

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131053753 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 10/12/2021

(54) Title of the invention : A DATA PROCESSING SYSTEM AND METHOD FOR VEHICLE-END DEVICE WITH A CLOUD COMPUTING

(51) International classification :H04L0029080000, G06F0016220000, G06F0016270000, H04L0029060000, G06F0016110000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a system for data clipping and node recovery using blockchain and method thereof. The method and system include, but not limited to, a processing unit provided with an application module in a blockchain network, which further comprises an object storage gateway, a database storage medium and an object storage. Further, the processing is configured to receive large and small objects and business metadata, the object storage gateway is configured for receiving and sending the objects, storing and inquiring the objects in the object storage, and furthermore combining the small objects into the large objects and generating the object metadata about a plurality of nodes in the blockchain network, and the database storage medium is further configured for storing the business metadata and the object metadata.

No. of Pages : 18 No. of Claims : 9



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Patent Search

Invention Title	A DATA PROCESSING SYSTEM AND METHOD FOR VEHICLE-END DEVICE WITH A CLOUD COMPUTING
Publication Number	50/2021
Publication Date	10/12/2021
Publication Type	INA
Application Number	202131053753
Application Filing Date	23/11/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04L0029080000, G06F0016220000, G06F0016270000, H04L0029060000, G06F0016110000

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Abstract:

The present invention discloses a system for data clipping and node recovery using blockchain and method thereof. The method and system include, but not limited to, a processing unit provided with an application module in a blockchain network, which further comprises an object storage gateway, a database storage medium and an object storage. Further, the processing is configured to receive large and small objects and business metadata, the object storage gateway is configured for receiving and sending the objects, storing and inquiring the objects in the object storage, and furthermore combining the small objects into the large objects and generating the object metadata about a plurality of nodes in the blockchain network, and the database storage medium is further configured for storing the business metadata and the object metadata.

Complete Specification

Description:

[001] The present invention relates to the field of the node recovery in Blockchain technology, which is also known as distributed ledger technology, is an emerging technology in which several computing devices participate in "bookkeeping" and jointly maintain a complete distributed database through data clipping. The invention more particularly relates to a system for data clipping and node recovery using blockchain and method thereof.

BACKGROUND OF THE INVENTION

[002] Now-a-days, blockchain technology is becoming popular because of having the characteristics of decentralization, openness and transparency, each computing device can participate in database records, and the rapid data synchronization between computing devices, the blockchain technology has been widely used in many fields to apply.

[003] The conventional blockchain architecture includes two types of nodes: ordering nodes/consensus nodes (orderer) and verification nodes (peer). The orderer node usually receives all the blocks on the chain for sorting and saves the block data locally and broadcasts it to the peer node. Further, each peer node verifies the validity of the block data and perform write operation it to the local disk.

[004] In the blockchain network, each orderer node and peer node store the full amount of data. As the blockchain network expands, the number of blocks also increase, which takes up a lot of disk space. With the use of disk space, there will be many inconvenient things such as downtime for physical system expansion in the future.

[005] In addition, when a new node joins the blockchain network, it requires to start from 0 and synchronize the data on the blockchain network for the new node. As a

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Page last updated on: 26/06/2019



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Ministry of Commerce & Industry,
Government of India



Application Details

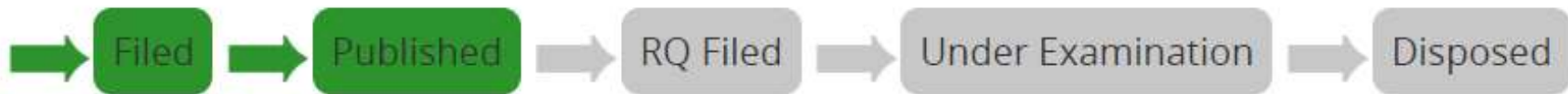
APPLICATION NUMBER	202131053753
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/11/2021
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TITLE OF INVENTION	A DATA PROCESSING SYSTEM AND METHOD FOR VEHICLE-END DEVICE WITH A CLOUD COMPUTING
FIELD OF INVENTION	COMMUNICATION
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/12/2021

Application Status

APPLICATION STATUS

Awaiting Request for Examination

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