

Title (en)
Electrolytic cell for the production of aluminum

Title (de)
Elektrolysezelle zur Aluminiumgewinnung

Title (fr)
Cellule d'électrolyse pour l'obtention de l'aluminium

Publication
EP 0517100 B1 19970514 (DE)

Application
EP 92109006 A 19920529

Priority
DE 4118304 A 19910604

Abstract (en)
[origin: EP0517100A2] An improved electrolytic cell for the production of aluminium by molten-soft electrolysis using a continuous anode system and pre-fired anode blocks is proposed. The novel cell embodies, on the one hand, a new mounting system for the anode blocks, in which compressed granular packings made of carbon-containing material which are used for mounting and current conduction are placed at the long sides of the anode blocks. On the other hand, the cathode blocks of the cell may be placed individually at a distance from one another and from the cell-floor lining. A collecting tank for the aluminium deposited is formed underneath the cathode blocks. In this case, the cathode blocks may be roof-like or of half-barrel shape, the lower side of the anode blocks being shaped so as to match the shape of the oppositely situated cathode blocks.

IPC 1-7
C25C 3/12; **C25C 3/16**; **C25C 3/08**

IPC 8 full level
C25C 3/08 (2006.01); **C25C 3/12** (2006.01); **C25C 3/16** (2006.01); **C25C 3/22** (2006.01)

CPC (source: EP US)
C25C 3/08 (2013.01 - EP US); **C25C 3/125** (2013.01 - EP US); **C25C 3/16** (2013.01 - EP US); **C25C 3/22** (2013.01 - EP US)

Citation (examination)
• EP 0003598 A1 19790822 - VAW VER ALUMINIUM WERKE AG [DE]
• WO 8301465 A1 19830428 - ALUSUISSE [CH]
• US 4405433 A 19830920 - PAYNE JOHN R [US]

Cited by
EP0610373A4; US5665213A; FR3016892A1; WO9607773A1

Designated contracting state (EPC)
DE

DOCDB simple family (publication)
EP 0517100 A2 19921209; **EP 0517100 A3 19930324**; **EP 0517100 B1 19970514**; AU 1729292 A 19921210; AU 653404 B2 19940929; CA 2070372 A1 19921205; DE 4118304 A1 19921224; DE 59208475 D1 19970619; NO 920488 D0 19920206; NO 920488 L 19921207; RU 2041975 C1 19950820; US 5286353 A 19940215

DOCDB simple family (application)
EP 92109006 A 19920529; AU 1729292 A 19920601; CA 2070372 A 19920603; DE 4118304 A 19910604; DE 59208475 T 19920529; NO 920488 A 19920206; SU 5011797 A 19920603; US 89247092 A 19920602