

Title (en)

METHOD FOR ESTIMATING DYNAMIC STATE VARIABLES IN AN ELECTROLYTIC CELL SUITABLE FOR THE HALL-HÉROULT ELECTROLYSIS PROCESS

Title (de)

VERFAHREN ZUR SCHÄTZUNG DYNAMISCHER ZUSTANDSGRÖSSEN IN EINER FÜR DEN HALL-HÉROULT-ELEKTROLYSEPROZESS GEEIGNETEN ELEKTROLYSEZELLE

Title (fr)

PROCÉDÉ D'ESTIMATION DE VARIABLES D'ÉTAT DYNAMIQUES DANS UNE CELLULE ÉLECTROLYTIQUE CONVENANT POUR LE PROCÉDÉ D'ÉLECTROLYSE HALL-HÉROULT

Publication

EP 3417095 A1 20181226 (EN)

Application

EP 17752749 A 20170208

Priority

- GB 201602613 A 20160215
- IB 2017050661 W 20170208

Abstract (en)

[origin: WO2017141134A1] Method of producing aluminium in an electrolytic cell using the Hall-Héroult electrolysis process, said method comprising the following steps: -dividing said cell into at least n subsystems, -for each subsystem, estimating the local value of at least one target or output parameter on the basis of the value of the measurement of at least one input parameter, -modifying at least one of said input parameters in the cell by exerting a physical action upon the cell, if at least one estimated value of said output parameter, for at least one subsystem, is substantially different from another estimated value of said output parameter for another subsystem.

IPC 8 full level

C25C 3/20 (2006.01); **C25C 3/06** (2006.01); **G05B 13/04** (2006.01); **G05B 17/02** (2006.01)

CPC (source: EP)

C25C 3/20 (2013.01)

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 2017141134 A1 20170824; CA 3012166 A1 20170824; CA 3012166 C 20230905; EP 3417095 A1 20181226; EP 3417095 A4 20191113; GB 201602613 D0 20160330

DOCDB simple family (application)

IB 2017050661 W 20170208; CA 3012166 A 20170208; EP 17752749 A 20170208; GB 201602613 A 20160215