Title (en)

DIFFERENTIAL IMAGING DEVICE.

Title (de)

DIFFERENTIELLE BILDFORMUNGSVORRICHTUNG.

Title (fr)

DISPOSITIF D'IMAGERIE DIFFERENTIELLE.

Publication

EP 0227739 A4 19880510 (EN)

Application

EP 86903858 A 19860519

Priority

US 73643485 A 19850520

Abstract (en)

[origin: WO8607148A1] An apparatus and method for forming an image based on the interactions of polarized electromagnetic radiation with the specimen being imaged. The image formed by the apparatus is the difference of two images of the specimen (18, 40, 86) each made with electromagnetic radiation having a different polarization. The choice of wave length and polarization will depend on the structure of compounds to be accentuated in the image. The present invention may be operated in any of four modes selected by choosing the geometric relationship between the image forming means (28, 46, 88) and the polarized electromagnetic radiation source (30, 44, 82), the wavelength of polarized electromagnetic radiation produced by the polarized electromagnetic radiation source (30, 44, 82) relative to the wavelength detected by the image forming means (28, 46, 88), and the timing of the detection of the electromagnetic radiation relative to the timing of the emission of the polarized electromagnetic radiation by the polarized electromagnetic radiation source (30, 44, 82).

IPC 1-7

G01N 21/21

IPC 8 full level

G01N 21/64 (2006.01); **G01N 21/21** (2006.01); **G01N 22/00** (2006.01)

CPC (source: EP)

G01N 21/21 (2013.01); **G01N 22/00** (2013.01); G01N 2021/178 (2013.01)

Citation (search report)

- [Y] US 3499162 A 19700303 - SCHMIDT UWE, et al
- [A] EP 0062083 A1 19821013 - IBM DEUTSCHLAND [DE], et al
- [A] IEEE TRANSACTIONS ON NUCLEAR SCIENCE, vol. NS-27, no. 3, June 1980, pages 1184-1190, IEEE, New York, US; L.E. LARSEN et al.: "The use of orthogonal polarizations in microwave imagery of isolated canine kidney"
- See references of WO 8607148A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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