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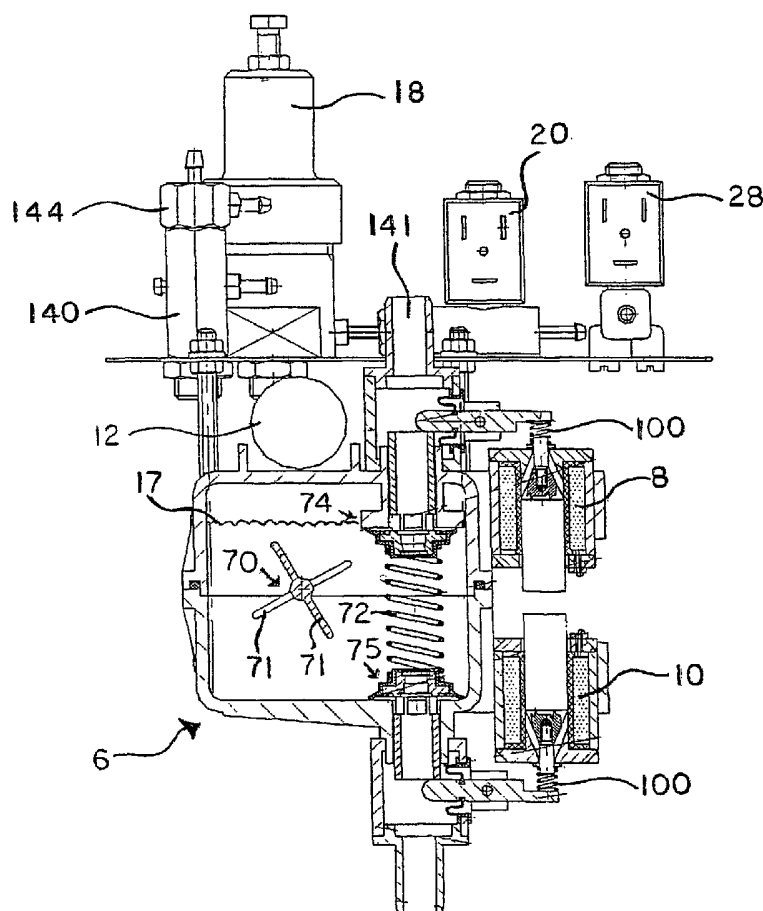
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- (74) Agents: STACEY, George, K. et al.; Smith & Nephew, Inc., 1450 Brooks Road, Memphis, TN 38116 (US).
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[Continued on next page]

(54) Title: ENDOSCOPE WITH IMAGING PROBE



(57) Abstract: An endoscope includes an imaging probe, positioned at the distal end of the elongated member; a pivot mechanism mechanically coupled to the imaging probe; and an actuating assembly extending through the passage of the elongated member and coupled to the pivoting mechanism. The imaging probe includes an objective lens, an imager positioned to receive an image from the objective lens, and a light source for illuminating a target. Upon actuation of the actuating mechanism, the pivot mechanism rotates the imaging probe relative to a point at the distal end of the elongated member. The imaging probe may comprise a transmitter and battery for wireless transmission of imaging probe to the proximal end of the endoscope.

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INTERNATIONAL SEARCH REPORT

Int ional Application No

PCT/US 02/24809

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61B1/05 A61B1/12 A61B1/06

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 7 A61B

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 57770 A (PINOTAGE LLC) 5 October 2000 (2000-10-05)	1,2,4-6
A	page 4, last paragraph -page 5, paragraph 1 page 15, last paragraph -page 19, paragraph 1; figures 7,8 ---	11-15
X	WO 98 32380 A (SMITH & NEPHEW INC ;UNIV MASSACHUSETTS (US)) 30 July 1998 (1998-07-30)	1,2
A	page 5, line 15 -page 7, line 17 ---	14
X	US 5 166 787 A (IRION KLAUS) 24 November 1992 (1992-11-24)	1,8,10
X	column 7, line 60 -column 8, line 54 column 6, line 21 - line 23 column 7, line 16 - line 18 --- -/--	11,12,14

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

° Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

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)

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

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.

& document member of the same patent family

Date of the actual completion of the international search

14 February 2003

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/24809

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 575 757 A (KAZAKEVICH YURY E ET AL) 19 November 1996 (1996-11-19) cited in the application column 4, line 55 -column 5, line 55 ----	7
A	US 5 894 369 A (MITSUMORI NAOTAKE ET AL) 13 April 1999 (1999-04-13) column 2, line 7 - line 15 column 4, line 28 - line 30 ----	8,9
A	EP 0 497 347 A (CIRCON CORP) 5 August 1992 (1992-08-05) column 11, line 32 -column 12, line 32 ----	8,9
X	WO 93 15648 A (NAKAO NAOMI L ;WILK PETER J (US)) 19 August 1993 (1993-08-19) page 11, last paragraph -page 12, paragraph 1; claims 10-13,23-28 ----	11,12
X	DE 100 28 080 A (ASAHI OPTICAL CO LTD) 22 February 2001 (2001-02-22) column 2, line 47 -column 3, line 27 -----	11

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 02/24809

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-10

Endoscope with pivoting imaging probe at distal end

2. Claims: 11-15

Endoscope with imaging probe at distal end including a transmitter.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/24809

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