

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/121800

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
H01M 2/26(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)		
H01M2/-		
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)		
USTXT; CNTXT; EPTXT; CNABS; WOTXT; VEN; CNKI: 电池, 孔, 电路板, 基板, 槽, 连接, 正极, 负极, battery, hole, pcb, substrate, slot, connect, anode, cathode		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CN 204011548 U (ZHEJIANG CHILWEE CHUANGYUAN INDUSTRIAL CO., LTD.) 10 December 2014 (2014-12-10) description, paragraphs [0006]-[0037], and figures 1-3	1-28
Y	CN 107634174 A (SUZHOU GCL SYSTEM INTEGRATION ENERGY STORAGE TECHNOLOGY CO., LTD. et al.) 26 January 2018 (2018-01-26) description, paragraphs [0007]-[0048], and figures 1-3	1-28
A	US 2008289172 A1 (NISSAN MOTOR CO., LTD.) 27 November 2008 (2008-11-27) entire document	1-28
<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
29 July 2019		03 September 2019
Name and mailing address of the ISA/CN		Authorized officer
<b>China National Intellectual Property Administration (ISA/CN)</b> <b>No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088</b> <b>China</b>		
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**INTERNATIONAL SEARCH REPORT**  
**Information on patent family members**

International application No.

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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 204011548 U	10 December 2014	None	
CN 107634174 A	26 January 2018	None	
US 2008289172 A1	27 November 2008	JP 4581326 B2	17 November 2010
		US 2004126655 A1	01 July 2004
		US 7867650 B2	11 January 2011
		JP 2004213971 A	29 July 2004
		EP 1439595 A3	18 October 2006
		EP 1439595 A2	21 July 2004
		US 7364816 B2	29 April 2008