

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/101786

A. CLASSIFICATION OF SUBJECT MATTER		
H02J 3/00(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)		
H02J3		
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; CNTXT; CNKI; VEN; IEEE: 广州航海学院, 船, 岸, 逆变器, 内环, 外环, 电压, 频率, 功率, 负荷, 转移, 离网, 并网, 无缝, 50hz, 60hz, ship, shore, inverter, inner, outer, v?f, p?q, transform+, smooth		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 107681657 A (GUANGZHOU MARITIME UNIVERSITY) 09 February 2018 (2018-02-09) claims 1-10	1-10
Y	肖乐明 (XIAO, Leming). "智能FCL岸控环流港船无缝供电研究 (Between the Port and Ship Intelligent FCL Shore-side Control Ring Current Realize Seamless Supply Research)" <i>武汉理工大学学报 (Journal of Wuhan University of Technology)</i> , Vol. 36, No. (10), 31 October 2014 (2014-10-31), ISSN: 1671-4431, pp. 75-78	1, 6
A	肖乐明 (XIAO, Leming). "智能FCL岸控环流港船无缝供电研究 (Between the Port and Ship Intelligent FCL Shore-side Control Ring Current Realize Seamless Supply Research)" <i>武汉理工大学学报 (Journal of Wuhan University of Technology)</i> , Vol. 36, No. (10), 31 October 2014 (2014-10-31), ISSN: 1671-4431, pp. 75-78	2-5, 7-10
Y	CN 103441532 A (BEIJING SIFANG AUTOMATION CO., LTD.) 11 December 2013 (2013-12-11) description, paragraphs [0023]-[0027]	1, 6
<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
13 September 2018		20 November 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		
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A	CN 103441532 A (BEIJING SIFANG AUTOMATION CO., LTD.) 11 December 2013 (2013-12-11) description, paragraphs [0023]-[0027]	2-5, 7-10
A	CN 105262142 A (ZHANGJIAGANG RONGYUAN ELECTRIC CO., LTD.) 20 January 2016 (2016-01-20) entire document	1-10

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 107681657 A	09 February 2018	None	
CN 103441532 A	11 December 2013	CN 103441532 B	01 July 2015
CN 105262142 A	20 January 2016	None	