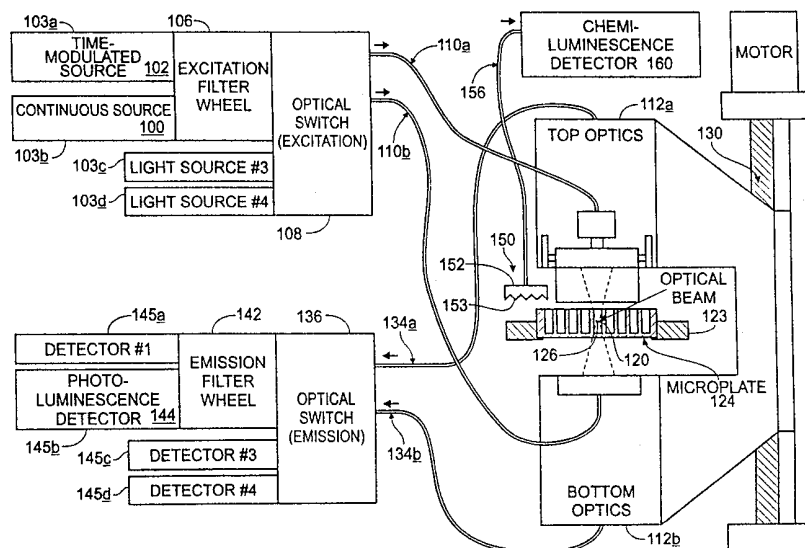




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(54) Title: APPARATUS AND METHODS FOR SPECTROSCOPIC MEASUREMENTS



(57) Abstract

Apparatus and Methods for measuring light transmitted from a sample. The apparatus may include a stage (123), a light source (103a-103d), and a detector (145a-145d, 160). The stage (123) may be configured to hold a microplate (124) having a plurality of sample wells. The apparatus may be configured to take measurements of one or more of absorbance, scattering, reflectance and luminescence. The apparatus may permit simultaneous measurements of two or more of these properties.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/16621**A. CLASSIFICATION OF SUBJECT MATTER**

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US CL : 356/73

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 356/73, 417, 434, 440

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 3,885,162 A (GEERTZ) 20 May 1975 (29/05/75). See reflector 13 and the opaque calibration shutter.	1 --- 2-5, 9-11, 25-32
Y	US 4,397,560 A (ANDRESEN) 9 August 1983 (09/08/83). See figure 2.	2-3, 6-24, 26-27, 33-35
X --- Y	US 4,074,939 A (RABL) 21 February 1978, See figure 1	6-8 --- 4-5, 9-24
X --- Y	US 4,802,768 A (GIFFORD et al) 7 February 1989 (07/02/89) Note mirror 25.	28-32 --- 1-5, 25, 27



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Date of the actual completion of the international search

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