

Title (en)

PROCESS FOR REDUCING THE MAGNETIC PERTURBATIONS IN ROWS OF HIGH AMPERAGE ELECTROLYTIC CELLS

Publication

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Application

**EP 79420008 A 19790202**

Priority

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Abstract (en)

[origin: ES477486A1] The invention concerns a process for reducing magnetic disturbances in series of electrolysis tanks operating at high current strength. The process comprises passing the negative connecting conductors between the tanks and fixing the distribution of current between the downstream end and the upstream end or the central riser input members of each tank, so as to nullify the component  $B_y$  of the magnetic field at the center of the tank and to render anti-symmetric the component  $B_y$  of the magnetic field at the middle of the long side of the tank, relative to the axis  $Oy$ . The field of the adjacent row is also compensated by means of a compensation conductor through which passes a current which circulates in the opposite direction to the electrolysis current. Use for the production of aluminium in series of electrolysis tanks which are supplied with current strengths which may reach 200,000 amperes.

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