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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,

(54) Title: POWER DISTRIBUTION DEVICE, BATTERY PACK AND VEHICLE

(54) 发明名称: 配电装置、电池包、和车辆

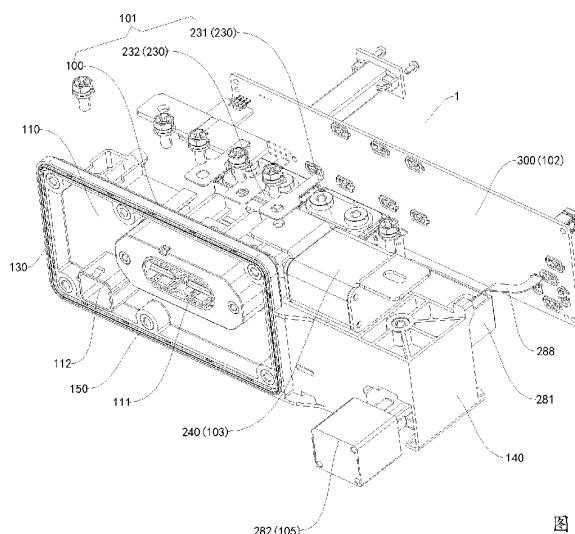


图 4

(57) Abstract: The present disclosure provides a power distribution device, a battery pack and a vehicle. The power distribution device comprises a base, the base being provided with an interface area, and a high-voltage connecting part and a low-voltage connecting part being fixed in the interface area; a high-voltage loop, at least one part of the high-voltage loop being assembled on the base, the high-voltage loop being in lap joint with the high-voltage connecting part to be electrically communicated, the high-voltage loop being provided with a battery cathode connecting end and a battery anode connecting end, components connected in the high-voltage loop being electrically communicated through lap joint, the high-voltage loop comprising a main breaking switch core body, and the main breaking switch core body being fixed to the base to jointly form a first module; a circuit board, the circuit board being mounted

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WO 2023/116298 A1

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on the base; and a low-voltage loop, the low-voltage loop being integrated on the circuit board to jointly form a second module, and the high-voltage loop and the low-voltage connecting part being respectively inserted into the circuit board and are electrically communicated with the low-voltage loop. The power distribution device of the embodiment of the present disclosure has the advantages of being simple and compact in structure, high in space utilization rate, small in size, low in weight, low in cost, high in universality and production efficiency, and the like.

(57) 摘要: 本公开提供了一种配电装置、电池包、和车辆。该配电装置包括: 基座, 基座构造有接口区, 接口区固定有高压连接部和低压连接部; 高压回路, 高压回路的至少一部分装配于基座, 高压回路与高压连接部搭接以电连通, 高压回路具有电池正极连接端和电池负极连接端, 高压回路中相连的元器件通过搭接而电连通, 高压回路包括主分断开关芯体, 主分断开关芯体固定于基座且共同形成第一模块; 电路板, 电路板安装于基座; 低压回路, 低压回路集成于电路板且共同形成第二模块, 高压回路和低压连接部分别插接于电路板且与低压回路电连通。本公开实施例的配电装置具有结构简单紧凑、空间利用率高、体积小、重量轻、成本低、通用性和生产效率高等优点。