

CLAIMS:

1. A computer-implemented method for generating digital marks, comprising:
obtaining entity information of an entity;
transmitting the entity information to one or more nodes of a blockchain for storage in the blockchain;
obtaining a transaction identification associated with storing the entity information in the blockchain; and
generating a digital mark for the entity based at least on the transaction identification.
2. The method of claim 1, further comprising:
generating a digital abstract of a digital certificate associated with the entity;
transmitting the digital abstract of the digital certificate to the one or more nodes of the blockchain for storage in the blockchain;
obtaining another transaction identification associated with storing the digital abstract of the digital certificate to the blockchain; and
associating the digital mark with the another transaction identification.
3. The method of claim 1, further comprising:
generating a digital abstract of a digital certificate associated with the entity;
and
associating the digital mark with the digital abstract.
4. The method of claim 1, further comprising:
associating the digital mark with a digital certificate associated with the entity.
5. The method of claim 2, wherein:
the association of the digital mark with the another transaction identification shows endorsement by the entity.
6. The method of claim 2 or 5, further comprising:

transmitting an association relationship of the association of the digital mark with the another transaction identification to the one or more nodes for storage in the blockchain.

7. The method of any preceding claim, wherein:
the digital mark comprises a digital seal.

8. The method of any preceding claim, wherein:
the digital mark comprises a digital signature.

9. The method of any preceding claim, wherein:
the entity is a corporation; and
the entity information comprises corporation registration information certified by an official agency.

10. The method of any preceding claim, further comprising:
transmitting an association relationship between the entity and the digital mark to the one or more nodes for storage in the blockchain.

11. The method of any preceding claim, wherein transmitting the entity information to the one or more nodes of the blockchain for storage in the blockchain comprises:
writing at least the entity information into a blockchain contract; and
causing the one or more nodes to initiate a blockchain transaction to deploy the blockchain contract.

12. The method of claim 11, wherein:
the transaction identification comprises a hash value of the blockchain transaction.

13. The method of any of the claims 11-12, wherein:
the digital mark comprises a hash value of the blockchain transaction.

14. A digital mark generation system, 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 13.

15. A digital mark generation apparatus comprising a plurality of modules for performing the method of any of claims 1 to 13.