

Title (en)

CONCEPT FOR DETECTING IMAGES WITH SUB-WAVELENGTH RESOLUTION

Title (de)

KONZEPT ZUR ERFASSUNG VON BILDERN MIT SUBWELLENLÄNGENAUFÖSUNG

Title (fr)

CONCEPT POUR NUMÉRISER DES IMAGES AVEC UNE RÉOLUTION DE LONGUEUR DE SOUS-ONDES

Publication

**EP 2140298 A2 20100106 (DE)**

Application

**EP 08735058 A 20080407**

Priority

- EP 2008002738 W 20080407
- DE 102007016588 A 20070405

Abstract (en)

[origin: US2010072353A1] A microscope with sub-wavelength resolution with a light source for monochromatic light with a predetermined wavelength, an object carrier for an object to be examined, and an image sensor with an optical structure with a first side and a second side opposite to the first side, the optical structure having a negative refractive index, and a pixel array extending along the second side of the optical structure at a predetermined distance, wherein the first side of the optical structure of the image sensor is arranged at a near-field distance smaller than the wavelength of the monochromatic light to the object carrier.

IPC 8 full level

**G02B 21/00** (2006.01); **H04N 25/00** (2023.01)

CPC (source: EP US)

**B82Y 20/00** (2013.01 - EP US); **G02B 1/007** (2013.01 - EP US); **G02B 21/0004** (2013.01 - EP US); **G02B 27/58** (2013.01 - EP US)

Citation (examination)

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