



US005166940A

# United States Patent [19]

[11] Patent Number: **5,166,940**

**Tumminelli et al.**

[45] Date of Patent: **Nov. 24, 1992**

[54] **FIBER LASER AND METHOD OF MAKING SAME**

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[21] Appl. No.: **710,766**

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[22] Filed: **Jun. 4, 1991**

### [57] ABSTRACT

[51] Int. Cl.<sup>5</sup> ..... **H01S 3/17**

A fiber optic laser includes a fiber optic element, and a Bragg grating means in the fiber optic element and defined by a periodic variation in the index of refraction of the element to enhance the narrow band response of the laser and/or increase the loss of unwanted frequencies. A method of making the fiber laser is also disclosed.

[52] U.S. Cl. .... **372/6; 372/75; 385/37; 385/15**

[58] Field of Search ..... **372/75, 6, 92; 385/37, 385/15, 31, 141**

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**31 Claims, 5 Drawing Sheets**

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