

Title (en)

SYSTEMS AND METHODS FOR LENTICULAR LASER INCISION

Title (de)

SYSTEME UND VERFAHREN FÜR LINSENFÖRMIGEN LASEREINSCHNITT

Title (fr)

SYSTÈMES ET MÉTHODES POUR UNE INCISION LENTICULAIRE AU LASER

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Application

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Abstract (en)

[origin: WO2020039328A1] Embodiments of this invention generally relate to ophthalmic laser procedures and, more particularly, to systems and methods for lenticular laser incision. In an embodiment, an ophthalmic surgical laser system comprises a laser delivery system for delivering a pulsed laser beam to a target in a subject's eye, an XY-scan device to deflect the pulsed laser beam, a Z-scan device to modify a depth of a focus of the pulsed laser beam, and a controller configured to form a top lenticular incision and a bottom lenticular incision of a lens in the subject's eye, where each of the top and bottom lenticular incision includes a center spherical portion and an edge transition portion that is not located on the same spherical surface as the spherical portion but has a steeper shape.

IPC 8 full level

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