

Title (en)

CONTINUOUSLY-TUNABLE EXTERNAL CAVITY LASER

Title (de)

KONTINUIERLICH ABSTIMMBARER LASER MIT EXTERNEM RESONATOR

Title (fr)

LASER A CAVITE EXTERIEURE ACCORDABLE EN CONTINU

Publication

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Application

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Abstract (en)

[origin: WO0024095A1] The present invention provides a continuously-tunable external cavity laser (ECL) with a compact form factor and precise tuning. A novel interference filter which may be used to tune the ECL provides an absence of mode-hopping and reduced feedback from both spurious interference (210) and reflections (214) in the external cavity. A novel tuning mechanism is disclosed which provides for mechanical FM tuning of a wide range ECL tuning elements such as an interference filter, a diffraction element and a retroreflector (122). A novel feedback circuit is disclosed which provides closed loop feedback for selecting output wavelength in a laser.

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