C 3/12**; **C25C 3/08**

IPC 8 full level
C25C 3/06 (2006.01); **C25C 3/12** (2006.01)

CPC (source: EP US)
C25C 3/12 (2013.01 - EP US)

Citation (search report)
See references of WO 02088432A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02088432 A1 20021107; AR 034317 A1 20040218; BR 0209208 A 20040706; CA 2445676 A1 20021107; CN 1509347 A 20040630; CZ 20033137 A3 20040714; EA 200301182 A1 20040429; EP 1386023 A1 20040204; IS 7000 A 20031024; JP 2004527657 A 20040909; NO 20012118 D0 20010427; NZ 529979 A 20050826; SK 13282003 A3 20040504; US 2004178079 A1 20040916; ZA 200308243 B 20040701

DOCDB simple family (application)
NO 0200157 W 20020424; AR P020101547 A 20020426; BR 0209208 A 20020424; CA 2445676 A 20020424; CN 02809910 A 20020424; CZ 20033137 A 20020424; EA 200301182 A 20020424; EP 02720682 A 20020424; IS 7000 A 20031024; JP 2002585705 A 20020424; NO 20012118 A 20010427; NZ 52997902 A 20020424; SK 13282003 A 20020424; US 47615104 A 20040120; ZA 200308243 A 20031022