

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/118776

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
H02J 7/00(2006.01)i		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols)		
H02J		
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)		
WPI, EPODOC, CNPAT, CNKI: 电压均衡, 电压平衡, 可变电阻, 滑动电阻, 调节, 调整, 栅源电压, 栅极, 源极, 基极, 发射极, voltage, balance, resistance, slid+, adjust+, grid, source, basal, emitter		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 102938574 A (XIE, Yaping) 20 February 2013 (2013-02-20) description, paragraphs [0010]-[0014], and figure 1	1-16, 18-19, 21-23
X	CN 201726162 U (BEIJING TIANLU ENERGY CO., LTD.) 26 January 2011 (2011-01-26) description, paragraphs [0024]-[0037], and figures 1-5	1-16, 18-19, 21-23
A	CN 103683358 A (RICOH CO., LTD.) 26 March 2014 (2014-03-26) entire document	1-23
A	CN 202463682 U (NINGBO JINGHUA ELECTRONICS TECHNOLOGY CO., LTD.) 03 October 2012 (2012-10-03) entire document	1-23
A	US 2011187325 A1 (LIN, Pochang et al.) 04 August 2011 (2011-08-04) entire document	1-23
<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
13 August 2019		28 August 2019
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)
CN 102938574 A	20 February 2013	None	
CN 201726162 U	26 January 2011	None	
CN 103683358 A	26 March 2014	None	
CN 202463682 U	03 October 2012	None	
US 2011187325 A1	04 August 2011	None	