

Title (en)

SUPERSTRUCTURE WITH INTERMEDIATE PORTAL FOR AN ELECTROLYSIS VAT USED IN THE PRODUCTION OF ALUMINIUM

Publication

EP 0210111 B1 19890712 (FR)

Application

EP 86420140 A 19860527

Priority

FR 8508578 A 19850530

Abstract (en)

[origin: US4720333A] The invention concerns a superstructure for a tank for the production of aluminum using the Hall-Heroult process by the electrolysis of alumina in molten cryolite, the tank being formed by a rigid metal heat-insulated casing of elongate parallelepipedic shape, the two ends of which are referred to as heads, and a superstructure formed by at least one rigid beam disposed along the long length of the casing, supporting in particular the anodic bus and the anodes and resting at its two ends on supports disposed at the two head ends of the tank, said superstructure being characterized in that each rigid beam is supported on at least one intermediate gantry in the central part thereof. The gantry may comprise four legs so as to constitute an inherently stable structure or it may be formed by two half-elements each provided with two legs. Preferably, each rigid beam is divided into two equal portions, the central ends of which are supported on the gantry.

IPC 1-7

C25C 3/10

IPC 8 full level

C25C 3/08 (2006.01); **C25C 3/10** (2006.01)

CPC (source: EP US)

C25C 3/10 (2013.01 - EP US)

Cited by

EP0584024A1; FR2694945A1; US5378338A

Designated contracting state (EPC)

AT CH DE GB IT LI NL SE

DOCDB simple family (publication)

US 4720333 A 19880119; AT E44555 T1 19890715; AU 576469 B2 19880825; AU 5805586 A 19861204; BR 8602470 A 19870127; CN 1007360 B 19900328; CN 86103590 A 19870128; DE 3664342 D1 19890817; EP 0210111 A1 19870128; EP 0210111 B1 19890712; ES 555444 A0 19870416; ES 8705051 A1 19870416; FR 2582677 A1 19861205; FR 2582677 B1 19900817; GR 861372 B 19860827; HU 198532 B 19891030; HU T44632 A 19880328; IN 166372 B 19900421; IS 1372 B6 19890630; IS 3102 A7 19861201; JP S6289889 A 19870424; NO 862132 L 19861201; NZ 216335 A 19900129; OA 08332 A 19880229; YU 91086 A 19871231; ZA 864014 B 19870128

DOCDB simple family (application)

US 86814586 A 19860529; AT 86420140 T 19860527; AU 5805586 A 19860529; BR 8602470 A 19860529; CN 86103590 A 19860529; DE 3664342 T 19860527; EP 86420140 A 19860527; ES 555444 A 19860529; FR 8508578 A 19850530; GR 860101372 A 19860528; HU 227286 A 19860529; IN 339CA1986 A 19860430; IS 3102 A 19860528; JP 12461386 A 19860529; NO 862132 A 19860529; NZ 21633586 A 19860528; OA 58866 A 19860529; YU 91086 A 19860528; ZA 864014 A 19860529