

Title (en)

LASER FIBRE OPTIC BUNDLE

Title (de)

OPTISCHES FASERBÜNDEL FÜR LASERGERÄT

Title (fr)

FAISCEAU DE FIBRES OPTIQUES POUR DISPOSITIF LASER

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9904707A1] In accordance with the present disclosure, a laser fiber optic bundle (210, 310) is provided that includes a plurality of optical fibers (212, 312) each having an optical core (216, 314). The optical cores (216, 314) are separated from adjacent optical cores (216, 314) to reduce overlapping of laser light being transmitted by the individual fibers (212, 312). The spaced apart configuration of the optical cores (216, 314) can also reduce the occurrence of the tips of the fibers (212, 312) from being damaged due to the magnitude of the laser energy being transmitted. In a first embodiment, the optical cores (216) are coated with glue (214) that can include various types of epoxies. In a second embodiment the optical cores (314) are surrounded by a filler material (318), that can include various grades of powdered glass and/or glue material. The laser fiber bundle (210, 310) is suited for ablating tissue, particularly heart tissue during a TMR procedure.

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