

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 April 2006 (13.04.2006)

PCT

(10) International Publication Number
WO 2006/039522 A3

(51) International Patent Classification:

A61B 1/04 (2006.01) A61B 1/05 (2006.01)
A61B 1/00 (2006.01) A61B 1/06 (2006.01)

(21) International Application Number:

PCT/US2005/035240

(22) International Filing Date:

30 September 2005 (30.09.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/614,879 30 September 2004 (30.09.2004) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

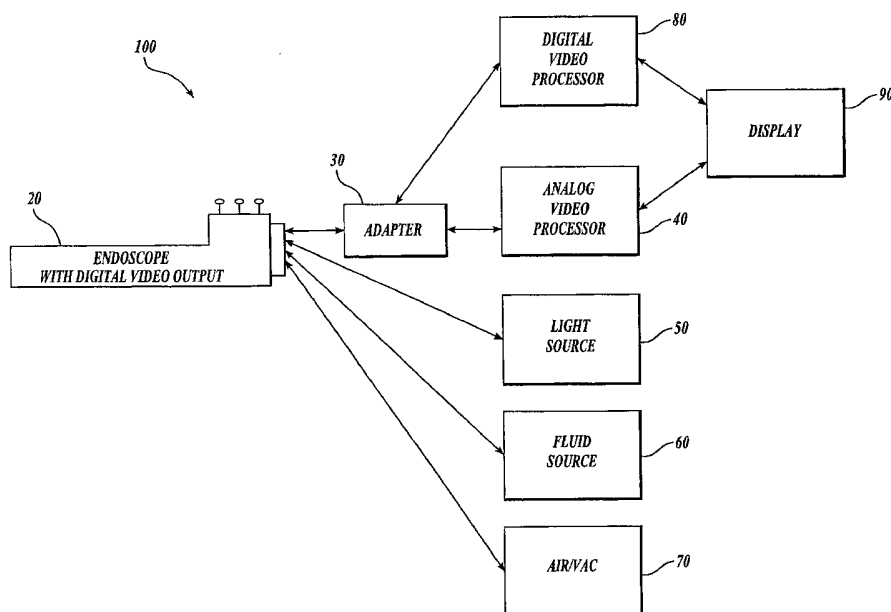
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
27 July 2006

(15) Information about Correction:

[Continued on next page]

(54) Title: ADAPTER FOR USE WITH DIGITAL IMAGING MEDICAL DEVICE



(57) Abstract: An adapter that allows digital imaging devices to be used with existing analog consoles. In one embodiment of the invention, an adaptor is provided that receives a digital video image signal from a medical device and converts the digital signal into an analog signal that can be displayed by an analog console. In another embodiment, the invention provides a method for converting a digital video signal received from a medical imaging device into a standardized analog video format.



Previous Correction:

see PCT Gazette No. 24/2006 of 15 June 2006

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.

INTERNATIONAL SEARCH REPORT

Internationa l application No
PCT/US2005/035240

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B1/04 A61B1/00 A61B1/05 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)
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)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/080248 A1 (ADAIR EDWIN L ET AL) 27 June 2002 (2002-06-27)	1,7,17, 18
Y	paragraphs [0027], [0061], [0078] -----	2-6,19
Y	WO 2004/068840 A (EVEREST VIT, INC) 12 August 2004 (2004-08-12) abstract page 13, line 8 - line 10 paragraphs [0072] - [0078], [0118] page 31, line 19 - line 21; figures 1-31 -----	2-6,19
X	WO 02/056756 A (FRAMTIDARTA EKNI EHF; PETERSEN, HANNES; JONSSON, RICHAR, MAR; OLAFSDOTT) 25 July 2002 (2002-07-25) the whole document ----- -/--	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
"E" earlier document but published on or after the international filing date
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"O" document referring to an oral disclosure, use, exhibition or other means
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"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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Date of the actual completion of the international search

9 February 2006

Date of mailing of the international search report

22 MAY 2006

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INTERNATIONAL SEARCH REPORT

Intern application No
PCT/US2005/035240

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 2002/145661 A1 (TAKAHASHI AKIHIRO ET AL) 10 October 2002 (2002-10-10) the whole document -----	1,17
A	US 2003/122927 A1 (SAITO KATSUYUKI ET AL) 3 July 2003 (2003-07-03) the whole document -----	1,17
A	US 6 184 922 B1 (SAITO KATSUYUKI ET AL) 6 February 2001 (2001-02-06) the whole document -----	1,17
A	US 5 755 760 A (MAGUIRE ET AL) 26 May 1998 (1998-05-26) column 8, line 56 - line 59 column 11, line 8 - line 22; figures 1-16 -----	

INTERNATIONAL SEARCH REPORT

ial application No.
PCT/US2005/035240

Box II Observations where certain claims were found unsearchable (Continuation of item 2 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 III Observations where unity of invention is lacking (Continuation of item 3 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.:

1-7, 17-19

Remark on Protest

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

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

1. claims: 1-7, 17-19

Medical Imaging System

2. claims: 8-13, 15, 16

Adapter

3. claim: 14

Interface

INTERNATIONAL SEARCH REPORT

on patent family members

Internationa

lication No

PCT/US2005/035240

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002080248	A1	27-06-2002	WO 03030525 A1	10-04-2003
WO 2004068840	A	12-08-2004	EP 1618736 A2	25-01-2006
WO 02056756	A	25-07-2002	AU 2002219499 A1	30-07-2002
US 2002145661	A1	10-10-2002	NONE	
US 2003122927	A1	03-07-2003	US 2002101507 A1	01-08-2002
			US 2002196334 A1	26-12-2002
US 6184922	B1	06-02-2001	NONE	
US 5755760	A	26-05-1998	AU 2256797 A	01-10-1997
			DE 69726711 D1	22-01-2004
			DE 69726711 T2	07-10-2004
			EP 0886487 A2	30-12-1998
			US 5957961 A	28-09-1999
			WO 9733526 A2	18-09-1997