

Title (en)

TRIAxIAL LASER RATE GYRO SYMMETRIZED WITH RESPECT TO ITS AXIS OF ACTIVATION

Title (de)

DREIACHSIGER RELATIV ZU SEINER BETÄTIGUNGSACHSE SYMMETRIERTER LASER-DREHGESCHWINDIGKEITSKREISEL

Title (fr)

GYROMETRE LASER TRIAXIAL SYMETRISE PAR RAPPORT A SON AXE D'ACTIVATION

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Application

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Abstract (en)

[origin: FR2759160A1] According to the invention, the rate gyro contains, within a single lamp, three square-shaped optical cavities (B, C, D) arranged so that each of the angles of a cavity (B, C, D) coincides and communicates with the angle of another cavity. A control mirror (M4 to M6) or reading mirror (M1 to M3) is connected to each pair of coinciding angles; the three cavities (B, C, D) communicate with a cathodic chamber (CK) by means of three cathodic capillaries (CK1 to CK3), and with an balance chamber (CE) by means of three balance capillaries (CE1 to CE3). The control mirrors (M4 to M6), reading mirrors (M1 to M3), cathodic capillaries (CK1 to CK3), balance capillaries (CE1 to CE3), and anodes are symmetric amongst themselves on the basis of 3-fold rotational symmetry about the axis of activation DELTA (i.e. they derive themselves from one another by rotating 120 DEG about the axis DELTA).

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