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(54) Title: DEVICE FOR MULTIPARAMETRIC ASSAYS

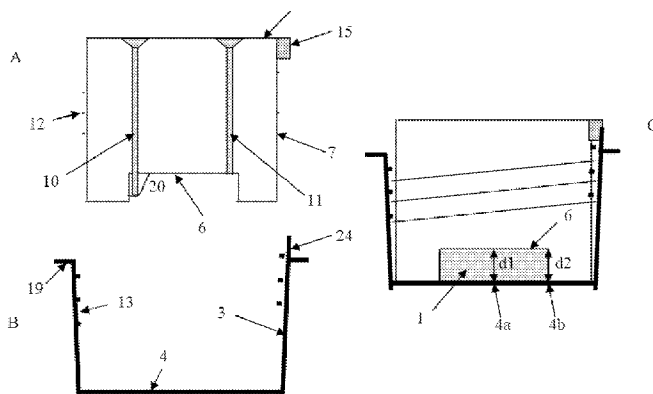


FIG. 1

(57) **Abstract:** An assay device (C) compatible with multi-well format for performing a biological reaction between capture and target molecules, comprising: a cap (A) comprising side walls (7), and top surface (5) and a bottom surface (6), wherein the top surface (5) and bottom surface (6) are connected by at least one inlet channel (10) and at least one outlet channel (11) and wherein the top surface (5) of the cap (A) comprises a stopper indentation (15), a well (B) comprising side walls (3) and a bottom surface (4) upon which capture molecules are immobilized, wherein the cap (A) and the well (B) are made of different polymeric materials being preferably cycloolefin polymer for the cap (A) and polypropylene for the well (B), - wherein the side walls (7) of the cap (A) and the side walls (3) of the well (B) comprises complementary screwing means (12,13) to seal the cap (A) inside the well (B) to form a chamber (1) between the bottom surface (6) of the cap (A) and the bottom surface (4) of the well (B) and wherein the two said surfaces are essentially parallel to each other with a variation of distance between the two surfaces lower than 100 μm , better lower than 20 μm and, wherein the chamber (1) has a height of less than 5 mm, preferably less than 2 mm and which is vapour and fluid tight, when the cap (A) is sealed inside the well (B).



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A. CLASSIFICATION OF SUBJECT MATTER

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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)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/049862 A1 (HE LIN [US] ET AL) 13 March 2003 (2003-03-13) cited in the application paragraphs [0009], [0039] - [0048]; figures 3a-c, 4a, 5, 6d, 15a claims 12, 48, 49	1-16
Y	WO 2005/110600 A (NUNC AS [DK]; AUTOMATION PARTNERSHIP LTD [GB]; ESSER PETER [DK]; SMITH) 24 November 2005 (2005-11-24) page 5, lines 1-26; figures 2a, 2b, 4 page 2, lines 1-8 page 4, lines 2-29 page 6, lines 9-11; claims 22, 53 ----- -/--	1-16

☒ 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

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INTERNATIONAL SEARCH REPORT

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