

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2016/069267

A. CLASSIFICATION OF SUBJECT MATTER
G01N27/00(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)
G01N27/00-27/24, G01N27/414

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

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2016
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
JSTPlus/JMEDPlus/JST7580 (JDreamIII)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 2015/007947 A1 (NOKIA CORP.), 22 January 2015 (22.01.2015), page 7, line 15 to page 9, line 30; page 11, lines 4 to 18; fig. 5 & US 2016/0153882 A & GB 2516247 A & EP 3022552 A & CN 105531585 A	1, 2, 4, 9-12 1-12
X Y	JP 2012-247189 A (Hitachi, Ltd.), 13 December 2012 (13.12.2012), paragraphs [0020] to [0031], [0035] to [0037], [0043]; fig. 1, 3 (Family: none)	1, 2, 4, 7-11 7-8
Y	US 2010/0025660 A1 (UNIVERSITY OF CONNECTICUT), 04 February 2010 (04.02.2010), paragraphs [0008], [0030] to [0050]; fig. 4 (Family: none)	1-12

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search 08 September 2016 (08.09.16)	Date of mailing of the international search report 20 September 2016 (20.09.16)
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2012-202864 A (Rohm Co., Ltd.), 22 October 2012 (22.10.2012), paragraphs [0084] to [0089]; fig. 19 (Family: none)	3
Y	WO 2012/150884 A1 (SENSIC AB), 08 November 2012 (08.11.2012), page 13, lines 17 to 19; fig. 2 & US 9157888 B2 & EP 2705357 A & CN 103649739 A	6
A	US 2014/0151631 A1 (The Provost, Fellows, Foundation Scholars, And The Other Members Of Board, Of), 05 June 2014 (05.06.2014), & GB 201220804 D	1-12
A	US 2012/0171775 A1 (UNIVERSITY OF SOUTH CAROLINA), 05 July 2012 (05.07.2012), (Family: none)	1-12
A	JP 61-33645 A (Sumitomo Electric Industries, Ltd.), 17 February 1986 (17.02.1986), (Family: none)	1-12