

Title (en)
LIGHT SHEET MICROSCOPE AND METHOD FOR DETERMINING THE REFRACTIVE INDICES OF OBJECTS IN THE SPECIMEN SPACE

Title (de)
LICHTBLATTMIKROSKOP UND VERFAHREN ZUR BESTIMMUNG DER BRECHUNGSINDICES VON OBJEKTEN IM PROBENRAUM

Title (fr)
MICROSCOPE À FEUILLE DE LUMIÈRE ET PROCÉDÉ DE DÉTERMINATION DE L'INDICE DE RÉFRACTION D'OBJETS DANS LA CHAMBRE À ÉCHANTILLONS

Publication
EP 3953684 A1 20220216 (DE)

Application
EP 20719335 A 20200325

Priority
• DE 102019109832 A 20190412
• EP 2020058256 W 20200325

Abstract (en)
[origin: WO2020207795A1] The invention relates to a light sheet microscope comprising: a specimen space in which a cover slip or slide having a surface that defines a partially reflective boundary surface can be arranged; an optics system having an objective facing the cover slip or slide; an illumination device, which is designed to generate a light sheet; a sensor; and a processor. The light sheet microscope forms a measuring apparatus for capturing a measurand. The measuring apparatus is designed to deflect the light sheet through the optics system onto the cover slip or slide at an oblique incidence, to generate reflection light beams by reflecting the light sheet in part at the boundary surface, and to receive the reflection light beams through the optics system and deflect same onto the sensor. The sensor is designed to capture the intensity and/or the place of incidence of the reflection light beams. The processor is designed to determine the measurand on the basis of the captured intensity and/or place of incidence of the reflection light beams.

IPC 8 full level
G01N 21/41 (2006.01); **G01M 11/02** (2006.01); **G01N 21/55** (2014.01); **G02B 21/10** (2006.01); **G02B 21/24** (2006.01); **G02B 21/34** (2006.01); **G02B 21/36** (2006.01)

CPC (source: EP US)
G01N 21/55 (2013.01 - US); **G02B 21/0032** (2013.01 - US); **G02B 21/008** (2013.01 - US); **G02B 21/02** (2013.01 - US); **G02B 21/082** (2013.01 - US); **G02B 21/10** (2013.01 - EP); **G02B 21/245** (2013.01 - EP); **G02B 21/33** (2013.01 - US); **G02B 21/34** (2013.01 - US); **G02B 21/365** (2013.01 - EP); **G02B 21/34** (2013.01 - 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

DOCDB simple family (publication)
DE 102019109832 B3 20200423; CN 113677979 A 20211119; CN 113677979 B 20240702; EP 3953684 A1 20220216; JP 2022527609 A 20220602; JP 7411682 B2 20240111; US 11500189 B2 20221115; US 2022206281 A1 20220630; WO 2020207795 A1 20201015

DOCDB simple family (application)
DE 102019109832 A 20190412; CN 202080028218 A 20200325; EP 2020058256 W 20200325; EP 20719335 A 20200325; JP 2021560030 A 20200325; US 202017599646 A 20200325