Title: OPTICALLY ACTIVATED LINEAR SWITCH

Abstract: The present invention relates to a solid-state optically activated switch that may be used as limiting switch in a variety of applications or as a high voltage switch. In particular, the switch may incorporate the photoconductive properties of a semiconductor to provide the limiting function in a linear mode. In one embodiment, a configuration of the switch allows for greater than 99.9999% off-state transmission and an on-state limiting of less than 0.001% of the incident signal.
(88) Date of publication of the international search report:
1 May 2014
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(B) - H01L 31/111 (2013.01)
USPC - 257/113
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 H01L 31/111 (2013.01)
USPC 257/113

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC 257/113; 257/107,113-118,918 (Keyword limited, terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase, Google Patents, Google Scholar (NPL); Keywords: Semiconductor nitride gallium ground electrode contact conductive optical switch sapphire wireless communication

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>
</table>
| L        | 2012 IEEE International Power Modulator and High Voltage Conference (IPMHC) 07 June 2012 (07.06.2012) table of contents see Page 12 | 1-31
| A        | US 2012/0120478 A1 (Julien et al.) 17 May 2012 (17.05.2012) entire document | 1-31

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:
  "A" document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search
03 February 2014 (03.02.2014)

Date of mailing of the international search report
27 FEB 2014

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