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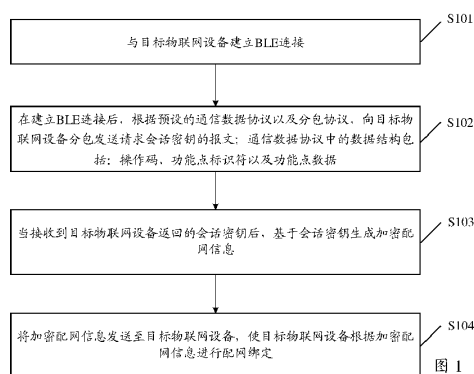
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(54) Title: NETWORK DISTRIBUTION METHOD AND APPARATUS FOR DUAL-MODE INTERNET-OF-THINGS DEVICE, AND STORAGE MEDIUM

(54) 发明名称: 一种双模物联网设备的配网方法、装置及存储介质



- S101 Establish a BLE connection with a target Internet-of-Things device
S102 After the BLE connection is established, and according to a preset communication data protocol and a sub-package protocol, send, to the target Internet-of-Things device in a sub-packaging mode, a message for requesting a session key, wherein a data structure in the communication data protocol comprises an operation code, a function point identifier and function point data
S103 After the session key which is returned by the target Internet-of-Things device is received, generate encrypted network distribution information on the basis of the session key
S104 Send the encrypted network distribution information to the target Internet-of-Things device, such that the target Internet-of-Things device performs network distribution binding according to the encrypted network distribution information

(57) Abstract: Provided in the present application are a network distribution method and apparatus for a dual-mode Internet-of-Things device, and a storage medium. The network distribution method, which is applied to an application end, comprises: establishing a BLE connection with a target Internet-of-Things device; after the BLE connection is established, and according to a preset communication data protocol and a sub-package protocol, sending, to the target Internet-of-Things device in a sub-packaging mode, a message for requesting a session key; after the session key which is returned by the target Internet-of-Things device is received, generating encrypted network distribution information on the basis of the session key; and sending the encrypted network distribution information to the target Internet-of-Things device, such that the target Internet-of-Things device performs network distribution binding according to the encrypted network distribution information. By means of performing point-to-point connection sending on network distribution information by using a BLE connection, the network distribution method has the advantages of high transmission efficiency, a short network distribution time, a high network distribution success rate, etc.; and data compiling is performed on the basis of a data communication protocol of an application layer, the bottom layer capability of a chip is no longer bound, and

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WO 2023/197610 A1

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sub-packaging is performed on the basis of a data type and is no longer directed at a specific function corresponding to data, such that the network distribution method has universal applicability.

(57) 摘要: 本申请提供了一种双模物联网设备的配网方法、装置及存储介质, 其中应用于APP端的配网方法, 包括: 与目标物联网设备建立BLE连接; 在建立BLE连接后, 根据预设的通信数据协议以及分包协议, 向目标物联网设备分包发送请求会话密钥的报文; 当接收到目标物联网设备返回的会话密钥后, 基于会话密钥生成加密配网信息; 将加密配网信息发送至目标物联网设备, 使目标物联网设备根据加密配网信息进行配网绑定。通过将配网信息利用BLE连接进行点对点连接发送, 具有传输高效、配网时间短, 配网成功率高等优点; 基于应用层的数据通信协议进行数据编译, 不再绑定芯片底层能力, 且基于数据类型进行分包, 不再针对数据对应的具体功能, 使得该配网方法具有普遍适用性。