

Title (en)

FUEL CELL COMPRISING A PERFORATED FILM THAT DISTRIBUTES THE COMBUSTIBLE GAS ACROSS THE ELECTRODE SURFACE

Title (de)

BRENNSTOFF-ZELLE MIT EINER DAS BRENNGAS BER DER ELEKTRODEN- OBERFL CHE VERTEILENDEN PERFORIERTEN FOLIE

Title (fr)

PILE COMBUSTIBLE POURVUE D'UN FILM PERFOR R PARTISSANT LE GAZ DE COMBUSTION SUR LA SURFACE DE L' ELECTRODE

Publication

**EP 1530812 A2 20050518 (DE)**

Application

**EP 03740435 A 20030708**

Priority

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Abstract (en)

[origin: WO2004021487A2] The invention relates to a fuel cell comprising a cathode-electrolyte-anode unit (7) and a structure which distributes the combustible gas across the electrode surface thereof. The surface of said structure, which faces the electrode (7A), is formed by a perforated film (1). The longitudinal axes (2a, 2a') of at least some of the holes (2, 2') or passage openings forming the perforation are differently inclined relative to the surface of the film such that the outlet port (2c) of the holes (2), which faces the electrode (7A), is preferably at least slightly directed towards the discharge (8A) side of the combustible gas from the fuel cell on the intake side (8Z) of the combustible gas into the fuel cell while the inlet port (2c') of the holes (2'), which faces the electrode (7A), is preferably at least slightly directed towards the intake side (8Z) of the combustible gas into the fuel cell on the discharge side (8A) of the combustible gas from the fuel cell. Alternatively, holes (2, 2') can be arranged essentially next to each other within the film (1), the inlet port (2b) of said holes (2, 2'), which lies opposite the electrode (7A), being alternately directed towards the combustible gas intake side (8Z) and towards the combustible gas discharge side (8A).

IPC 1-7

**H01M 8/02**

IPC 8 full level

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