

BLOCKCHAIN-BASED TRANSACTION PROCESSING METHODS AND APPARATUSES AND ELECTRONIC DEVICES

ABSTRACT

5 A blockchain-based transaction processing method includes: obtaining, by a
client device, an available Nonce record for a target transaction initiated by a user
through a user account from a Nonce list that corresponds to the user account and is
maintained in a blockchain, where the Nonce list includes a plurality of Nonce records,
and the Nonce record includes a version identifier of the Nonce list and a Nonce value;
10 adding, by the client device, the obtained available Nonce record to the target
transaction; and publishing the target transaction in the blockchain, so that a node
device in the blockchain determines whether a version identifier in the Nonce record
matches the version identifier of the Nonce list that corresponds to the user account
and is maintained in the blockchain, and if no, returns prompt information indicating
15 that the target transaction is an invalid transaction to the client device, or if yes,
further matches the available Nonce record with the Nonce record in the Nonce list to
perform replay attack detection for the target transaction, and processes the target
transaction when the replay attack detection for the target transaction succeeds.

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FIG. 2