

Title (en)

METHOD FOR ANALYSING A SAMPLE AND MICROSCOPE FOR EVANESCENTLY ILLUMINATING THE SAMPLE

Title (de)

VERFAHREN ZUR PROBENUNTERSUCHUNG UND MIKROSKOP MIT EVANESZENTER PROBENBELEUCHTUNG

Title (fr)

PROCEDE D'EXAMEN D'ECHANTILLON ET MICROSCOPE A ECLAIRAGE EVANESCENT DE L'ECHANTILLON

Publication

**EP 1678544 A1 20060712 (DE)**

Application

**EP 04787190 A 20040922**

Priority

- EP 2004052273 W 20040922
- DE 10344410 A 20030925
- DE 102004044311 A 20040910

Abstract (en)

[origin: WO2005031427A1] The invention relates to a microscope (1) for evanescently illuminating (9) a sample, and to a method for sample analysis. According to the invention, a first evanescent field having a first penetration depth in the sample is produced, in addition to a second evanescent field having a second penetration depth in the sample (11), that is deeper than the first penetration depth. Said microscope comprises a sensor (43) that detects first detection light emitted from the part of the sample (11) illuminated by the first evanescent field, producing first detection light data therefrom, and detects second detection light emitted from the part of the sample (11) illuminated by the second evanescent field, producing second detection light data therefrom. The inventive microscope also comprises a processing module (45) for processing the first and second detection light data (37).

IPC 1-7

**G02B 21/00**; **G02B 21/06**

IPC 8 full level

**G02B 21/00** (2006.01); **G02B 21/02** (2006.01); **G02B 21/06** (2006.01); **G02B 21/08** (2006.01); **G02B 21/32** (2006.01)

CPC (source: EP US)

**G02B 21/0032** (2013.01 - EP US); **G02B 21/008** (2013.01 - EP US); **G02B 21/02** (2013.01 - EP US); **G02B 21/06** (2013.01 - EP US); **G02B 21/08** (2013.01 - EP US); **G02B 21/082** (2013.01 - EP US); **G02B 21/16** (2013.01 - EP US); **G02B 21/32** (2013.01 - EP US)

Citation (search report)

See references of WO 2005031427A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 2005031427 A1 20050407**; EP 1678544 A1 20060712; US 2008151226 A1 20080626; US 7633622 B2 20091215

DOCDB simple family (application)

**EP 2004052273 W 20040922**; EP 04787190 A 20040922; US 41490506 A 20060501