

(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

(43) 国际公布日
2025 年 6 月 5 日 (05.06.2025)



(10) 国际公布号
WO 2025/112909 A1

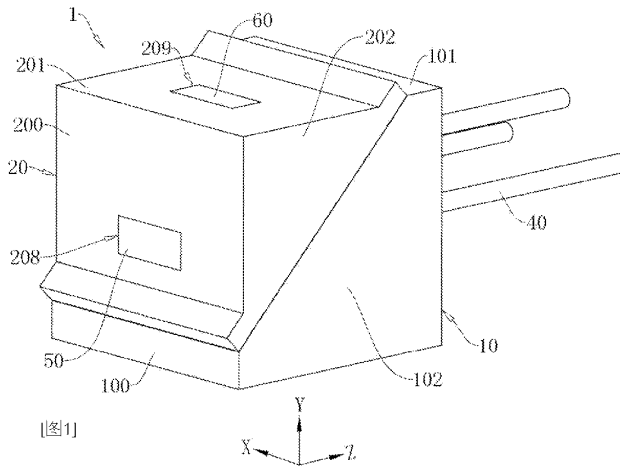
- (51) 国际专利分类号:
G02B 6/42 (2006.01) **H01S 5/022** (2021.01)
- (21) 国际申请号: PCT/CN2024/123359
- (22) 国际申请日: 2024 年 10 月 8 日 (08.10.2024)
- (25) 申请语言: 中文
- (26) 公布语言: 中文
- (30) 优先权:
202311589919.4 2023 年 11 月 27 日 (27.11.2023) CN
- (71) 申请人: 苏州旭创科技有限公司 (INNOLIGHT TECHNOLOGY (SUZHOU) LTD.) [CN/CN]; 中国江苏省苏州市工业园区霞盛路 8 号 215000 (CN)。
- (72) 发明人: 肖鹏 (XIAO, Peng); 中国江苏省苏州市工业园区霞盛路 8 号 215000 (CN)。魏尹 (WEI, Yin); 中国江苏省苏州市工业园区霞盛路 8 号 215000 (CN)。

(CN)。张德华 (ZHANG, Dehua); 中国江苏省苏州市工业园区霞盛路 8 号 215000 (CN)。王旻琦 (WANG, Minqi); 中国江苏省苏州市工业园区霞盛路 8 号 215000 (CN)。邓秀菱 (DENG, Xiuling); 中国江苏省苏州市工业园区霞盛路 8 号 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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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。

(54) Title: OPTICAL TRANSCEIVER

(54) 发明名称: 一种光收发器



(57) Abstract: An optical transceiver (1), comprising: a transistor base (10), the transistor base (10) comprising a first base portion (100) and a second base portion (101) which intersect and are connected to each other, as well as a first side portion (102) and a second side portion (103) which are spaced apart from each other in a first direction (X), and the first side portion (102) and the second side portion (103) being both connected to the first base portion (100) and the second base portion (101) and defining an accommodating cavity (104) having a first opening (105); a transistor cap (20), connected to the transistor base (10) and covering the first opening (105); a photoelectric chip (30), arranged in the accommodating cavity (104), the photoelectric chip (30) being arranged on the first base portion (100); and an electrical connector (40), passing through the second base portion (101) and extending into the accommodating cavity (104), one end of the electrical connector (40) passing through the accommodating cavity (104) and being electrically connected to the photoelectric chip (30), and the other end of the electrical connector being located outside the accommodating cavity (104).

[续页]

(84) 指定国(除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, MK, MT, NL, NO, PL, PT, 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: 一种光收发器(1), 其包括管座(10), 管座(10)包括相交且相互连接的第一基部(100)、第二基部(101)以及在第一方向(X)上间隔设置的第一侧部(102)和第二侧部(103), 第一侧部(102)和第二侧部(103)均连接第一基部(100)和第二基部(101)并围成具有第一开口(105)的容纳腔(104); 管帽(20), 与管座(10)连接, 且盖设于第一开口(105); 光电芯片(30), 设于容纳腔(104)内, 光电芯片(30)设置于第一基部(100)上; 电连接件(40), 穿过第二基部(101)并伸入容纳腔(104), 电连接件(40)的一端穿设于容纳腔(104)并电连接光电芯片(30), 另一端位于容纳腔(104)外。