

Title (en)

ALUMINIUM SMELTER AND METHOD TO COMPENSATE FOR A MAGNETIC FIELD CREATED BY THE CIRCULATION OF THE ELECTROLYSIS CURRENT OF SAID ALUMINIUM SMELTER

Title (de)

ALUMINIUMHÜTTE UND VERFAHREN ZUR KOMPENSATION EINES DURCH DIE ZIRKULATION DES ELEKTROLYSESTROMS DIESER ALUMINIUMHÜTTE ERZEUGTEN MAGNETFELDS

Title (fr)

ALUMINERIE ET PROCÉDÉ DE COMPENSATION D'UN CHAMP MAGNÉTIQUE CRÉÉ PAR LA CIRCULATION DU COURANT D'ÉLECTROLYSE DE CETTE ALUMINERIE

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Application

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Abstract (en)

[origin: CA2975962A1] The invention relates to an aluminium smelter (1) which comprises a row (2) of electrolysis cells arranged transversely relative to the row (2), one of the cells comprising anode assemblies and electrical conductors for raising and connecting to the anode assemblies. The raising and connection conductors extend upwards along two opposing longitudinal edges of the cell. In addition, the aluminium smelter (1) comprises a first electrical compensation circuit (4) extending under the cells and capable of carrying a first compensation current (IC1) in the opposite direction to the electrolysis current (IE), and a second electrical compensation circuit (6) extending on one side of the row (2) and being capable of carrying a second compensation current (IC2) in the same direction as the electrolysis current (IE).

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