

Title (en)

METHOD FOR PRODUCING A THIN-FILM FUEL CELL

Title (de)

HERSTELLUNGSVERFAHREN FÜR EINE DÜNNFILM-BRENNSTOFFZELLE

Title (fr)

PROCÉDÉ DE FABRICATION DE PILE À COMBUSTIBLE EN COUCHES MINCES

Publication

EP 1958286 A1 20080820 (FR)

Application

EP 06842052 A 20061128

Priority

- FR 2006051241 W 20061128
- FR 0553669 A 20051130

Abstract (en)

[origin: FR2894077A1] The method involves depositing a porous carbon electrode on a gas diffusing substrate using plasma sputtering in a vacuum chamber. The electrode has a catalyst that is used to accelerate chemical reactions that take place in a fuel cell. A membrane having thickness less than 20 micrometers and made of proton conducting material is deposited on the electrode. Another porous carbon electrode comprising the catalyst is deposited on the membrane using plasma sputtering in the vacuum chamber. The former and latter electrodes respectively constitute anode and cathode of the fuel cell. An independent claim is also included for a thin film fuel cell.

IPC 8 full level

H01M 8/10 (2006.01); **H01M 4/86** (2006.01); **H01M 4/88** (2006.01)

CPC (source: EP KR US)

H01M 4/8605 (2013.01 - EP US); **H01M 4/88** (2013.01 - KR); **H01M 4/8807** (2013.01 - EP US); **H01M 4/881** (2013.01 - EP US); **H01M 4/8867** (2013.01 - EP US); **H01M 4/96** (2013.01 - KR); **H01M 8/0234** (2013.01 - EP US); **H01M 8/1004** (2013.01 - EP US); **H01M 4/92** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP US)

Citation (search report)

See references of WO 2007063245A1

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