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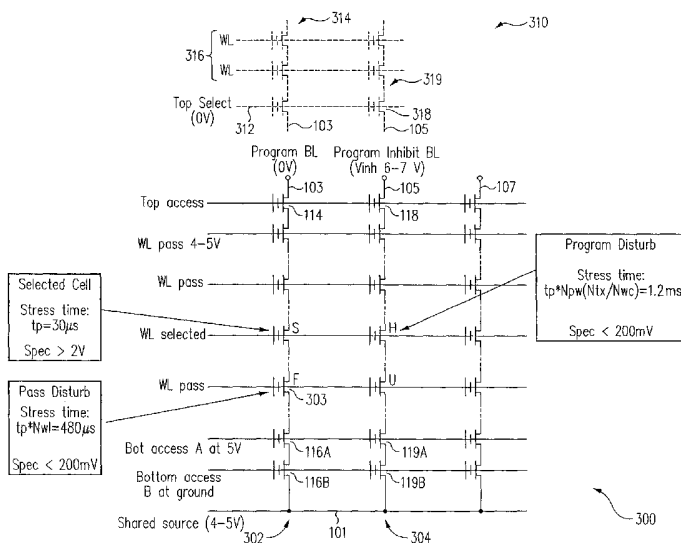
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[Continued on next page]

(54) Title: NAND MEMORY ARRAY INCORPORATING MULTIPLE WRITE PULSE PROGRAMMING OF INDIVIDUAL MEMORY CELLS AND METHOD FOR OPERATION OF SAME



(57) Abstract: An exemplary NAND string memory array provides for capacitive boosting of a half-selected memory cell channel to reduce program disturb effects of the half selected cell. To reduce the effect of leakage current degradation of the boosted level, multiple programming pulses of a shorter duration are employed to limit the time period during which such leakage currents may degrade the voltage within the unselected NAND strings. In addition, multiple series select devices at one or both ends of each NAND string further ensure reduced leakage through such select devices, for both unselected and selected NAND strings.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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IPC 7 G11C

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, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 991 202 A (DERHACOBIAN ET AL) 23 November 1999 (1999-11-23) column 4, lines 11-60 column 5, lines 49-60; figures 2,3	1-7, 10-27
Y	-----	8
Y	US 6 061 270 A (CHOI ET AL) 9 May 2000 (2000-05-09) column 6, line 61 - column 7, line 56; figure 8	8
Y	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 11, 30 September 1998 (1998-09-30) -& JP 10 149688 A (SONY CORP), 2 June 1998 (1998-06-02) abstract	8
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Further documents are listed in the continuation of box C.

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.
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INTERNATIONAL SEARCH REPORT

Annex to the International Search Report
on the International Patent Application

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