

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/097533

A. CLASSIFICATION OF SUBJECT MATTER		
H03K 19/0185(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)		
H03K; G09G		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
CNABS; DWPI; CNKI; SIPOABS: level, 分压, 耐受, shift+, conver+, 移位电路, 低, 转换电路, MOS, 移位, 电压, 高, bias, 预设, voltage, 电平		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2016049132 A1 (RENESAS ELECTRONICS CORP.) 18 February 2016 (2016-02-18) description, paragraphs [0036]-[0043], and figure 4	1-11
Y	CN 102957417 A (SAMSUNG ELECTRO-MECHANICS CO., LTD.) 06 March 2013 (2013-03-06) description, paragraphs [0043]-[0056], and figures 2A-2C	1-11
A	CN 101826864 A (ALI CORPORATION) 08 September 2010 (2010-09-08) entire document	1-11
A	TW 201145827 A (ORISE TECHNOLOGY CO., LTD.) 16 December 2011 (2011-12-16) entire document	1-11
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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		Date of mailing of the international search report
10 October 2018		31 October 2018
Name and mailing address of the ISA/CN		Authorized officer
State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088 China		
Facsimile No. (86-10)62019451		Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

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Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
US	2016049132	A1	18 February 2016	US	9136846	B2	15 September 2015
				JP	2013131964	A	04 July 2013
				US	2013162294	A1	27 June 2013
CN	102957417	A	06 March 2013	US	8823425	B2	02 September 2014
				CN	102957417	B	27 May 2015
				US	2013038356	A1	14 February 2013
				KR	101343186	B1	19 December 2013
				KR	20130016956	A	19 February 2013
CN	101826864	A	08 September 2010	None			
TW	201145827	A	16 December 2011	US	8742821	B2	03 June 2014
				TW	I410048	B	21 September 2013
				US	2011298519	A1	08 December 2011