

United States Patent [19]

Carney et al.

[11] Patent Number: **4,577,321**

[45] Date of Patent: **Mar. 18, 1986**

[54] **INTEGRATED QUANTUM WELL LASERS FOR WAVELENGTH DIVISION MULTIPLEXING**

[75] Inventors: **James K. Carney**, Eden Prairie;
Robert M. Kolbas, Bloomington,
both of Minn.

[73] Assignee: **Honeywell Inc.**, Minneapolis, Minn.

[21] Appl. No.: **533,187**

[22] Filed: **Sep. 19, 1983**

[51] Int. Cl.⁴ **H01S 3/19**

[52] U.S. Cl. **372/50; 372/45**

[58] Field of Search **372/44, 45, 46, 50;**
357/17

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,982,207 9/1976 Dingle et al. 372/45
4,318,058 3/1982 Mito et al. 372/50

Primary Examiner—James W. Davie
Attorney, Agent, or Firm—Omund R. Dahle

[57] **ABSTRACT**

An integrated quantum well laser structure which has a plurality of quantum well lasers for providing a plurality of light beams each having a different wavelength for use in wavelength division multiplexing.

6 Claims, 3 Drawing Figures

