

Title (en)
APPARATUS FOR OPHTHALMOLOGICAL LASER SURGERY

Title (de)
VORRICHTUNG FÜR DIE OPHTHALMOLOGISCHE LASERCHIRURGIE

Title (fr)
DISPOSITIF POUR LA CHIRURGIE OPHTALMOLOGIQUE AU LASER

Publication
EP 2453853 A1 20120523 (DE)

Application
EP 09778679 A 20090923

Priority
EP 2009006879 W 20090923

Abstract (en)
[origin: WO2011035793A1] An apparatus for ophthalmological laser surgery comprises a contact surface (34), which bears with a shaping action on an eye (16) that is to be treated, components (12, 18, 20, 26, 40, 42) for providing focussed, pulsed laser treatment radiation and for directing the latter through the contact surface onto the eye, a measurement device (38) for measuring the position of the contact surface relative to the direction of propagation of the laser treatment radiation, wherein the measurement device provides position measurement data representative of the measured position of the contact surface at at least one location thereof, and an electronic evaluation and control arrangement (22), which is connected to the measurement device and which is designed to adjust the focal spot of the laser treatment radiation depending on the position measurement data. By measuring the position of the contact surface (34), the laser surgery apparatus permits compensation of unavoidable manufacturing tolerances of a contact element (32) forming the contact surface and therefore permits precise referencing of the anterior surface of the eye in relation to the laser surgery apparatus.

IPC 8 full level
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Citation (search report)
See references of WO 2011035793A1

Citation (examination)
WO 2008040436 A1 20080410 - ZEISS CARL MEDITEC AG [DE], et al

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