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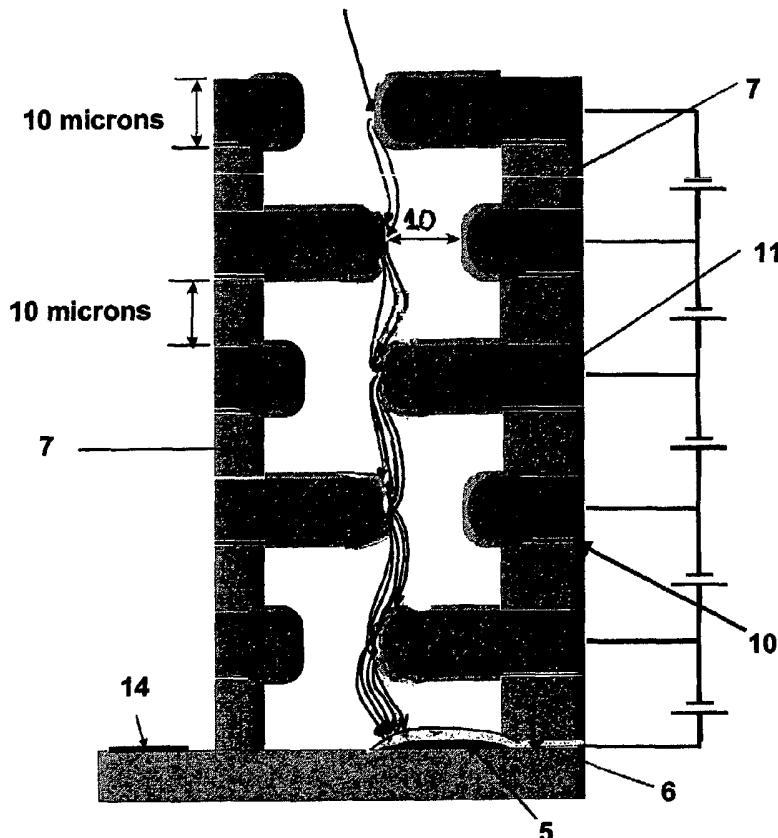
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(54) Title: ELECTRON MULTIPLIER ARRAY



(57) Abstract: The electron multiplier array consists of a plurality of multiplier channels (1) with each channel generally comprising a substrate (2), an anode (5) and a series of stacked insulation layers (7) and dynode layers (11) describing the walls of the channel neighbouring insulator and metallic layers being separated by planarising layers (10). The electron multiplier array is robust and reduces the extent of the correction required for variations in performance between channels.



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# INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01J43/24

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)  
IPC 7 H01J

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 practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 041 343 A (ORTHUBER RICHARD K) 9 August 1977 (1977-08-09) column 2, line 19 - line 66; figure 1 -----	1,3,4, 8-10
Y	WO 99/09577 A (COUNCIL CENT LAB RES COUNCILS) 25 February 1999 (1999-02-25) cited in the application page 4, line 7 - page 10, line 21; claims; figures -----	2-4,6-10
A	US 6 384 519 B1 (STEINBECK JOHN ET AL) 7 May 2002 (2002-05-07) figures 1, 2, 5A-D; column 9, line 3 - column 12, line 41; column 14, line 26 - column 16, line 57 ----- -/-	1,12,13
Y	US 6 384 519 B1 (STEINBECK JOHN ET AL) 7 May 2002 (2002-05-07) figures 1, 2, 5A-D; column 9, line 3 - column 12, line 41; column 14, line 26 - column 16, line 57 ----- -/-	2-4,6-10
A	US 6 384 519 B1 (STEINBECK JOHN ET AL) 7 May 2002 (2002-05-07) figures 1, 2, 5A-D; column 9, line 3 - column 12, line 41; column 14, line 26 - column 16, line 57 ----- -/-	1,12,13

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Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 428 810 B1 (BERGSTRAND PONTUS ET AL) 6 August 2002 (2002-08-06) cited in the application example 1 column 6, line 14 – line 16 claims 1-10 -----	1-13,25
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A	US 4 563 251 A (BECKER ERWIN ET AL) 7 January 1986 (1986-01-07) column 5, line 8 - line 58; figures 8,9 -----	1,12,13
A	US 6 215 243 B1 (JANNING JOHN L) 10 April 2001 (2001-04-10) column 11, line 27 - column 12, line 60; figures 4,7 -----	1,3,4, 6-10

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