Claims

1. A computer-implemented method for blockchain-based recordkeeping, comprising:

obtaining, by a self-service vending terminal, identification information of a target buyer;

generating, by the self-service vending terminal, first record information, wherein generating the first record information comprises encrypting the obtained identification information of the target buyer;

capturing, by the self-service vending terminal, live video and/or audio data associated with the target buyer;

generating, by the self-service vending terminal, second record information, wherein generating the second record information comprises compressing the live video and/or audio data associated with the target buyer;

sending, by the self-service vending terminal, the generated second record information;

generating, by the self-service vending terminal, third record information based on transaction payment information of the target buyer;

generating, by the self-service vending terminal, a hash digest from the first record information, the second record information and the third record information;

generating, by the self-service vending terminal, a target transaction including the hash digest; and

recording, by the self-service vending terminal, the target transaction in a blockchain, wherein the recording comprises:

adding the target transaction to a candidate block; and

broadcasting the candidate block to a plurality of blockchain nodes of the blockchain.

2. The method according to claim 1, wherein the live video and/or audio data comprises an entire process of a purchase conducted by the target buyer.

3. The method according to claim 1, wherein the blockchain is a consortium blockchain, and the method is implementable by a self-service vending terminal which is a consortium member node of the consortium blockchain.

4. The method according to any preceding claim, wherein the identification information of the target buyer comprises biometric recognition information of the target buyer or real-name information of the target buyer.

5. The method according to any preceding claim, wherein the live video and/or audio

data records a purchase process conducted by the target buyer.

6. The method according to any preceding claim, wherein the target transaction comprises plaintext of the first record information and plaintext of the second record information.

7. The method according to any preceding claim, wherein the target transaction comprises ciphertext of the first record information and ciphertext of the second record information.

8. The method according to any preceding claim, wherein the target transaction comprises a first hash digest of the first record information and a second hash digest of the second record information.

9. A system for blockchain-based recordkeeping, comprising:
one or more processors; and
one or more computer-readable memories coupled to the one or more processors and having instructions stored thereon that are executable by the one or more processors to perform the method of any of claims 1 to 8.

10. An apparatus for blockchain-based recordkeeping, comprising a plurality of modules for performing the method of any of claims 1 to 8.

11. A non-transitory computer-readable storage medium configured with instructions executable by one or more processors to cause the one or more processors to perform the method of any of claims 1 to 8.