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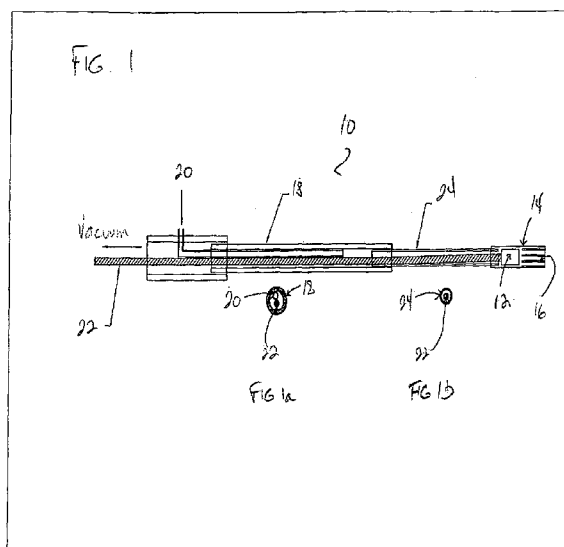
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(54) Title: ASSAY CATHETER WITH PRESSURE MONITORING



(57) Abstract: An apparatus adapted to position a functional device tip, such as a sensor, in a body site having both fluid and non-fluid tissue components, in a manner that substantially mitigates the impingement of non-fluid tissue impingement on the device tip. One such apparatus can be used to both remove fluid from a tissue site, such as a site exhibiting tissue swelling, and to determine tissue pressure, using a single catheter. An apparatus can provide a pressure sensor that is adapted to be positioned and used within the tissue site itself, without substantial impingement by non-fluid tissue, and optionally also provides the ability to concurrently remove and/or deliver fluids or components thereof to or from the tissue site.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 08/52070

A. CLASSIFICATION OF SUBJECT MATTER  
IPC(8) - A61M 1/00; A61M 25/14; A61M 25/16  
USPC - 604/326

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)

IPC(8) ? A61M 1/00; A61M 25/14; A61M 25/16

USPC ? 604/326

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)

WEST - DB=PGPB,USPT,USOC,EPAB,JPAB; PLUR=YES; OP=ADJ; Google

Search Terms: catheter, sensor, sense, sensing, probe, fluid, flow, liquid, impingement, impinge, impinged, impinging, effect, effecting, effected, impact, impacting, impacted, encroach, encroached, encroaching, disturb, disrupt, disturbing, disrupting, disruption,

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 6,942,634 B2 (ODLAND) 13 September 2005 (13.09.2005) col. 5, ln 27-33; col. 7, ln 1-10; col. 10, ln 8-12 and 35-60; col. 11, ln 62-65; col. 23, ln 49-61; col. 24, ln 2-5; col. 25, ln 50-52 and 63-67; col. 26, ln 1-19 and 49-65.	1-4, 7, 11-14 ----- 5, 6, 8-10
Y	US 2006/0287600 A1 (MCEOWEN) 21 December 2006 (21.12.2006) para [0016]; para [0053]; para [0055]; para [0061]; para [0097]; para [0107]; para [0162]; para [0164].	5, 6, 8, 10
Y	US 2004/0147987 A1 (GINSBURG et al.) 29 July 2004 (29.07.2004) abstract.	9

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Further documents are listed in the continuation of Box C.

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"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

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