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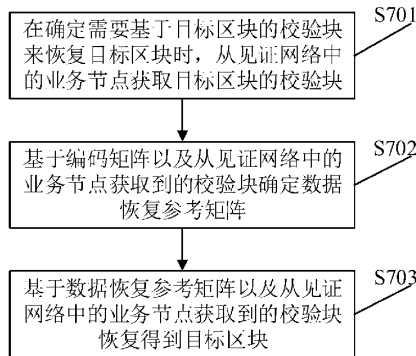
(71) 申请人: 腾讯科技(深圳)有限公司 (TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED) [CN/CN]; 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。

(72) 发明人: 刘汉卿 (LIU, Hanqing); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。

35 层, Guangdong 518057 (CN)。王宗友 (WANG, Zongyou); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。蓝虎 (LAN, Hu); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。朱耿良 (ZHU, Gengliang); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。时一防 (SHI, Yifang); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。廖志勇 (LIAO, Zhiyong); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。张劲松 (ZHANG, Jinsong); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。刘区城 (LIU, Qucheng); 中国广东省深圳市南山区高新区科技中一路腾讯大厦 35 层, Guangdong 518057 (CN)。郭英杰 (GUO, Yingjie);

(54) Title: DATA PROCESSING METHOD BASED ON BLOCK CHAIN NETWORK AND RELATED PRODUCT

(54) 发明名称: 基于区块链网络的数据处理方法及相关产品



S701 When it is determined that a target block needs to be recovered on the basis of a check block of the target block, acquire the check block of the target block from a service node in a witness network

S702 Determine a data recovery reference matrix on the basis of a coding matrix and the check block acquired from the service node in the witness network

S703 On the basis of the data recovery reference matrix and the check block acquired from the service node in the witness network, perform recovery to obtain the target block

图 7

(57) Abstract: Embodiments of the present application provide a data processing method based on a block chain network and a related product. The method comprises: when it is determined that a target block needs to be recovered on the basis of a check block of the target block, acquiring the check block of the target block from a service node in a witness network, the check block of the target block stored in the service node being acquired by the service node when related block data of the target block is synchronized from a consensus node in a consensus network, and the check block being used for recovering the target block; determining a data recovery reference matrix on the basis of a coding matrix and the check block acquired from the service node in the witness network; and on the basis of the data recovery reference matrix and the check block acquired from the service node in the witness network, performing recovery to obtain the target block. By means of the embodiments of the present application, the block may be successfully recovered, and the availability of the recovered block may be effectively ensured.

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中国广东省深圳市南山区高新区科技中一路
腾讯大厦35层, Guangdong 518057 (CN)。

(74) 代理人: 北京德琦知识产权代理有限公司 (DEQI INTELLECTUAL PROPERTY LAW CORPORATION); 中国北京市海淀区知春路1号
学院国际大厦7层, Beijing 100083 (CN)。

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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: 本申请实施例提供了基于区块链网络的数据处理方法及相关产品, 其中方法包括: 在确定需要
基于目标区块的校验块来恢复目标区块时, 从见证网络中的业务节点获取目标区块的校验块; 业务节点
存储的目标区块的校验块, 是业务节点在从共识网络中的共识节点同步目标区块的相关区块数据时获取
得到, 该校验块用于恢复目标区块; 基于编码矩阵以及从见证网络中的业务节点获取到的校验块确定数
据恢复参考矩阵; 基于数据恢复参考矩阵以及从见证网络中的业务节点获取到的校验块恢复得到目标区
块。通过本申请实施例可以成功恢复出区块, 并且可以有效保证恢复出的区块的可用性。