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(54) **MANUFACTURABLE VERTICAL EXTENDED CAVITY SURFACE EMITTING LASER ARRAYS**

(75) Inventors: **Andrei V. Shchegrov**, Campbell, CA (US); **Jason P. Watson**, San Jose, CA (US); **Dicky Lee**, Santa Clara, CA (US); **Arvydas Umbrasas**, Cupertino, CA (US); **Rene Dato**, Pleasanton, CA (US); **John Green**, Scotts Valley, CA (US); **Michael Jansen**, Palo Alto, CA (US); **Aram Mooradian**, Kentfield, CA (US)

(73) Assignee: **Arasor Corporation**, Mountain View, CA (US)

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H01S 5/00 (2006.01)

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(58) **Field of Classification Search** **372/50.124, 372/50.11, 21, 22, 100**
See application file for complete search history.

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Primary Examiner—Dung (Michael) T. Nguyen
(74) *Attorney, Agent, or Firm*—Richard Thill; Heller Ehrman LLP

(57) **ABSTRACT**

Arrays of vertical extended cavity surface emitting lasers (VECSELs) are disclosed. The functionality of two or more conventional optical components are combined into an optical unit to reduce the number of components that must be aligned during packaging. A dichroic beamsplitter selectively couples frequency doubled light out of the cavity. In one implementation the dichroic beamsplitter includes at least one prism.

17 Claims, 41 Drawing Sheets

