

Title (en)

APPARATUS AND METHOD FOR GENERATING ULTIMATE SURFACES ON OPHTHALMIC LENSES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG VON FEINSTEN OBERFLÄCHEN AUF OPHTHALMISCHEN LINSEN

Title (fr)

APPAREIL ET PROCEDE PERMETTANT DE GENERER DES SURFACES DE FINITION SUR DES LENTILLES OPHTALMIQUES

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Application

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Abstract (en)

[origin: WO0050201A1] The apparatus comprises a base having orthogonal horizontal longitudinal axis, horizontal transversal axis and vertical axis, and a tool spindle having a motor and a lens surfacing tool mounted on a rotatable arbour of the motor. The apparatus also comprises a lens holder having a chuck for retaining an ophthalmic lens with a perimeter thereof defining a plane being substantially perpendicular to the longitudinal axis. A first linear slide is affixed to the base and has a first movable support and a first actuator for moving the first movable support along the longitudinal axis. A second linear slide is also affixed to the base and has a second movable support supporting the lens holder and a second actuator for moving the second movable support and the lens holder along the transversal axis. A rotary table is affixed to the first movable support and supports the tool spindle. The rotary table has a third actuator for rotating the rotary table about the vertical axis. A computer is provided for simultaneously controlling displacements of the first, second and third actuators, whereby the first, second and third actuators are operable in a compound mode for enhancing the precision of the movements of the lens surfacing tool in a direction normal to the ophthalmic lens.

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