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- (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,

(54) Title: SMALL-SIZED HIGH-CURRENT ELECTRICAL CONNECTOR AND MATCHING CONNECTOR THEREOF

(54) 发明名称: 小体积大电流电连接器及其适配连接器

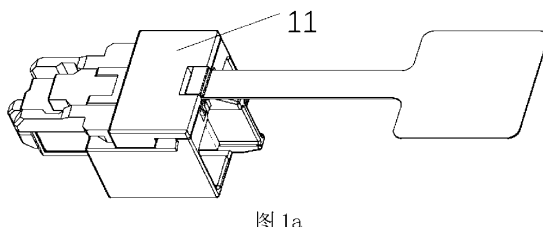


图 1a

(57) Abstract: A small-sized high-current electrical connector and a matching connector thereof. The small-sized high-current electrical connector comprises an insulator and contact elements inserted into the insulator, wherein a locking slot extending in an insertion direction of the connector is provided in the insulator, and is configured to be interlocked with a locking claw on a matching connector in a fitting manner; a sliding pressing plate which slides in the insertion direction is further provided on the insulator; and when the locking claw on the matching connector fits with the locking slot, the sliding pressing plate can slide to a locking position where the locking claw on the matching connector can be prevented from being disengaged from the locking slot. In the small-sized high-current electrical connector and the matching connector thereof, when a plug fits with a socket, a pull-ring locking structure is used, such that the reliability of wire-to-board usage scenarios is ensured, and the unlocking during the operation in a narrow space is facilitated. The small-sized high-current electrical connector and the matching connector thereof have the characteristics of small size, high current-carrying capacity and high space utilization rate, thereby facilitating the miniaturization development of servers.

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本国际公布:
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 小体积大电流电连接器及其适配连接器, 包括绝缘体、插装在绝缘体内的接触件, 绝缘体上设有沿连接器插接方向延伸的锁紧槽, 锁紧槽用于与适配连接器上锁紧爪配合锁紧, 绝缘体上还设有在插接方向上滑动的滑动压板, 当适配连接器上锁紧爪与锁紧槽配合时, 滑动压板能够滑动至防止适配连接器上锁紧爪脱出锁紧槽的锁紧位置。小体积大电流电连接器及其适配连接器, 插头插座配合时, 采用拉环锁紧结构, 即保证了线对板使用场景的可靠性, 又便于狭小空间作业下的解锁。小体积大电流电连接器及其适配连接器体积小, 通流大, 空间利用率高, 有利于服务器小型化发展。