Title (en)

OPHTHALMIC WAVEFRONT SENSOR OPERATING IN PARALLEL SAMPLING AND LOCK-IN DETECTION MODE

Title (de)

OPHTHALMISCHER WELLENFRONTSENSOR MIT EINEM PARALLELEN ABTASTUNGS- UND VERRIEGELUNGSERKENNUNGSMODUS

Title (fr)

CAPTEUR DE FRONT D'ONDE OPHTALMIQUE FONCTIONNANT EN MODE ÉCHANTILLONNAGE PARALLÈLE ET EN MODE DÉTECTION SYNCHRONE

Publication

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Application

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Priority

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- US 2013036850 W 20130417

Abstract (en)

[origin: WO2013165689A1] One embodiment of the present invention is an ophthalmic wavefront sensor for use with an ophthalmic microscope to provide continuous measurements of the refractive state of an eye. The wavefront sensor operates in both parallel sampling and lock-in detection mode by synchronizing the pulsing of the light source with a multiple number of position sensing devices/detectors used for detecting the centroid position of the sampled sub-wavefronts. Other embodiments include a beam scanner to sample selected portions of the wavefront and a live image sensor and a tracking deflector.

IPC 8 full level

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CPC (source: EP KR RU)

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Citation (search report)

See references of WO 2013165689A1

Designated contracting state (EPC)

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