

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2020/099015

A. CLASSIFICATION OF SUBJECT MATTER		
H05K 3/00(2006.01)i; G01B 21/32(2006.01)i; G01L 1/22(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; G01B; G01L		
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) VEN; CNABS; CNTXT; CNKI: 印刷电路板, 印制电路板, pcb, bga, 应变, 测, 辅助, 标识, 定位, 贴, 粘, 刻蚀, 阻焊开窗, printed circuit board, strain, gauge, measur+, detect+, assisted, identification, position, locat+, paste, etch+, sculpture, welding		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CN 107835559 A (VIVO COMMUNICATION TECHNOLOGY CO., LTD.) 23 March 2018 (2018-03-23) description paragraphs 25-32, 44-52, figures 1, 8-11	1-10
Y	CN 107484359 A (THE 10TH RESEARCH INSTITUTE OF CHINA ELECTRONICS TECHNOLOGY GROUP CORPORATION) 15 December 2017 (2017-12-15) description, paragraphs 20-27, and figures 1 and 2	1-10
A	CN 103728066 A (AUTO INDUSTRIAL CO., LTD.) 16 April 2014 (2014-04-16) entire document	1-10
A	CN 109511232 A (SHENZHEN JIECHUANG ELECTRONIC TECHNOLOGY CO., LTD.) 22 March 2019 (2019-03-22) entire document	1-10
A	CN 106643636 A (GUANGDONG INSPUR BIG DATA RESEARCH CO., LTD.) 10 May 2017 (2017-05-10) entire document	1-10
A	CN 103528493 A (GU, Jie et al.) 22 January 2014 (2014-01-22) entire document	1-10
<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 16 September 2020		Date of mailing of the international search report 23 September 2020
Name and mailing address of the ISA/CN China National Intellectual Property Administration (ISA/CN) No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088 China Facsimile No. (86-10)62019451		Authorized officer Telephone No.

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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
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A	CN 101460818 A (CISCO TECHNOLOGY INC.) 17 June 2009 (2009-06-17) entire document	1-10
A	CN 109540355 A (PHYBLUE TECHNOLOGY (SHENZHEN) CO., LTD.) 29 March 2019 (2019-03-29) entire document	1-10
A	CN 201266074 Y (PEGATRON CORPORATION et al.) 01 July 2009 (2009-07-01) entire document	1-10
A	CN 105675413 A (FLEXTRONICS MANUFACTURING (ZHUHAI) CO., LTD.) 15 June 2016 (2016-06-15) entire document	1-10
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A	CN 107509303 A (SHANGHAI CHUANGGONG COMMUNICATION TECHNOLOGY CO., LTD.) 22 December 2017 (2017-12-22) entire document	1-10
A	CN 108760124 A (ZHENGZHOU YUNHAI INFORMATION TECHNOLOGY CO., LTD.) 06 November 2018 (2018-11-06) entire document	1-10
A	GB 2414116 B (SUN MICROSYSTEMS, INC.) 14 March 2007 (2007-03-14) entire document	1-10

INTERNATIONAL SEARCH REPORT
Information on patent family members

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CN 108760124 A	06 November 2018	None	
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