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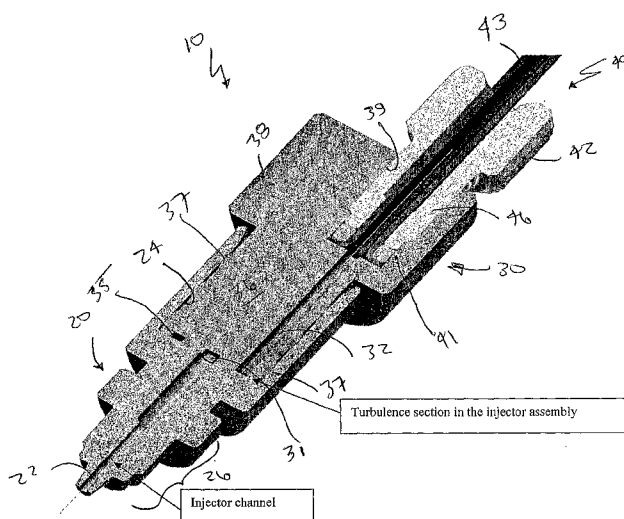
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report

[Continued on next page]

(54) Title: SYSTEM, DEVICE, AND METHOD FOR REDUCING LUMINESCENCE OUTPUT SHIFTS



(57) Abstract: Devices, systems, and methods for conducting chemiluminescent immunoassay testing and, more particularly, to initiating and monitoring a chemiluminescent reaction in a plurality of such assays, of different types, on a single immunoassay instrument, in a single procedure, using a plurality of labels and a triggering reagent combination are disclosed. Moreover, by including a base reagent injector assembly having an "e-channel" to provide a swirling turbulence to the base reagent immediately before it is introduced into the well of a cuvette containing a sample and an acid reagent. The added turbulence addresses the phenomenon referred to as "RLU shift," in which the luminescence output can increase or decrease between assays.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC (8) - B01L 3/02; B32B 5/02, 27/04, 27/12 (2007.01)

USPC - 422/100

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) - B01L 3/02; B32B 5/02, 27/04, 27/12 (2007.01)

USPC - 422/100, 81; 436/54, 180

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: All Classifications (text search - see terms below)

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

PUBWEST DB=PGPB,USPT,USOC,EPAB,JPAB; Search Terms: luminescent chemiluminescent immunoassay injector RLU shift
vibration analyzer surfactant turbulent flow nozzle micelle

Google: RLU-shift; luminescent immunoassay injector shift; relative-light-unit shift; luminescent immunoassay vibration surfactant

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,056,923 A (Diamond, et al.) 02 May 2000 (02.05.2000), col 4, ln 11-13; col 4, ln 28-32; col 4, ln 51-53; col 6, ln 18-33; col 6, ln 40-43; FIG. 11	1-17
A	US 2005/0180894 A1 (Petroff, et al.) 18 Aug 2005 (18.08.2005), entire document	1-17

☐ Further documents are listed in the continuation of Box C.

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"&" document member of the same patent family

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28 March 2007 (28.03.2007)

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