

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2016/015141

A. CLASSIFICATION OF SUBJECT MATTER

G06F 19/00(2011.01)i, A61B 6/00(2006.01)i, A61B 6/03(2006.01)i, A61B 5/08(2006.01)i, A61B 5/091(2006.01)i, A61B 5/00(2006.01)i, A61B 5/113(2006.01)i

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 19/00; A61B 19/00; A61B 6/00; G06K 9/00; G06T 7/20; G06T 7/00; A61B 6/03; A61B 5/08; A61B 5/091; A61B 5/00; A61B 5/113

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

Korean Utility models and applications for Utility models: IPC as above
Japanese Utility models and applications for Utility models: IPC as above

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

eKOMPASS (KIPO internal) & Keywords: anatomical object state, standard database, medical image, local motion vector, predicted local motion vector, normalization, inhalation image, exhalation image, statistic modeling, patient bio information, registering

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2015-0005659 A1 (FUJIFILM CORPORATION) 01 January 2015 See paragraphs [0008], [0026]-[0087]; claims 1, 2, 5-7, and figures 1-4, 8, 9.	1-5,10-12
Y		6-9,13-15
Y	KR 10-2013-0030663 A (SAMSUNG MEDISON CO., LTD.) 27 March 2013 See paragraphs [0048]-[0115]; claims 1, 3, 7; and figures 5-10.	6-9,13-15
A	KR 10-2015-0118484 A (SAMSUNG ELECTRONICS CO., LTD. et al.) 22 October 2015 See paragraphs [0071]-[0073]; and figure 8.	1-15
A	US 2011-0081054 A1 (BELL, David M. et al.) 07 April 2011 See paragraphs [0076]-[0082]; and figures 5-7.	1-15
A	US 2016-0022240 A1 (TOSHIBA MEDICAL SYSTEMS CORPORATION et al.) 28 January 2016 See paragraphs [0029]-[0040]; and figures 1, 2.	1-15



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

29 MARCH 2017 (29.03.2017)

Date of mailing of the international search report

05 APRIL 2017 (05.04.2017)

Name and mailing address of the ISA/KR

 Korean Intellectual Property Office
Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701,
Republic of Korea

Facsimile No. +82-42-481-8578

Authorized officer

Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2016/015141

Patent document cited in search report	Publication date	Patent family member	Publication date
US 2015-0005659 A1	01/01/2015	EP 2829233 A1	28/01/2015
		EP 2829233 A4	18/11/2015
		JP 2013-192912 A	30/09/2013
		US 9117287 B2	25/08/2015
		WO 2013-140749 A1	26/09/2013
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		EP 2570081 B1	09/09/2015
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		US 9002087 B2	07/04/2015
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		TW 201124944 A	16/07/2011
		WO 2011-041474 A1	07/04/2011
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		EP 2982304 A1	10/02/2016
		EP 2982304 A4	30/11/2016
		JP 2014-210171 A	13/11/2014
		WO 2014-162911 A1	09/10/2014