Title: METHOD AND APPARATUS FOR READ BITLINE CLAMPING FOR GAIN CELL DRAM DEVICES

Abstract: A dynamic random access memory (DRAM) storage device includes a storage cell (100) having a plurality of transistors (112, 114, 116) arranged in a gain cell configuration, the gain cell (100) coupled to a read bitline (RBL) and a write bitline (WBL). A dummy cell (200) as a clamping device for the read bitline (RBL), wherein the dummy cell (200) opposes a read bitline (RBL) voltage swing during a read operation of the storage cell (100).
(88) Date of publication of the international search report:
9 February 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codex and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(7) : G11C 7/00
   US CL : 365/189.06, 210, 149
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. : 365/189.06, 210, 149

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
   NONE

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>US 5,850,366 A (COLEMAN et al) 15 DECEMBER 1998, FIGURE 2</td>
<td>1-18</td>
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<td>A</td>
<td>US 5,923,593 A (HSU et al) 13 JULY 1999, figure 2</td>
<td>1-18</td>
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☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Date of the actual completion of the international search
   08 October 2005 (08.10.2005)

Date of mailing of the international search report
   19 DEC 2005

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