

Title (en)

A METHOD FOR MANUFACTURING A PASSIVE DIRECT METHANOL FUEL CELL AND A PASSIVE DIRECT METHANOL FUEL CELL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER PASSIVEN DIREKT-METHANOL-BRENNSTOFFZELLE UND PASSIVE DIREKT-METHANOL-BRENNSTOFFZELLE

Title (fr)

PILE À COMBUSTIBLE PASSIVE AU MÉTHANOL DIRECT ET SON PROCÉDÉ DE FABRICATION

Publication

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Application

**EP 12784635 A 20121026**

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Abstract (en)

[origin: WO2013064726A1] The present invention relates to the field of generating electricity from chemical fuel and to fuel cells, and more particularly to a method for manufacturing a passive direct methanol fuel cell and to a passive direct methanol fuel cell. A passive direct methanol fuel cell (21, 22, 23) according to the present invention has a membrane electrode assembly structure (8, 12, 16, 27), which comprises a proton exchange membrane (9, 13, 17, 24, 26), current collector meshes (10, 14, 15, 18, 19) attached to both sides of said proton exchange membrane (9, 13, 17, 24, 26) by ultrasonic welding, and catalyst coating (11, 20) applied on and into said structure. The direct methanol fuel cell according to the present invention is very compact in size volume and weight, and produces substantial cost savings in manufacturing in comparison to direct methanol fuel cell according to prior art.

IPC 8 full level

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