

Title (en)
A MICRO-ELECTROMECHANICALLY TUNABLE VERTICAL CAVITY PHOTONIC DEVICE AND A METHOD OF FABRICATION THEREOF

Title (de)
MIKROELEKTROMECHANISCH ABSTIMMBARE PHOTONISCHE VORRICHTUNG MIT VERTIKALEM RESONATOR UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
DISPOSITIF PHOTONIQUE A CAVITÉ VERTICALE, POUVANT ETRE ACCORDÉ DE MANIÈRE MICRO-ÉLECTROMÉCANIQUE ET SON PROCÉDÉ DE FABRICATION

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Application
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Abstract (en)
[origin: WO02075263A1] A tunable Fabry-Perot vertical cavity photonic device and a method of its fabrication are presented. The device comprises top and bottom semiconductor DBR stacks and a tunable air-gap cavity therebetween. The air-gap cavity is formed within a recess in a spacer above the bottom DBR stack. The top DBR stack is carried by a supporting structure in a region thereof located above a central region of the recess, while a region of the supporting structure above the recess and outside the DBR stack presents a membrane deflectable by the application of a tuning voltage to the device contacts.

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