

Title (en)

METHOD OF MONITORING INDIVIDUAL ANODE CURRENTS IN AN ELECTROLYTIC CELL SUITABLE FOR THE HALL-HEROULT ELECTROLYSIS PROCESS

Title (de)

VERFAHREN ZUR ÜBERWACHUNG EINZELNER ANODENSTRÖME IN EINER ELEKTROLYSEZELLE FÜR HALL-HEROULT-ELEKTROLYSEVERFAHREN

Title (fr)

PROCÉDÉ DE SURVEILLANCE DE COURANTS ANODIQUES INDIVIDUELS DANS UNE CELLULE ÉLECTROLYTIQUE CONVENANT POUR LE PROCÉDÉ D'ÉLECTROLYSE HALL-HÉROULT

Publication

EP 3417094 A1 20181226 (EN)

Application

EP 17752750 A 20170208

Priority

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- IB 2017050666 W 20170208

Abstract (en)

[origin: WO2017141135A1] A method of anode current monitoring in an electrolytic cell suitable for the Hall-Héroult electrolysis process, said method comprising : - providing a plurality of sensing assemblies (10A, 10B, 10C) at a plurality of locations along the anode busbar, each sensing assembly comprising at least one sensing element (101, 102, 121, 122, 141, 142) and converting means, for converting a measured analog signal into a digital output, - measuring with at least one of said sensing element(s) at least one set of values of a representative parameter of current at at least one sensing time, - digitalizing said analog signals of values into digital outputs, using said converting means, said digital outputs representing the current flow in the anode beam in the vicinity of the sensing assembly having generated said digital output. This method allows to detect and monitor abnormal conditions of cell operation such as anode effects.

IPC 8 full level

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CPC (source: EP)

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