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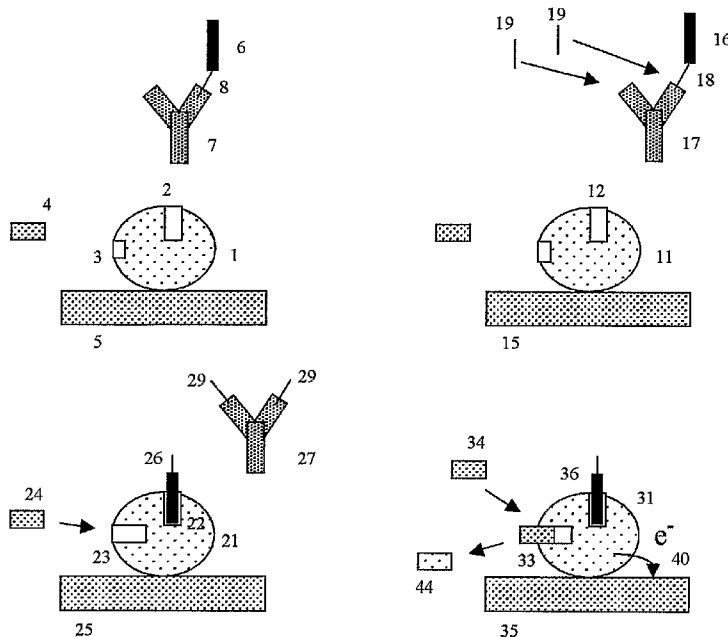
(71) Applicant and
(72) Inventor: ZWEIG, Stephen, Eliot [US/US]; 224 Vista de Sierra, Los Gatos, CA 95030 (US).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APOENZYME REACTIVATION ELECTROCHEMICAL DETECTION METHOD AND ASSAY



(57) Abstract: The invention discloses a method in which dry reagent enzyme based electrochemical biosensors, which are in a relatively mature form due to the extensive amount of development pioneered by the blood glucose monitoring industry, may be simply adapted to perform tests for blood coagulation, enzymatic activity, or immunochemical assays for antigens present in a fluid sample. In particular, the utility of combining apoenzyme based dry reagent electrochemical biosensors with apoenzyme reactivation technology is taught. This combination creates a novel combination dry reagent test technology capable of detecting a wide range of different analytes.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/06290

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **G01N 27/327(2007.01)**

 USPC: **205/777.5;204/403.01**
 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)
 U.S. : 205/777.5; 204/403.01

 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)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	GB 2188728 A (TURNER et al.) 07 October 1987, abstract; page 03, lines 44-50; page 04, line 01 - page 06, line 04; claim 01; page 02, lines 28-31; page 05, lines 22-26; page 01, line 35; page 03, line 23.	1,4-7,9,13-15 ----- 2,3,8,12
Y	Wo 91/16630 A1 (JOSEPH et al.) 31 October 1991, abstract; page 12, line 04 - page 13, line 05.	2,12

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search 25 October 2006 (25.10.2006)	Date of mailing of the international search report 15 DEC 2006
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 <i>Alex Noguera</i> ALEX NOGUEROLA Telephone No. (571) 272-1300

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/06290

Continuation of B. FIELDS SEARCHED Item 3:

EAST, CAPLUS

search terms: apoenzyme, apoglucose, inactiv\$, enzyme, oxidase, oxidoreductase, biosens\$, sens\$, detect\$, electrochemical, electrochemical, electroanaly\$, amperom\$, voltam\$, reactivat\$, releas\$, free\$, cofactor, coenzyme, fad, dopa, ammonia, ascorbate, atp, biotin, cadmium, cobalamin, copper, cobalt, dipyrromethane, dithiothreitol, molybdenum, iron, lipoyl, manganese, nad, nad(p)h, nickel, potassium or pqq, prothene, pterin, pyridoxal

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/06290

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.: 10 and 11
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 10 and 11 attempt to claim a process without setting forth any steps involved in the process.

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:

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 additional fees, this Authority did not invite payment of any 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.:
- 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.