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(54) **MULTIPLE EMITTER VECSEL**

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H01S 5/00 (2006.01)

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(58) **Field of Classification Search** **372/50.11, 372/50.12, 50.124, 53**
See application file for complete search history.

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(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.

51 Claims, 17 Drawing Sheets

