

COMMUNICATION OPTIMIZATION SYSTEMS OF BLOCKCHAIN NETWORK, REGISTRATION METHODS AND MESSAGE FORWARDING METHODS

ABSTRACT

5 Embodiments of the present specification disclose a communication optimization
system of a blockchain network, a registration method, and a message forwarding
method, where the system includes two or more relay nodes and a global node. The
relay node is configured to: establish a connection with a blockchain node in response
to a connection request of the blockchain node; receive a registration request of the
10 blockchain node, where the registration request includes an ID of the blockchain node
and an ID of a relay node connected to the blockchain node; generate a registration
event based on the registration request and transmit the registration event to the global
node, where the registration event includes the ID of the blockchain node and the ID
of the relay node connected to the blockchain node; update a local routing table based
15 on the obtained registration event, where the local routing table includes a
corresponding relationship between the ID of the blockchain node and the ID of the
relay node connected to the blockchain node; and forward a message of the
blockchain node based on the local routing table. The global node is configured to
transmit a registration event of any relay node to another relay node.

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FIG. 3