

Title (en)

METHODS AND APPARATUS FOR DETECTING A PRESENCE AND SEVERITY OF A CATARACT IN AMBIENT LIGHTING

Title (de)

VERFAHREN UND VORRICHTUNG ZUM DETEKTIEREN EINER ANWESENHEIT UND SCHWERE EINES KATARAKTES BEI UMGEBUNGSBELEUCHTUNG

Title (fr)

PROCÉDÉS ET APPAREIL POUR DÉTECTER LA PRÉSENCE ET LA GRAVITÉ D'UNE CATARACTE DANS UN ÉCLAIRAGE AMBIANT

Publication

EP 4081095 A1 20221102 (EN)

Application

EP 19957419 A 20191227

Priority

US 2019068646 W 20191227

Abstract (en)

[origin: WO2021133402A1] Disclosed herein are methods and apparatus for making a determination about a cataract in an eye in ambient lighting conditions comprising: capturing, using an image capture device, one or more images of the eye of a subject, wherein each said image is captured using only ambient lighting conditions and wherein non-relevant reflections from the eye of the subject are managed while capturing the one or more images; determining, using a computing device in communication with the image capture device, one or more lens opacity qualities in each of the one or more images of the eye of the subject; and making a determination about a presence and/or severity of a cataract, optical distortion or opacity of the eye based on the one or more lens opacity qualities.

IPC 8 full level

A61B 3/10 (2006.01); **A61B 3/00** (2006.01); **A61B 3/06** (2006.01); **A61B 3/14** (2006.01)

CPC (source: EP)

A61B 3/028 (2013.01); **A61B 3/1176** (2013.01); **G06T 7/0012** (2013.01); **G06T 7/90** (2016.12); **G06T 2207/10024** (2013.01); **G06T 2207/30041** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021133402 A1 20210701; EP 4081095 A1 20221102; EP 4081095 A4 20231004

DOCDB simple family (application)

US 2019068646 W 20191227; EP 19957419 A 20191227