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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 14 80 4678

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X Y	US 2012/162642 A1 (WATSON MARK [US] ET AL) 28 June 2012 (2012-06-28) * [0003], [0005], [0029]-[0037], [0041], [0043]-[0044], [0062]-[0063], [0064]-[0065]; figures 1-2, 6-7 *	1,2,5-8, 12-15 3,4,9	INV. G01N21/65 G01N21/64 G02B21/00 G01J3/02 G01J3/44 G02B26/10
Y	US 5 719 391 A (KAIN ROBERT C [US]) 17 February 1998 (1998-02-17) * figure 2 *	3,4	
Y	US 5 646 411 A (KAIN ROBERT C [US] ET AL) 8 July 1997 (1997-07-08) * figure 2 *	3,4	
Y	US 2007/091409 A1 (ULBRICHT MATTHIAS [DE] ET AL) 26 April 2007 (2007-04-26) * [0022], [0031]; figures 1-2 *	3,4	
Y	US 2006/285109 A1 (ODHNER JEFFERSON E [US]) 21 December 2006 (2006-12-21) * [0024]; figure 1 *	3,4	TECHNICAL FIELDS SEARCHED (IPC) G02B
Y	US 6 384 951 B1 (BASIJI DAVID A [US] ET AL) 7 May 2002 (2002-05-07) * col 5, lines 15-40; figure 1 *	3,4	
Y	US 6 172 785 B1 (WULF JUERGEN [DE]) 9 January 2001 (2001-01-09) * col 4, lines 28-35; figure 1 *	9	
Y	JP 2002 372456 A (SHIMADZU CORP) 26 December 2002 (2002-12-26) * figure 1 *	9	

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The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
Munich	12 January 2017	Mason, William

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
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& : member of the same patent family, corresponding document

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DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	NAOKI MATSUMOTO ET AL: "Development of THz ellipsometer with variable incident angle", INFRARED, MILLIMETER, AND TERAHERTZ WAVES, 2009. IRMMW-THZ 2009. 34TH INTERNATIONAL CONFERENCE ON, IEEE, PISCATAWAY, NJ, USA, 21 September 2009 (2009-09-21), pages 1-2, XP031562629, ISBN: 978-1-4244-5416-7 * figure 1 * -----	9	

TECHNICAL FIELDS SEARCHED (IPC)

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search	Date of completion of the search	Examiner
Munich	12 January 2017	Mason, William

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Application Number

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims:

1-9, 12-15

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LACK OF UNITY OF INVENTION
SHEET B

Application Number
EP 14 80 4678

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-9, 12-15

The present application according to claims 1-9, 12-15 relates to a spectrometer and a method of using a spectrometer which comprises an excitation source and an optical system which comprises a focusing lens a rotating mirror assembly including an angled mirror face surface. The spectrometer additionally comprises an actuator assembly for controlling the rotating mirror assembly to move a focused incident beam across a surface of the sample using a rotary motor coupled to the rotating mirror assembly via a flexible mount or by loosely coupling these members so that the rotating mirror assembly wobbles with respect to the drive shaft when the drive shaft is turned in operation.

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2. claims: 10, 11

The present application according to claims 10-11 relates to a spectrometer and a method of using a spectrometer which comprises an excitation source and an optical system which comprises a focusing lens a rotating mirror assembly including an angled mirror face surface. The spectrometer additionally comprises an actuator assembly for controlling the rotating mirror assembly to move a focused incident beam across a surface of the sample using a rotary motor coupled to the rotating mirror assembly. The spectrometer further comprises a first magnet is coupled to a drive shaft of the rotary motor or the rotating mirror assembly and is adapted to align the drive shaft or the rotating mirror assembly, respectively, to a fixed position by magnetically coupling to a fixed element of the spectrometer or the first magnet is coupled to the spectrometer adjacent to the actuator assembly and is adapted to magnetically couple to an element physically coupled to the drive shaft of the rotary motor or to the rotating mirror assembly and is adapted to align the mirror face surface at a predetermined position.

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 14 80 4678

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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12-01-2017

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