Title (en)

SOLID STATE MULTI-OSCILLATING GYROLASER USING A<100> -CUT CRYSTALLINE GAIN MEDIUM

Title (de)

MULTIOSZILLATOR- FESTKÖRPERLASERGYROSKOP MIT KRISTALLINEM VERSTÄRKUNGSMEDIUM MIT A<100>-KRISTALLSCHNITT

Title (fr)

GYROLASER MULTIOSCILLATEUR A ETAT SOLIDE UTILISANT UN MILIEU A GAIN CRISTALLIN COUPE A<100>

Publication

EP 2232200 A1 20100929 (FR)

Application

EP 08861203 A 20081201

Priority

- EP 2008066510 W 20081201
- FR 0708843 A 20071218

Abstract (en)

[origin: WO2009077314A1] The invention relates to a "multi-oscillating" gyrolaser for measuring the angular speed or the relative angular position about a rotation axis, that comprises at least one annular optical cavity (1) and a solid-state amplifying medium (2) as well as a measuring device (6) arranged so that a first linear-polarisation propagation mode and a second linear-polarisation propagation mode perpendicular to the first mode can propagate in a first direction in the cavity, and so that a third linear-polarisation propagation mode parallel to the first mode and a fourth linear-polarisation propagation mode parallel to the second mode can propagate in the reverse direction in the cavity. The amplification medium is a cubic-symmetry crystal having an inlet face and an outlet face, said faces being substantially perpendicular to the crystallographic direction, and the different modes propagating in directions substantially perpendicular to said faces.

IPC 8 full level

G01C 19/66 (2006.01)

CPC (source: EP US)

G01C 19/66 (2013.01 - EP US); **G01C 19/667** (2013.01 - EP US)

Citation (search report)

See references of WO 2009077314A1

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

FR 2925153 A1 20090619; **FR 2925153 B1 20100101**; CN 101903741 A 20101201; CN 101903741 B 20120815; EP 2232200 A1 20100929; RU 2010129828 A 20120127; RU 2504732 C2 20140120; US 2010265513 A1 20101021; WO 2009077314 A1 20090625

DOCDB simple family (application)

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