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(54) Title: MEMBRANE AND MEMBRANE ELECTRODE ASSEMBLY WITH ADHESION PROMOTION LAYER

(57) Abstract: This application relates to membrane electrode assemblies (MEA's) that contain an ion conducting adhesion promotion layer to promote structural stability at the interface of the PEM and catalyst layer within the MEA.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/31807

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H01M 8/10**(2006.01)
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USPC: 429/33;252/62.2

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 429/33, 30; 252/62.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	US 2002/0142207 A1 (WATAKABE ET AL.) 03 October 2002, Abstract, paras. 1, 2, 7, 68, 69, 84, 121	1-3,13-16,26,27,37-40 11, 12, 17, 25, 35, 36
Y	US 6,495,278 B1 (SCHMID ET AL.) 17 December 2002, col. 1, lines 16-31; col. 5, lines 24-58; col. 6, line 36-col. 7, line 35.	7-10, 18, 21-23, 28, 31-34
A	US 6,756,147 B1 (BRONOLD ET AL.) 29 June 2004	1-40

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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INTERNATIONAL SEARCH REPORT

International application No.
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Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: polymer electrolyte, pem, adhesive, catalyst, adher\$, bond, bound, adhes\$