

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CN2017/099107

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|---|--|-----------------------|
| <b>A. CLASSIFICATION OF SUBJECT MATTER</b><br><br>H01R 12/65 (2011.01) i; H01R 13/627 (2006.01) i; H01R 13/631 (2006.01) i; H01R 13/64 (2006.01) i<br>According to International Patent Classification (IPC) or to both national classification and IPC   |  |                       |
| <b>B. FIELDS SEARCHED</b><br><br>Minimum documentation searched (classification system followed by classification symbols)<br><br><p style="text-align: center;">H01R</p> Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched<br><br>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br>WPI, EPODOC, CNPAT, CNKI: 背板, 电路板, 连接器, 母, 公, 焊接, 端子, 焊脚, 锁, 扣, 弹性臂, 交错, 交替, plate, board, PCB, female, weld+, connect+, lock+, fastener?, elastic, arm, alternate |  |                       |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>   |  |                       |
| Category*   | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
| PX  | CN 106159494 A (FIBERHOME TELECOMMUNICATION TECHNOLOGIES CO., LTD.), 23 November 2016 (23.11.2016), description, paragraphs [0051]-[0065], and figures 1-16  | 1-17                  |
| Y   | CN 202840152 U (SHENZHEN SHINNING ELECTRONIC CO., LTD.), 27 March 2013 (27.03.2013), description, paragraphs [0023]-[0029], and figures 3-7  | 1-2, 6-17             |
| Y   | CN 205081323 U (TYCO ELECTRONICS (SHANGHAI) CO., LTD.), 09 March 2016 (09.03.2016), description, paragraphs [0024]-[0033], and figures 1-3   | 1-2, 6-17             |
| A   | CN 1291805 A (J.S.T. MFG. CO., LTD.), 18 April 2001 (18.04.2001), entire document  | 1-17                  |
| A   | CN 204992045 U (TYCO ELECTRONICS (SHANGHAI) CO., LTD.), 20 January 2016 (20.01.2016), entire document  | 1-17                  |
| A   | CN 203277881 U (DONGGUAN YIQIN ELECTRONIC CO., LTD.), 06 November 2013 (06.11.2013), entire document   | 1-17                  |
| <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:  | “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<br><br>“A” document defining the general state of the art which is not considered to be of particular relevance<br><br>“E” earlier application or patent but published on or after the international filing date<br><br>“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)<br><br>“O” document referring to an oral disclosure, use, exhibition or other means<br><br>“P” document published prior to the international filing date but later than the priority date claimed<br><br>“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<br><br>“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<br><br>“&” document member of the same patent family |                       |
| Date of the actual completion of the international search   | Date of mailing of the international search report   |                       |
| 15 November 2017  | 29 November 2017   |                       |
| Name and mailing address of the ISA<br>State Intellectual Property Office of the P. R. China<br>No. 6, Xitucheng Road, Jimenqiao<br>Haidian District, Beijing 100088, China<br>Facsimile No. (86-10) 62019451   | Authorized officer<br><br><p style="text-align: center;">ZHANG, Yue</p> Telephone No. (86-10) 010-61648116   |                       |

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

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| Patent Documents referred in the Report | Publication Date | Patent Family    | Publication Date |
|---|------------------|------------------|------------------|
| CN 106159494 A                          | 23 November 2016 | None             |                  |
| CN 202840152 U                          | 27 March 2013    | None             |                  |
| CN 205081323 U                          | 09 March 2016    | None             |                  |
| CN 1291805 A                            | 18 April 2001    | KR 20010021189 A | 15 March 2001    |
|   |                  | EP 1075046 A3    | 22 May 2002      |
|   |                  | CN 1150664 C     | 19 May 2004      |
|   |                  | DE 60036583 T2   | 03 July 2008     |
|   |                  | KR 100742599 B1  | 25 July 2007     |
|   |                  | EP 1075046 B1    | 03 October 2007  |
|   |                  | TW 480782 B      | 21 March 2002    |
|   |                  | DE 60036583 D1   | 15 November 2007 |
|   |                  | US 6315602 B1    | 13 November 2001 |
|   |                  | JP 2001052785 A  | 23 February 2001 |
|   |                  | EP 1075046 A2    | 07 February 2001 |
| CN 204992045 U                          | 20 January 2016  | EP 3128619 A1    | 08 February 2017 |
| CN 203277881 U                          | 06 November 2013 | None             |                  |