

Title (en)

LAYER SYSTEM, BIPOLAR PLATE COMPRISING SUCH A LAYER SYSTEM, AND FUEL CELL PRODUCED THEREWITH

Title (de)

SCHICHTSYSTEM, BIPOLARPLATTE MIT EINEM SOLCHEN SCHICHTSYSTEM UND DAMIT GEBILDETE BRENNSTOFFZELLE

Title (fr)

SYSTÈME DE COUCHES, PLAQUE BIPOLAIRE MUNIE DE CE SYSTÈME DE COUCHES ET PILE À COMBUSTIBLE FORMÉE AVEC CE SYSTÈME

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Application

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Abstract (en)

[origin: WO2020200353A1] The invention relates to a layer system (1) for coating a bipolar plate (2), comprising at least one cover layer (1a) made of tin oxide, wherein at least one metal oxide of the group comprising tantalum oxide, niobium oxide, titanium oxide, zirconium oxide, and hafnium oxide is homogeneously dissolved in the tin oxide, and the electric conductivity of the cover layer (1a) is greater than or equal to 102 S/cm. The invention additionally relates to a bipolar plate (2, 2') with an anode side and a cathode side, comprising a substrate (2a, 2a') and such a layer system (1), and to a fuel cell (10) or an electrolyzer comprising such a bipolar plate (2, 2').

IPC 8 full level

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