

Title (en)

ELECTROLYTIC POT FOR THE PRODUCTION OF ALUMINIUM BY ELECTROLYSIS IN THE DRY WAY, AND METHOD OF INSERTING THE IRON BARS

Publication

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Application

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Priority

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- DE 3135083 A 19810904

Abstract (en)

[origin: EP0073735A2] 1. A reduction pot for the production of aluminium by means of fusion electrolysis, consisting of an outer steel shell, a thermally insulating layer and an electrically conductive inner lining which is resistant to the molten charge and is made up of carbon blocks (10) running in the transverse direction and having running in their longitudinal direction grooves (14) which are open downwards and extend over at least 20% of the length - starting from the two endfaces - and in which are inserted solid iron bars (12) which project downwards out of the bottom face and on both sides out of the endfaces of the carbon blocks, where part of the weight of the carbon blocks (10) is borne approximately uniformly by all of the iron bars (12) projecting out of their bottom faces, characterized in that the grooves (14) in the carbon blocks (10) have cross-sections which at a temperature between 500 and 850 degrees C correspond exactly with the cross-section of the iron bars (12) heated to the same temperature.

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