Title (en)

ANALYTICAL EQUIPMENT FOR DETERMINING THE CHEMICAL STRUCTURE AND/OR COMPOSITION OF A PLURALITY OF SAMPLES AND SAMPLE HOLDER

Title (de)

ANALYSEGERÄT ZUR BESTIMMUNG DER CHEMISCHEN STRUKTUR UND/ODER ZUSAMMENSETZUNG EINER VIELZAHL VON PROBEN UND TRÄGER ZUR AUFNAHME DER PROBEN

Title (fr)

APPAREIL D'ANALYSE PERMETTANT DE DETERMINER LA STRUCTURE CHIMIQUE ET/OU LA COMPOSITION D'UNE PLURALITE D'ECHANTILLONS ET PORTE-ECHANTILLONS

Publication

EP 1425569 A2 20040609 (DE)

Application

EP 02769951 A 20020916

Priority

- DE 0203424 W 20020916
- GB 0122286 A 20010914

Abstract (en)

[origin: WO03025553A2] The invention relates to the manufacturing of effectively operating analytical equipment for serial examinations, for example, on a genetic material. The fluorescence or luminescence methods are preferred. In order to obtain a good signal-to-noise ratio, it is necessary to keep the excitation light away from the detector and to focus the emission light as much as possible onto said detector. According to the invention, a holder for the samples to be analyzed is provided with an optically active layer, said layer being reflective to the emission light and transparent to the excitation light. When, for example, the sample well of a sample holder is covered with such a layer, the emission light is reflected onto the well walls and bottom and focused on a detector. The excitation light passes through said layer, as far as it does not contribute to a molecular excitation, and is absorbed in said holder.

IPC 1-7

G01N 21/64; B01L 3/00

IPC 8 full level

G01N 21/03 (2006.01); **G01N 21/64** (2006.01)

CPC (source: EP US)

G01N 21/253 (2013.01 - EP US); **G01N 21/6428** (2013.01 - EP US); **G01N 21/6452** (2013.01 - EP US)

Citation (search report)

See references of WO 03025553A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03025553 A2 20030327; **WO 03025553 A3 20031016**; AU 2002336064 A1 20030401; CN 1555485 A 20041215; DE 10297670 D2 20050210; DE 20280249 U1 20040609; EP 1425569 A2 20040609; GB 0122286 D0 20011107; JP 2005502896 A 20050127; US 2005019217 A1 20050127

DOCDB simple family (application)

DE 0203424 W 20020916; AU 2002336064 A 20020916; CN 02818040 A 20020916; DE 10297670 T 20020916; DE 20280249 U 20020916; EP 02769951 A 20020916; GB 0122286 A 20010914; JP 2003529132 A 20020916; US 48936804 A 20040907