

Micro Electro Mechanical System (MEMS) Based Carbon Dioxide Laser

Disclosure Number

200000828

Technology Summary

A nominal 1-watt CO₂ gas laser no larger than a solid state diode laser is described. The laser including power supply can be constructed in a volume of 3x3x3 centimeters, whereas existing rf-driven CO₂ lasers are over 20-30 centimeters in length. The laser operates at a wavelength of 10 microns and is inherently eye-safe. It will find application in almost every area that currently uses shorter wavelength lasers.

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