

Title (en)  
A DRAINED CATHODE CELL FOR THE PRODUCTION OF ALUMINIUM

Title (de)  
ZELL FÜR ALUMINIUM-HERSTELLUNG MIT DRAINIERFÄHIGE KATHODE

Title (fr)  
CELLULE A CATHODE DRAINEE POUR LA PRODUCTION D'ALUMINIUM

Publication  
**EP 0996773 A1 20000503 (EN)**

Application  
**EP 98928496 A 19980707**

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Abstract (en)  
[origin: WO9902764A1] A drained cathode cell for the production of aluminium by the electrolysis of an aluminium compound dissolved in a molten electrolyte, in which a dimensionally stable active cathode surface (35) has a sloping aluminium-wettable surface (37) permitting the produced aluminium to drain from the cathode surface. The anodes (10) are carbon or non-carbon anodes with active faces (16) facing cathode surfaces (35) both at a slope up to about 60 DEG . The anode-cathode gap between the sloping anodes and cathodes is no more than 3 cm and is configured such that an upward circulation of the electrolyte is induced in the anode-cathode space by the anodically-released gases. An alumina-rich melt is fed at the lower part of the anode-cathode gap.

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