

Title (en)
METHOD AND APPARATUS FOR ADJUSTING AND CONTROLLING PARAMETERS OF THE ILLUMINATION AREA OF OPHTHALMOLOGICAL DEVICES

Title (de)
VERFAHREN UND VORRICHTUNG ZUR EINSTELLUNG UND KONTROLLE VON PARAMETERN DES BELEUCHTUNGSFELDES OPHTHALMOLOGISCHER GERÄTE

Title (fr)
PROCÉDÉ ET DISPOSITIF POUR AJUSTER ET COMMANDER DES PARAMÈTRES DU CHAMP D'ÉCLAIRAGE D'APPAREILS OPHTHALMOLOGIQUES

Publication
EP 4185182 A1 20230531 (DE)

Application
EP 21754929 A 20210721

Priority
• DE 102020209379 A 20200724
• EP 2021070317 W 20210721

Abstract (en)
[origin: WO2022018108A1] The present invention relates to a solution for adjusting and controlling parameters of the illumination area of ophthalmological devices. Brightness, color/color temperature, area shape, polarization state or the like can be considered as parameters, for example. The arrangement according to the invention consists of an actuating unit for adjusting the desired lighting parameters, an illumination unit for generating illumination radiation having the desired illumination parameters, a decoupling element for decoupling a part of the illumination radiation, a sensor element for analyzing the decoupled part of the illumination radiation and an evaluation unit for evaluating the sensor data and for determining the actual illumination parameters of the illumination radiation. According to the invention, the sensor element is a spatially resolving image sensor. The proposed solution is provided in particular for adjusting and controlling parameters of the illumination area of ophthalmological devices, but can also be applied to other technical fields, such as microscopy, for example.

IPC 8 full level
A61B 3/00 (2006.01); **A61B 3/10** (2006.01); **A61B 3/135** (2006.01); **A61B 3/14** (2006.01)

CPC (source: EP US)
A61B 1/0655 (2022.02 - US); **A61B 3/0008** (2013.01 - EP US); **A61B 3/0033** (2013.01 - EP); **A61B 3/1015** (2013.01 - EP); **A61B 3/135** (2013.01 - EP); **A61B 3/14** (2013.01 - EP); **A61B 3/135** (2013.01 - US)

Citation (search report)
See references of WO 2022018108A1

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)
DE 102020209379 A1 20220127; CN 116171126 A 20230526; EP 4185182 A1 20230531; JP 2023534526 A 20230809; US 2023284889 A1 20230914; WO 2022018108 A1 20220127

DOCDB simple family (application)
DE 102020209379 A 20200724; CN 202180059702 A 20210721; EP 2021070317 W 20210721; EP 21754929 A 20210721; JP 2023503457 A 20210721; US 202118006502 A 20210721