

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2020/099281

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
B60L 58/10(2019.01)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)		
B60L		
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: 常电, 电池, 休眠, 定时, 唤醒, 高压, electric, battery, sleep, awake, timer, voltage		
<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 103522909 A (WUHAN INTEST ELECTRONIC TECHNOLOGY CO., LTD.) 22 January 2014 (2014-01-22) description paragraphs 29-45, figures 1-3	1-22
Y	CN 105978099 A (ZHEJIANG HOZON NEW ENERGY AUTOMOTIVE CO., LTD.) 28 September 2016 (2016-09-28) description, paragraphs 18-19, and figure 1	1-22
A	CN 106080239 A (BAIC BJEV CO., LTD.) 09 November 2016 (2016-11-09) entire document	1-22
A	CN 106347154 A (SHENZHEN OPTIMUMNANO ENERGY CO.,LTD.) 25 January 2017 (2017-01-25) entire document	1-22
A	CN 107985229 A (HYUNDAI MOTOR COMPANY) 04 May 2018 (2018-05-04) entire document	1-22
A	CN 109606118 A (XIAMEN KING LONG UNITED AUTOMOTIVE INDUSTRY COMPANY LTD.) 12 April 2019 (2019-04-12) entire document	1-22
<input checked="" 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
16 September 2020		28 September 2020
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>		
Facsimile No. (86-10)62019451		Telephone No.

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**PCT/CN2020/099281****C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2017361791 A1 (YOON, Jonghu et al.) 21 December 2017 (2017-12-21) entire document	1-22
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**INTERNATIONAL SEARCH REPORT**  
**Information on patent family members**

International application No.

**PCT/CN2020/099281**

Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
CN 103522909 A	22 January 2014	None	
CN 105978099 A	28 September 2016	None	
CN 106080239 A	09 November 2016	None	
CN 106347154 A	25 January 2017	None	
CN 107985229 A	04 May 2018	KR 20180045954 A US 2018115178 A1	08 May 2018 26 April 2018
CN 109606118 A	12 April 2019	None	
US 2017361791 A1	21 December 2017	DE 102016123131 A1 CN 107521441 A KR 20170142236 A	21 December 2017 29 December 2017 28 December 2017