Abstract:

This invention describes a platform and a method for binding assays in a plurality of low volume, light guiding measuring cells into which liquid can be addressed in a dual-multiplexed way. The dual-multiplexing of each individual measuring cell, in which only a single assay is performed, enables the assay optimization for each target under interest while preventing cross-reactivity issues. The measuring cells' dimensions and light guiding capability allow for high sensitivity and high performances assays.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC: BOIL 3/00( 2006.01);C12M I/34( 2006.01),3/00( 2006.01);C12Q 1/68( 2006.01);G01N 15/06( 2006.01),21/00( 2006.01),31/22( 2006.0 1),33/00( 2006.0 1),33/48( 2006.01)

USPC: 422/50,57,61,68. 1;435/287.2,287.3,287.8,287.9,288.4,288.5,288.7

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. : 422/50, 57, 61, 68.1; 435/287.2, 287.3, 287.8, 287.9, 288.4, 288.5, 288.7

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)

EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 5,885,837 (WINKLER et al) 23 March 1999 (23.03.1999), columns 1-6-7, 11 and Figures 1 and 7A-B.</td>
<td>1-25</td>
</tr>
<tr>
<td></td>
<td>US 6,989,130 (DESMUKH) 24 January 2006 (24.01.2006), columns 4-6 and Figure 4.</td>
<td>1-6</td>
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<tr>
<td></td>
<td>US 6,309,602 (ACKLEY et al) 30 October 2001 (30.10.2001), columns 7-9.</td>
<td>1-6</td>
</tr>
</tbody>
</table>

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

Date of the actual completion of the international search 28 August 2008 (28.08.2008)

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