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(54) Title: OUTPUT POWER STABILIZATION FOR LASER DIODES USING THE PHOTON-COOLING DEPENDENT LASER VOLTAGE

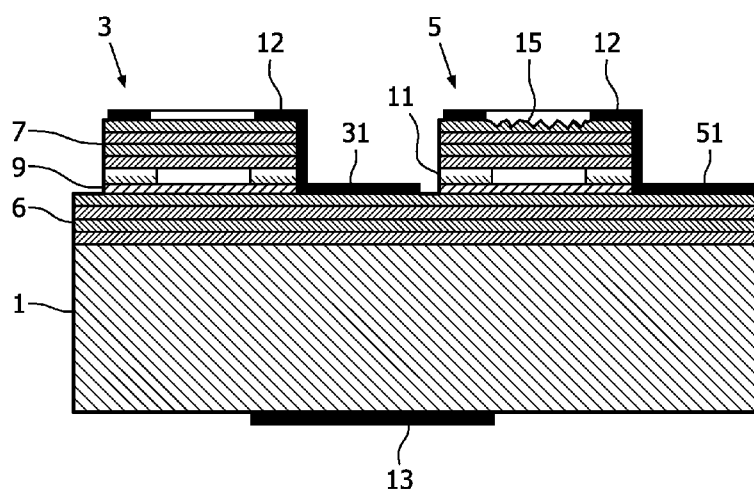


FIG. 2

(57) Abstract: It is an object of the invention to simplify the power stabilization of laser diodes. For this purpose, a laser device comprising a die and thereon a first laser diode (3) and a second laser diode (5) is provided. The second laser diode has a structure or element that avoids lasing if a supply voltage is applied that is sufficient for the first semiconductor laser cavity to emit laser light.



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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 practical, search terms used)

EPO-Internal, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2008/108475 A1 (NIPPON TELEGRAPH & TELEPHONE [JP]; FUJIWARA NAOKI [JP]; ISHII HIROYUKI) 12 September 2008 (2008-09-12) figures 2b,2c & EP 2 120 301 A1 (NIPPON TELEGRAPH & TELEPHONE [JP]) 18 November 2009 (2009-11-18) -----	3-5, 9-12,15
A	US 4 622 672 A (COLDREN LARRY A [US] ET AL) 11 November 1986 (1986-11-11) figures 1,3 -----	3-5, 9-12,15

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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