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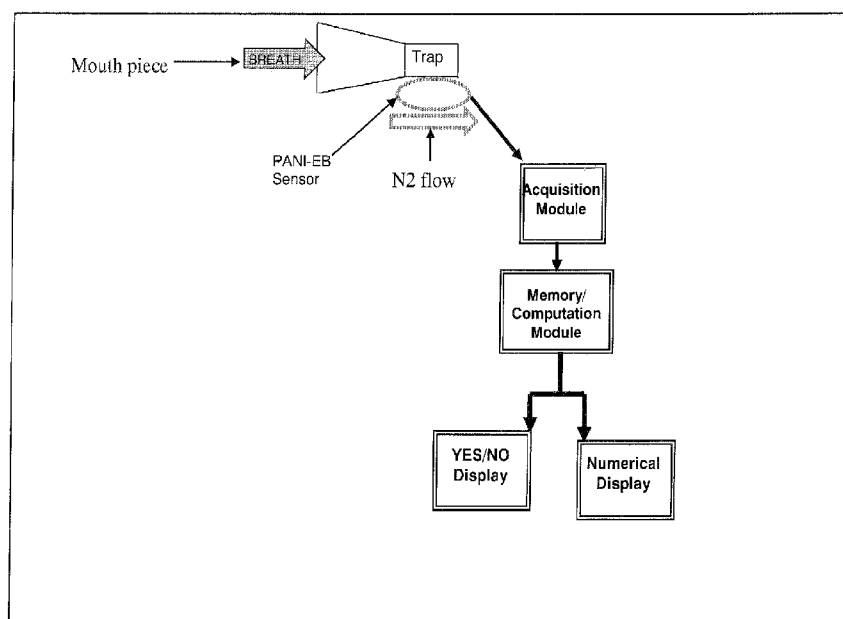


Figure 1

(57) Abstract: An inexpensive, portable, hand held, point-of-care, non-invasive breath-analyzer for the detection of H. Pylori in adults and children by measuring ammonia in breath using a polyaniline-carbon nanotube sensor. In one embodiment, a detector utilizes a polyaniline (PANI) - carbon nanotube composite with an unlabeled urea as a substrate which detects the presence of ammonia in breath, and thereby detects the presence of H. Pylori.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/029103

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61B 5/08 (2012.01)

USPC - 73/23.3

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)

IPC(8) - A61B 5/00, 5/08, 5/083; G01N 1/00, 1/22, 31/00, 33/483, 33/497 (2012.01)

USPC - 73/23.2, 23.3; 422/82.13, 83, 84; 436/900; 600/529, 532

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)

PatBase, Google Patents, Google Scholar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2004/0077965 A1 (HUBBARD et al) 22 April 2004 (22.04.2004) entire document	1-14
Y	US 2008/0093226 A1 (BRIMAN et al) 24 April 2008 (24.04.2008) entire document	1-10, 12
Y	US 2008/0077037 A1 (GOUMA et al) 27 March 2008 (27.03.2008) entire document	2-5, 7, 11-14

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