

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2015/060719

A. CLASSIFICATION OF SUBJECT MATTER
H01L21/68(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)
H01L21/68, H01L21/027

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	1996-2015
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-306763 A (Nikon Corp.), 22 November 1996 (22.11.1996), fig. 1 to 10, and explanations thereof & US 5737441 A	1-19
Y	JP 2010-251484 A (Canon Inc.), 04 November 2010 (04.11.2010), fig. 1 to 7, 12, 13, and explanations thereof & US 2010/0259741 A1	1-19
Y	JP 8-94315 A (Canon Inc.), 12 April 1996 (12.04.1996), fig. 1 to 3, and explanations thereof (Family: none)	1-19

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 15 May 2015 (15.05.15)	Date of mailing of the international search report 26 May 2015 (26.05.15)
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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 9-321125 A (JEOL Ltd.), 12 December 1997 (12.12.1997), fig. 3 to 10, and explanations thereof (Family: none)	3-8, 13-17
Y	JP 2-31443 A (Hitachi, Ltd.), 01 February 1990 (01.02.1990), fig. 1 to 6, and explanations thereof (Family: none)	3-8, 13-17
Y	JP 2010-171448 A (ASML Netherlands B.V.), 05 August 2010 (05.08.2010), paragraph [0031]; fig. 4 & US 2007/0041015 A1	6, 16
Y	JP 2009-54737 A (Nikon Corp.), 12 March 2009 (12.03.2009), paragraph [0061] (Family: none)	6, 16
A	JP 63-244642 A (Mitsubishi Electric Corp.), 12 October 1988 (12.10.1988), entire text; all drawings (Family: none)	1-19
A	WO 2008/136423 A1 (Shibaura Mechatronics Co., Ltd.), 13 November 2008 (13.11.2008), entire text; all drawings & US 2010/0075442 A1 & DE 112008001104 T5 & KR 10-2009-0132610 A	1-19
A	JP 2013-161915 A (Tokyo Electron Ltd.), 19 August 2013 (19.08.2013), entire text; all drawings & US 2013/0204421 A1 & CN 103247559 A & KR 10-2013-0090346 A & TW 201342515 A	1-19
A	JP 2011-181721 A (Yaskawa Electric Corp.), 15 September 2011 (15.09.2011), entire text; all drawings (Family: none)	1-19