

Title (en)

INERT COMPOSITE ELECTRODE, PARTICULARLY AN ANODE FOR MOLTEN SALT ELECTROLYSIS

Publication

EP 0220557 B1 19890524 (DE)

Application

EP 86113930 A 19861008

Priority

DE 3537575 A 19851022

Abstract (en)

[origin: ES2003380A6] An inert composite electrode, such as an anode, for molten salt electrolysis consists of an active part in the form of a plurality of bar-shaped active elements, in particular of ceramic oxide, which are arranged with their longitudinal axes mutually parallel and in mutually aligned groups, an electrode holder which comprises a current-conducting plate, with one main surface of which the active elements are in firm contact with their end surfaces, and a joining arrangement which joins the active elements together in groups and holds them in contact with the plate. This composite electrode is characterized in that the active elements each have a head section adjacent to the plate which is widened in the direction of the end surfaces adjacent to the plate substantially in a wedge shape considered in cross-sections lying perpendicular to the line of alignment of a group, and in that a clamping element has a wedging surface which is brought into contact with each of the two oppositely-lying wedging surfaces of the head section of the respective active element, the wedging angle of the clamping element substantially corresponding to that of the respective wedging surface of the head section.

IPC 1-7

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