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(54) **METHOD AND CORRESPONDING  
TELECOMMUNICATION NETWORK FOR  
SECURE DATA TRANSMISSIONS BASED ON  
GRAPH DATABASE**

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(57) **ABSTRACT**

A method of communication between nodes in a telecommunications network. Each node maintains a copy of a shared digital ledger, is identified by a respective identification code and implements a software application configured to manage the transmission of data packets and maintain the shared digital ledger. The method includes: memorizing a list of identification codes, each code identifying a respective node included in a subset of nodes of the network, identifying a receiver node to transmit the data packet, generating a data packet to be delivered to a recipient node, transmitting to the first node of the minimum sequence of nodes the data packet, issuing a request to the network nodes to record the data packet transmission in the distributed ledger, and when a data packet is received, the method requires that each receiver node, other than the recipient node of the data packet, repeats at least some steps.

