

Title (en)

METHOD AND DEVICE FOR RECORDING AND DISPLAYING AN OCT WHOLE-EYE SCAN

Title (de)

VERFAHREN UND VORRICHTUNG ZUR AUFNAHME UND DARSTELLUNG EINES OCT-GANZAUGENSCANS

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LA RÉALISATION ET LA REPRÉSENTATION D'UN BALAYAGE COMPLET DE L'OEIL PAR OCT

Publication

**EP 2618720 A1 20130731 (DE)**

Application

**EP 11746485 A 20110818**

Priority

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- EP 2011004154 W 20110818

Abstract (en)

[origin: WO2012038011A1] The invention relates to the field of ophthalmology and serves for displaying the anterior and posterior portions of the eye, in particular the whole eye, wherein the displays are preferably based on optical coherence tomography scans. According to the invention, the eye is illuminated from a variable laser light source with a measurement range corresponding to the eye length, wherein the focus of the laser beam in the eye can be shifted laterally and/or axially by an adjustment mechanism, and the light fractions back-scattered from the sample are captured via an interferometer by a data acquisition unit and forwarded to a data processing unit. In the data processing unit, an OCT whole-eye scan is combined with at least one or several further overlapping tomographic part-eye or whole-eye scans, reference information is used to register the first whole-eye scan with the further part-eye or whole-eye scans, and the combined whole-eye scan is evaluated and/or displayed on a user surface. The main use of the present solution lies in ophthalmological diagnosis and therapy and in the preparation and the follow-up of surgical interventions.

IPC 8 full level

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CPC (source: EP US)

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