



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : G01N 33/86, 33/80	A3	(11) International Publication Number: WO 00/04388 (43) International Publication Date: 27 January 2000 (27.01.00)
(21) International Application Number: PCT/US99/14126 (22) International Filing Date: 2 July 1999 (02.07.99) (30) Priority Data: 09/115,992 15 July 1998 (15.07.98) US (71) Applicant: LIONHEART TECHNOLOGIES, INC. [US/US]; c/o BTI Holdings Inc., Highland Park, Box 998, Winooski, VT 05404-0998 (US). (72) Inventors: SCHNEIDER, David, J.; 236 Olde Orchard Lane, Shelburne, VT 05482 (US). SOBEL, Burton, E.; 2 Lost Cove, Colchester, VT 05446 (US). TRACY, Paula, B.; 18 Skyline Drive, Essex Jct., VT 05452 (US). HELD, Paul, G.; 130 Cross Parkway, Burlington, VT 05401 (US). HALE, Paul, D.; 111 Rivermount Terrace, Burlington, VT 05401 (US). ALPERT, Norman, R.; 4279 Harbor Road, Shelburne, VT 05482 (US). (74) Agents: MANDIR, William, H. et al.; Sughrue, Mion, Zinn, MacPeak & Seas, PLLC, Suite 800, 2100 Pennsylvania Avenue, N.W., Washington, DC 20037-3202 (US).		(81) Designated States: JP, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> (88) Date of publication of the international search report: 29 June 2000 (29.06.00)
(54) Title: SYSTEM FOR THE QUANTIFICATION OF PLATELET ACTIVATION (57) Abstract The present invention provides a method for the quantification and assessment of platelet activation in whole blood samples and monitoring of antiplatelet pharmacologic agents. The method for quantifying platelet activation includes exposing platelets to a physiological concentration of an agonist that activates some of the platelets, resulting in the formation of at least one binding site on the surface of the activated platelets, and measuring the activated platelets. The present invention provides a method of assessing specific components of platelet activation.		

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/14126

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/86 G01N33/80

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 7 G01N

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 91 06859 A (JAFJE RUSSELL M) 16 May 1991 (1991-05-16) page 17, line 1-13 page 16, line 22-33 ---	11,12
X	EP 0 273 671 A (AMERSHAM INT PLC) 6 July 1988 (1988-07-06) page 2, line 6-10 ---	11,12
Y	WEN D ET AL: "A fluorescence-conjugated immunobinding assay for the detection of P-selectin on platelets" THE JOURNAL OF LABORATORY AND CLINICAL MEDICINE, vol. 124, no. 3, September 1994 (1994-09), pages 447-454, XP002122618 abstract page 448 --- -/--	1-3,7,27



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

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- *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

- *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
- *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

22 November 1999

Date of mailing of the international search report

25. 01. 00

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/14126

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BESSOS H ET AL: "A whole blood assay for platelet HPA1 (PLA1) phenotyping applicable to large-scale screening" BRITISH JOURNAL OF HAEMATOLOGY, vol. 92, no. 1, January 1996 (1996-01), pages 221-225, XP002122619 abstract	1-3,7,27
A	WO 94 13307 A (STERITECH INC) 23 June 1994 (1994-06-23) page 5, line 13-21 page 6, line 4,16-21 claim 8	1-32

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/ 14126

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 11-12
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:
The initial phase of the search revealed a very large number of documents relevant to the issue of novelty; claims 11 and 12 appear to refer to any standard equipment used for solid phase immunoassays.

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 II Observations where unity of invention is lacking (Continuation of item 2 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 an additional fee, this Authority did not invite payment of any additional fee.

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.
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 1.2

The applicant's attention is drawn to the fact that claims, or parts of the claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/14126

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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