

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(10) 国际公布号
WO 2022/233131 A1

(43) 国际公布日
2022 年 11 月 10 日 (10.11.2022)

(51) 国际专利分类号:
H05K 7/20 (2006.01)

(21) 国际申请号: PCT/CN2021/135607

(22) 国际申请日: 2021 年 12 月 6 日 (06.12.2021)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202110495499.8 2021 年 5 月 7 日 (07.05.2021) CN

(71) 申请人: 苏州旭创科技有限公司 (INNOLIGHT TECHNOLOGY (SUZHOU) LTD.) [CN/CN]; 中国江苏省苏州市工业园区霞盛路 8 号三楼 / 朱书明, Jiangsu 215000 (CN)。

(72) 发明人: 张超 (ZHANG, Chao); 中国江苏省苏州市工业园区霞盛路 8 号研发 / 二楼, Jiangsu 215000 (CN)。

(81) 指定国 (除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW。

(84) 指定国 (除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT,

(54) Title: CONNECTION DEVICE

(54) 发明名称: 连接装置

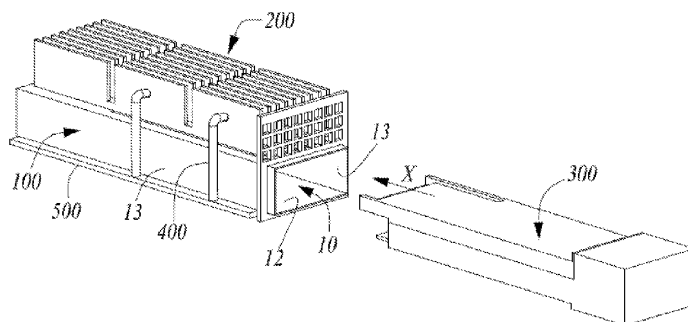


图 1

(57) Abstract: The present application discloses a connection device, comprising a housing and a heat dissipation block. The housing is provided with an accommodation cavity for insertion of a plug connector, and a heat dissipation window in communication with the accommodation cavity. The heat dissipation block is disposed on the side of the housing provided with the heat dissipation window. The connection device further comprises an adjustment assembly for adjusting the heat dissipation block so as to make the heat dissipation block close to or distant from the accommodation cavity. The heat dissipation block has a thermally conductive connection state in which the heat dissipation block approaches to abut against the plug connector after the plug connector is inserted in place. On the basis of the specific structure of the connection device in the present application, in an application scenario of plug-in connection between the plug connector and the connection device, the adjustment assembly may enable the heat dissipation block to abut against the plug connector only after the plug connector is inserted in place to form a thermally conductive connection relationship, and keep the heat dissipation block separated from the plug connector before the plug connector is inserted in place and during the process of pulling out the plug connector, thereby avoiding the problem in the prior art of damage caused by sliding friction in the processes of inserting the plug connector into and pulling the plug connector out of the connection device.

[见续页]

RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG)。

根据细则4.17的声明:

- 关于发明人身份(细则4.17(i))
- 关于申请人有权申请并被授予专利(细则4.17(ii))
- 发明人资格(细则4.17(iv))

本国际公布:

- 包括国际检索报告(条约第21条(3))。

(57) 摘要: 本申请揭示了一种连接装置, 其包括壳体及散热块, 所述壳体具有供一插接头插入的收容腔、与所述收容腔连通的散热窗口, 所述散热块设置于所述壳体上设有所述散热窗口的一侧, 所述连接装置还具有调节所述散热块以使所述散热块靠近或远离所述收容腔的调节组件; 所述散热块具有在所述插接头插入到位后靠近至抵接所述插接头的导热连接状态; 基于本申请连接装置的具体结构, 在插接头与连接装置的插拔连接应用场景中, 调节组件可以使得散热块仅在插接头插入到位后才与插接头抵接以形成导热连接关系, 而在插接头插入到位前及拔出的过程中保持散热块与插接头分离, 进而可避免现有技术中插接头在连接装置内插拔过程中因滑动摩擦引起的受损问题。