

Title (en)

ADAPTIVE SCANNING OPTICAL MICROSCOPE

Title (de)

OPTISCHES MIKROSKOP MIT ADAPTIVER ABTASTUNG

Title (fr)

MICROSCOPE OPTIQUE DE SCANNAGE ADAPTATIF

Publication

**EP 1842095 A4 20100804 (EN)**

Application

**EP 05855789 A 20051229**

Priority

- US 2005047287 W 20051229
- US 64757205 P 20050127

Abstract (en)

[origin: WO2006081031A2] An adaptive scanning optical microscope has a scanner lens assembly for acquiring images from different parts of an object plane and for forming a preferably curved image field having at least some aberration which varies as a function of the part of the object plane from which the image is acquired. A steering mirror selects the field of view and steer light from the object and along a light path from the object plane to a final image plane. An adaptive optics element receives the steered light from the object and compensates for the field position dependent optical aberrations and additional optics are along at least part of the light path for conditioning and focusing the light as it moves from the steering mirror, past the adaptive optics element and to the final image plane.

IPC 8 full level

**G02B 21/06** (2006.01); **G02B 21/36** (2006.01); **G02B 26/08** (2006.01)

CPC (source: EP)

**G02B 21/0024** (2013.01); **G02B 21/367** (2013.01); **G02B 26/06** (2013.01)

Citation (search report)

- [YD] WO 2004025331 A2 20040325 - RENSSELAER POLYTECH INST [US], et al
- [Y] US 2002044332 A1 20020418 - ENGELHARDT JOHANN [DE], et al
- [XY] DE 10038622 A1 20020221 - LEICA MICROSYSYSTEMS [DE]
- [A] US 2004184163 A1 20040923 - NISHIOKA KIMIIHIKO [JP], et al
- See references of WO 2006081031A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

**US 2005047287 W 20051229**; CN 200580045412 A 20051229; EP 05855789 A 20051229; IL 18313107 A 20070510; JP 2007553106 A 20051229