

[12] Patent

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[21] Application No.: GCC/P/2000/514 [22] Filing Date: 05/02/2000 [30] Priority: [31] Priority No. [32] Priority date [33] State 9901529 05/02/1999 FR [72] Inventors: 1- Jean-Marie Gaillard, 2- Jacques Colin de Verdier, 3- Pierre Homs [73] Owner: Aluminium Pechiney, 7 Place du Chancelier Adenauer, 75218 Paris Cedex 16, France [74] Agent: Suleiman Ibrahim Al-Ammar	[51] Int.Cl. ⁷ : C25C 3/16 [56] Cited Documents: - EP 0097613 A (SCHWEIZERISCHE ALUMINIUM AG) 04 January 1984 - EP 0185822 A (ALCAN INTERNATIONAL LIMITED) 02 July 1986 - FR 2552782 A (ALUMINIUM PECHINEY) 05 April 1985

[54] ARRANGEMENT OF ELECTROLYSIS POTS FOR ALUMINUM PRODUCTION

[57] Abstract: The invention relates to a crosswise arrangement of electrolysis pots for the production of aluminum by igneous electrolysis, including at least one first line of electrolysis pots, wherein at least one "axial" conductor passes under each upstream pot in the central zone, at least one "lateral" conductor passes under each upstream pot in the inner lateral zone, at least one "bypass" conductor bypasses each upstream pot, the or each lateral conductor is connected to a first set of upstream cathodic ends so as to transmit a first part I1 (between 10 and 20%) of the current I_m to the said risers, the or each axial conductor is connected to a second set of upstream cathodic ends so as to transmit a second part I2 (between 10 and 20%) of said current I_m to the said risers, the or each bypass conductor is connected to a third set of the upstream cathodic ends so as to transmit a third part I3 of the current I_m corresponding to the rest of the current I_m , and the risers are connected to the downstream cathodic ends, to the conductors passing under the pot and to the or each bypass conductor of the pot so that a fraction M_c of the current I_o less than 15% is transmitted through the risers located in the central part of the line.

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No. of figures: 3

