

- [54] OPTICALLY PUMPED LASER
- [75] Inventors: Thomas Wolfram, Wheaton; Bruce A. Vojak, Naperville; Edward T. Maas, Jr., Batavia; Robert D. Burnham, Wheaton, all of Ill.
- [73] Assignee: Amoco Corporation, Chicago, Ill.
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- [51] Int. Cl.⁴ H01S 3/091
- [52] U.S. Cl. 372/75; 372/46; 372/50; 372/71
- [58] Field of Search 372/43, 45, 46, 50, 372/69, 70, 71, 75

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- 4,791,631 12/1988 Baumert et al. 372/75
- Primary Examiner—William L. Sikes
- Assistant Examiner—B. R. R. Holloway
- Attorney, Agent, or Firm—Gary C. Cunningham; William H. Magidson; Ralph C. Medhurst

[57] **ABSTRACT**

An optically pumped laser which includes a laser diode array for generating optically pumped radiation having a uniform intensity distributed over a broad band-width, and a lasant material with an absorption band for receiving radiation within such bandwidth.

27 Claims, 6 Drawing Sheets

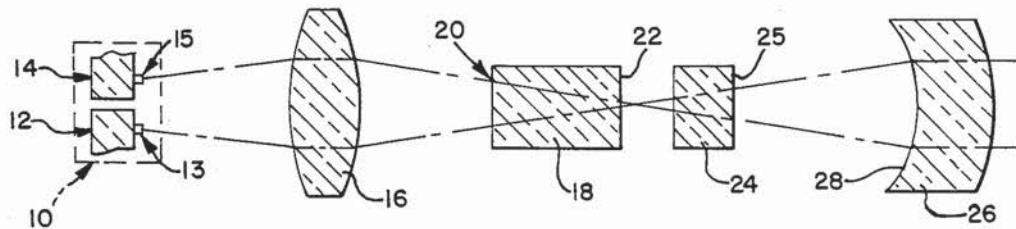


FIG. 1

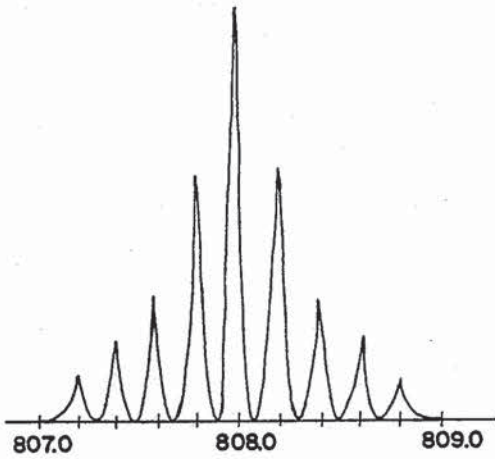
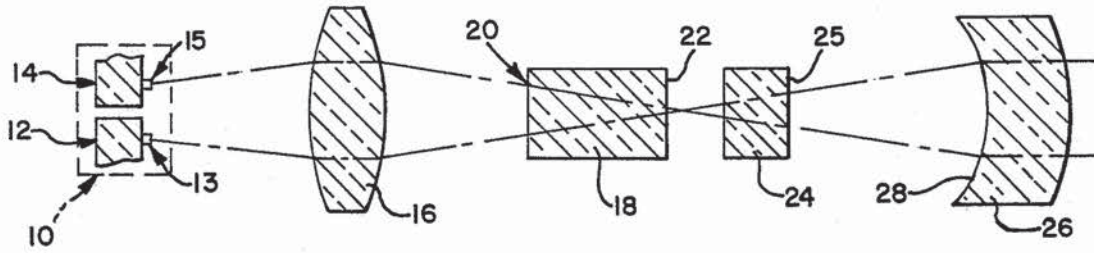


FIG. 2a

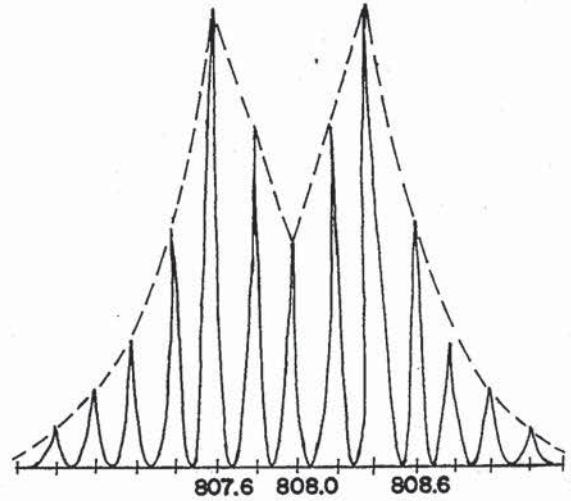


FIG. 2b

FIG. 2c

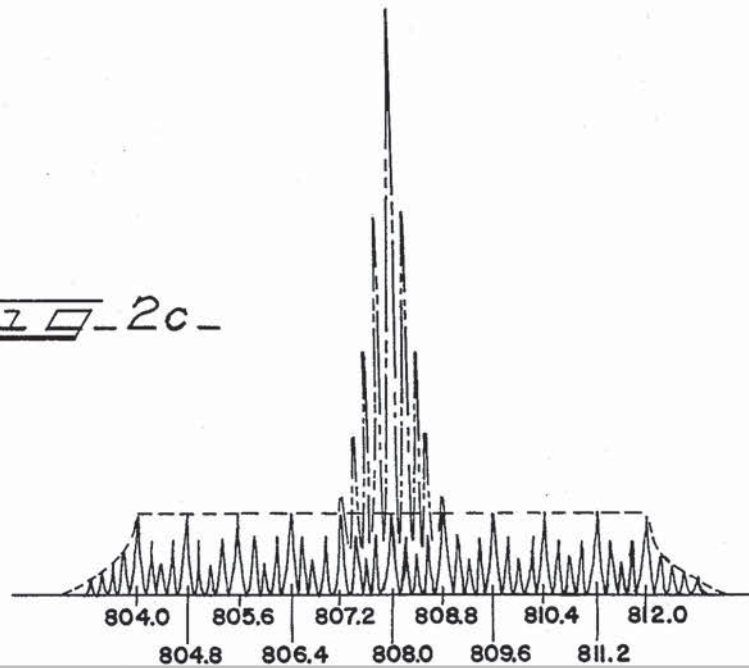


FIG. 3

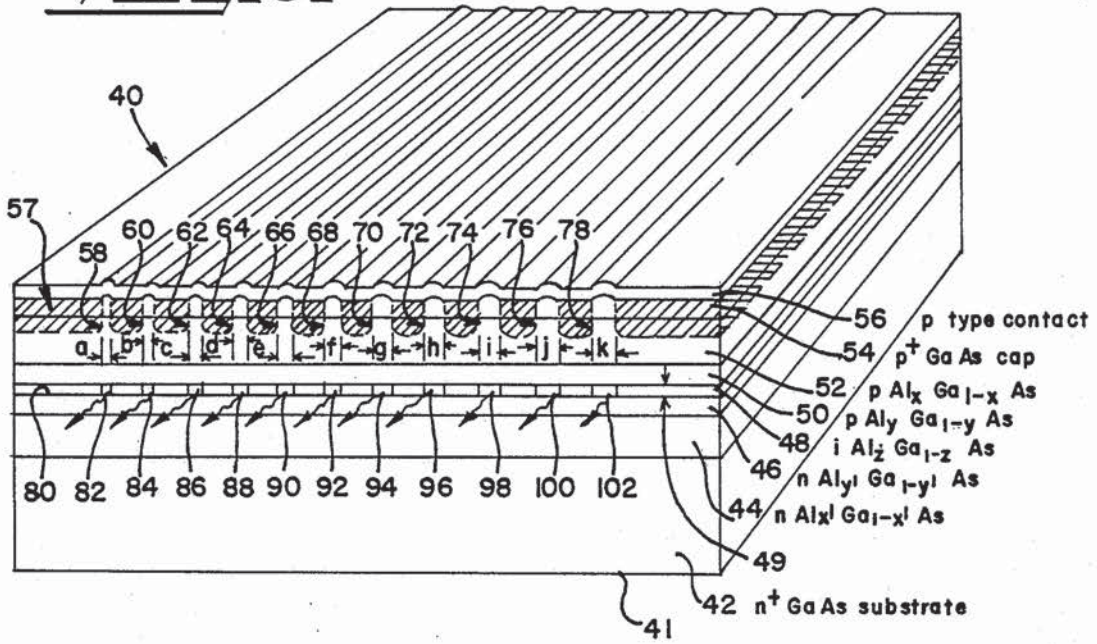


FIG. 4

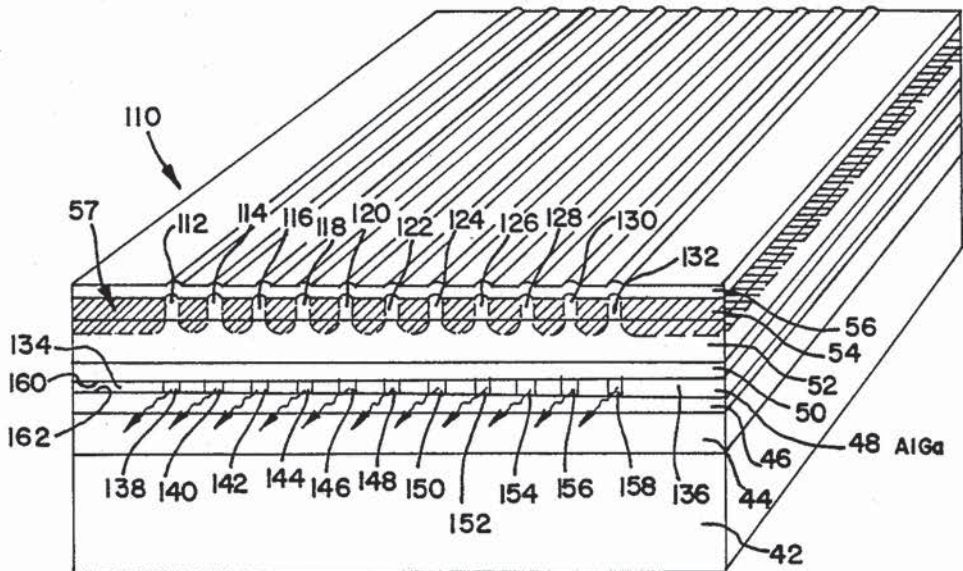


FIG. 5

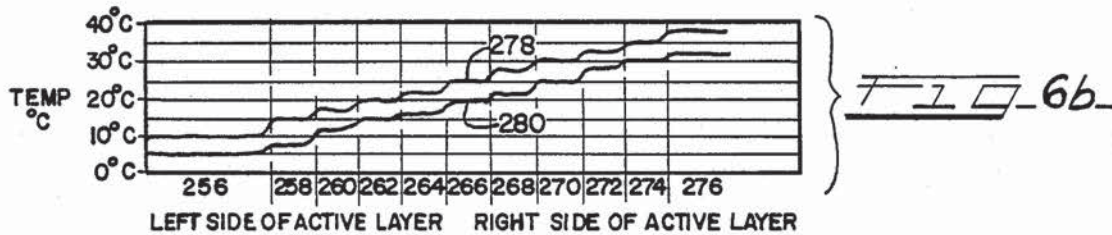
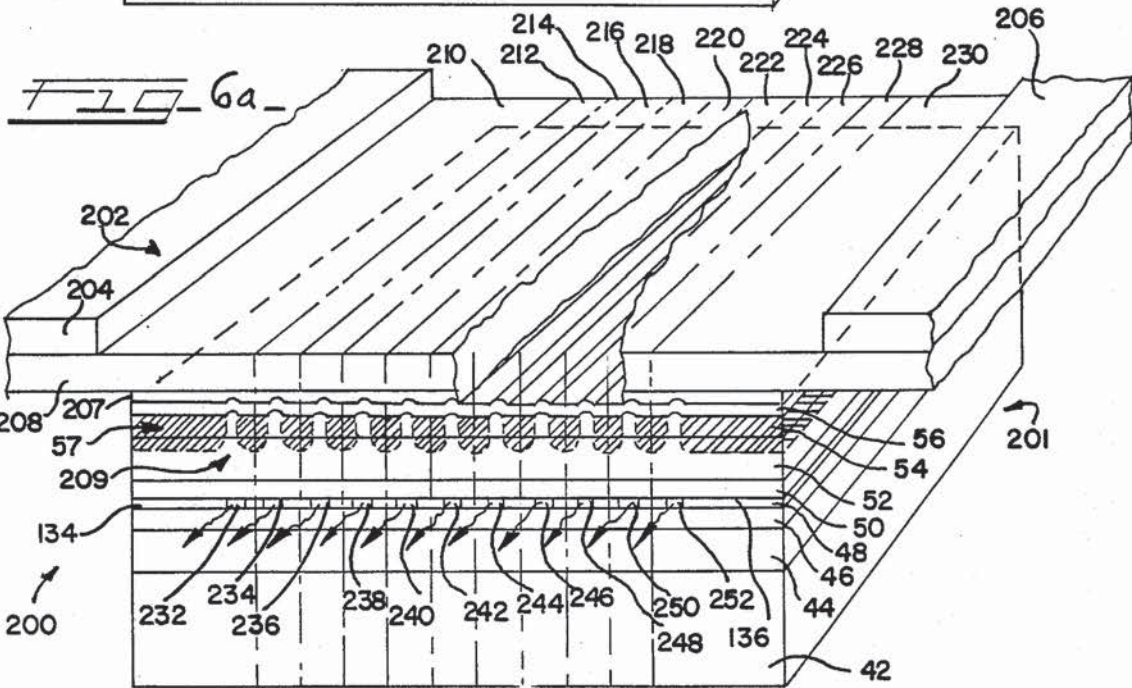
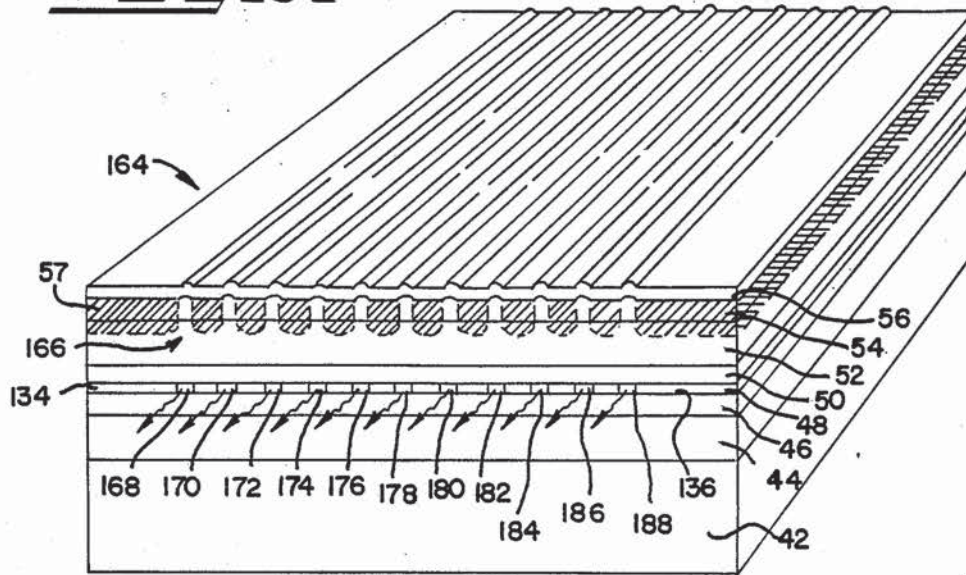


FIG-7-

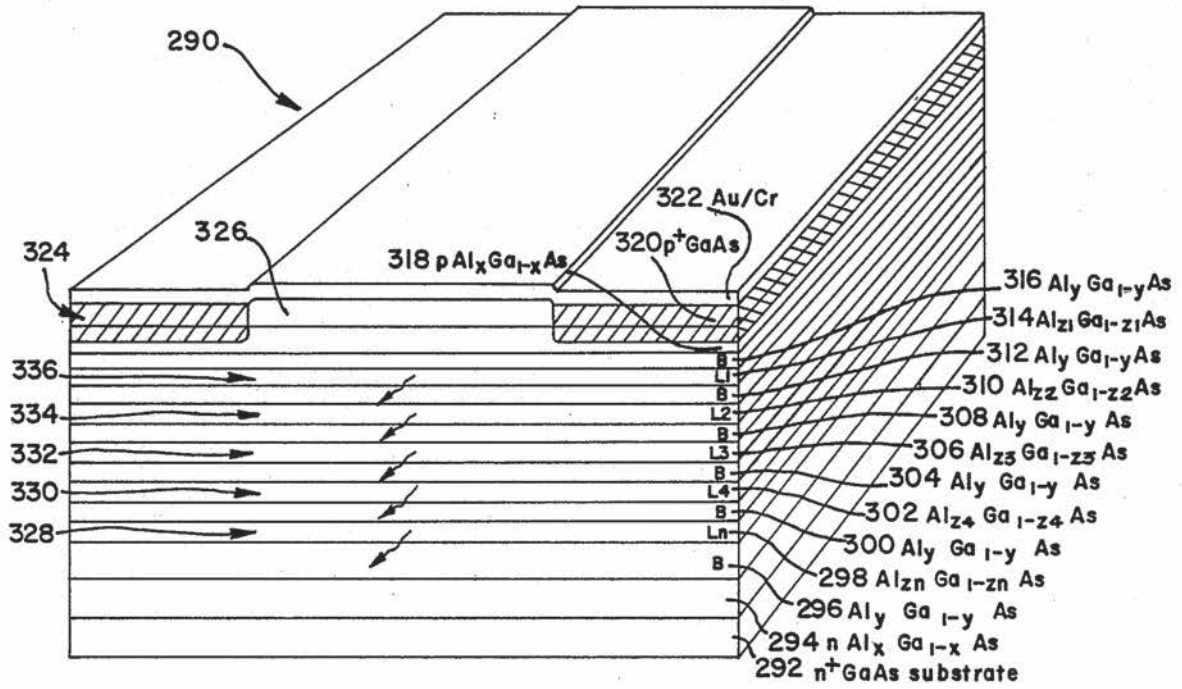
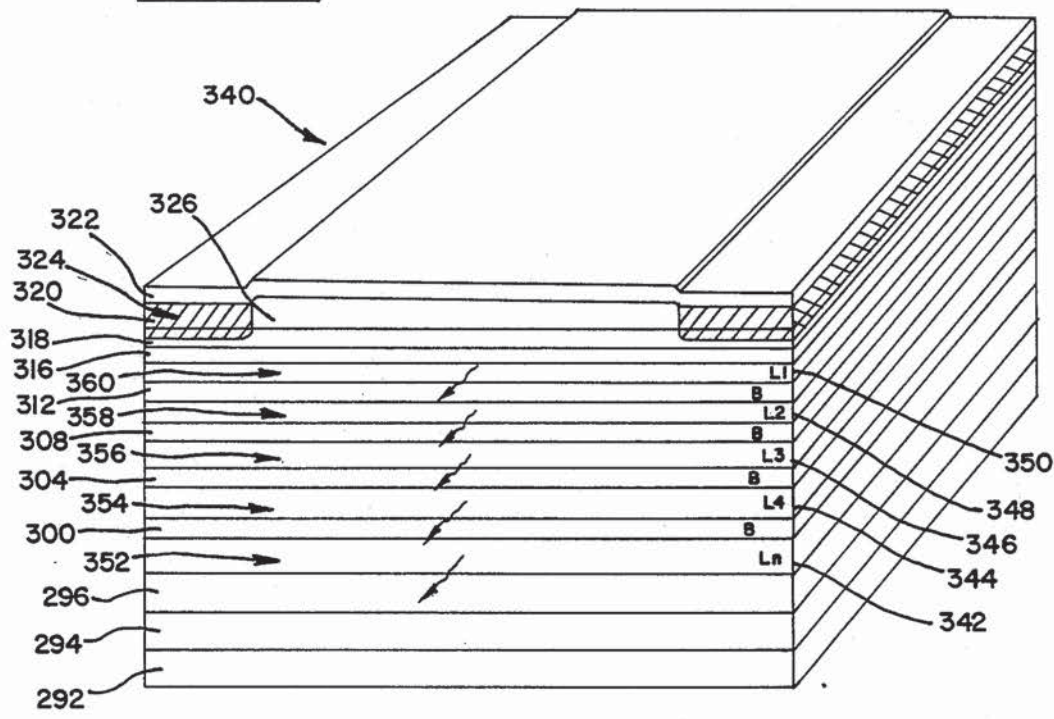


FIG-8-



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