

Title (en)

ELECTROLYTIC POT FOR THE PRODUCTION OF ALUMINIUM HAVING A CONDUCTIVE FLOATING SCREEN

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Application

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Abstract (en)

[origin: ES8403984A1] The invention relates to an electrolysis tank for production of aluminum by electrolysis of alumina dissolved in a molten cryolite bath, by the Hall-Heroult process, between at least a carbon anode and an aluminum sheet covering a carbon cathode substrate. At the interface of the aluminum sheet and molten cryolite bath it comprises a floating screen, which is conductive of electric current, not connected to the carbon cathode substrate and free to move at least in the vertical direction. The floating conductive screen can extend over the entire interface or be limited to being perpendicular to each anode. The distance between each anode and the floating conductive screen can be reduced to about 20 mm.

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