

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/104991

A. CLASSIFICATION OF SUBJECT MATTER

H05K 7/20(2006.01)i; H05K 5/04(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)

H05K

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)

CNPAT; CNKI; WPI; EPODOC: 树形, 树型, 树状, 枝形, 枝状, 翅片, 鳍片, 散热片, 散热器, 散热板, 翅板, heat, radiator, fin+, tree, branch+, dendri+

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 107404830 A (GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI) 28 November 2017 (2017-11-28) entire document	1-28
PX	CN 107529322 A (GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI) 29 December 2017 (2017-12-29) entire document	1-28
PX	CN 107529323 A (GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI) 29 December 2017 (2017-12-29) entire document	1-28
PX	CN 107529324 A (GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI) 29 December 2017 (2017-12-29) entire document	1-28
PX	CN 207820414 U (GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI) 04 September 2018 (2018-09-04) entire document	1-28

 Further documents are listed in the continuation of Box C. 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

07 November 2018

Date of mailing of the international search report

29 November 2018

Name and mailing address of the ISA/CN

State Intellectual Property Office of the P. R. China
No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing
100088
China

Authorized officer

Facsimile No. (86-10)62019451

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/104991

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	CN 207802626 U (GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI) 31 August 2018 (2018-08-31) entire document	1-28
X	CN 107148195 A (GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI) 08 September 2017 (2017-09-08) description, paragraphs 6-50, and figure 1	1-28
X	CN 206207374 U (LUMLUX LIGHTING (SUZHOU) INC.) 31 May 2017 (2017-05-31) description, paragraphs 14-18, and figure 1	1-28
A	CN 201396725 Y (CHEN, JIANSHENG) 03 February 2010 (2010-02-03) entire document	1-28
A	JP 2000022363 A (MITSUBISHI HEAVY INDUSTRIES, LTD.) 21 January 2000 (2000-01-21) entire document	1-28

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2018/104991

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
CN	107404830	A	28 November 2017	None			
CN	107529322	A	29 December 2017	CN	207820412	U	04 September 2018
CN	107529323	A	29 December 2017	None			
CN	107529324	A	29 December 2017	CN	207820413	U	04 September 2018
CN	207820414	U	04 September 2018	None			
CN	207802626	U	31 August 2018	None			
CN	107148195	A	08 September 2017	None			
CN	206207374	U	31 May 2017	None			
CN	201396725	Y	03 February 2010	None			
JP	2000022363	A	21 January 2000	None			