What is claimed is:

1. A blockchain consensus method performed by a target consensus backup node of a blockchain, comprising:

receiving, from a consensus master node of the blockchain, a pre-prepare message in a pre-prepare stage of a consensus proposal for at least one pending-consensus transaction in a transaction pool of the consensus master node, wherein the pre-prepare mesage carries a transaction hash list, and the transaction hash list comprises a transaction hash of the at least one pending-consensus transaction;

matching and selecting, from a transaction pool of the target consensus backup node, the at least one pending-consensus transaction corresponding to the transaction hash list, wherein all consensus nodes of the blockchain have the same transaction hash calculation logic; and

obtaining, from the transaction pool of the target consensus backup node, transaction information of the matched at least one pending-consensus transaction, thereby executing a process flow of the consensus proposal based on the transaction information,

characterized in that the method further comprises:

after adding, by the target consensus backup node, a new transaction to the transaction pool of the target consensus backup node, calculating a transaction hash of the new transaction based on the transaction hash calculation logic, and storing a mapping relationship between the new transaction and a corresponding transaction hash thereof; and

the step of matching and selecting the at least one pending-consensus transaction corresponding to the transaction hash list comprises:

matching and selecting, from the transaction pool of the target consensus backup node, the at least one pending-consensus transaction corresponding to the transaction hash list based on the pre-stored mapping relationship.

2. The method according to claim 1, wherein before executing a processing logic of the consensus proposal based on the transaction information, the method further comprises:

if the target consensus backup node fails to match and select, from the transaction pool of the target consensus backup node, the target pending-consensus transaction corresponding to the transaction hash list, waiting until the transaction pool of the target consensus backup node is updated based on a preset delay strategy, and rematching and reselecting again, from the transaction pool of the target consensus backup node, the target pending-consensus

transaction corresponding to the transaction hash list.

3. The method according to claim 2, wherein before the step of executing a consensus logic for the pending-consensus transaction based on the transaction information, the method further comprises:

if the target consensus backup node still fails to match and select, from the transaction pool of the target consensus backup node, the target pending-consensus transaction corresponding to the transaction hash list based on the delay strategy, sending to the consensus master node a transaction synchronization request message, wherein the transaction synchronization request message carries a transaction hash of the target pending-consensus transaction not matched and selected from the transaction pool of the target consensus backup node;

receiving, by the target consensus backup node, a transaction synchronization response message fed back by the consensus master node, wherein the transaction synchronization response message carries transaction information of the target pending-consensus transaction provided by the consensus master node;

performing, by the target consensus backup node, a validity check on the target pending-consensus transaction based on the transaction information of the target pending-consensus transaction in the transaction synchronization response message, and after the validity check is performed and successful, adding the transaction information of the target pending-consensus transaction to the transaction pool of the target consensus backup node; and

matching and selecting, by the consensus backup node of the blockchain from the transaction pool of the target consensus backup node, the target pending-consensus transaction corresponding to the transaction hash list.

4. The method according to claim 2,

wherein the delay strategy comprises: a rematch count and a rematch time interval.

5. The method according to claim 2, further comprising:

marking, by the target consensus backup node, a transaction hash of a matched and selected pending-consensus transaction in the transaction hash list, wherein the target consensus backup node only matches and selects, from the transaction pool of the target consensus backup node, a pending-consensus transaction corresponding to an unmarked transaction hash in the transaction hash list.

6. The method according to any one of claims 1-5,

wherein the consensus proposal reaches a consensus based on the Practical Byzantine Fault Tolerance algorithm.

7. A blockchain target consensus device, comprising:

a consensus initiation module, configured to receive, from a consensus master node of a blockchain, a pre-prepare message in a pre-prepare stage of a consensus proposal for at least one pending-consensus transaction in a transaction pool of the consensus master node, wherein the pre-prepare message carries a transaction hash list, and the transaction hash list comprises a transaction hash of the at least one pending-consensus transaction;

a transaction matching module, configured to match and select, based on a target consensus backup node of the block, the at least one pending-consensus transaction corresponding to the transaction hash list from a transaction pool of the target consensus backup node, wherein all consensus nodes of the blockchain have the same transaction hash calculation logic; and

a consensus execution module, configured to obtain, based on the target consensus backup node, transaction information of the matched at least one pending-consensus transaction from the transaction pool of the target consensus backup node, thereby executing a process flow of the consensus proposal based on the transaction information,

characterized in that, once a new transaction is added to the transaction pool of the target consensus backup device, the transaction matching module is further configured to:

calculate a transaction hash of the new transaction based on the transaction hash calculation logic, and store a mapping relationship between the new transaction and a corresponding transaction hash thereof; and

match and select, from the transaction pool of the target consensus backup device, the at least one pending-consensus transaction corresponding to the transaction hash list based on the pre-stored mapping relationship.

8. A blockchain-based system comprising:

a blockchain target consensus device according to claim 7; and

a consensus master device configured to initiate a consensus proposal for at least one pending-consensus transaction in a transaction pool of the consensus master device.

9. A computer-readable storage medium having a computer program stored thereon, wherein the computer program is executed by a processor to implement the method according to any one of claims 1 to 6.