

Title (en)

CARBONACEOUS ANODE WITH PARTIALLY RESTRICTED STUDS FOR ELECTROLYTIC ALUMINIUM PRODUCTION POTS

Publication

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Application

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Abstract (en)

[origin: US4612105A] The invention relates to a carbonaceous anode intended for cells for the production of aluminium by igneous electrolysis according to the Hall-Heroult process, which is connected to the positive current input by at least one steel conductor comprising a lower portion which penetrates into the carbonaceous anode and an upper portion which is connected to the positive current input. The upper portion of the steel conductor has, over at least 30% of the length of the upper portion, a cross sectional area which is at most equal to 60% of the cross sectional area of the lower portion. The upper portion may be constituted by a solid profile of reduced cross section or a tubular profile. The invention can be applied to prebaked anodes and to Soderberg anodes. It allows a substantial gain over the voltage drop in the anodic system.

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