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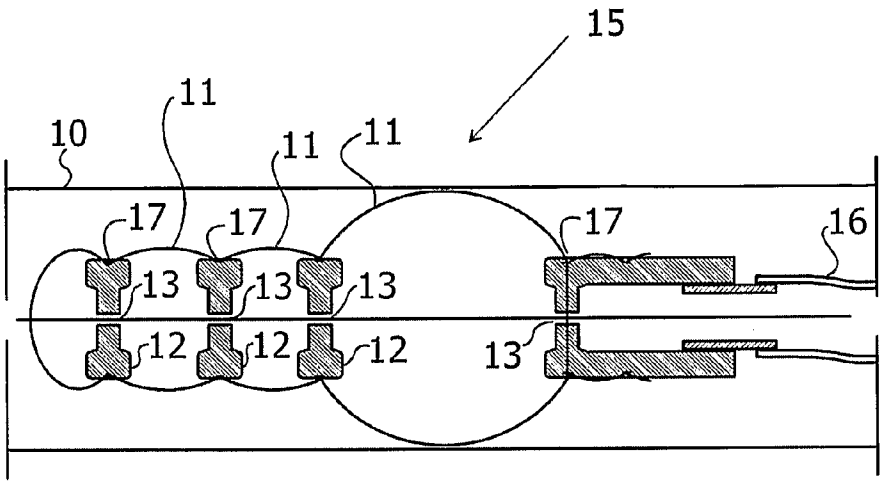


Fig. 1

(57) Abstract: A self-propelled device for locomotion through a lumen, comprising a set of serially arranged inflatable chambers, the end ones of which expand at least radially when inflated. Connecting passages provide fluid communication between each pair of adjacent chambers. A fluid source is attached to one of the end chambers. The connecting passages are such that the fluid inflates the chambers in a sequence, beginning with the chamber closest to the source, and ending with the chamber furthest from the source. The same sequence occurs when the chambers deflate, beginning with the chamber closest to the source, and ending with the chamber furthest from the source. The fluid source can either be a fluid supply tube, extending to a supply outside the lumen, or it can be built-in and carried by the device. The device can crawl either along the lumen wall or on an inserted guide wire.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC: **A61M 37/00**(2006.01)

USPC: 604/95.01
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 604/95.01-.05, 96.01, 101.01

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 5,337,732 A (Grundfest et al.) 16 August 1994 (16.08.1994), see entire patent.	1-41
A	US 4,838,859 A (Strassmann) 13 June 1989 (13.06.1989), see entire patent.	1-41
A	US 2,855,934 (Daughaday) 14 October 1958 (14.10.1958), see entire patent.	1-41

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
10 June 2008 (10.06.2008)	19 JUN 2008
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