

Title (en)

Arrangement of busbars on large, transversely disposed electrolysis cells.

Title (de)

Anordnung der Stromschienen bei grossen quergestellten Elektrolysezellen.

Title (fr)

Agencement de conducteurs concernant des cuves d'électrolyse placées en travers.

Publication

EP 0345959 A1 19891213 (EN)

Application

EP 89305150 A 19890522

Priority

NO 882485 A 19880606

Abstract (en)

A potline for the electrolytic production of aluminium comprises rows of reduction cells with the cells arranged transversely in each row, each cell having at least one conductor (R) projecting through the bottom of the cell for each carbon cathode block. About half of the electric current is conducted to a cathode collector busbar (B1) and the other half to another collector busbar (B2). The cathode collector busbars (B1,B2) are disposed underneath the cell adjacent each of its long sides. Electric current from the collector busbar (B1) which is disposed at the largest distance from the next cell in the row, is conducted to the next cell via two busbars (K1,K6) provided at the short ends of the cell and via one or more pairs of busbars provided underneath the cell. The two busbars (K1,K6) at the short ends of the cell may have a cross section enabling them to conduct about twice as much current as each of the busbars being provided underneath the cells.

IPC 1-7

C25C 3/16

IPC 8 full level

C25C 3/16 (2006.01)

CPC (source: EP)

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Citation (search report)

- [A] GB 2147610 A 19850515 - PECHINEY ALUMINIUM
- [A] US 4194958 A 19800325 - NEBELL HANS G T [NO]
- [A] CH 641209 A5 19840215 - ALCAN RES & DEV [CA]
- [A] EP 0097613 A1 19840104 - ALUSUISSE [CH]

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