

Title (en)
IMPROVED BORESIGHT WITH SINGLE-BEAM TRIAXIAL MEASUREMENT

Title (de)
VERBESSERTE VISIEREINRICHTUNG MIT EINSTRAHLIG-DREIACHSIGER MESSUNG

Title (fr)
SYSTEME AMELIORE DE LIGNE DE VISEE A MESURE TRIAXIALE UTILISANT UN SEUL FAISCEAU

Publication
EP 0783663 A1 19970716 (EN)

Application
EP 95938138 A 19950929

Priority
• US 9512668 W 19950929
• US 31543894 A 19940930

Abstract (en)
[origin: WO9610729A1] Optical transceiver apparatus for measuring angular misalignment between two bodies in elevation, azimuth and roll utilizes a light transmitter (40) coupled to a first body such as an aircraft fuselage reference and a light receiver (12) coupled to a second body such as an aircraft wing or pylon. The receiver has an elevation/azimuth (EL/AZ) channel and a roll channel sharing a common objective lens, wherein a beam splitter (45) splits the beam generated by the laser diode (10) between the two channels. In the EL/AZ channel lenses are used to focus light onto a position sensitive detector (PSD) (46), while in the roll channel, a Thompson beam-splitting prism (13') or other suitable optimal element divides the two planes of polarization which are then focused on light detectors (16).

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G01B 11/26; **G01C 1/00**

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