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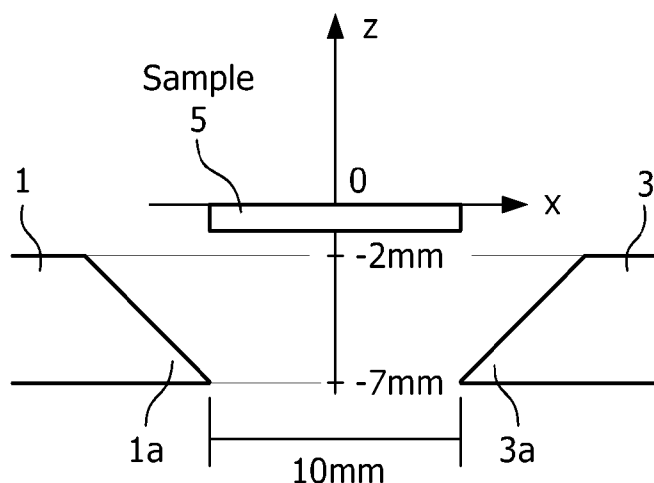
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(54) Title: BIOSENSOR WITH QUADRUPOLE MAGNETIC ACTUATION SYSTEM



**FIG. 4**

(57) Abstract: The present invention provides a biosensor comprising means (5) for accommodating a fluid sample having a sensor surface at its bottom and means for detecting particles accumulated at and/or proximate the sensor surface. The biosensor further comprises a quadrupole magnetic unit (1, 2, 3, 4) adapted to provide a magnetic field gradient at the sensor surface, wherein the unit is arranged below the sensor surface.



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**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. G01R33/12 G01N27/74 G01N35/00  
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)

G01N G01R

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)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2008/107827 A1 (KONINKL PHILIPS ELECTRONICS NV [NL]; VAN LANKVELT PETRUS JOHANNES W [N]) 12 September 2008 (2008-09-12) abstract; figure 3	1-7, 10-15
Y	CHONG H AHN ET AL: "A Fully Integrated Micromachined Magnetic Particle Separator" JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 5, no. 3, 1 September 1996 (1996-09-01), XP011034709 ISSN: 1057-7157 abstract; figures 3,10 ----- -/--	1-7, 10-15

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

☒ See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	WO 2007/085980 A1 (KONINKL PHILIPS ELECTRONICS NV [NL]; PRINS MENNO WILLEM JOSE [NL]; KUR) 2 August 2007 (2007-08-02) page 13, line 15 - page 14, line 17; figure 6 -----	1-15

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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