

Title (en)
DECONVOLVING FAR-FIELD IMAGES USING SCANNED PROBE DATA

Title (de)
ENTFALTEN VON FERN-FELD-BILDERN MIT HILFE VON ZEILENABGETASTETEN SONDENDATEN

Title (fr)
DECONVOLUTION D'IMAGES A CHAMP LOINTAIN AU MOYEN DE DONNEES DE SONDE SCANNEES

Publication
EP 1161669 A4 20061220 (EN)

Application
EP 00907321 A 20000214

Priority
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Abstract (en)
[origin: WO0047978A1] A method for deconvolving far-field optical images beyond the diffraction limit includes the use of near-field optical and other scanned probe imaging data to provide powerful and new constraints for the deconvolution of far-field data sets. Near-field data, such as that which can be obtained from atomic force microscopy on a region of the far-field data set in an integrated and inter-digitate way, is used to produce resolutions beyond the diffraction limit of the lens that is being used. In the case of non-linear optical imaging or other microscopies, resolutions beyond that which is achievable with these microscopies can be obtained.

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G01N 13/14; **G02B 21/36**

IPC 8 full level
G01N 13/10 (2006.01); **G01N 13/14** (2006.01); **G01N 13/16** (2006.01); **G01Q 30/02** (2010.01); **G01Q 30/04** (2010.01); **G01Q 60/18** (2010.01); **G01Q 60/24** (2010.01); **G02B 21/00** (2006.01); **G02B 21/36** (2006.01); **G12B 21/20** (2006.01)

CPC (source: EP)
G01Q 30/04 (2013.01); **G01Q 40/00** (2013.01); **G02B 21/002** (2013.01); **G02B 21/365** (2013.01)

Citation (search report)
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• See references of WO 0047978A1

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