

Title (en)
AIR BREATHING DIRECT METHANOL FUEL CELL

Title (de)
DIREKT-METHANOL-BRENNSTOFFZELLE MIT LUFTATMUNG

Title (fr)
PILE A COMBUSTIBLE A METHANOL DIRECT-AIR

Publication
EP 1342282 A4 20080102 (EN)

Application
EP 01996902 A 20011031

Priority
• US 0146140 W 20011031
• US 71314600 A 20001114

Abstract (en)
[origin: WO0241433A1] An air breathing direct methanol fuel cell is provided with a membrane electrode assembly (14), a conductive cathode assembly (18) that is permeable to air and directly open to atmospheric air, and a conductive anode assembly (16) that is permeable to methanol and directly contacting a liquid methanol source (12). Water loss from the cell is minimized by making the conductive cathode assembly (18) hydrophobic and the conductive anode assembly (16) hydrophilic.

IPC 1-7
H01M 8/10

IPC 8 full level
H01M 4/86 (2006.01); **H01M 8/02** (2006.01); **H01M 8/04** (2006.01); **H01M 8/10** (2006.01); **H01M 8/24** (2006.01)

CPC (source: EP US)
H01M 8/1009 (2013.01 - EP); **H01M 8/1011** (2013.01 - US); **H01M 8/2455** (2013.01 - EP); **H01M 8/0202** (2013.01 - EP);
Y02E 60/50 (2013.01 - EP)

Citation (search report)
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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0241433 A1 20020523; AU 2016802 A 20020527; EP 1342282 A1 20030910; EP 1342282 A4 20080102; JP 2004522257 A 20040722

DOCDB simple family (application)
US 0146140 W 20011031; AU 2016802 A 20011031; EP 01996902 A 20011031; JP 2002543732 A 20011031