Title (en)

Bus bars arrangement for electrolytic cells.

Title (de)

Schienenanordnung für Elektrolysezellen.

Title (fr)

Agencement de barres d'amenée de courant pour cellules d'electrolyse.

Publication

EP 0097613 A1 19840104 (DE)

Application

EP 83810225 A 19830531

Priority

CH 383882 A 19820623

Abstract (en)

[origin: US4474611A] An asymmetric arrangement of busbars for conducting direct electric current is conducted from the cathode bar ends of a transversely disposed aluminum fused salt reduction cell to the anode beam of the next cell wherein a fraction of the busbars connected to the cathode bar ends on the upstream side of the cell are led under the cell such that the busbar configuration in the cathodic part of the cell is such that the variation in the asymmetry of the current leading the cell from the upstream cathode bar ends lies between 3 and 30%.

Abstract (de)

In einer asymmetrischen Schienenanordnung wird der elektrische Gleichstrom von den Kathodenbarrenenden (12, 14) einer quergestellten Aluminiumschmelzflusselektrolysezelle (10) zur Traverse (16) der Folgezelle (36) geleitet. Ein Teil der mit den stromauf liegenden Kathodenbarrenenden (12) verbundenen Stromschienen (18) führt unter Elektrolysezelle (10) durch. Die Schienenkonfiguration im kathodischen Teil der Eiektrolysezelle (10) ist derart konzipiert, dass die Variation der Asymmetrie des aus den stromauf liegenden Kathodenbarrenenden (12) austretenden Stromes zwischen 3 und 30% liegt.

IPC 1-7

C25C 3/16

IPC 8 full level

C25C 3/16 (2006.01)

CPC (source: EP US)

C25C 3/16 (2013.01 - EP US)

Citation (search report)

- [A] FR 2333060 A1 19770624 - PECHINEY ALUMINIUM [FR]
- [A] GB 2027056 A 19800213 - ALUSUISSE

Cited by

EP0185822A1; EP0345959A1; FR2789407A1; WO0046429A1

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0097613 A1 19840104; **EP 0097613 B1 19860730**; AT E21128 T1 19860815; AU 1595183 A 19840105; AU 563942 B2 19870730; CA 1232868 A 19880216; CH 648065 A5 19850228; DE 3364929 D1 19860904; IS 1260 B6 19861124; IS 2813 A7 19831224; NO 161688 B 19890605; NO 161688 C 19890913; NO 832244 L 19831227; US 4474611 A 19841002; ZA 834224 B 19840328

DOCDB simple family (application)

EP 83810225 A 19830531; AT 83810225 T 19830531; AU 1595183 A 19830620; CA 430908 A 19830622; CH 383882 A 19820623; DE 3364929 T 19830531; IS 2813 A 19830609; NO 832244 A 19830621; US 50303483 A 19830610; ZA 834224 A 19830609