

Title (en)

DEVICE FOR DETERMINING THE DISTRIBUTION OF CURRENT DENSITY IN FUEL CELLS

Title (de)

VORRICHTUNG ZUR BESTIMMUNG DER STROMDICHTEVERTEILUNG IN BRENNSTOFFZELLEN

Title (fr)

DISPOSITIF DESTINE A DETERMINER LA DISTRIBUTION DE LA DENSITE DE COURANT DANS DES PILES A COMBUSTIBLE

Publication

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Application

EP 05715016 A 20050224

Priority

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Abstract (en)

[origin: WO2005096001A1] The invention relates to a device for determining the distribution of current density in a fuel cell or in a fuel cell stack comprising at least one fuel cell having two bipolar plates (9), a membrane/electrode unit (12) and an end plate (8). The inventive device is characterized by at least one segmented, conductive plate (7) that is interposed between a bipolar plate and an end plate, every segment of said plate being electrically contacted via two wires (6) via contact points. In contrast to prior art, where often individual electrodes or flow fields are segmented for determining the distribution of density, the fuel cell to be examined remains unchanged when the inventive device is used. The additional segmented plate and optionally additional plates can simply be removed once the distribution of current density has been determined for this fuel cell.

IPC 8 full level

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Citation (search report)

See references of WO 2005096001A1

Citation (examination)

- US 5504471 A 19960402 - LUND MARK D [US]
- WO 03071258 A1 20030828 - CANTION AS [DK], et al

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