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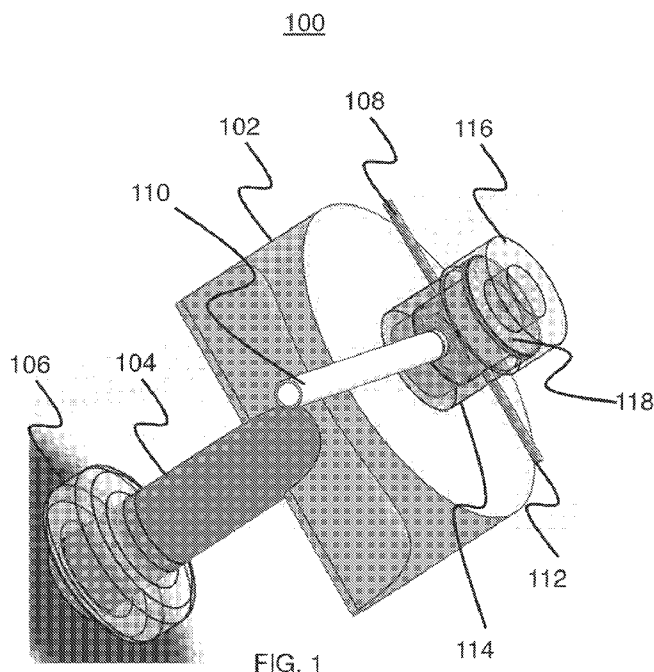
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[Continued on next page]

(54) Title: SYSTEMS, METHODS AND DEVICES FOR PERFORMING WATER AIDED ENDOSCOPY

(57) Abstract: Systems, methods and devices for per-
forming water aided endoscopy (WAE) are provided
herein. The systems include a plurality of devices de-
signed to create a sealed environment within the body
cavity, including a multi-functional plug, valves, bal-
loons and pumps. The systems also provide special-
ized tools configured for operation within a liquid en-
vironment which are designed to interface with the
multi-functional seal for insertion into the body cavity
while maintaining the seal, including an adjustable
constant shape snare. Additional features of the sys-
tems and methods include specialized fluids for in-
creasing visibility with the body cavity, dyes and other
solutions for image-enhancement and diagnostics, and
software for increasing the clarity of the image in real-
time.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2014/030568

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61B 1/01 (2014.01)

USPC - 600/115

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) - A61B 1/00, 1/01, 1/04, 17/00; A61M 25/00, 29/00; G02B 23/00, 23/04 (2014.01)

USPC - 600/29, 31, 32, 115, 154; 604/172, 319; 606/191, 192, 197

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CPC - A61B 1/00, 1/01, 1/04, 17/00; A61M 25/00, 29/00; G02B 23/00, 23/04 (2014.07)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Orbit, Google Patents, Google, Google Scholar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008/0177142 A1 (ROSKOPF) 24 July 2008 (24.07.2008) entire document	1, 2, 4, 5, 12
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Y		3, 6-11, 13-16
Y	US 7,695,428 B2 (MACHIDA) 13 April 2010 (13.04.2010) entire document	3, 6-11
Y	US 5,122,147 A (SEWELL, JR) 16 June 1992 (16.06.1992) entire document	13-16
A	US 7,276,075 B1 (CALLAS et al) 02 October 2007 (02.10.2007) entire document	1-18
A	US 2005/0124856 A1 (FUJIKURA et al) 09 June 2005 (09.06.2005) entire document	1-18
A	US 6,123,665 A (KAWANO) 26 September 2000 (26.09.2000) entire document	1-18

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"P" document published prior to the international filing date but later than the priority date claimed

"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

"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

"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

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