Title (en)

LINING FOR AN ELECTROLYTIC CELL FOR THE PRODUCTION OF ALUMINIUM

Publication

EP 0132647 B1 19870304 (DE)

Application

EP 84107810 A 19840705

Priority

DE 3327230 A 19830728

Abstract (en)

[origin: US4589967A] Cell for the fusion-electrolytic production of aluminum which consists of a steel shell lined with graphite blocks, a heat-retarding insulation layer between the shell and the lining and cathodic bus bars inserted into the lining. Features of the invention are (a) the lining consists of graphite blocks with a heat conductivity of 80 to 120 W/mxK, an electric resistivity from 6 to 13 mu OMEGA m and an accessible pore volume of at most 22%, (b) the insulating layer contains at least two partial layers with a heat conductivity of 0.1 to 0.2 and 0.8 to 1.2 W/mxK, (c) the thickness ratio of the lining and the insulating layer is 1.5 to 3.0.

IPC 1-7

C25C 3/08

IPC 8 full level

C25C 3/08 (2006.01)

CPC (source: EP US)

C25C 3/08 (2013.01 - EP US); **C25C 3/085** (2013.01 - EP US)

Cited by

FR2900665A1; US8440059B2; US6627062B1; US6723212B1; WO2007125195A3; KR101217901B1; EP1159469B1; EP1159469A1

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