Title (en)

OPERATING CONCEPT FOR DIRECT METHANOL FUEL CELLS

Title (de)

BETRIEBSKONZEPT FÜR DIREKT-METHANOL-BRENNSTOFFZELLEN

Title (fr)

PROCEDE POUR FAIRE FONCTIONNER DES PILES A COMBUSTIBLE DIRECTES AU METHANOL

Publication

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Application

EP 00934911 A 20000413

Priority

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Abstract (en)

[origin: WO0065677A1] The inventive operating concept is provided for effecting the cold start of direct methanol fuel cells. According to the invention, the air is ousted from the cathodes by the residual gas located in the anodes after disconnecting the load (during the preceding operating phase). In addition, cathodic hydrogen is produced by feeding electric energy and is stored. For the start up, air is fed to the cathodes and hydrogen is fed to the anodes during the short-circuit operation. The operation is switched to methanol operation once the operating temperature is reached.

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IPC 8 full level

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CPC (source: EP US)

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