

PREVENTING A TRANSMISSION OF AN INCORRECT COPY OF A RECORD OF DATA TO A DISTRIBUTED LEDGER SYSTEM

BACKGROUND

[0001] A blockchain can be a database that can be used to ensure an authenticity of a record of data. The blockchain can be organized as a sequence of blocks. A block can be added to the blockchain after a discrete duration of time has elapsed since a previous block was added to the blockchain. A block can include one or more records of data received by an electronic ledger system within the discrete duration of time since the previous block was added to the blockchain. A current block can include a hash of the previous block, a timestamp, and the one or more records of data that are a subject of the current block. The hash of the previous block can be a cryptographic hash. Another hash can represent the one or more records of data that are the subject of the current block. The other hash can be, for example, a merkle tree root hash. Because a subsequent block can include a hash of the current block, etc., an alteration of a record of data included in the blockchain can be determined by reference to hashes included in subsequent blocks.

SUMMARY

[0001a] According to a first aspect of the present disclosure, there is provided a method for preventing a transmission of an incorrect copy of a record of data to a distributed ledger system, the method comprising:

- receiving, by a processor, a first file, the first file including a first information, wherein the first information:
 - is in at least one of audio form or video form,
 - includes a description of a subject matter of the record of data, and
 - includes an authorization to cause a copy of the record of data to be transmitted to the distributed ledger system;
- sending, by the processor, the first file to a device associated with a first entity;

receiving, by the processor and from the device associated with the first entity, a second file, the second file including a second information, wherein the second information confirms that the description of the subject matter, included in the first file, is correct;

receiving, by the processor and from the device associated with the first entity, a third file, the third file including a third information, wherein the third information confirms that a second entity, which controlled production of the first file, has permission to authorize causing the copy of the record of data to be transmitted to the distributed ledger system;

causing, by the processor and based on a receipt of the first file, the second file, and the third file, the copy of the record of data to be transmitted to the distributed ledger system; and

preventing, by the processor and based on a lack of the receipt of at least one of the first file, the second file, or the third file, the transmission of the copy of the record of data to the distributed ledger system.

[0001b] According to a second aspect of the present disclosure, there is provided a non-transitory computer-readable medium storing computer code for controlling a processor to cause the processor to prevent a transmission of an incorrect copy of a record of data to a distributed ledger system, the computer code including instructions to cause the processor to:

receive a first file, the first file including a first information, wherein the first information:

is in at least one of audio form or video form,

includes a description of a subject matter of the record of data, and

includes an authorization to cause a copy of the record of data to be transmitted to the distributed ledger system;

send the first file to a device associated with a first entity;

receive, from the device associated with the first entity, a second file, the second file including a second information, wherein the second information confirms that the description of the subject matter, included in the first file, is correct;

receive, from the device associated with the first entity, a third file, the third file including a third information, wherein the third information confirms that a second entity,

which controlled production of the first file, has permission to authorize causing the copy of the record of data to be transmitted to the distributed ledger system;

cause, based on a receipt of the first file, the second file, and the third file, the copy of the record of data to be transmitted to the distributed ledger system; and

prevent, based on a lack of the receipt of at least one of the first file, the second file, or the third file, the transmission of the copy of the record of data to the distributed ledger system.

[0001c] According to a third aspect of the present disclosure, there is provided a system for preventing a transmission of an incorrect copy of a record of data to a distributed ledger system, the system comprising:

a memory configured to store a first file, a second file, and a third file; and

a processor configured to:

receive the first file, the first file including a first information, wherein the first information:

is in at least one of audio form or video form,

includes a description of a subject matter of the record of data, and

includes an authorization to cause a copy of the record of data to be transmitted to the distributed ledger system;

send the first file to a device associated with a first entity;

receive, from the device associated with the first entity, the second file, the second file including a second information, wherein the second information confirms that the description of the subject matter, included in the first file, is correct;

receive, from the device associated with the first entity, the third file, the third file including a third information, wherein the third information confirms that a second entity, which controlled production of the first file, has permission to authorize causing the copy of the record of data to be transmitted to the distributed ledger system;

cause, based on a receipt of the first file, the second file, and the third file, the copy of the record of data to be transmitted to the distributed ledger system; and

prevent, based on a lack of the receipt of at least one of the first file, the second file, or the third file, the transmission of the copy of the record of data to the distributed ledger system.

BRIEF DESCRIPTION OF THE DRAWINGS

[0002] The accompanying drawings, which are included to provide a further understanding of the disclosed technologies, are incorporated in and constitute a part of this specification. The drawings also illustrate implementations of the disclosed technologies and together with the detailed description serve to explain the principles of implementation of the disclosed technologies. No attempt is made to show structural details in more detail than may be necessary for a fundamental understanding of the disclosed technologies and the various ways in which it can be practiced.

[0003] FIG. 1 is a diagram illustrating an example of an environment for preventing a transmission of an incorrect copy of a record of data to an electronic network, according to the disclosed technologies.