

Title (en)

LASER HANDPIECE HAVING ZERO TIME POSITIONING SYSTEM

Title (de)

LASERHANDSTÜCK MIT NULLZEITPOSITIONIERUNGSSYSTEM

Title (fr)

PIECE A MAIN D'ABLATION PAR LASER POURVUE D'UN SYSTEME DE POSITIONNEMENT A TEMPS ZERO

Publication

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Application

EP 99954763 A 19991006

Priority

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Abstract (en)

[origin: WO0019919A1] A laser ablation device is provided having a zero time positioning system. The laser ablation device includes a handpiece (14) having a sensor (28) adjacent the distal end of a tube (24) from which an optical fiber (12) exits the handpiece. This sensor (28) senses the fiber's position within the tube (24) by detecting a signal such as the red light which emanates from the fiber prior to firing. Upon detection of the red signal, the sensor (28) sends feedback information to a control module (22) which can suspend further advancement of the fiber. The sensor could include an infrared detector, a photo-detector, or a heat/temperature sensor. In an alternate embodiment of a zero time positioning system configured for closed surgery, a sensor (28) is provided for detecting a marker on the fiber sheath as the fiber sheath moves relative to the handpiece (14). Upon detection of the marker, the sensor sends feedback information to the control module which can suspend further advancement of the fiber.

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IPC 8 full level

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CPC (source: EP)

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