

Title (en)
INTEGRATED OPTIC GYROSCOPE AND METHOD OF FABRICATION

Title (de)
INTEGRIERTER OPTISCHER KREISEL UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)
GYROSCOPE OPTIQUE INTEGRE ET PROCEDE DE FABRICATION

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Application
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Abstract (en)
[origin: CA2417113A1] An integrated optic gyro has a multi-level optical coil with a substrate and a bottom substrate having a respective top and bottom waveguide coil. A coupler has an input port, a first, second and third output port. A first optical fiber couples the top waveguide coil to the bottom waveguide coil. A second/third optical fiber connects the coupler's first/second output port to the top/bottom waveguide coil. A light source couples a light wave into the coupler's first input port. The coupler splits the light wave into substantially equal first and second output waves. The first wave forms a wave with a first rotational sense in the top and bottom waveguides and the second wave does the same in an opposite direction. A modulator means modulates the phase of the wave with the first and second rotational senses. A detector means provides a detected electrical signal.

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