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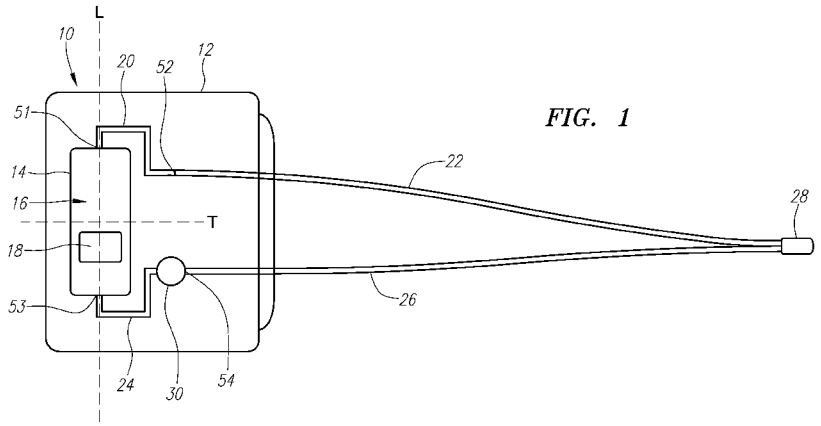

FIG. 1

(57) Abstract: Described herein are systems, devices, and methods for the delivery of substances to, or the sampling of substances from, a patient using a portable and preferably implantable device. The substances introduced to and/or taken from the patient are preferably fluidic and are driven by a miniature pump, such as a microimpedance pump. A number of design variations are explicitly and implicitly described, such as the use of multiple pumps and multiple reservoirs for containing medicaments. Methods of manufacture of these systems and devices are also described, for instance, using molding, micromachining, or lithographic processes.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

A61M 37/00(2006.01)i, A61M 31/00(2006.01)i, A61M 5/142(2006.01)i

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)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: drug delivery, impedance pump, pump chamber

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	WO 2009-092067 A2 (NEUROSYSTEC CORP.) 23 July 2009. See abstract; claims 1, 23-25; and figures 1-4.	7 1-6,8-20
A	US 2005-0074340 A1 (GUOLIN XU et al.) 07 April 2005. See abstract and claim 1.	1-20
A	US 2007-0043335 A1 (JAMES M. OLSEN et al.) 22 February 2007. See abstract and claim 1.	1-20
A	US 2007-0085449 A1 (YIN CHIANG FREDDY BOEY et al.) 19 April 2007. See abstract and claim 1.	1-20

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

☒ See patent family annex.

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