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(72) Inventor; and

(71) Applicant : MCALISTER, Roy, Edward [US/US];
2350 W Shangri La, Phoenix, AZ 85029 (US).

(74) Agents: PILLING, Cameron, B. et al.; Perkins Coie
LLP, P.O. Box 1247, Seattle, WA 98111-1247 (US).

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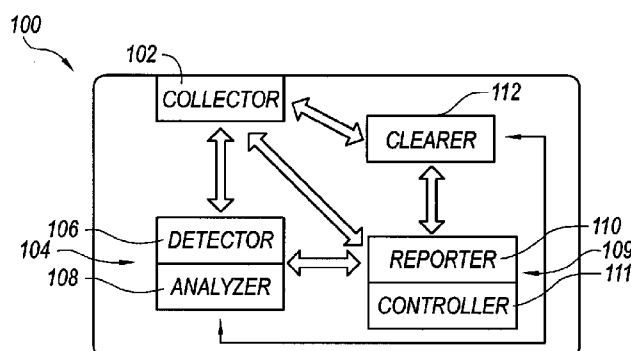


Fig. 1

(57) Abstract: Systems and methods for collecting portions of a target sample are disclosed herein. A method for detecting the presence and/or properties of a target sample can include selectively collecting a portion of a target sample with a sample collector and detecting, with the sample collector, the presence of one or more properties of the microscopic portion of the target sample. The method also includes analyzing, with the sample collector, the one or more properties of the microscopic portion of the target sample. Based on the analysis, the method further includes reporting, from the sample collector, a real-time indication of the analysis of the one or more properties of the target sample. The method can also include at least partially removing the microscopic portion of the target sample from the sample collector. The methods and systems disclosed herein can be used, for example, in systems or environments directed to quality assurance, preventative maintenance, safety, hazard warnings, homeland security, chemical identification and surveillance, and/or other suitable environments.

A. CLASSIFICATION OF SUBJECT MATTER**G01N 1/28(2006.01)i, G01V 9/00(2006.01)i, G08B 21/00(2006.01)i**

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 1/28; G02B 6/26; F16L 55/00; F16L 19/08; H01L 41/053; G01C 19/56; H04B 10/04; H04B 10/20; H01L 41/083; F02M 51/06

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: Detecting properties, Target samples

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2009-0309453 A1 (ANDLE JEFFREY C.) 17 December 2009 See the whole document	1-20
A	US 2009-0031804 A1 (SUGIBAYASHI HIDEAKI) 05 February 2009 See the whole document	1-20
A	US 6652006 B1 (DIGIACOMO; FRANK) 25 November 2003 See the whole document	1-20
A	US 6587239 B1 (HUNG; HENRY) 01 July 2003 See the whole document	1-20
A	US 6446597 B1 (MCALISTER; ROY E.) 10 September 2002 See the whole document	1-20
A	US 2008-0048448 A1 (TOMMY JAMISON et al.) 28 February 2008 See the whole document	1-20
A	US 2002-0131756 A1 (HENRY HUNG) 19 September 2002 See the whole document	1-20



Further documents are listed in the continuation of Box C.



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Authorized officer

HOSOON IM

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Yablonobitch, E. `Photonic Bandgap Based Designs for Nano-Photonic Intergral Circuits.` In: IEEE International Electron Devices Meeting 2002(IEDM `02). 2002. Pages 17-20. See the whole document	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

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