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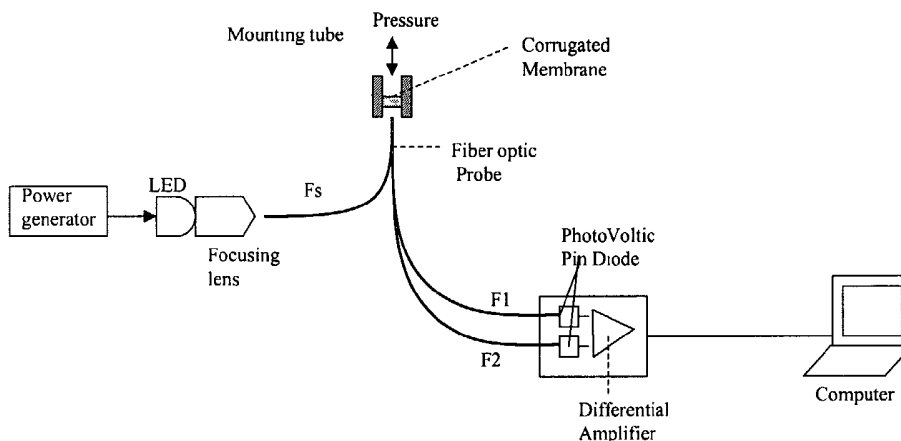
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[Continued on next page]

(54) Title: A MINIATURE OPTICALLY COUPLED ELECTRICALLY ISOLATED ULTRASENSITIVE DYNAMIC PRESSURE DETECTOR



Schematics of the fiber-optic linked pressure sensing system (FOLPS)

(57) **Abstract:** A system for monitoring low dynamic pressures in confined spaces, such system comprising a catheter; a multilayered corrugated membrane of diameter less than 2 mm with a reflective inner layer mounted within said catheter; a set of optical fibers comprising one or more illuminating fibers (Fs) and two or more detecting fibers (F1, F2) which are contained within said catheter and whose ends are set at differing distances from the membrane.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 73/705

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. : 73/705; 600/309, 310, 322-327, 341-353, 409-420; 604/4, 101.3-103.1 503-510; 128/632-782; 250/227.11-227.32, 230, 231.19

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

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,703,757 A (COHEN) 03 November 1987 (03.11.1987), entire patent.	1-10
A	US 6,272,370 B1 (GILLIES et al) 07 August 2001 (07.09.2001), entire patent.	1-10
A	US 6,238,339 B1 (FIDDIAN-GREENE et al) 29 May 2001 (29.05.2001), entire patent.	1-10
A	US 5,142,155 A (MAUZE et al) 25 August 1992 (25.08.1992), entire patent.	1-10
A,P	US 6,537,232 B1 (KUCHARCZYK et al) 25 March 2003 (25.03.2003), entire patent.	1-10



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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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