

Title (en)

COMPUTER CONTROLLABLE LED LIGHT SOURCE FOR DEVICE FOR INSPECTING MICROSCOPIC OBJECTS

Title (de)

COMPUTERSTEUERBARE LED-LICHTQUELLE FÜR EIN GERÄT ZUR PRÜFUNG MIKROSKOPISCHER OBJEKTE

Title (fr)

SOURCE DE LUMIÈRE DEL COMMANDABLE PAR ORDINATEUR POUR UN DISPOSITIF DESTINÉ À INSPECTER DES OBJETS MICROSCOPIQUES

Publication

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Application

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Abstract (en)

[origin: WO2009015209A1] A device for inspecting microscopic objects. A plurality of LEDS is arranged in an array underneath a lens. Some of the LEDS are lighted and some of the LEDS are unlighted. A computer is in control of the LED array. The computer turns on selected LEDS from the array to form the lighted LEDS. Also, the computer turns off selected LEDS from the array to form the unlighted LEDS. The lighted LEDS form a pattern of lighted LEDS underneath the lens. In a preferred embodiment, the lens is connected to a computer controlled camera and the microscopic objects are microscopic crystals. In another preferred embodiment UV LEDS are utilized and illuminate crystals from above. In another preferred embodiment UV LEDS are utilized to illuminate a loop of a Hampton pin to locate a crystal in the loop of a Hampton pin for the purpose of x-ray crystallography.

IPC 8 full level

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Citation (search report)

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