

Title (en)  
 CONFOCAL LASER SCANNING MICROSCOPE WITH A LASER LIGHT SOURCE TRIGGERED IN A PULSED MANNER

Title (de)  
 KONFOKALES LASER-RASTER-MIKROSKOP MIT EINER GEPULST ANGESTEUERTEN LASERLICHTQUELLE

Title (fr)  
 MICROSCOPE CONFOCAL À BALAYAGE LASER COMPORTANT UNE SOURCE DE LUMIÈRE LASER COMMANDÉE PAR IMPULSIONS

Publication  
**EP 2893385 A1 20150715 (DE)**

Application  
**EP 13756500 A 20130904**

Priority  
 • DE 102012215932 A 20120907  
 • DE 102012218624 A 20121012  
 • EP 2013068286 W 20130904

Abstract (en)  
 [origin: WO2014037401A1] The present invention relates to a confocal laser scanning microscope (100) with an illumination device (1), which has a laser light source (41) configured to illuminate a specimen (25), and a trigger circuit (40) for the laser light source (1), which circuit is configured to output a pulsed trigger signal (48) to supply the laser light source (41), wherein the trigger circuit (40) is configured such that it determines both a pulse amplitude (A) and a pulse width (W) of at least one pulse of the pulsed trigger signal (48) on the basis of at least one input variable (S).

IPC 8 full level  
**G02B 21/00** (2006.01)

CPC (source: EP US)  
**G02B 21/0032** (2013.01 - EP US); **G02B 21/0096** (2013.01 - EP US)

Citation (search report)  
 See references of WO 2014037401A1

Citation (examination)  
 • US 2011296562 A1 20111201 - BEAUREPAIRE EMMANUEL JEAN-MARC [FR], et al  
 • LEICA MICROSYSYSTEMS: "Living up to Life User Manual Leica TCS SP8 SMD for FCS, FLIM and FLCS", 30 May 2012 (2012-05-30), XP055575940, Retrieved from the Internet <URL:https://www.well.ox.ac.uk/files-library/leica-sp8-confocal-user-manual.pdf/@download> [retrieved on 20190401]  
 • ANONYMOUS: "Demonstration of the confocal microscope Leica TCS SP8 - Cell Biology Utrecht University", 21 August 2012 (2012-08-21), XP055575947, Retrieved from the Internet <URL:https://cellbiology.science.uu.nl/facilities/biology-imaging-center-bic/activities/demonstration-of-the-confocal-microscope-leica-tcs-sp8/> [retrieved on 20190401]  
 • ANONYMOUS: "Leica claims fastest true confocal scanner - LabHomepage", 25 September 2012 (2012-09-25), XP055575951, Retrieved from the Internet <URL:http://labhomepage.com/2651/microscope/leica-claims-fastest-true-confocal-scanner/> [retrieved on 20190401]

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 102012218624 A1 20140313; DE 102012218624 B4 20200709**; EP 2893385 A1 20150715; JP 2015530616 A 20151015; JP 6389462 B2 20180912; US 2015212306 A1 20150730; US 9575300 B2 20170221; WO 2014037401 A1 20140313

DOCDB simple family (application)  
**DE 102012218624 A 20121012**; EP 13756500 A 20130904; EP 2013068286 W 20130904; JP 2015530377 A 20130904; US 201314426260 A 20130904