

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2019/085946

| A. CLASSIFICATION OF SUBJECT MATTER <i>H01S 5/183</i> (2006.01)i According to International Patent Classification (IPC) or to both national classification and IPC | | |
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| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) H01S 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 practicable, search terms used) EPO-Internal, 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 | DE 102005016052 A1 (AGILENT TECHNOLOGIES INC [US]) 02 March 2006 (2006-03-02) paragraph [0053]; figures 4, 7 | 1-16 |
| X | WO 2018134086 A1 (OSRAM OPTO SEMICONDUCTORS GMBH [DE]) 26 July 2018 (2018-07-26) page 31 - page 32; figure 15E | 1,9 |
| A | WO 2012031932 A1 (OSRAM OPTO SEMICONDUCTORS GMBH [DE]; GEBUHR TOBIAS [DE] ET AL.) 15 March 2012 (2012-03-15) figure 4A | 1-16 |
| <input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex. | | |
| <p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p> <p>“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>“&” document member of the same patent family</p> | | |
| Date of the actual completion of the international search 13 March 2020 | | Date of mailing of the international search report 23 March 2020 |
| Name and mailing address of the ISA/EP European Patent Office p.b. 5818, Patentlaan 2, 2280 HV Rijswijk Netherlands Telephone No. (+31-70)340-2040 Facsimile No. (+31-70)340-3016 | | Authorized officer Flierl, Patrik Telephone No. |

INTERNATIONAL SEARCH REPORT
Information on patent family members

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