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(54) Title: DEVICE, SYSTEM AND METHOD FOR IN-VIVO ANALYSIS

(57) Abstract: A device for in-vivo detection comprises a housing having an optical window and enclosing an imager that is configured to image the optical window. An external surface of the optical window has trypsin immobilized thereon, and may also be coated with a steric barrier protection, which may be polyethylene glycol (PEG). A trypsin - Alpha-1-antitrypsin complex formed on the window may have an affinity to a binding agent, which is tagged by a tag selected from a group consisting of a colorant, a fluorescent moiety, and a radioactive moiety.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL 08/01435

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - A61N 5/00 (2009.01)
USPC - 600/3
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)
USPC - 600/3
IPC(8) - A61N 5/00 (2009.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 600/312,317,329,593; 422/68.1; 424/9.1,9.34,9.6; 435/4,7.1,287.1-287.3,287.9,288.7; 436/64,86,501; 600/300,302,309,325; 702/19

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Databases: USPTO PubWEST(PGPB,USPT,EPAB,JPAB); Google(Scholar)
Search terms: ingestible, swallowable, consumable, implantable, analyzer, sensor, detector, monitor, probe, assay, marker, antibody, optic, image, camera, lens, binding, PEG, steric, barrier, coating, film, layer, capsule, wireless, fluorescent

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 2002/0128234 A1 (HUBBELL et al) 12 September 2002 (12.09.2002), para [0018], [0030], [0038]-[0039], [0206], [0228]	5-6 ---------- 1-4, 7-9
Y	US 2002/0132226 A1 (NAIR et al) 19 September 2002 (19.09.2002), para [0007], [0019]-[0024]	1-4, 7-9

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* 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
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"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	Date of mailing of the international search report
27 January 2009 (27.01.2009)	04 FEB 2009
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

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