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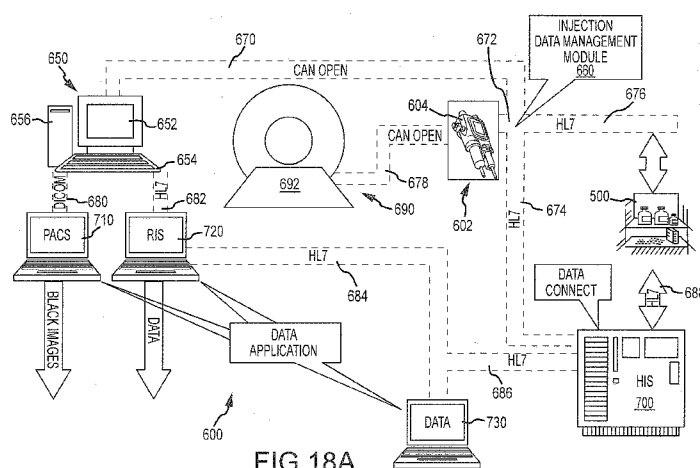
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Published:

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14 March 2013

(54) Title: CONTRAST MEDIA INJECTION DATA MANAGEMENT SYSTEM



(S7) Abstract: Contrast administration data that relates to operation of a contrast media injector system (602) may be converted from at least one format (e.g., a CAN-compliant format) to at least one other format (e.g., an HL-7- compliant format) for use by a medical system (600). Data on contrast media prescribed for an imaging operation using an imaging system (690), data on contrast media dispensed from a contrast media storage/dispensing unit (500) for use in this imaging operation, and data on contrast media actually administered/injected by a contrast media injector system (602) for this imaging operation may be stored in a data structure (780). Patient renal function data may be used to control the dispensing of contrast media from the contrast media/storage/dispensing unit (500), to control the operation of the contrast media injector system (602), or both, and may be stored in the data structure (780) as well.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/037069

A. CLASSIFICATION OF SUBJECT MATTER
INV. G06F19/00
ADD. A61M5/145

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)
G06F A61M

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)

EPO-Internal, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2009/326370 A1 (UBER III ARTHUR E [US] ET AL) 31 December 2009 (2009-12-31) paragraph [0038] - paragraph [0117] figures 1,2	1-22
Y	US 2004/024361 A1 (FAGO FRANK M [US] ET AL) 5 February 2004 (2004-02-05) the whole document	1-22
A	US 2008/253634 A1 (HAY ORI [IL] ET AL) 16 October 2008 (2008-10-16) the whole document	1-22
A	US 2007/238967 A1 (SATTLER STEFAN [DE] ET AL) 11 October 2007 (2007-10-11) the whole document	1-22
	-/-	



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 application or patent 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

20 August 2012

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13/11/2012

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/037069

Box No. 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 No. 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 fees, this Authority did not invite payment of additional fees.
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.:

1-22

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2012/037069

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 2011/001605 A1 (KIANI MASSI JOE E [US] ET AL) 6 January 2011 (2011-01-06) paragraph [0075] - paragraph [0137] paragraph [0276] - paragraph [0343] figures 1-3,5,24 -----	1-22

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/037069

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009326370	A1	31-12-2009	
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		WO 2010102069 A2	10-09-2010

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 1-22

Contrast media injector system comprising a data conversion module to convert CAN-compliant data to HL-7-compliant data; and medical data management system comprising said injector.

2. claims: 23-50

Medical system, comprising a contrast media storage/dispensing unit comprising a plurality of contrast media containers.
