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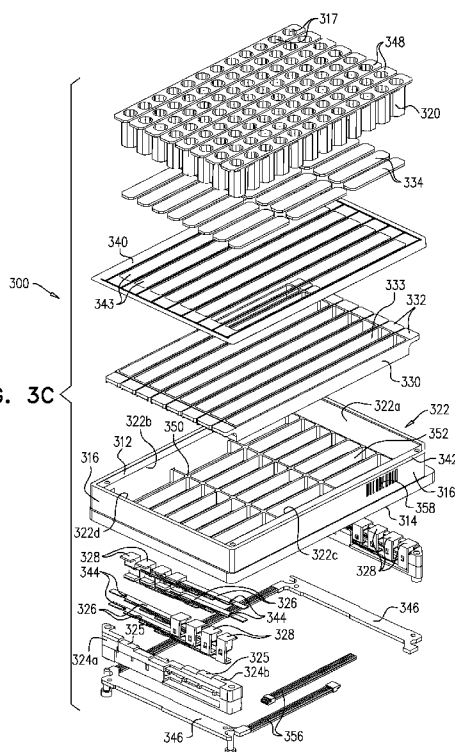
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[Continued on next page]

## (54) Title: MULTI-WELL PLATES AND METHODS OF USE THEREOF

(57) Abstract: There is provided a plate specifically a multi-well plate equipped with a mechanism to facilitate determination of the amount of a fluid added to or removed from a well in the plate. Specifically it foresees a balance integrated in the frame of the plate and capable of determining the difference in mass before and after filling the wells. Other embodiments foresee also a heating and cooling device to be associated with the plate and the plate to have removable wells. Other embodiments are also described.

FIG. 3C



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**Published:**

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# INTERNATIONAL SEARCH REPORT

International application No  
PCT/IB2014/066178

## A. CLASSIFICATION OF SUBJECT MATTER

INV. B01L9/00 G01N35/02 B01L3/00  
ADD.

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)

B01L 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 practicable, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 477 226 A1 (AUTOM PARTNERSHIP CAMBRIDGE [GB]) 17 November 2004 (2004-11-17) paragraphs [0002], [0016]; figures 1-5 -----	1-8,11, 14
X	US 2006/213964 A1 (EXCOFFIER JEAN-LOUIS [US] ET AL) 28 September 2006 (2006-09-28) paragraphs [0028], [0038] - [0041], [0052]; figures 1-5 -----	1-8,11, 14
X	US 2008/031774 A1 (MAGNANT GARY P [US] ET AL) 7 February 2008 (2008-02-07) paragraphs [0116] - [0119]; figures 1,4 -----	1,2,4-8, 11,14
X	EP 2 623 204 A1 (HOFFMANN LA ROCHE [CH]) 7 August 2013 (2013-08-07) paragraphs [0020] - [0026]; figures 1-9 -----	1



Further documents are listed in the continuation of Box C.



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 application or patent 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

27 March 2015

Date of mailing of the international search report

29/06/2015

Name and mailing address of the ISA/

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IB2014/066178

## 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.:  
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 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:

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 fees, this Authority did not invite payment of 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.:

2, 3, 5-8, 11, 14(completely); 1, 4(partially)

### 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.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

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

1. claims: 2, 3, 5-8, 11, 14(completely); 1, 4(partially)

A multiwell plate comprising displaceable wells and a signal provider producing a signal in response to displacement.

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2. claims: 9, 10, 12, 13, 49-67(completely); 1, 4(partially)

A multiwell plate comprising displaceable wells and means to weight the added material.

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3. claims: 15-22(completely); 1, 4(partially)

A multiwell plate comprising displaceable wells and means for sensing the temperature of the wells.

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4. claims: 23-29, 40-48(completely); 1, 4(partially)

A multiwell plate comprising displaceable wells and means for heating and/or cooling the wells.

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5. claims: 30-39(completely); 1, 4(partially)

A multiwell plate comprising displaceable wells and means for supplying power and processing the data.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2014/066178

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