Title (en)

MODULAR CATHODIC BLOCK AND CATHODE WITH A LOW-VOLTAGE DROP FOR HALL-HEROULT ELECTROLYSIS VATS

Publication

EP 0169152 B1 19871111 (FR)

Application

EP 85420107 A 19850611

Priority

FR 8410557 A 19840613

Abstract (en)

[origin: ES8604318A1] Carbonaceous cathode block of low voltage drop for aluminium electrolysis tanks using the Hall-Heroult process, the tanks including a metal parallelepiped tank supporting a cathode on which the liquid Al forms. The cathode consists of elongated carbon blocks placed in contact, each having a length/width ratio of at least 2 and in which is provided at least one groove into which is sealed a rod of steel dispersed parallel to the short of the tank, the end of which passes out through the large face of the tank and is connected to at least one cathode collector. - The novelty is that the sealing grooves are cut perpendicular to the major axis AA' of the block which is itself disposed parallel to the large side of the tank.
[origin: ES8604318A1] Carbonaceous cathode block of low voltage drop for aluminium electrolysis tanks using the Hall-Heroult process, the tanks including a metal parallelepiped tank supporting a cathode on which the liquid Al forms. The cathode consists of elongated carbon blocks placed in contact, each having a length/width ratio of at least 2 and in which is provided at least one groove into which is sealed a rod of steel dispersed parallel to the short of the tank, the end of which passes out through the large face of the tank and is connected to at least one cathode collector. - The novelty is that the sealing grooves are cut perpendicular to the major axis AA' of the block which is itself disposed parallel to the large side of the tank.

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