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(54) Title: OPTICAL MODULE AND ASSEMBLY METHOD THEREFOR

(54) 发明名称: 光模块及其装配方法

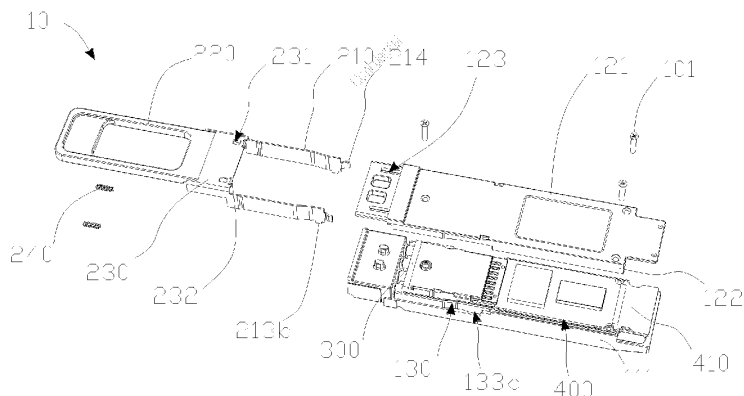


图 2

(57) Abstract: An optical module (10) and an assembly method therefor. The optical module (10) comprises a housing (100), a pull ring assembly (200), an optical assembly (300), and a circuit board assembly (400). Two opposite ends of the housing (100) form an optical interface (102) and an electrical interface (103). The housing (100) comprises a bottom wall and two side walls. A suspension arm accommodating groove (130) is formed on each side wall, and the suspension arm accommodating grooves (130) each comprise a groove bottom (131), an upper groove wall (132) and a lower groove wall (133). A travel limiting groove (133b) is formed on each lower groove wall (133). The pull ring assembly (200) comprises two suspension arms (210) and a suspension arm connecting part (230). The end part of each suspension arm (210) is provided with a handle (214) and a boss (213b). The bosses (213b) and the suspension arm connecting part (230) are obliquely arranged by using the suspension arms (210) as a reference. The suspension arms (210) are disposed in the suspension arm accommodating grooves (130). The bosses (213b) are disposed in the travel limiting grooves (133b), and the suspension arm connecting part (230) is disposed on an external surface of the bottom wall of the housing (100). When the pull

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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))

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ring assembly (200) moves, the suspension arms (210) are limited by the upper groove walls (132) and the lower groove walls (133) to move left and right along the connecting line direction of the optical interface (102) and the electric interface (103), and the travel limiting grooves (133b) and the bosses (213b) cooperate to limit the distance of the pull ring assembly (200) moving left and right. The upper groove walls (132), the lower groove walls (133) and the travel limiting grooves (133b) together restrict the suspension arms (210) from separating from the suspension arm accommodating grooves (130).

(57) 摘要: 一种光模块(10)及其装配方法, 光模块(10)包括壳体(100)、拉环组件(200)、光学组件(300)及电路板组件(400), 壳体(100)相对的两端形成光接口(102)和电接口(103), 其中: 壳体(100)包括底壁和两个侧壁, 侧壁上形成有悬臂容置槽(130), 悬臂容置槽(130)包括槽底(131)、上槽壁(132)和下槽壁(133), 下槽壁(133)上形成有行程限制槽(133b); 拉环组件(200)包括两个悬臂(210)和悬臂连接部(230), 悬臂(210)的端部设有拉手(214)和凸台(213b), 凸台(213b)与悬臂连接部(230)以悬臂(210)为基准斜对设置; 悬臂(210)设置于悬臂容置槽(130)中, 凸台(213b)设于行程限制槽(133b)中, 悬臂连接部(230)设于壳体(100)的底壁的外部表面上; 拉环组件(200)运动时, 悬臂(210)受上槽壁(132)和下槽壁(133)的限制而沿着光接口(102)和电接口(103)连线方向左右运动, 行程限制槽(133b)和凸台(213b)配合限制拉环组件(200)左右移动的距离, 上槽壁(132)、下槽壁(133)和行程限制槽(133b)共同限制悬臂(210)不会脱离悬臂容置槽(130)。