

Title (en)

CONTACTLESS VISUALIZATION SYSTEM FOR A SURGICAL MICROSCOPE FOR EYE SURGERY

Title (de)

KONTAKTLOSES VISUALISIERUNGSSYSTEM FÜR EIN OPERATIONSMIKROSKOP FÜR DIE AUGENCHIRURGIE

Title (fr)

SYSTÈME DE VISUALISATION SANS CONTACT POUR UN MICROSCOPE CHIRURGICAL POUR CHIRURGIE OCULAIRE

Publication

EP 4377734 A1 20240605 (DE)

Application

EP 22744450 A 20220706

Priority

- DE 102021119298 A 20210726
- EP 2022068718 W 20220706

Abstract (en)

[origin: WO2023006365A1] The invention relates to a contactless visualization system (1) for a surgical microscope (2) for eye surgery. The contactless visualization system (1) has an ophthalmoscopic magnifying glass (3) which can be positioned in front of a patient's eye (6) and which supplies a vertically and laterally inverted real image of the fundus (7) of the patient's eye (6) onto an intermediate image plane (8) which can be viewed using the surgical microscope (2). The ophthalmoscopic magnifying glass (3) has a first and a second lens (271, 272), wherein the first lens (271) is closer to the patient's eye (6) than the second lens (272) when positioned in front of the patient's eye (6), a wall (30) extends from the first lens (271) to the second lens (272), the free end (31) of said wall being designed as a mounting (32) in which the second lens (272) is mounted, and at least one through-opening (47, 48, 49) is formed in the wall (30) in order to remove liquid potentially present in the intermediate area between the first and second lens (271, 272).

IPC 8 full level

G02B 21/00 (2006.01); **A61B 3/12** (2006.01); **A61B 3/125** (2006.01); **A61B 3/13** (2006.01); **A61B 90/70** (2016.01); **G02B 7/02** (2021.01); **G02B 21/02** (2006.01); **G02B 25/00** (2006.01); **G02B 27/00** (2006.01)

CPC (source: EP US)

A61B 3/12 (2013.01 - EP); **A61B 3/125** (2013.01 - EP); **A61B 3/13** (2013.01 - EP); **A61B 90/20** (2016.02 - EP); **G02B 7/026** (2013.01 - EP); **G02B 21/0012** (2013.01 - EP US); **G02B 21/02** (2013.01 - EP); **G02B 21/24** (2013.01 - US); **G02B 25/008** (2013.01 - EP); **G02B 27/0006** (2013.01 - EP); **A61B 2090/3616** (2016.02 - EP)

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 102021119298 A1 20230126; CN 117693702 A 20240312; EP 4377734 A1 20240605; US 2024210670 A1 20240627; WO 2023006365 A1 20230202

DOCDB simple family (application)

DE 102021119298 A 20210726; CN 202280051290 A 20220706; EP 2022068718 W 20220706; EP 22744450 A 20220706; US 202418422785 A 20240125