

Title (en)
OPTICAL NEAR-FIELD MICROSCOPE

Title (de)
OPTISCHES NAHFELDMIKROSKOP

Title (fr)
MICROSCOPE OPTIQUE A CHAMP PROCHE

Publication
EP 0998689 A1 20000510 (DE)

Application
EP 99925007 A 19990519

Priority
• DE 19822869 A 19980522
• EP 9903425 W 19990519

Abstract (en)
[origin: US6674057B1] Near-field optical microscope with a probe tip which is arranged on one side of a light-transmitting specimen and moved in a scanning manner. The probe tip serves as a point light source. Optics for collecting light transmitted through the specimen and transmitting it to a detection unit or for collecting illumination light are provided on the other side of the specimen. The movement of the probe tip is adapted to on the detection side, or the probe serves to detect specimen light. A detection unit is arranged following the probe in the direction of illumination, and a scanning illumination adapted to the probe movement is carried out on the other side of the specimen.

IPC 1-7
G02B 21/00

IPC 8 full level
G01Q 10/00 (2010.01); **G01Q 20/02** (2010.01); **G01Q 30/02** (2010.01); **G01Q 60/18** (2010.01); **G02B 21/00** (2006.01)

CPC (source: EP US)
B82Y 20/00 (2013.01 - US); **B82Y 35/00** (2013.01 - US); **G01Q 20/02** (2013.01 - EP US); **G01Q 60/22** (2013.01 - EP US)

Citation (search report)
See references of WO 9961949A1

Designated contracting state (EPC)
CH DE DK FR GB LI

DOCDB simple family (publication)
US 6674057 B1 20040106; DE 19822869 A1 19991125; DE 19822869 C2 20010510; EP 0998689 A1 20000510; IL 134095 A0 20010430; IL 134095 A 20040328; JP 2002517003 A 20020611; WO 9961949 A1 19991202

DOCDB simple family (application)
US 46320200 A 20000504; DE 19822869 A 19980522; EP 9903425 W 19990519; EP 99925007 A 19990519; IL 13409599 A 19990519; JP 2000551288 A 19990519