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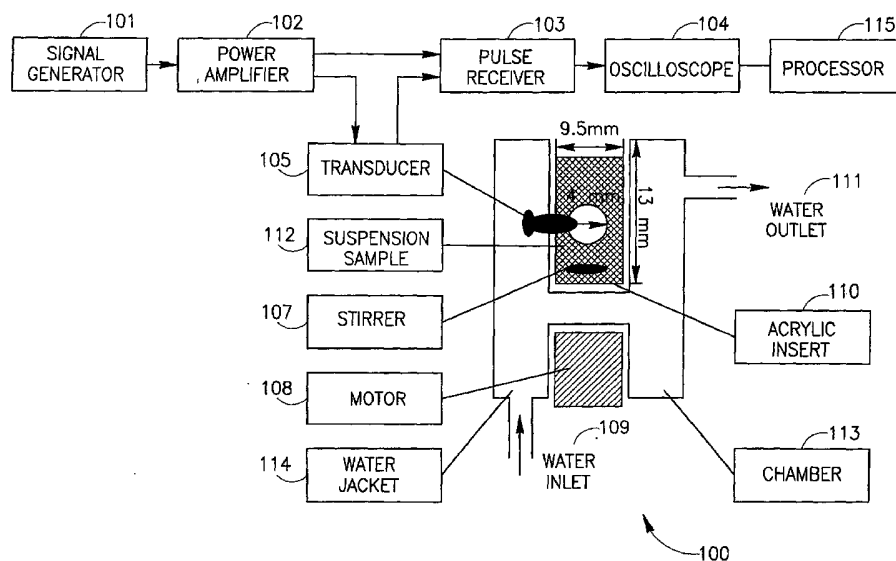
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(54) Title: SYSTEM AND METHOD FOR ULTRASONIC MEASURING CONCENTRATION OF PARTICLE PROPERTIES



(57) Abstract: Devices, systems and methods for measuring and detecting properties of a variety of particles or cells in suspension. Properties, such as, for example, velocity of particles, concentration and/or size may be measured according to the methods of the invention. Acoustic energy may be introduced to a focal zone and narrow band interrogating signals may be used. The acoustic energy may cause movement or streaming of the fluid or suspension. The acoustic streaming may allow a Doppler effect measurement without any other source of velocity.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/41035

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61B 8/00(2006.01)

USPC: 600/440

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. : 600/440; 702/19

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,988,190 (Miles) 29 January 1991 (29.01.1991), note: see the entire patent.	1-51
A	US 5,792,962 (Constant et al.) 11 August 1998 (11.08.1998), note: see the entire patent.	1-51

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

☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means	
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