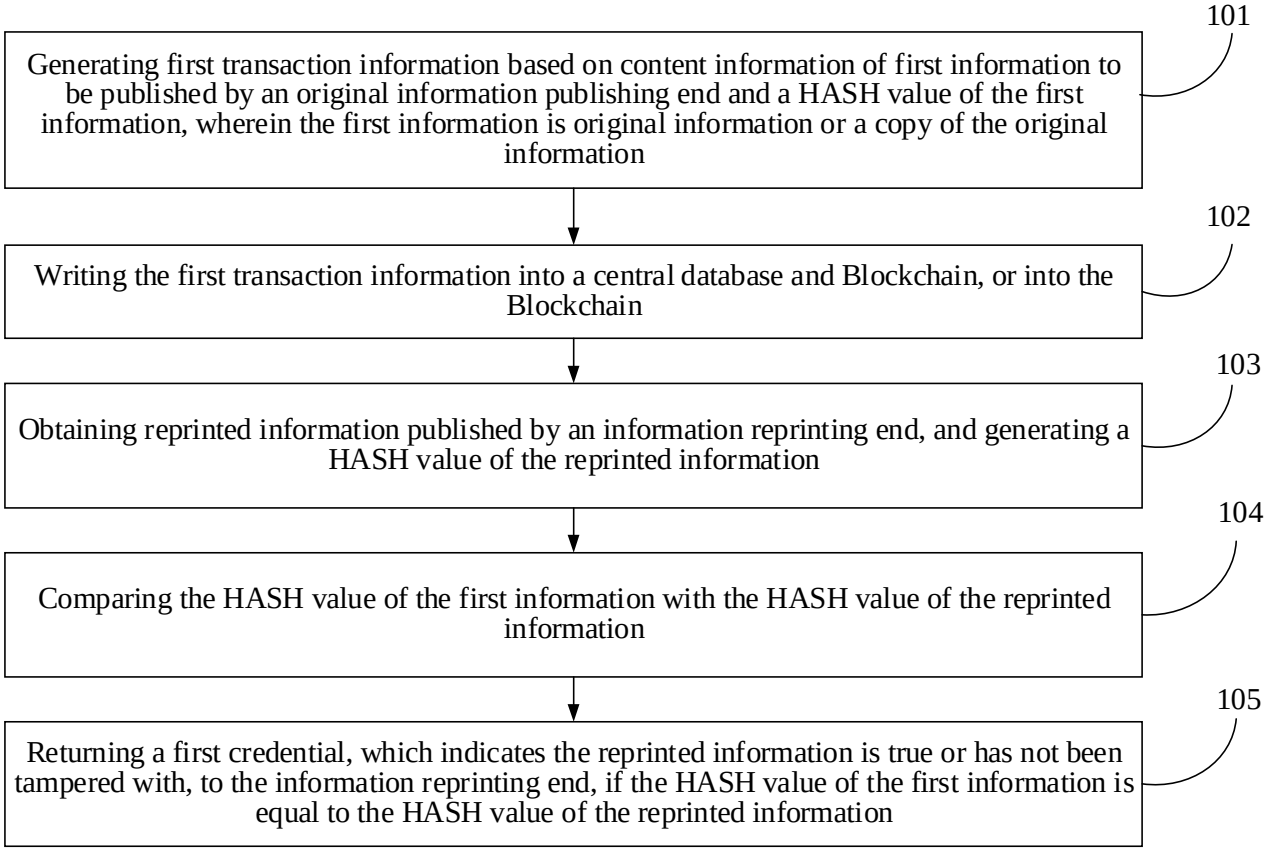
101
Generating first transaction information based on content information of first information to be published by an original information publishing end and a HASH value of the first information, wherein the first information is original information or a copy of the original information
102
Writing the first transaction information into a central database and Blockchain, or into the Blockchain
103
Obtaining reprinted information published by an information reprinting end, and generating a HASH value of the reprinted information
104
Comparing the HASH value of the first information with the HASH value of the reprinted information
105
Returning a first credential, which indicates the reprinted information is true or has not been tampered with, to the information reprinting end, if the HASH value of the first information is equal to the HASH value of the reprinted information

FIG. 1

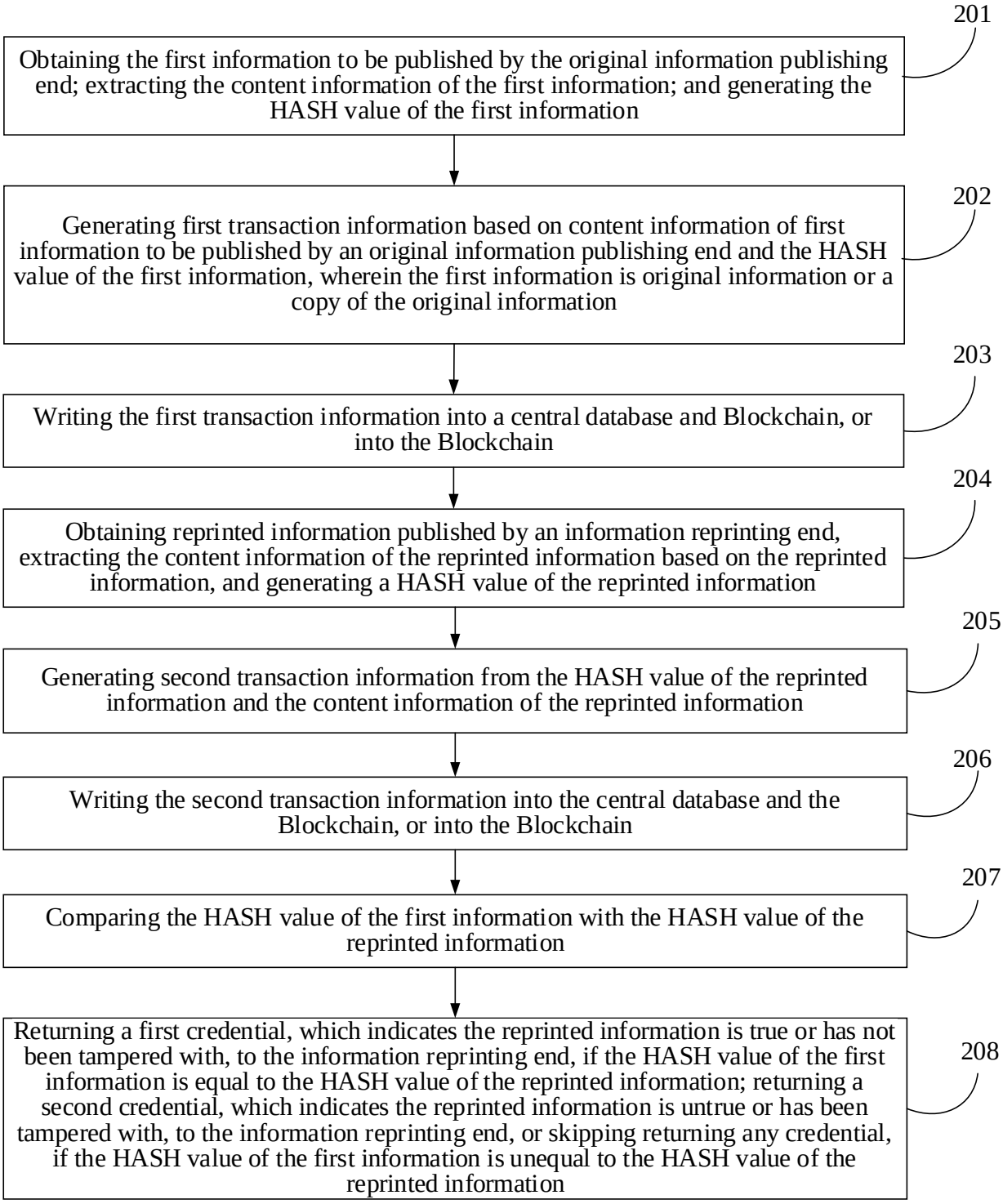
201
Obtaining the first information to be published by the original information publishing end; extracting the content information of the first information; and generating the HASH value of the first information
202
Generating first transaction information based on content information of first information to be published by an original information publishing end and the HASH value of the first information, wherein the first information is original information or a copy of the original information
203
Writing the first transaction information into a central database and Blockchain, or into the Blockchain
204
Obtaining reprinted information published by an information reprinting end, extracting the content information of the reprinted information based on the reprinted information, and generating a HASH value of the reprinted information
205
Generating second transaction information from the HASH value of the reprinted information and the content information of the reprinted information
206
Writing the second transaction information into the central database and the Blockchain, or into the Blockchain
207
Comparing the HASH value of the first information with the HASH value of the reprinted information
208
Returning a first credential, which indicates the reprinted information is true or has not been tampered with, to the information reprinting end, if the HASH value of the first information is equal to the HASH value of the reprinted information; returning a second credential, which indicates the reprinted information is untrue or has been tampered with, to the information reprinting end, or skipping returning any credential, if the HASH value of the first information is unequal to the HASH value of the reprinted information

FIG. 2

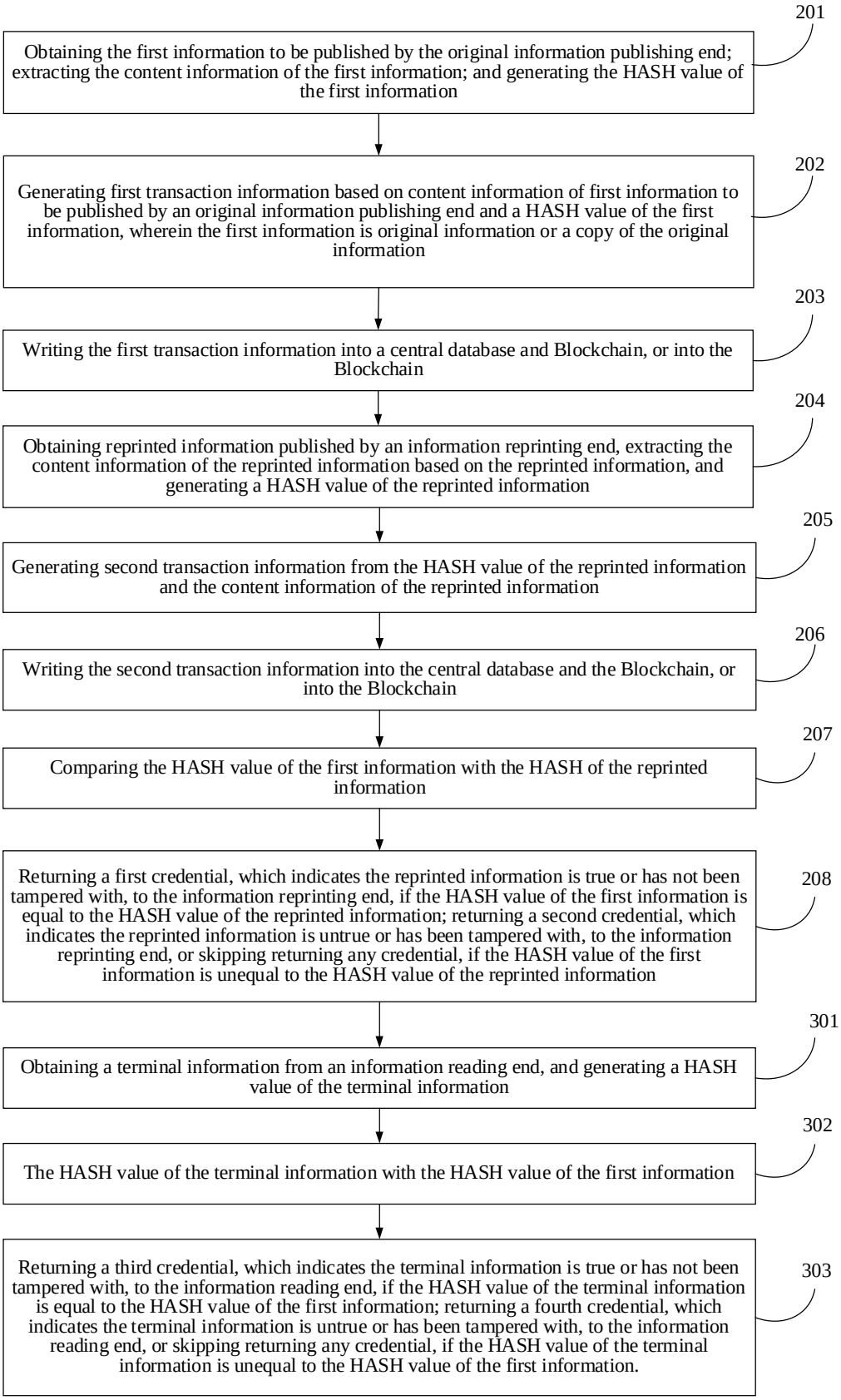
201
Obtaining the first information to be published by the original information publishing end; extracting the content information of the first information; and generating the HASH value of the first information
202
Generating first transaction information based on content information of first information to be published by an original information publishing end and a HASH value of the first information, wherein the first information is original information or a copy of the original information
203
Writing the first transaction information into a central database and Blockchain, or into the Blockchain
204
Obtaining reprinted information published by an information reprinting end, extracting the content information of the reprinted information based on the reprinted information, and generating a HASH value of the reprinted information
205
Generating second transaction information from the HASH value of the reprinted information and the content information of the reprinted information
206
Writing the second transaction information into the central database and the Blockchain, or into the Blockchain
207
Comparing the HASH value of the first information with the HASH of the reprinted information
208
Returning a first credential, which indicates the reprinted information is true or has not been tampered with, to the information reprinting end, if the HASH value of the first information is equal to the HASH value of the reprinted information; returning a second credential, which indicates the reprinted information is untrue or has been tampered with, to the information reprinting end, or skipping returning any credential, if the HASH value of the first information is unequal to the HASH value of the reprinted information
301
Obtaining a terminal information from an information reading end, and generating a HASH value of the terminal information
302
The HASH value of the terminal information with the HASH value of the first information
303
Returning a third credential, which indicates the terminal information is true or has not been tampered with, to the information reading end, if the HASH value of the terminal information is equal to the HASH value of the first information; returning a fourth credential, which indicates the terminal information is untrue or has been tampered with, to the information reading end, or skipping returning any credential, if the HASH value of the terminal information is unequal to the HASH value of the first information.

FIG. 3

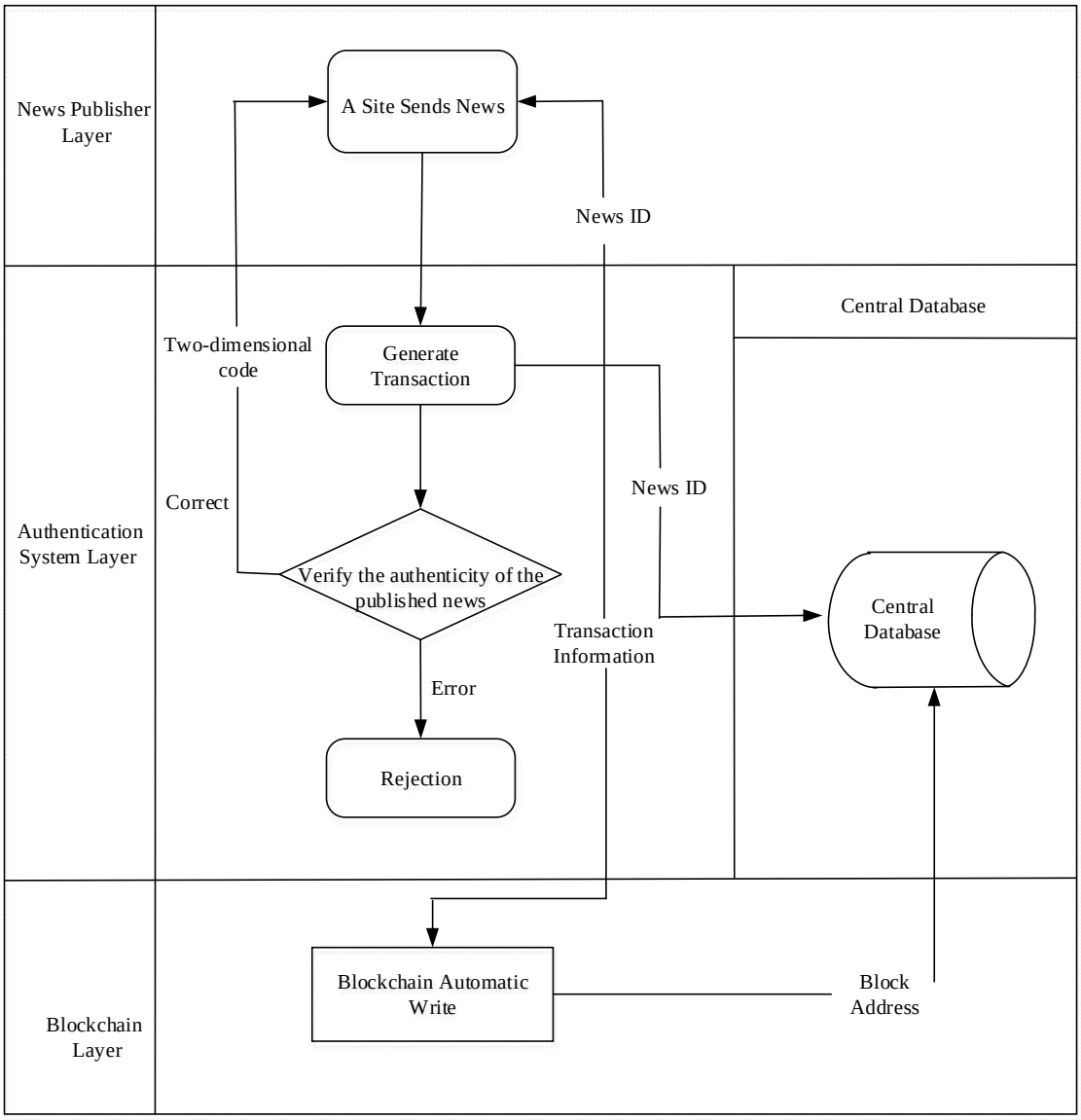
News Publisher Layer
A Site Sends News
News ID
Central Database
Two-dimensional code
Generate Transaction
Correct
News ID
Authentication System Layer
Verify the authenticity of the published news
Central Database
Transaction Information
Error
Rejection
Blockchain Automatic Write
Block Address
Blockchain Layer

FIG. 4

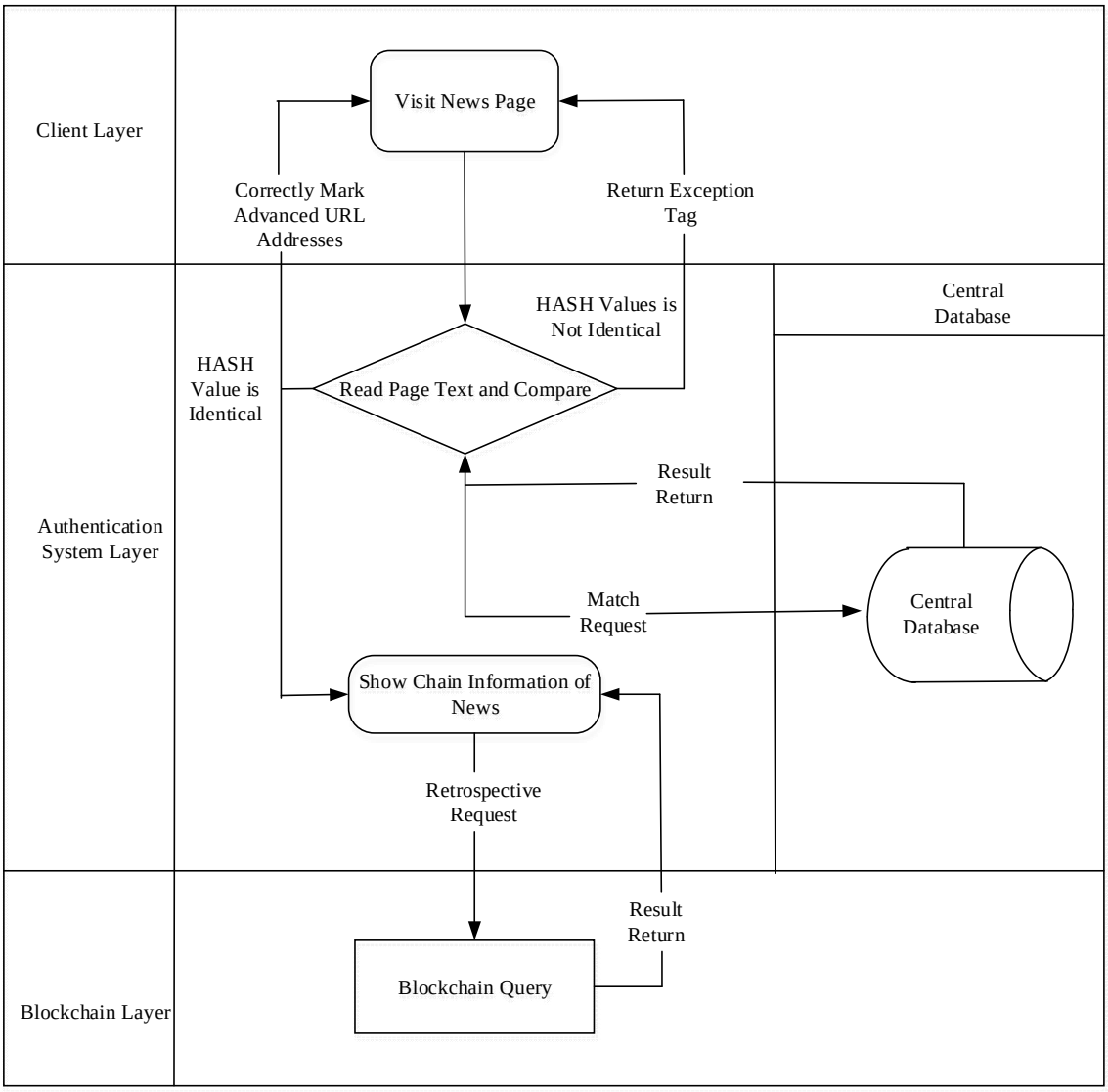
Client Layer
Visit News Page
Correctly Mark Advanced URL Addresses
Return Exception Tag
Authentication System Layer
HASH Values is Not Identical
HASH Value is Identical
Read Page Text and Compare
Central Database
Result Return
Match Request
Central Database
Show Chain Information of News
Retrospective Request
Blockchain Layer
Result Return
Blockchain Query

FIG. 5

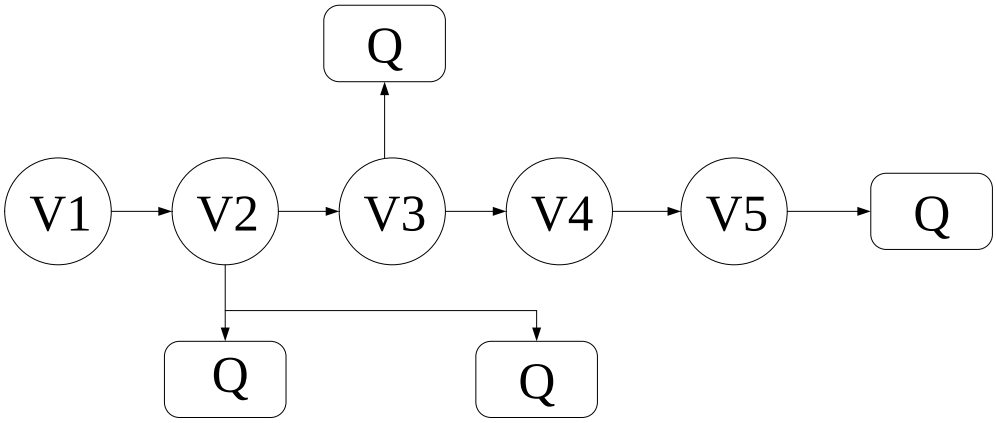

FIG. 6

FIG. 7

-99 China Telecom 4G
08:30
84%
Detection
Circle of friends
Chongming Changxing Advanced Village died of H7N9 infection due to eating large-scale chicken yesterday. Name Chen Zhenguo, aged 58 and child 34 years old, Liu Guoyong, a doctor involved in the rescue, has been quarantined. Urgent notice, don' t eat chicken, duck, pork, Changxing Shuikou Township 5,570 poultry in Shuikou Village have been infected. Receive the person who immediately sends it to you, and prevention will always outweigh treatment. Seeing that the mass spread, this news is true.
3 minutes ago

FIG. **8**

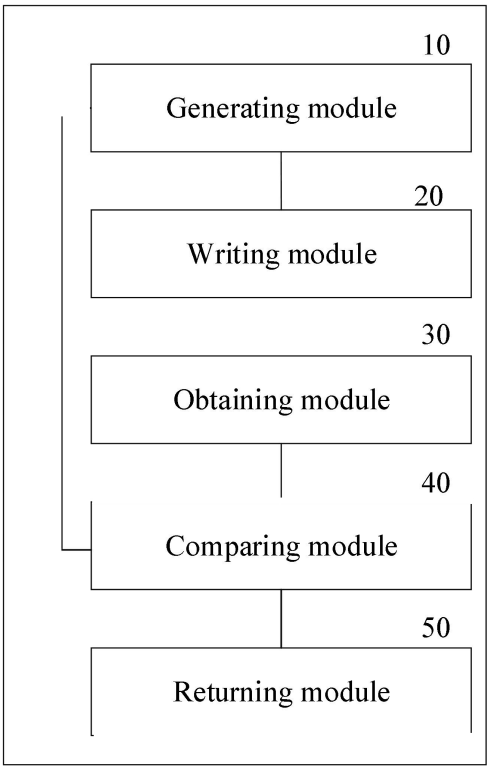
10
Generating module
20
Writing module
30
Obtaining module
40
Comparing module
50
Returning module

FIG. 9

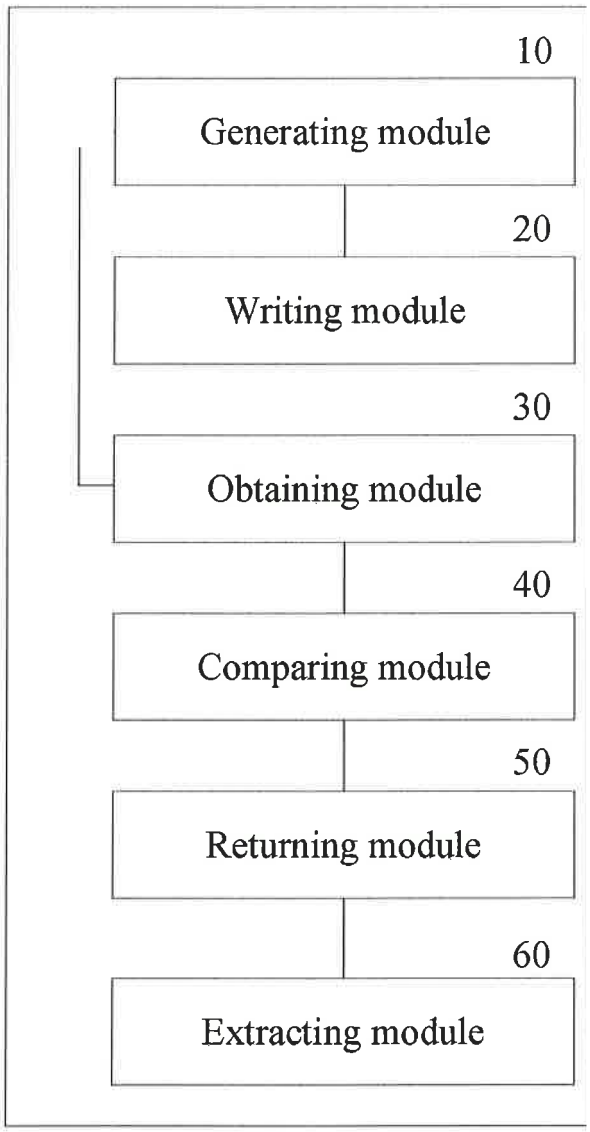
10
Generating module
20
Writing module
30
Obtaining module
40
Comparing module
50
Returning module
60
Extracting module

FIG. 10