

Title (en)

Optical focusing device and measuring system

Title (de)

Optisches Fokussierelement und Messsystem

Title (fr)

Dispositif optique de focalisation et équipement de mesure

Publication

EP 1103985 A3 20030409 (DE)

Application

EP 00125565 A 20001122

Priority

DE 19956782 A 19991125

Abstract (en)

[origin: EP1103985A2] Optical element for focusing electromagnetic radiation comprises a zone plate (30) with ring zones which are permeable to radiation and ring zones which are impermeable to radiation. The ring zones of the zone plate permeable to the radiation are partially impermeable to the radiation. Independent claims are also included for (1) A measuring system comprising the optical element (30), a radiation source (20) and a detector (40); and (2) A device for changing the physical, chemical and/or biological properties of a region of a sample.

IPC 1-7

G21K 1/06; G21K 1/02

IPC 8 full level

G21K 1/06 (2006.01)

CPC (source: EP)

G21K 1/06 (2013.01)

Citation (search report)

- [X] GB 2252843 A 19920819 - ATOMIC ENERGY AUTHORITY UK [GB]
- [A] US 5715219 A 19980203 - TAKEDA TADASHI [JP], et al
- [A] US 3867637 A 19750218 - BRAUN MARTIN, et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 01 30 January 1998 (1998-01-30)
- [A] CANNON T M ET AL: "Coded aperture imaging: many holes make light work", OPTICAL ENGINEERING, MAY-JUNE 1980, USA, vol. 19, no. 3, pages 283 - 289, XP001092857, ISSN: 0091-3286
- [A] BETT T H ET AL: "A binary phase zone plate array for laser beam spatial intensity distribution conversion", FOURTH INTERNATIONAL CONFERENCE ON HOLOGRAPHIC SYSTEMS, COMPONENTS AND APPLICATIONS (CONF. PUBL. NO.379), NEUCHATEL, SWITZERLAND, 13-15 SEPT. 1993, 1993, London, UK, IEE, UK, pages 249 - 254, XP008013081, ISBN: 0-85296-578-8

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1103985 A2 20010530; **EP 1103985 A3 20030409**; DE 19956782 A1 20010628; DE 19956782 C2 20011115

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