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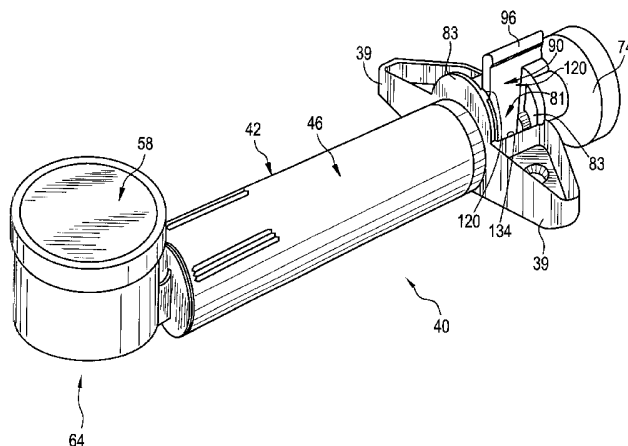
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ACTUATING MECHANISM FOR FLUID DISPLACEMENT AND PRESSURIZING DEVICE



(57) Abstract: An actuating mechanism (90) for rapidly and selectively moving a threaded screw and nut member (80) combination into or out of threaded engagement, particularly for use to pressurize angioplasty balloon catheters, or the like. The mechanism includes a housing (42) and a threaded screw structure (68) slidably displaceable through the housing. A nut member (80) having partial threads (84) is selectively engageable and disengageable with the threaded screw structure (68). The mechanism includes a carrier member (110) and is designed to be assembled with the housing (42) via a bayonet arrangement, such as a quarter-turn bayonet arrangement, and is configured to provide an audible indication when it is, in fact, properly and fully installed. Preferably, the housing is configured to receive a pressure gauge (58) directly into a threaded bore on the housing (42). An improved method of assembling an actuating mechanism is also provided.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/08975

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 25/10E, A61M 29/00
 US CL : 604/97.03

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. : 604/97.01-97.03, 96.01, 98.01, 100.01-100.02, 920

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)
 BRS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,713,242 A (KANNER et al.) 03 February 1998, see entire patent.	1-5, 7-17
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Y		6
A	US 5,168,757 A (RABENAU et al.) 08 December 1992, see figures	1-17
A	US 4,940,459 A (NOCE) 10 July 1990, see entire patent.	1-17
A, E	US D454,358 S (DAVIS et al.) 12 March 2002, see figures.	1-17
A	US 6,110,151 A (SPOOL et al.) 29 August 2000, see patent.	1-17
A	US 4,370,982 A (REILLY) 01 February 1983, see figures.	1-17
A	US 5,137,514 A (RYAN) 11 August 1992, see patent.	1-17

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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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)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

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