Title: SYSTEM AND METHOD FOR DRIVING A PLURALITY OF LOADS

Abstract: A system for controlling a plurality of load devices includes a high-side system operative to source current relative to at least two associated outputs. A low-side system is operative to sink current relative to a plurality of associated inputs. A control system controls the high-side system and the low-side system according to a multiplexing scheme that is operative to provide current to selected load devices of the plurality of load devices connected between the associated outputs and the associated inputs. The system can be implemented as an integrated circuit for driving the plurality of loads, which can include LEDs.
Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:
— with international search report

(88) Date of publication of the international search report: 4 May 2006

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

PCT/US05/10309

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : G05F 1/30
US CL : 315/291

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. : 315/291

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 practical, search terms used)
Please See Continuation Sheet

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 5,812,105 A (VAN DE VAN) 22 September 1998 (22.09.1998), Figures 3, 5; column 8, line 64 - column 9, line 62.</td>
<td>1, 12, 10, 11</td>
</tr>
<tr>
<td>Y</td>
<td>US 4,347,540 A (GARY et al) 31 August 1982 (31.08.1982), Figures 1-3; abstract; columns 9, 10, 14.</td>
<td>10, 11, 2-9, 13-33</td>
</tr>
</tbody>
</table>

See patent family annex.

Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search
17 January 2006 (17.01.2006)

Date of mailing of the international search report
24 JAN 2006

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Form PCT/ISA/210 (second sheet) (April 2005)
Continuation of B. FIELDS SEARCHED Item 3:
EAST: USPGPUB; USPAT; USOCR; EPO; IPO; IBM_TDB
search terms: (source near3 current) and (sink near3 current); (source near3 current) and (sink near3 current) and multiplex3 and (LED (light adj emitting adj diode)) adn *315*/$ccls.