

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2019/011510

A. CLASSIFICATION OF SUBJECT MATTER

G09F 9/30(2006.01)i, G06F 1/16(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)

G09F 9/30; G02F 1/1333; G06F 1/16; G06F 3/02; G06F 3/041; G09F 15/00; G09F 17/00

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: rollable display panel, drum, housing, arch shape, self-standing guide unit

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-2007-0006769 A (KONINKLIJKE PHILIPS ELECTRONICS N.V.) 11 January 2007 See paragraphs [0016]-[0020], [0024]; and figures 1, 3.	1-10
Y		11-15
Y	KR 10-2017-0136951 A (NO, Wan Dong) 12 December 2017 See paragraphs [0050]-[0053]; and figure 6.	11-12
Y	KR 10-2018-0048844 A (SHENZHEN ROYOLE TECHNOLOGIES CO., LTD.) 10 May 2018 See paragraphs [0022]-[0023]; claim 1; and figures 1-2.	13
Y	JP 2004-118794 A (BROTHER IND. LTD.) 15 April 2004 See abstract; claim 1; and figure 17.	14-15
A	US 2016-0163241 A1 (SAMSUNG DISPLAY CO., LTD.) 09 June 2016 See paragraphs [0039]-[0058]; and figures 1A-2B.	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

"E" earlier application or patent but published on or after the international filing date

"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)

"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

"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

"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

"&" document member of the same patent family


Date of the actual completion of the international search

13 FEBRUARY 2020 (13.02.2020)

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/KR2019/011510

Patent document cited in search report	Publication date	Patent family member	Publication date
KR 10-2007-0006769 A	11/01/2007	CN 1934520 A	21/03/2007
		EP 1728141 A1	06/12/2006
		JP 2007-529776 A	25/10/2007
		TW 200535493 A	01/11/2005
		US 2008-0013292 A1	17/01/2008
		WO 2005-091110 A1	29/09/2005
		None	
KR 10-2017-0136951 A	12/12/2017	None	
KR 10-2018-0048844 A	10/05/2018	CN 107209574 A	26/09/2017
		EP 3399390 A1	07/11/2018
		JP 2019-501453 A	17/01/2019
		US 2018-0210559 A1	26/07/2018
		WO 2017-113242 A1	06/07/2017
		None	
JP 2004-118794 A	15/04/2004	CN 1252559 C	19/04/2006
		CN 1493950 A	05/05/2004
		CN 1493950 C	19/04/2006
		CN 2674521 Y	26/01/2005
		JP 2004-118151 A	15/04/2004
		JP 2004-118792 A	15/04/2004
		TW 200426660 A	01/12/2004
		TW 1284268 B	21/07/2007
		US 2004-0061683 A1	01/04/2004
		US 7196692 B2	27/03/2007
		None	
		None	
US 2016-0163241 A1	09/06/2016	KR 10-2016-0069556 A	17/06/2016
		US 9747822 B2	29/08/2017