

Title (en)

HANDHELD PORTABLE FUNDUS IMAGING SYSTEM AND METHOD

Title (de)

HANDLICHES TRAGBARES AUGENGRUNDBILDGEBUNGSSYSTEM UND VERFAHREN

Title (fr)

SYSTÈME D'IMAGERIE DU FOND DE L'OEIL PORTATIF À MAIN ET PROCÉDÉ

Publication

EP 2473092 A1 20120711 (EN)

Application

EP 09848590 A 20090831

Priority

CA 2009001183 W 20090831

Abstract (en)

[origin: WO2011022803A1] A system and method for fundus imaging are provided wherein selective illumination of a sector, e.g. a half, of the field of view of the fundus, using off-axis illumination, provides images of acceptable clarity, resolution, and size, with significantly reduced reflections, in a compact system. By rotating illumination around the optical axis, other sectors of the fundus may be selectively and sequentially illuminated, and a combined image of the entire field of view of the fundus may be obtained by combining images, e.g. Two or more half images, obtained within a single shutter exposure period during which the light source is flashed at two or more positions. In particular, an illumination system using LED light sources and a rotatable occluder provides for a lightweight, handheld and portable fundus imaging system, which may take the form of a fundus camera, a fundus imaging lens module for regular camera, or an adapter which couples to the standard lens of a camera to create a low cost fundus camera.

IPC 8 full level

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CPC (source: EP)

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Cited by

US11147441B2; USD959661S; US9642517B2; US10238462B2; US11553981B2

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