

Title (en)  
RETINAL IMAGER DEVICE AND SYSTEM WITH EDGE PROCESSING

Title (de)  
NETZHAUTBILDGEBER UND SYSTEM MIT KANTENVERARBEITUNG

Title (fr)  
DISPOSITIF IMAGEUR RÉTINIEN ET SYSTÈME AVEC TRAITEMENT DE BORD

Publication  
**EP 3509475 A4 20200422 (EN)**

Application  
**EP 17849536 A 20170907**

Priority

- US 201662384685 P 20160907
- US 201662429302 P 20161202
- US 201762522493 P 20170620
- US 201762532247 P 20170713
- US 201762537425 P 20170726
- US 2017050498 W 20170907

Abstract (en)  
[origin: WO2018049041A1] In one embodiment, a machine-vision enabled fundoscope for retinal analysis includes, but is not limited to, an optical lens arrangement; an image sensor positioned with the optical lens arrangement and configured to convert detected light to retinal image data; computer readable memory; at least one communication interface; and an image processor communicably linked to the image sensor, the computer readable memory, and the at least one communication interface, the image processor programmed to execute operations including at least: obtain the retinal image data from the image sensor; generate output data based on analysis of the retinal image data, the output data requiring less bandwidth for transmission than the retinal image data; and transmit the output data via the at least one communication interface.

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

CPC (source: EP)  
**A61B 3/0025** (2013.01); **A61B 3/12** (2013.01); **A61B 3/132** (2013.01)

Citation (search report)

- [X1] US 2015021228 A1 20150122 - SU WEI [US], et al
- [A] WO 2016049273 A1 20160331 - STANFORD RES INST INT [US]
- [A] US 2012274899 A1 20121101 - WANG WILLIAM [TW], et al
- [A] WO 2015054672 A1 20150416 - UNIV CALIFORNIA [US]
- See references of WO 2018049041A1

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

DOCDB simple family (publication)  
**WO 2018049041 A1 20180315**; CN 109963495 A 20190702; EP 3509475 A1 20190717; EP 3509475 A4 20200422; JP 2019526416 A 20190919

DOCDB simple family (application)  
**US 2017050498 W 20170907**; CN 201780068689 A 20170907; EP 17849536 A 20170907; JP 2019533312 A 20170907