

Title (en)
METHOD FOR CONTROLLING MICROSCOPES AND APPARATUS CONNECTED THERETO BY DIRECTION OF VIEW ANALYSIS USING AN APPARATUS FOR MEASURING DIRECTION OF VIEW AND A SUITABLE EYEPIECE ATTACHMENT

Title (de)
VERFAHREN ZUM STEUERN VON MIKROSKOPEN UND ANGEKOPPELTEN GERÄTEN MITTELS BLICKRICHTUNGSANALYSE, BLICKRICHTUNGSMESSGERÄT UND OKULARAUFSATZ HIERFÜR

Title (fr)
PROCEDE DE COMMANDE DE MICROSCOPES ET D'APPAREILS QUI Y SONT ACCOUPLES, PAR ANALYSE DU SENS DE VISION, A L'AIDE D'UN APPAREIL DE MESURE DU SENS DE VISION, ET PIECE OCULAIRE RAPPORTEE APPROPRIEE

Publication
EP 0995142 A2 20000426 (DE)

Application
EP 98945011 A 19980713

Priority
• DE 9802010 W 19980713
• DE 19731301 A 19970713

Abstract (en)
[origin: DE19731301A1] The invention relates to a method for controlling microscopes and apparatus connected thereto by analysis of the direction of view. It further relates to an apparatus for measuring the direction of view and an eyepiece attachment for carrying out said method. The aim of the invention is to provide a method, an apparatus for measuring the direction of view and an attachment of the type described above which make it possible to control the microscope and any apparatus operating in the working area of said microscope exclusively by means of the optical data of the observer's eyes without resulting in disruptive reflexes or incorrect handling of the microscope. To this end, a highly diffuse light with a wavelength of between 800 and 1000 nm is used as infrared light which is generated coaxially around the eye of the observer at the level of the eyepiece tube. In addition, in the beam path of the optical system at least one other infrared signal is generated which is independent of the site of production of the diffuse light and directed at the eye of the observer, which infrared signal has an intensity different from that of the diffuse light and a wavelength of between 800 and 1000 nm and is subjected to the diffuse light so as to produce at least one additional corneal reflex.

IPC 1-7
G02B 21/20

IPC 8 full level
G02B 21/00 (2006.01); **G02B 27/00** (2006.01); **A61B 19/00** (2006.01)

CPC (source: EP)
G02B 21/0012 (2013.01); **G02B 27/0093** (2013.01); **A61B 90/20** (2016.02)

Citation (search report)
See references of WO 9903009A2

Cited by
US10925463B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19731301 A1 19990114; **DE 19731301 C2 20010510**; AU 9252698 A 19990208; EP 0995142 A2 20000426; WO 9903009 A2 19990121; WO 9903009 A3 19990401

DOCDB simple family (application)
DE 19731301 A 19970713; AU 9252698 A 19980713; DE 9802010 W 19980713; EP 98945011 A 19980713