

Title (en)

SYSTEMS AND METHODS FOR HIGH PERFORMANCE SCANNING

Title (de)

SYSTEME UND VERFAHREN ZUR HOCHLEISTUNGSRASTERUNG

Title (fr)

SYSTEMES ET PROCEDE DE BALAYAGE HAUTE PERFORMANCE

Publication

EP 1218915 A4 20021009 (EN)

Application

EP 99964213 A 19991210

Priority

- US 9929351 W 19991210
- US 38398699 A 19990826

Abstract (en)

[origin: WO0115193A1] The present invention provides a scanning confocal microscope image detection system having a simple and inexpensive objective lens (115) and a high acceleration/high speed voice coil driven translation system (15). The objective lens provides high light collection efficiency at low cost. The voice coil provides improved acceleration for fast scanning of at least one axis (scanning direction; fast scan axis) of a polymer array (9) that can be used effectively with the inexpensive objective lens having high light collection efficiency. In one embodiment the translation stage (15) includes a voice coil (2), a linear slide (10), and a light weight bracket (4) connecting the voice coil to the linear slide. The bracket is rigid and designed to support a polymer array (9) to be scanned or a turning prism (22) and objective lens (23). Thus, the present invention provides systems and methods for high speed low cost scanning of, for example, polymer arrays, i.e., high performance cost effective polymer array scanning using a voice coil driven translation stage.

IPC 1-7

H01J 3/14; G02B 21/26; G02B 21/00

IPC 8 full level

G02B 26/10 (2006.01); **G02B 21/00** (2006.01); **G02B 21/26** (2006.01)

CPC (source: EP)

G02B 21/0048 (2013.01); **G02B 21/0076** (2013.01); **G02B 21/008** (2013.01); **G02B 21/0084** (2013.01); **G02B 21/26** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0115193 A1 20010301; EP 1218915 A1 20020703; EP 1218915 A4 20021009; JP 2003507777 A 20030225

DOCDB simple family (application)

US 9929351 W 19991210; EP 99964213 A 19991210; JP 2001519460 A 19991210