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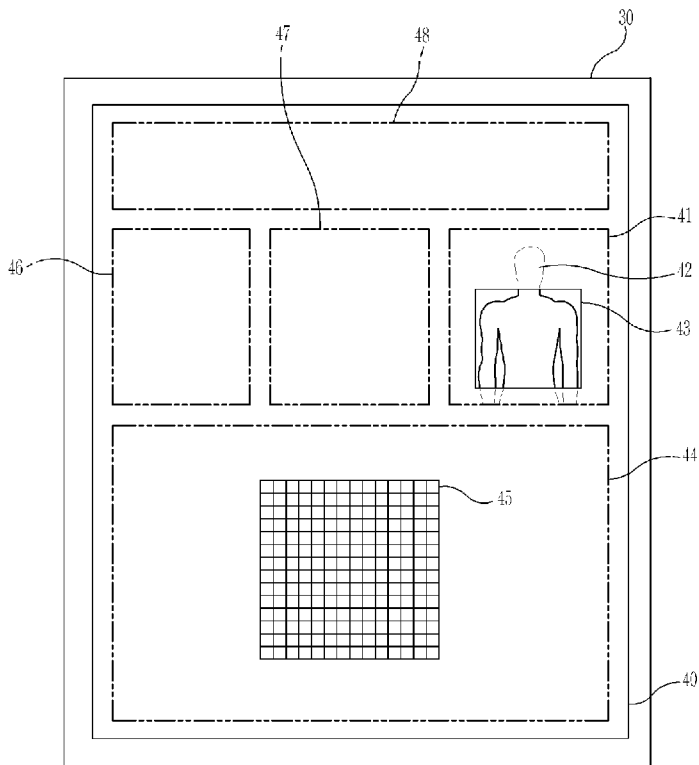
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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[Continued on next page]

(54) Title: X-RAY DEVICE AND METHOD FOR CONTROLLING AN X-RAY IRRADIATION AREA USING THE SAME



(57) Abstract: An X-ray device includes a camera to image an object and output the image of the object, a display member using a touch screen to display the image of the object output from the camera, and an X-ray irradiation region of the object, an X-ray irradiation region controller to control a region of the object to which an X-ray is irradiated, and a control member to enable the irradiation region controller to control the region of the object to which an X-ray is irradiated according to the X-ray irradiation region, when the X-ray irradiation region is determined, based on the image of the object displayed in the display member.

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TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/KR2012/005659****A. CLASSIFICATION OF SUBJECT MATTER***A61B 6/10(2006.01)i, A61B 6/08(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)

A61B 6/10; H05G 1/30; A61B 6/08; A61B 6/00; A61B 6/06

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) &amp; Keywords: X-ray, camera, display, region

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2003-116845 A (HITACHI MEDICAL CORP.) 22 April 2003 See paragraphs [0015], [0016], [0023]-[0026], [0041], [0042], and figure 1.	1, 2, 4, 7-9, 13-15 3, 5, 6, 10-12
X Y	KR 10-0850500 B1 (POSKOM CO., LTD.) 05 August 2008 See paragraphs [0044], [0045], [0050]-[0058], and figures 12-13.	1, 2, 4, 7-9, 13-15 3, 5, 6, 10-12
Y A	JP 2008-515476 A (KONINKLIJKE PHILIPS ELECTRONICS N. V.) 15 May 2008 See paragraphs [0011], [0023], and [0024].	3, 5, 10, 12 1, 2, 4, 6-9, 11, 13-15
Y A	JP 10-155778 A (SHIMADZU CORP.) 16 June 1998 See abstract, and paragraph [0011].	6, 11 1-5, 7-10, 12-15

 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

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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

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

18 JANUARY 2013 (18.01.2013)

Date of mailing of the international search report

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Name and mailing address of the ISA/KR

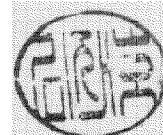
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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/KR2012/005659**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2003-116845 A	22.04.2003	None	
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JP 10-155778 A	16.06.1998	None	