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(54) Title: INFRA-RED SPECTROSCOPY SYSTEM

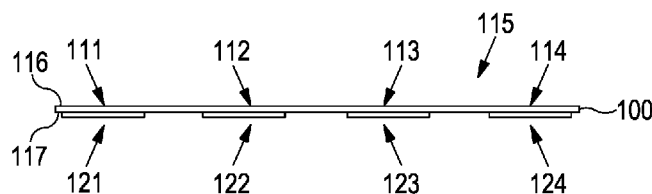


Figure 3

(57) Abstract: A sample slide (100) for use in a spectrometer (501), wherein the sample slide comprises a plurality of sample-receiving portions (111 -114) provided on a sample side (115) of the slide, and a plurality of beam-receiving portions (121 -124) provided on a beam-receiving side (125) of the slide, each beam-receiving portion being arranged opposite a respective sample-receiving portion, and wherein each beam-receiving portion is configured to act as an internal reflection element (IRE). A device (300) for use with a spectrometer (501) comprises a stage (330) configured to receive a sample slide (100); and a moving mechanism (360) configured to move the sample slide relative to a sample-measuring location (320) of the device. Associated methods for preparing a sample and measuring a sample are also disclosed.



INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2018/050821

A. CLASSIFICATION OF SUBJECT MATTER
 INV. G01N21/552
 ADD. G01N21/25 G01N21/35

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)
 G01N

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)
 EPO-Internal, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/175160 A1 (ARCHIBALD WILLIAM B [US] ET AL) 18 September 2003 (2003-09-18) figures 6,7 paragraphs [0001], [0010], [0047], [0057]	1-10
X	US 2011/157693 A1 (DULTZ SHANE C [US] ET AL) 30 June 2011 (2011-06-30) figures 1-7 paragraphs [0009], [0023], [0029], [0035]	1-8,10 9
X	US 6 710 870 B1 (MAROWSKY GERD [DE] ET AL) 23 March 2004 (2004-03-23) figures 1,2 column 2, line 21 - line 30 column 13, line 66 - column 14, line 31	1-8,10 9

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 12 July 2018	Date of mailing of the international search report 21/09/2018
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Gangl, Martin
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2018/050821

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-10

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-10

Spectroscopic sample slide

2. claims: 11-25

Positioning device for a sample slide

3. claims: 26-28

Sample preparation method

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2018/050821

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003175160	A1	18-09-2003	NONE
US 2011157693	A1	30-06-2011	US 2011157693 A1 30-06-2011
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