

Title (en)

CATHODE, DEVICE FOR ALUMINUM PRODUCTION, AND USE OF THE CATHODE IN ALUMINUM PRODUCTION

Title (de)

KATHODE, VORRICHTUNG ZUR ALUMINIUMGEWINNUNG UND VERWENDUNG DER KATHODE BEI DER ALUMINIUMGEWINNUNG

Title (fr)

CATHODE, DISPOSITIF DE PRODUCTION D'ALUMINIUM ET UTILISATION DE LA CATHODE POUR LA PRODUCTION D'ALUMINIUM

Publication

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Application

**EP 11757796 A 20110822**

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Abstract (en)

[origin: CA2808243A1] The invention relates to a cathode (10) and to a device (100) for melt flow-based metal production and provides uses for the cathode (10) and the device (100). A core aspect of the present invention consists in designing the cathode (10) to have at least two layers, that is, a process-side process layer (12) made of or with an abrasion-resistant process material (12'), and a current transfer layer (11) made with or of an electrically conductive, and in particular low-impedance, current transfer material (11'). Furthermore, the process side (10o) is designed in a profiled manner with a recess (10a, 12a) and/or an elevation (10e, 12e), or with a plurality of recesses (10a, 12a) and/or elevations (10e, 12e).

IPC 8 full level

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