

Title (en)

AUTO-TRACKING METHOD FOR A FREE SPACE OPTICAL COMMUNICATION SYSTEM

Title (de)

SPURNACHLAUFVERFAHREN FÜR EIN OPTISCHES FREIRAUMKOMMUNIKATIONSSYSTEM

Title (fr)

PROCEDE DE POURSUITE AUTOMATIQUE POUR SYSTEME DE COMMUNICATION OPTIQUE DANS L'ESPACE LIBRE

Publication

EP 1303930 A1 20030423 (EN)

Application

EP 01965103 A 20010710

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- EP 00114856 A 20000711

Abstract (en)

[origin: EP1172949A1] A free space optical communication system comprises a first unit (21) having a first transmitter (TX1) and a first receiver (RX1) and a second unit (22) having a second receiver (RX2) corresponding to the first transmitter and a second transmitter (TX2) corresponding to the first receiver, wherein the first and second transmitter and the first and second receiver comprise a reflective optical telescope, and optical fibre positioned in the focal region of the reflective optical telescope, and a positioning unit for moving the optical fibre in the direction of the optical axis of the telescope and within a plane perpendicular thereto. The unit is mounted on a tip-tilt positioning system electronically controlled (gimbal). This system provides an optical tracking function allowing a stable, secure, and high-bandwidth optical communication link. <IMAGE>

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