

Title (en)

METHOD AND MEANS FOR EXTRACTING HEAT FROM ALUMINIUM ELECTROLYSIS CELLS

Title (de)

VERFAHREN UND MITTEL ZUR WÄRMEEXTRAKTION AUS ALUMINIUM-ELEKTROLYSEZELLEN

Title (fr)

PROCÉDÉ ET MOYEN D'EXTRACTION DE CHALEUR DE CELLULES D'ÉLECTROLYSE D'ALUMINIUM

Publication

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Application

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Abstract (en)

[origin: WO2010050823A1] A method and means for extracting more heat out from electrolysis cells for production of aluminium, in order to compensate for the extra heat generated in the cell following amperage increase, as well as reducing the amount of heat dissipated into the raw gas from the cell. An anode assembly in the cell comprises the anode stem (1) which is connected to the anode beam (2) and the anode yoke (3) from which the stubs (4) provide further electric contact to the carbon anode (5). The anode stem is for instance cooled by increasing the surface area of the stem above the cell's superstructure (6), or by applying a cooling medium that circulates along the stem. The anode cooling can be combined with the use of a thermal insulation material (7) at the anode stem inside the superstructure.

IPC 8 full level

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