

Title (en)

METHOD AND MICROSCOPE FOR DETERMINING A TILT OF A COVER SLIP

Title (de)

VERFAHREN UND MIKROSKOP ZUR BESTIMMUNG EINER VERKIPPUNG EINES DECKGLASES

Title (fr)

PROCÉDÉ ET SYSTÈME DE DÉTERMINATION D'UNE INCLINAISON D'UNE LAMELLE COUVRE-OBJET

Publication

EP 3867682 A1 20210825 (DE)

Application

EP 19797574 A 20191011

Priority

- DE 102018125995 A 20181019
- EP 2019077631 W 20191011

Abstract (en)

[origin: WO2020078854A1] The invention relates to a method for determining a tilt of a cover slip (24) in a microscope (10, 78) which has a lens (12) facing the cover slip (24). At least three measurement points which span a plane are defined on a surface (64, 68) of the cover slip, and the following steps are performed for each of the three measurement points: directing a measurement light beam (34) through the lens (12) onto the measurement point; generating a reflection light beam (54) in that at least part of the measurement light beam (54) is reflected at the measurement point; directing the reflection light beam (54) through the lens (12) onto a position-sensitive sensor (60); detecting the incidence site of the reflection light beam (54) on the position-sensitive sensor (60); and determining the distance of the measurement point from the lens (12) along the optical axis (O3) thereof on the basis of the detected incidence site. A tilt of the plane spanned by the three measurement points relative to the optical axis (O3) of the lens (12) is determined as a tilt of the cover slip (24) on the basis of the determined distances.

IPC 8 full level

G02B 7/32 (2021.01); **G02B 21/24** (2006.01); **G02B 27/00** (2006.01)

CPC (source: EP US)

G01B 11/026 (2013.01 - US); **G01B 11/26** (2013.01 - EP US); **G02B 7/32** (2013.01 - EP); **G02B 21/0088** (2013.01 - EP); **G02B 21/245** (2013.01 - EP US); **G02B 27/0025** (2013.01 - EP); **G01B 11/026** (2013.01 - EP); **G02B 21/0088** (2013.01 - US)

Citation (search report)

See references of WO 2020078854A1

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

DOCDB simple family (publication)

WO 2020078854 A1 20200423; DE 102018125995 A1 20200423; EP 3867682 A1 20210825; US 2021341281 A1 20211104

DOCDB simple family (application)

EP 2019077631 W 20191011; DE 102018125995 A 20181019; EP 19797574 A 20191011; US 201917283573 A 20191011