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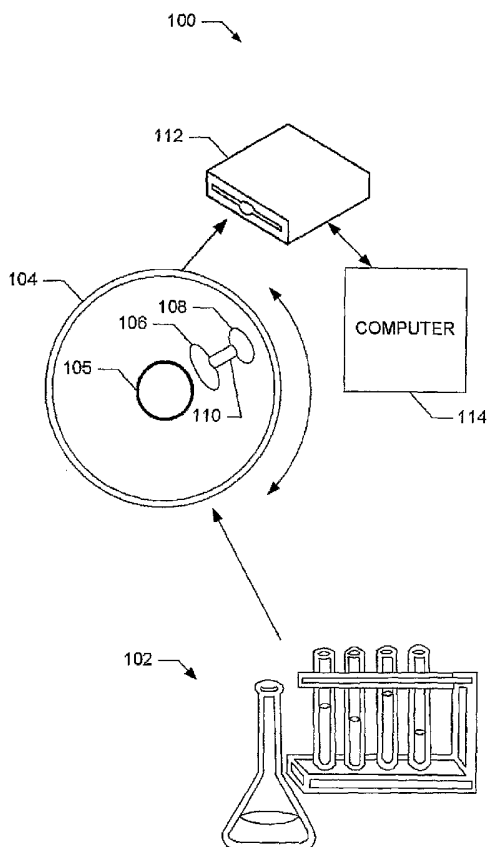
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR MAGNETIC SENSING AND CONTROL OF REAGENTS



(57) Abstract: An apparatus for characterizing reactions including a spinnable medium (104) with one or more internal chambers (106/108/110) capable of containing one or more reagents (216), a composite reagent (218/224) that includes a magnetic component (220), a rotating mechanism (112) capable of turning the spinnable medium (104), and a reading mechanism (112) capable of measuring the magnetic component at one or more regions of the spinnable medium (104).

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8 June 2006

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# INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2005/029152

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> INV. G01N33/58 G01N35/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) 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) EPO-Internal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 324 042 A (REMACLE, JOSE) 2 July 2003 (2003-07-02)	1-5
Y	paragraphs [0133], [0134]	6-14
Y	US 6 180 418 B1 (LEE GIL U) 30 January 2001 (2001-01-30) column 8, lines 28-38	6-14
X	WO 02/42498 A (BURSTEIN TECHNOLOGIES, INC) 30 May 2002 (2002-05-30) page 2, lines 9-31	1-5
A	WO 93/19371 A (ABBOTT LABORATORIES) 30 September 1993 (1993-09-30) page 3, lines 5-32 page 6, line 4 - page 10, line 10 claim 1	6
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* 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 document but published on or after the international filing date "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) "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 7 November 2005		Date of mailing of the international search report 22.03.2006
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Cantalapiedra, I

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2005/029152

## Box 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.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
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 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:

see additional sheet

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.:

1-14

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14

apparatus and method for performing a displacement reaction between a target molecule and a reagent compound (comprising a tethered and a magnetic component) in a biodisc

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2. claims: 15-17

method for regulating flow in a biodisc

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/029152

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