

Title (en)

METHOD AND APPARATUS FOR FIBER DELIVERY OF HIGH POWER LASER BEAMS

Title (de)

VERFAHREN UND VORRICHTUNG FÜR FASERABGABE VON HOCHLEISTUNGSLASERSTRAHLEN

Title (fr)

PROCÉDÉ ET APPAREIL D'AMENÉE DE FIBRE DE FAISCEAUX LASER À GRANDE PUISSANCE

Publication

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Application

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Abstract (en)

[origin: WO2014123538A1] In various embodiments, an optical fiber (11) includes a core (42) having a relatively large area selected so as to raise a threshold of stimulated Raman scattering or stimulated Brillouin scattering, or both, the core (42) having a high aspect ratio elongated cross-section and having a first refractive index. The core is narrower in a fast-axis direction and wider in a slow-axis direction, such that the fiber is mechanically flexible in the fast-axis direction and is mechanically rigid in the slow-axis direction.

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