

Title (en)

METHOD AND ASSEMBLY FOR FOCUSING OPTICS, OBJECTS AND CONDENSERS IN MICROSCOPES

Title (de)

VERFAHREN UND ANORDNUNG ZUM FOKUSSIEREN VON OBJEKTIVEN, OBJEKTEN UND KONDENSOREN BEI MIKROSKOPEN

Title (fr)

PROCÉDÉ ET AGENCEMENT POUR LA FOCALISATION D'OBJETS, OBJETS ET CONDENSEURS DE MICROSCOPES

Publication

EP 2076810 A1 20090708 (DE)

Application

EP 07818633 A 20071002

Priority

- EP 2007008553 W 20071002
- DE 102006048056 A 20061011

Abstract (en)

[origin: WO2008043458A1] The aim of the invention is to provide a method and an assembly for focussing optics, objects and condensers in different types of microscopes, said method and assembly achieving optimal illumination and reproduction conditions for the object planes to be analysed by the optimal tracking of the condenser when the optics or object is or are moved, in particular for analysing thick samples. This is achieved by a method, according to which the focus on an object plane (3) in the object (1) to be analysed remains constant by means of the coupled focussing movement of optics (2) and a condenser or an object (1) to be analysed and the condenser (5), thus illuminating object details on all object planes (3) of the object (1) and matching the illumination and reproduction optical path to one another. The coupled focussing movement for focussing the optics (2) and the condenser (5) or the object (1) and the condenser (5) is maintained either by the decoupling of the condenser movement from the microscope stage or by the decoupling of the condenser movement from the movement of the optics, taking into consideration refractive indices, sample thickness and focus depth in the object (1).

IPC 8 full level

G02B 21/08 (2006.01); **G02B 21/24** (2006.01)

CPC (source: EP)

G02B 21/241 (2013.01)

Citation (search report)

See references of WO 2008043458A1

Cited by

US10534198B2; US11333903B2; US9759930B2; US10520754B2; US11320672B2; US10203522B2; US10209535B2; US10466507B2; US10838235B2; US10948743B2; US11644688B2; US11809024B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102006048056 A1 20080417; EP 2076810 A1 20090708; WO 2008043458 A1 20080417

DOCDB simple family (application)

DE 102006048056 A 20061011; EP 07818633 A 20071002; EP 2007008553 W 20071002