

Title (en)

METHOD OF COATING BIPOLAR PLATES AND BIPOLAR PLATE

Title (de)

VERFAHREN ZUR BESCHICHTUNG VON BIPOLARPLATTEN UND BIPOLARPLATTE

Title (fr)

PROCÉDÉ DE REVÊTEMENT DE PLAQUES BIPOLAIRES ET PLAQUE BIPOLAIRE

Publication

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Application

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Abstract (en)

[origin: WO2022171844A1] The invention relates to a method of coating bipolar plates (1). It is characterized by at least the following method steps: – applying an epoxy resin-carbon mixture (2) at least to regions of at least one side (S) that is to be coated of a bipolar plate (1); – placing a die (3) onto the side (S) coated with epoxy resin-carbon mixture (2) of the bipolar plate (1) and fixing the die (3) relative to the bipolar plate with a fixed distance (x) between bipolar plate (1) and die (3); – curing the epoxy resin-carbon mixture (2) and removing the die (3); – roughening at least regions of the cured epoxy resin-carbon mixture coating (4); – hydrophilizing at least the roughened regions (4.1) of the epoxy resin-carbon mixture coating (4) by exposing at least the roughened regions (4.1) to a low-pressure plasma.

IPC 8 full level

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