

Title (en)

METHOD AND APPARATUS FOR IMPLEMENTING A RECTANGULAR-CORE LASER BEAM-DELIVERY FIBER THAT PROVIDES TWO ORTHOGONAL TRANSVERSE BENDING DEGREES OF FREEDOM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR IMPLEMENTIERUNG EINER LASERSTRAHL-ABGEBENDEN FASER MIT RECHTECKIGEM KERN MIT ZWEI ORTHOGONAL-TRANSVERSALEN BIEGEFREIHEITSGRADEN

Title (fr)

PROCÉDÉ ET APPAREIL DE MISE EN OEUVRE D'UNE FIBRE D'ÉMISSION DE FAISCEAU LASER À COEUR RECTANGULAIRE OFFRANT DEUX DEGRÉS DE LIBERTÉ TRANSVERSAUX ORTHOGONAUX EN COURBURE

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Application

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Abstract (en)

[origin: WO2014123536A1] In various embodiments, an optical fiber module (100) includes an optical fiber (101) having a first end (102), a second end (104), and a twisted portion (106) between the first (102) and second ends (104) to enable the optical fiber (101) to provide two orthogonal transverse bending degrees of freedom. The twisted portion induces an optical distortion. The module (100) further includes a distortion compensation arrangement (108) that is configured to at least partially compensate for the optical distortion and a housing (110) that is configured to house at least a portion of the optical fiber (101) including the twisted portion.

IPC 8 full level

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