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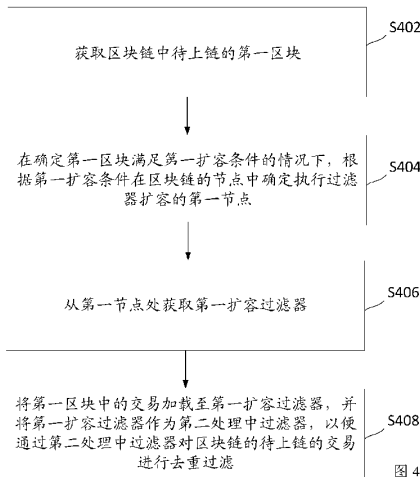
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(54) Title: TRANSACTION PROCESSING METHOD AND APPARATUS, DEVICE, STORAGE MEDIUM, AND PROGRAM PRODUCT

(54) 发明名称: 交易处理方法、装置、设备、存储介质和程序产品



(57) Abstract: The present disclosure relates to the technical field of computers, and provides a transaction processing method and apparatus, an electronic device, and a computer-readable storage medium. The transaction processing method is executed by an execution node on a blockchain, and the transaction processing method comprises: obtaining a first block to be added to the blockchain; when it is determined that the first block meets a first capacity expansion condition, according to the first capacity expansion condition, determining, in nodes of the blockchain, a first node for executing filter capacity expansion; obtaining a first capacity-expanded filter from the first node, wherein the capacity of the first capacity-expanded filter is greater than the capacity of a first in-process filter in the execution node, and the first capacity-expanded filter is generated by the first node according to transactions having been added to the blockchain; loading a transaction in the first block to the first capacity-expanded filter, and using the first capacity-expanded filter as a second in-process filter, so as to perform, by means of the capacity-expanded second in-process filter, deduplication filtering on transactions to be added to the blockchain.

S402 Obtain a first block to be added to a blockchain
S404 When it is determined that the first block meets a first capacity expansion condition, according to the first capacity expansion condition, determine, in nodes of the blockchain, a first node for executing filter capacity expansion
S406 Obtain a first capacity-expanded filter from the first node
S408 Load a transaction in the first block to the first capacity-expanded filter, and use the first capacity-expanded filter as a second in-process filter, so as to perform, by means of the second in-process filter, deduplication filtering on transactions to be added to the blockchain

图4

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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: 本公开提供一种交易处理方法、装置以及电子设备和计算机可读存储介质, 涉及计算机技术领域。该交易处理方法由区块链上的执行节点执行, 交易处理方法包括: 获取待上链的第一区块; 在确定第一区块满足第一扩容条件的情况下, 根据第一扩容条件在区块链的节点中确定执行过滤器扩容的第一节点; 从第一节点处获取第一扩容过滤器, 第一扩容过滤器的容量大于执行节点中的第一处理中过滤器的容量, 第一扩容过滤器是第一节点根据区块链中已上链的交易生成的; 将第一区块中的交易加载至第一扩容过滤器, 并将第一扩容过滤器作为第二处理中过滤器, 以便通过扩容后第二处理中过滤器对区块链的待上链的交易进行去重过滤。