Title: ACTIVE LIQUID CRYSTAL DISPLAY DRIVERS AND DUTY CYCLE OPERATION

Abstract: A liquid crystal display (LCD) driving system includes a reference voltage generator to generate a plurality of reference voltages. The LCD driving system also includes a plurality of drive buffers to generate drive voltages according to at least one of the reference voltages, and to drive at least a portion of a liquid crystal display to present data according to the drive voltages.
A. CLASSIFICATION OF SUBJECT MATTER

IPAC(8) - G06F 3/038 (2009.01)
USPC - 345/212

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)

IPAC(8): G06F 3/038 (2009.01)
USPC: 345/212

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

IPAC(8): G06F 3/038 (2009.01) (text search - see terms below)
USPC: 345/87,204,211-214 (text search - see terms below)

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

PubWEST(USPT,PGP,B,EPAB,FAB); Google Patents, Google Scholar  Search terms:

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>X</td>
<td>US 6,225,922 B1 (Hsu et al.) 01 May 2001 (01.05.2001), Figs 4, 6, 12; col 3, In 60 to col 4, In 20; col 5, In 15 to col 6, In 23; col 7, In 43-49; col 11, In 20-59; col 16, In 45-60; col 17, In 49-58; col 20, In 66 to col 21, In 41</td>
<td>1-7, 9-20</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search

09 June 2009 (09.06.2009)

Date of mailing of the international search report

18 JUN 2009

Name and mailing address of the ISA/US

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Form PCT/ISA/210 (second sheet) (April 2007)