

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2019/045883

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. H04N5/232 (2006.01) i, H04N5/235 (2006.01) i, H04N7/18 (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)

Int. Cl. H04N5/232, H04N5/235, H04N7/18

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

Published examined utility model applications of Japan 1922-1996
 Published unexamined utility model applications of Japan 1971-2019
 Registered utility model specifications of Japan 1996-2019
 Published registered utility model applications of Japan 1994-2019

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.
X	JP 2006-109001 A (TOSHIBA TELI CORP.) 20 April 2006, paragraphs [0009]-[0025], fig. 1 (Family: none)	1-4, 6, 8-14, 17-20
A		5, 7, 15, 16
A	JP 2018-137567 A (SONY SEMICONDUCTOR SOLUTIONS CORPORATION) 30 August 2018, entire text, all drawings & WO 2018/155258 A1, entire text, all drawings & CN 110301137 A	5, 7, 15, 16
A	JP 2012-120158 A (SONY CORP.) 21 June 2012, entire text, all drawings & US 2012/0120289 A1, entire text, all drawings & EP 2640055 A1 & CN 102469277 A	5, 7, 15, 16

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
13.12.2019

Date of mailing of the international search report
24.12.2019

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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.
A	JP 2013-162443 A (FUJI MACHINE MFG. CO., LTD.) 19 August 2013, entire text, all drawings & US 2014/0347466 A1, entire text, all drawings & EP 2814237 A1 & CN 104106258 A	5, 7, 15, 16
A	JP 2016-054477 A (CANON INC.) 14 April 2016, entire text, all drawings & US 2016/0065873 A1, entire text, all drawings	5, 7, 15, 16
A	JP 2012-034099 A (SANYO ELECTRIC CO., LTD.) 16 February 2012, entire text, all drawings (Family: none)	5, 7, 15, 16