

Title (en)

CALIBRATION STANDARD FOR A DEVICE FOR IMAGE-BASED REPRESENTATION OF BIOLOGICAL MATERIAL

Title (de)

KALIBRIERNORMAL FÜR EINE VORRICHTUNG ZUR BILDlichen DARSTELLUNG BIOLOGISCHEN MATERIALS

Title (fr)

NORME D'ÉTALONNAGE POUR UN DISPOSITIF DE REPRÉSENTATION EN IMAGE D'UN MATÉRIAU BIOLOGIQUE

Publication

EP 3084394 A1 20161026 (DE)

Application

EP 14821497 A 20141209

Priority

- DE 102013021097 A 20131218
- EP 2014003287 W 20141209

Abstract (en)

[origin: WO2015090534A1] The invention relates to a calibration standard (7) for a device (1) for image-based representation of biological material (6) which is excited to luminescence at least regionally during the examination. The device (1) has an illumination unit (2) comprising a radiation source, by which an electromagnetic excitation radiation (15) is emittable. Furthermore, a receptacle (3) is provided, which ensures that the biological material (6) arranged on a carrier (5) is positioned within a beam path of the excitation radiation (15). Moreover, the device has at least one image generating unit (4), which receives luminescence radiation (16) emitted by the biological material (6) on account of the excitation by the excitation radiation (15) and generates an image at least of the regions of the biological material (6) which are excited to luminescence. For calibration purposes, the device has a calibration standard (7), which emits a calibration radiation on account of the excitation by the excitation radiation (15), which calibration radiation is captured by the image generating unit (4), and a calibration signal is generatable in a controller (18) taking account of the captured calibration radiation. The technical solution described is distinguished by the fact that the calibration standard (7) has a housing (9) with, enclosed therein, a substance (12) which is excitable to luminescence, and is fixedly connected to the illumination unit (2) or the receptacle (3) with the aid of a fixing means (19).

IPC 8 full level

G01N 21/27 (2006.01); **G01N 21/64** (2006.01)

CPC (source: EP US)

G01N 21/276 (2013.01 - EP); **G01N 21/278** (2013.01 - EP US); **G01N 21/6428** (2013.01 - US); **G01N 21/6452** (2013.01 - EP US); **G01N 21/6458** (2013.01 - EP US); **G01N 2021/6417** (2013.01 - US); **G01N 2021/6439** (2013.01 - US); **G01N 2201/062** (2013.01 - US); **G01N 2201/13** (2013.01 - US)

Citation (search report)

See references of WO 2015090534A1

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 102013021097 A1 20150618; BR 112016013866 A2 20170808; BR 112016013866 B1 20201208; CN 105917212 A 20160831; CN 105917212 B 20200512; EP 3084394 A1 20161026; JP 2017502280 A 20170119; JP 6695274 B2 20200520; US 2016313249 A1 20161027; WO 2015090534 A1 20150625

DOCDB simple family (application)

DE 102013021097 A 20131218; BR 112016013866 A 20141209; CN 201480073429 A 20141209; EP 14821497 A 20141209; EP 2014003287 W 20141209; JP 2016540487 A 20141209; US 201415105480 A 20141209