

CLAIMS

~~What is claimed is:~~

1. A blockchain-based data processing method, comprising:

calculating (S10) a submission time based on a base time and a submission time interval;

5 ~~generating false transaction information when the submission time arrives;~~

~~performing privacy protection processing on transaction content in the false transaction information; and~~

~~submitting the false transaction information to a blockchain.~~

10 ~~2. The method according to claim 1~~, wherein the base time comprises at least one of the following:

a latest time of submitting ~~the~~ false transaction information to ~~the~~ blockchain;

or

a latest time of submitting actual transaction information to ~~a~~the blockchain;

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~~3. The method according to claim 1, wherein generating the false transaction information comprises:~~

~~generating~~generating (S12) the false transaction information when no actual transaction information to be submitted exists; when the submission time arrives, wherein transaction

20 content in the false transaction information comprises at least one of the following:

a transaction amount with a value of zero; or

blank storage information;

performing (S14) privacy protection processing on the transaction content in the false transaction information by using a cryptographic algorithm; and

25 submitting (S16) the false transaction information to the blockchain.

2.

~~4.~~ The method according to claim 1, further comprising:

obtaining ~~the~~ actual transaction information;

performing privacy protection processing on transaction content in the actual transaction information; and

submitting the actual transaction information to the blockchain.

- 5 ~~5.3.~~ The method according to claim 1, wherein the submission time interval satisfies exponential distribution or Erlang distribution.

~~6. The method according to claim 1, wherein the transaction content in the false transaction information comprises at least one of the following:~~

- 10 ~~a transaction amount with a value of zero; or~~
~~blank storage information.~~

~~7.4.~~ The method according to claim 1, wherein generating the false transaction information comprises:

- 15 obtaining an account identifier as a receiver's account identifier in the false transaction information.

~~8.5.~~ The method according to claim ~~74~~, further comprising:

- 20 providing an account identifier set, wherein the account identifier set comprises at least one receiver's account identifier, wherein each receiver's account identifier corresponds to a baseline transaction ratio, and wherein obtaining the account identifier comprises:

obtaining an actual transaction ratio between an initiator's account identifier and each receiver's account identifier in the account identifier set; and

- 25 selecting, from the account identifier set, a receiver's account identifier whose actual transaction ratio is less than or equal to the baseline transaction ratio as the receiver's account identifier in the false transaction information.

- ~~9. A blockchain-based data processing apparatus;~~
30 ~~6. One or more computer readable storage media~~ comprising:

~~a calculating unit, configured to calculate a submission time based on a base time and a submission time interval;~~

~~a generation unit, configured to generate false transaction information computer instructions stored thereon which, when executed by a server, cause the submission time arrives;~~

5 ~~an encryption unit, configured to perform privacy protection processing on transaction content in server to carry out the false transaction information; and~~

~~a submission unit, configured to submit method of any of the false transaction information to a blockchain preceding claims.~~

~~10.7.~~ A server, comprising:

10 a memory, configured to store a computer instruction, and a processor, configured to execute the computer instruction to implement the ~~following steps:~~ method according to any of claims 1 to 5.

~~calculating a submission time based on a base time and a submission time interval;~~

15 ~~generating false transaction information when the submission time arrives;~~

~~performing privacy protection processing on transaction content in the false transaction information; and~~

~~submitting the false transaction information to a blockchain.~~

20 ~~11. A blockchain-based data processing method, comprising:~~

~~calculating a submission time based on a base time and a submission time interval;~~

~~generating false transaction information when no actual transaction information to be submitted exists when the submission time arrives; performing privacy protection processing on transaction content in the false transaction information; and submitting the~~

25 ~~false transaction information to a blockchain; or~~

~~performing privacy protection processing on transaction content in actual transaction information to be submitted when the actual transaction information exists; and submitting the actual transaction information to a blockchain.~~

~~12. A blockchain-based data processing apparatus, comprising:~~

~~a calculating unit, configured to calculate a submission time based on a base time and a submission time interval;~~

5 ~~a first submission unit, configured to generate false transaction information when no actual transaction information to be submitted exists when the submission time arrives; perform privacy protection processing on transaction content in the false transaction information; and submit the false transaction information to a blockchain; or~~

10 ~~a second submission unit, configured to: perform privacy protection processing on transaction content in actual transaction information to be submitted when the actual transaction information exists; and submit the actual transaction information to a blockchain.~~

~~13. A server, comprising:~~

15 ~~a memory, configured to store a computer instruction; and~~

~~a processor, configured to execute the computer instruction to implement the following steps: calculating a submission time based on a base time and a submission time interval;~~

20 ~~generating false transaction information when no actual transaction information to be submitted exists when the submission time arrives; performing privacy protection processing on transaction content in the false transaction information; and submitting the false transaction information to a blockchain; or~~

25 ~~performing privacy protection processing on transaction content in actual transaction information to be submitted when the actual transaction information exists; and submitting the actual transaction information to a blockchain.~~