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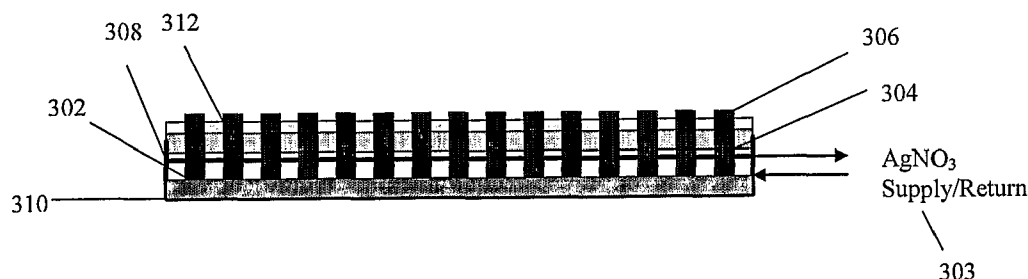
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ning of each regular issue of the PCT Gazette.*

(54) Title: ELECTRO-METHOD AND APPARATUS FOR IMPROVED CHEMICAL MECHANICAL PLANARIZATION PAD WITH UNIFORM POLISH PERFORMANCE



(57) Abstract: A polishing pad includes a guide plate having a plurality of holes therein and being affixed to a compressible under-layer; and a plurality of conducting polishing elements each affixed to the compressible under-layer and passing through a sealed contact with a proton exchange membrane and corresponding hole in the guide plate so as to be maintained in a substantially vertical orientation with respect to the compressible under-layer but being translatable in a vertical direction with respect to the guide plate. The polishing pad may also include a slurry distribution material fastened to the guide plate by an adhesive. Pad wear sensors may also be provided in the polishing pad.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/35660

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: **C25F 3/30**( 2006.01);**B23H 3/00**( 2006.01)  
B23H 7/12( 2006.01);H05K 3/06( 2006.01),3/26( 2006.01)

USPC: 204/224M,228.7,242,251,282,286.1,288.3;205/123,125,640,641,651,662,663,686  
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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 204/224M,228.7,242,251,282,286.1,288.3;205/123,125,640,641,651,662,663,686

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/0132120 A1 (Emesh et al) 17 July 2003 (17.7.2003), Figs. 7-10 and related discussions	1-6, 15
A	US 2001/0035354 A1 (Ashjaee et al) 1 November 2001 (1.11.2001), Fig. 4, 7-9 and 21-22 and related discussions	1-6 and 15

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

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