

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2019/016373

A. CLASSIFICATION OF SUBJECT MATTER

H04L 12/28(2006.01)i, G08C 17/02(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)

H04L 12/28; G05B 11/01; G06F 3/03; G06K 9/00; G08C 17/02; G08C 23/04; H04M 1/725; H04N 7/18; H04Q 9/00

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: identification information(ID), orientation, registration, remote control

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 10-2017-0001434 A (LG ELECTRONICS INC.) 04 January 2017 See paragraphs [0013]-[0039], [0050]-[0052], [0118], [0200], [0201], [0372]; and claims 1-20.	1-15
Y	KR 10-1233783 B1 (KAONMEDIA CO., LTD.) 15 February 2013 See paragraphs [0009], [0010], [0044]-[0078]; and claims 1-8.	1-15
A	US 9582990 B2 (WISTRON CORPORATION) 28 February 2017 See column 4, line 55-column 5, line 21; claims 1-10; and figure 5.	1-15
A	KR 10-2018-0015844 A (SAMSUNG ELECTRONICS CO., LTD.) 14 February 2018 See paragraphs [0043]-[0048]; and claims 1-10.	1-15
A	KR 10-2014-0137080 A (HONEST TECHNOLOGY CO., LTD.) 02 December 2014 See paragraphs [0011]-[0020]; and claims 1-11.	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	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"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

20 APRIL 2020 (20.04.2020)

Date of mailing of the international search report

20 APRIL 2020 (20.04.2020)

Name and mailing address of the ISA/KR

 Korean Intellectual Property Office
 Government Complex Daejeon Building 4, 189, Cheongsu-ro, Seo-gu,
 Daejeon, 35208, 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/KR2019/016373

Patent document cited in search report	Publication date	Patent family member	Publication date
KR 10-2017-0001434 A	04/01/2017	None	
KR 10-1233783 B1	15/02/2013	None	
US 9582990 B2	28/02/2017	CN 104809856 A TW 201530351 A TW 1525474 B US 2015-0194051 A1	29/07/2015 01/08/2015 11/03/2016 09/07/2015
KR 10-2018-0015844 A	14/02/2018	CN 107688298 A EP 3279883 A1 US 10446020 B2 US 2018-0040239 A1 WO 2018-026120 A1	13/02/2018 07/02/2018 15/10/2019 08/02/2018 08/02/2018
KR 10-2014-0137080 A	02/12/2014	US 2015-0222862 A1 US 2016-0065828 A1 WO 2014-189186 A1	06/08/2015 03/03/2016 27/11/2014