

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2019/081913

A. CLASSIFICATION OF SUBJECT MATTER*H01S 5/14*(2006.01); *H01S 3/109*(2006.01)n; *H01S 5/028*(2006.01)n

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)

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	QING-YANG XU ET AL. "Theoretical Analysis of Intra-Cavity Second-Harmonic Generation of Semiconductor Lasers by a Periodically Poled Nonlinear Crystal Waveguide" <i>IEEE JOURNAL OF QUANTUM ELECTRONICS, IEEE SERVICE CENTER, PISCATAWAY, NJ, USA</i> , Vol. 47, No. 4, 01 April 2011 (2011-04-01), pages 462-470 DOI: 10.1109/JQE.2010.2091625 ISSN: 0018-9197, XP011478511 page 463, left column, last paragraph - right column, paragraph 1; figure 1b page 466, right column, paragraph 2 - page 468, left column, paragraph 1	1-10,12,13
X	E. U. RAFAILOV ET AL. "Efficient frequency doubling of a pulsed laser diode by use of a periodically poled KTP waveguide crystal with Bragg gratings" <i>OPTICS LETTERS, US</i> , Vol. 26, No. 24, 15 December 2001 (2001-12-15), page 1961 DOI: 10.1364/OL.26.001961 ISSN: 0146-9592, XP055664065 page 1961, left column, last paragraph - page 1962, right column, paragraph 1; figure 2	1,2,6-10,12,13
X	US 2008317072 A1 (ESSAIAN STEPAN [US] ET AL.) 25 December 2008 (2008-12-25) paragraphs [0018] - [0026], [0033] - [0036]; figures 1,3,4	1,8-13

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

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"&" document member of the same patent family

Date of the actual completion of the international search

04 February 2020

Date of mailing of the international search report

13 February 2020

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1586940 A1 (MATSUSHITA ELECTRIC IND CO LTD [JP]; NGK INSULATORS LTD [JP]) 19 October 2005 (2005-10-19) paragraphs [0031] - [0071]; figure 1	1-9,11-13
X	SHINOZAKI K ET AL. "SELF-QUASI-PHASE-MATCHED SECOND-HARMONIC GENERATION IN THE PROTON-EXCHANGED LINBO3 OPTICAL WAVEGUIDE WITH PERIODICALLY DOMAIN-INVERTED REGIONS" <i>APPLIED PHYSICS LETTERS, A I P PUBLISHING LLC, US,</i> Vol. 59, No. 5, 29 July 1991 (1991-07-29), pages 510-512 DOI: 10.1063/1.105422 ISSN: 0003-6951, XP000233660 page 510, left column, last paragraph - page 512, right column; figure 1	1-9,11-13
A	EP 2738600 A1 (NGK INSULATORS LTD [JP]) 04 June 2014 (2014-06-04) paragraph [0027]; figures 1a,1b	10

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

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