

Title (en)  
ALUMINUM SMELTER INCLUDING CELLS HAVING A CATHODE OUTLET THROUGH THE BASE OF THE CASING, AND A MEANS FOR STABILIZING THE CELLS

Title (de)  
ALUMINIUMSCHMELZER MIT ZELLEN MIT EINEM KATHODENAUSLASS DURCH DEN BODEN DES GEHÄUSES UND MITTEL ZUR STABILISIERUNG DER ZELLEN

Title (fr)  
ALUMINERIE COMPRENANT DES CUVES A SORTIE CATHODIQUE PAR LE FOND DU CAISSON ET DES MOYENS DE STABILISATION DES CUVES

Publication  
**EP 2732074 B1 20171129 (FR)**

Application  
**EP 12748725 A 20120710**

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Abstract (en)  
[origin: WO2013007892A2] The invention relates to an aluminum smelter, including: (i) a series of electrolytic cells (2) including an anode (9), a cathode, and a casing having a side wall (7a) and a bottom wall, each cathode including at least one cathode outlet (12); (ii) a main electrical circuit through which an electrolytic current passes, and which includes an electrical conductor (14) connected to each cathode outlet (12) of a cell N, and to the anode (9) of a cell N+1; and (iii) a means for stabilizing the electrolytic cells (2), which is provided in the form of either a secondary electrical circuit (5, 6) or a cathode having a crenulated surface. One of the cathode outlets (12) of the cell N passes through the bottom wall of the casing. Each electrical conductor (14) extends from each cathode outlet (12) of the cell N to the cell N+1, and the electrolytic current passes therethrough only in an upstream-to-downstream direction during the operation of the electrolytic cells N and N+1 (2).

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CPC (source: EP US)  
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US 3969213 A 19760713 - YAMAMOTO SHOJI, et al

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