

Title (en)

LASER ABLATION DEVICE AND CONTROL SYSTEM

Title (de)

VORRICHTUNG ZUR LASERABLATION UND STEUERUNGSSYSTEM

Title (fr)

DISPOSITIF D'ABLATION PAR LASER ET SYSTEME DE COMMANDE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9904709A1] This invention is an apparatus, and method for performing laser ablation, particularly trans-myocardial re-vascularization (TMR). For TMR, the method includes the steps of providing a lasing device (10) having a laser ablation member (11) (e.g., one or more optical fibers), advancing the laser ablation member (11) against the epicardium (52) of a patient, outputting laser energy from the laser ablation member (11) to ablate heart tissue, and create a channel (extending into the patient's ventricle (56), providing at least one control signal from a sensor (18) responsive to the ablation for controlling the laser ablation member (11) and/or the laser energy generated. The apparatus includes a lasing device (10) having a laser ablation member (11) and a detector (18) for detecting sound produced by the laser energy generated. The detector (18) is configured to generate, and transmit at least one signal in response to sound detected to a controller (17) associated with the laser energy generator. The controller (17) can then cause an event to occur with respect to the lasing process or signal the laser operator that an event has occurred.

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