

Title (en)

QUANTITATIVE PHASE MICROSCOPY FOR LABEL-FREE HIGH-CONTRAST CELL IMAGING

Title (de)

QUANTITATIVE PHASENMIKROSKOPIE FÜR MARKIERUNGSFREIE ZELLENBILDGEBUNG MIT HOHEM KONTRAST

Title (fr)

MICROSCOPIE À PHASE QUANTITATIVE POUR L'IMAGERIE CELLULAIRE À CONTRASTE ÉLEVÉ SANS MARQUEUR

Publication

EP 2912512 A4 20160713 (EN)

Application

EP 13851247 A 20131029

Priority

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- SE 2013051257 W 20131029

Abstract (en)

[origin: WO2014070082A1] Systems and methods described herein employ multiple phase-contrast images with various relative phase shifts between light diffracted by a sample and light not diffracted by the sample to produce a quantitative phase image. The produced quantitative phase image may have sufficient contrast for label-free auto-segmentation of cell bodies and nuclei.

IPC 8 full level

G02B 21/00 (2006.01); **G02B 21/14** (2006.01)

CPC (source: EP)

G02B 21/0056 (2013.01); **G02B 21/14** (2013.01)

Citation (search report)

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- [A] ZHUO WANG ET AL: "Spatial light interference microscopy (SLIM)", OPTICS EXPRESS, vol. 19, no. 2, 17 January 2011 (2011-01-17), pages 1016, XP055145500, ISSN: 1094-4087, DOI: 10.1364/OE.19.001016
- See references of WO 2014070082A1

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)

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