

Title (en)
GRAPHITIZED CATHODE BLOCKS

Title (de)
GRAPHITIERTE KATHODENBLÖCKE

Title (fr)
BLOCS CATHODIQUES GRAPHITES

Publication
EP 1481115 B1 20051207 (DE)

Application
EP 02796687 A 20021219

Priority
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Abstract (en)
[origin: DE10164008C1] Disclosed are graphitized cathode blocks for producing aluminum by electrolytically reducing aluminum oxide in a molten cryolite bath. The electrical resistance of the inventive cathode blocks has a V-shaped profile across the length of the cathode blocks, increases towards the ends, and has a place of discontinuity in the middle thereof. Also disclosed are a method for the production of said cathode blocks and the use thereof for producing aluminum.
[origin: DE10164008C1] Graphitized cathode block is composed of two parts and has a V-shaped profile of its electrical resistance over its length. The resistance has a discontinuity site in the center of the block and increases to the ends so that the ratio of the resistance on the ends of the parts to the resistance in the center is 1.05: 1. An Independent claim is also included for the production of the graphitized cathode block. Preferably the contact surfaces of the parts of the block are connected by mechanical pressing or by using a stamping composition or by adhering the contact surfaces.

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