

Title (en)

AUTOMATIC TRAJECTORY-MAPPING SYSTEM FOR OPTICAL MICROSCOPE, BASED ON A SMART HIGH-SPEED CAMERA

Title (de)

SYSTEM ZUR AUTOMATISCHEN TRAJEKTORIEABBILDUNG FÜR OPTISCHES MIKROSKOP, BASIEREND AUF EINER INTELLIGENTEN HOCHGESCHWINDIGKEITSKAMERA

Title (fr)

SYSTEME DE TRAJECTOGRAPHIE AUTOMATIQUE POUR MICROSCOPE OPTIQUE BASE SUR UNE CAMERA RAPIDE INTELLIGENTE

Publication

**EP 3170045 A1 20170524 (FR)**

Application

**EP 15741521 A 20150715**

Priority

- FR 1456964 A 20140718
- EP 2015066214 W 20150715

Abstract (en)

[origin: WO2016008952A1] Automatic trajectory-mapping system for optical microscope comprising an optical system (8) able to focus on a sample (9), a high-speed camera (12) placed at the image plane of said optical system (8) and able to detect a zone of interest (10) of said sample (9), a light source (2) able to illuminate at least some of the sample (9), and a control unit (21) programmed to calculate spatial information used in feedback control of the focus and/or position of the zone of interest (10) of the sample (9), characterised in that said high-speed camera (12) sequentially integrates: at least one first series of images (34) with a first integration time, said images being used to carry out said feedback control of focus and/or position; and at least one scientific image (30) with a second integration time.

IPC 8 full level

**G02B 21/24** (2006.01); **G02B 21/36** (2006.01)

CPC (source: EP)

**G02B 21/16** (2013.01); **G02B 21/244** (2013.01); **G02B 21/365** (2013.01)

Citation (search report)

See references of WO 2016008952A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2016008952 A1 20160121**; EP 3170045 A1 20170524; FR 3023925 A1 20160122; FR 3023925 B1 20180126

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