

Title (en)

CONFOCAL SPECTROMETER AND METHOD FOR IMAGING IN A CONFOCAL SPECTROMETER

Title (de)

KONFOKALES SPEKTROMETER UND VERFAHREN ZUR BILDGEBUNG IN EINEM KONFOKALEN SPEKTROMETER

Title (fr)

SPECTROMÈTRE À FOYER COMMUN ET PROCÉDÉ D'IMAGERIE DANS UN SPECTROMÈTRE À FOYER COMMUN

Publication

**EP 2737288 A1 20140604 (DE)**

Application

**EP 12769615 A 20120906**

Priority

- DE 102011083718 A 20110929
- EP 2012067421 W 20120906

Abstract (en)

[origin: WO2013045250A1] The invention relates to a confocal spectrometer, with a broadband light source, a first aperture device with a first slit grid of a main slit direction arranged in front of the light source, which aperture device is designed to produce a slit-shaped pattern of the light source, a first imaging optical unit, which is designed to focus the slit-shaped pattern of the light source on an object to be imaged, and a detector system which has a detector apparatus designed to capture the light reflected by the object for generating a spectrally resolved image of the object, a second imaging optical unit, which is designed to focus the reflected light onto the detector apparatus, and a dispersion element, which is arranged in front of the second imaging optical unit and which is designed to spectrally disperse the light reflected by the object along a dispersion axis perpendicular to the optical axis of the second imaging optical unit.

IPC 8 full level

**G01J 3/28** (2006.01); **G02B 21/00** (2006.01)

CPC (source: EP US)

**G01J 3/10** (2013.01 - US); **G01J 3/2803** (2013.01 - EP US); **G01J 3/2823** (2013.01 - EP US); **G01J 3/42** (2013.01 - US); **G01J 2003/425** (2013.01 - US)

Citation (search report)

See references of WO 2013045250A1

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

DOCDB simple family (publication)

**WO 2013045250 A1 20130404**; DE 102011083718 A1 20130404; EP 2737288 A1 20140604; JP 2014532173 A 20141204; JP 6084620 B2 20170222; US 2014218731 A1 20140807

DOCDB simple family (application)

**EP 2012067421 W 20120906**; DE 102011083718 A 20110929; EP 12769615 A 20120906; JP 2014532306 A 20120906; US 201214348514 A 20120906