

Title (en)

METAL-BASED ANODES FOR ALUMINIUM PRODUCTION CELLS

Title (de)

ANODEN AUF BASIS VON METALLEN FÜR ELEKTROLYSEZELLEN ZUR ALUMINIUMGEWINNUNG

Title (fr)

ANODES A BASE DE METAL POUR CELLULES DE PRODUCTION D'ALUMINIUM

Publication

EP 1381716 A1 20040121 (EN)

Application

EP 02702624 A 20020304

Priority

- IB 0200667 W 20020304
- IB 0100322 W 20010307

Abstract (en)

[origin: WO02070786A1] A metal-based anode substrate of a cell for the electrowinning of aluminium comprises a nickel-alloy based core, a layer of silver on the core and a layer comprising nickel and iron covering the silver layer and serving as an anchorage layer for anchoring an electrochemically active surface coating on top of the anode substrate. The electrochemically active coating may be a cerium-based coating. The silver layer inhibits diffusion of fluoride species into the core and prevents interdiffusion of constituents of the core and constituents of the anchorage layer.

IPC 1-7

C25C 3/12

IPC 8 full level

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CPC (source: EP)

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