

【CLAIMS】

【Claim 1】

A parallel blockchain-based information management and operation system in which a control module stores predetermined information in a block, connects the block to generate a blockchain, and distributes and stores the blockchain in a plurality of nodes participating in a network,

wherein the block is classified into a node block and a history block,

wherein the node block stores information comprising a prior hash value, a public key, generation information, and an identification code,

wherein the history block stores information comprising the prior hash value, information about a specific node block, and a history address, and

wherein the node blocks are sequentially connected in the generation order to form a main chain, and the history blocks are connected to a separate sub chain connected from the related specific node block in the generating order,

wherein the node network is classified into two or more super nodes having the block generation authority and a normal node having no block generation authority,

wherein one of the super node, receives a generation request signal of specific history block transmitted by specific normal node, transmits a generation signal of

specific history block to the control module, and connected to the sub chain of the node block related to the specific history block after generating the specific history block by the control module,

wherein an activation of the specific history block is determined by a predetermined setting criterion of the plurality of super nodes.

【Claim 2】

The parallel blockchain-based information management and operation system of claim 1,

wherein the information stored in the node block further comprises: corresponding node user information.

【Claim 3】

The parallel blockchain-based information management and operation system of claim 2,

wherein the information about the specific node stored in the history block comprises: information of approval request matters about the specific node block within the system.

【Claim 4】

The parallel blockchain-based information management and operation system of claim 1,

wherein the system propagates the block generated by the super node through the control module to all nodes participating in the network by a broadcast communication

module.

【Claim 5】

The parallel blockchain-based information management and operation system of claim 1,

wherein the system propagates the generation request signal of the history block transmitted by the normal node to the plurality of the super nodes by a query communication module.

【Claim 6】

The parallel blockchain-based information management and operation system of claim 1,

wherein the control module connects an approval history block generated by the super node approving the activation of the specific history block to the sub chain to which the specific history block is connected.

【Claim 7】

The parallel blockchain-based information management and operation system of claim 1,

wherein the control module activates the generated history block, if the sum of the operation stakes held by the super nodes generating the approval history block satisfies a predetermined criterion.

【Claim 8】

The parallel blockchain-based information management and operation system of claim 7,

wherein the criterion is that the sum of the operation stakes held by the super nodes generating the approval history block exceeds 50% of all of operation stakes.

【Claim 9】

The parallel blockchain-based information management and operation system of claim 7,

wherein if the history block relates to a transaction of a currency used in the system, the control module automatically generates the approval history block from all super nodes and then connects the approval history block to the sub chain to activate the history block about the transaction.

【Claim 10】

The parallel blockchain-based information management and operation system of claim 7 or claim 9,

wherein a cancellation request history block for deactivating the activated history block is generated by one super node, and if the sum of the operation stakes of the super nodes approving the cancellation to generate a cancellation approval history block satisfies the predetermined setting criterion, the control module deactivates the activated history block.

【Claim 11】

The parallel blockchain-based information management and operation system of claim 6,

wherein a hash value of the blockchain stored in each super node is frequently shared between the super nodes through a super broadcast communication module, and the control module determines that the blockchain stored in one super node is changed, if the hash value of the blockchain stored in the one super node is not equal to the hash value of the blockchain equally stored in two or more super nodes at which the sum of the operation stakes exceeds 50%.

【Claim 12】

The parallel blockchain-based information management and operation system of claim 10,

wherein the block of the system is the currency available in the system and comprises: a token block storing information of a token to which predetermined authority is exclusively granted to at least one token operation node, and information comprising a prior hash value and an identification code, the token block is connected to the main chain, and the authority exclusively granted to the token operation node is the history generation request about token operation matters comprising a change in a transaction fee of the token, the transaction restriction of the token or the transaction of the token operation stake for a specific node.

【Claim 13】

The parallel blockchain-based information management

and operation system of claim 12,

wherein the token operation node holds a token operation stake capable of participating in determining the token operation matters, and the control module activates the history block about the token operation matters, if the sum of the token operation stakes held by the token operation nodes requesting the generation of an approval history block with respect to the activation of the history block about the token operation matters satisfies the predetermined setting criterion.