

Title (en)

RAMAN-TRIGGERED ABLATION/RESECTION SYSTEMS AND METHODS

Title (de)

RAMAN-AUSGELÖSTE ABLATION-/RESEKTIONSSYSTEME UND VERFAHREN

Title (fr)

SYSTÈMES ET PROCÉDÉS D'ABLATION/RÉSECTION DÉCLENCHÉS PAR UN RAPPORTEUR RAMAN

Publication

EP 3182917 A1 20170628 (EN)

Application

EP 15756755 A 20150818

Priority

- US 201414464642 A 20140820
- US 2015045646 W 20150818

Abstract (en)

[origin: WO2016028749A1] A Raman-based resection system and methods of operation thereof are disclosed. The method includes producing, via an ablation laser, an interrogation electromagnetic radiation over a scanning point of a sample having been treated with a Raman reporter, the ablation laser illuminating the scanning point at an interrogation power level; acquiring, via a detector, a signal indicative of scattered photons emanating from the scanning point following the illumination; determining, via a processor, whether the acquired signal is indicative of the presence of the Raman reporter in and/or upon the scanning point; and, responsive to a determination of the presence of the Raman reporter in and/or upon the scanning point, producing, via the ablation laser, an ablation electromagnetic radiation over the scanning point to ablate tissue at the scanning point, wherein the ablation electromagnetic radiation is at a power level sufficient to ablate tissue.

IPC 8 full level

A61B 18/20 (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2016028749A1

Designated contracting state (EPC)

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