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Giaretta et al.

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(54) **MULTIPLE EMITTER VECSEL**

(76) Inventors: **Giorgio Giaretta**, Mountain View, CA (US); **Arvydas Umbrasas**, Cupertino, CA (US); **Michael Jansen**, Palo Alto, CA (US)

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(58) **Field of Classification Search** 372/21, 372/22, 50.11, 50.12, 50.124
See application file for complete search history.

(56) **References Cited**

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Primary Examiner — Armando Rodriguez
(74) *Attorney, Agent, or Firm* — Douglas L. Weller

(57) **ABSTRACT**

An extended cavity surface emitting laser has a first laser die with a first cavity and a first gain element and a second laser die with a second cavity and a second gain element. The first and second gain elements are in series to provide optical gain and optical feedback in an extended optical cavity configuration. The first and second gain elements provide optical gain and optical feedback in a common extended cavity with the first and second gain elements operating serially as a common extended cavity optical mode.

5 Claims, 17 Drawing Sheets

