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(54) Title: SYSTEM AND METHOD FOR PROVIDING PRIVACY AND SECURITY PROTECTION IN BLOCKCHAIN-BASED PRIVATE TRANSACTIONS



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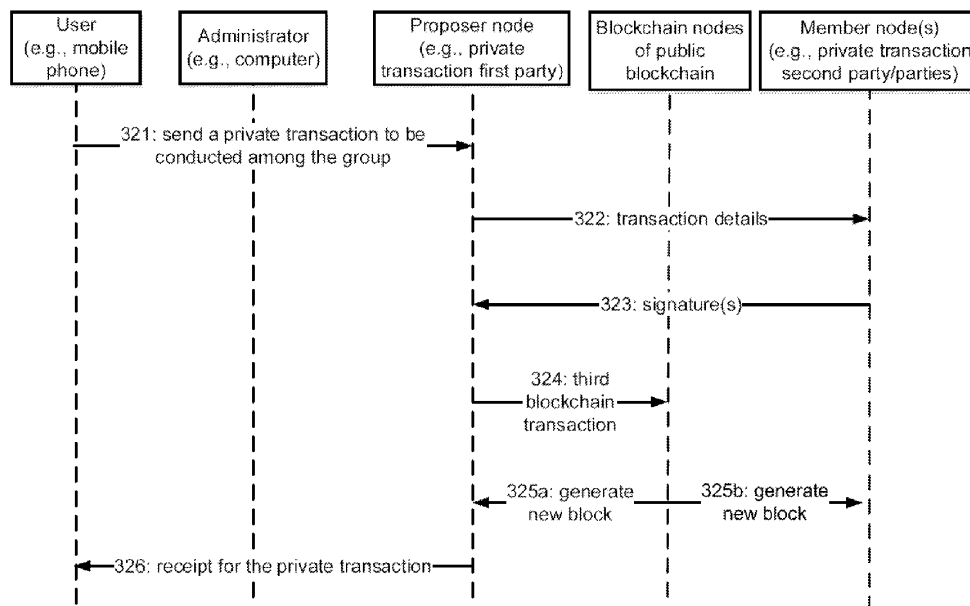


FIG. 4

(57) Abstract: Methods, systems, and apparatus, including computer programs encoded on computer storage media, for implementing blockchain-based private transactions are provided. One of the methods is performed by a first blockchain node to a private transaction, the method including: determining one or more second blockchain nodes to the private transaction according to a blockchain contract in a public blockchain; transmitting transaction information to the one or more second blockchain nodes, the transaction information comprising one or more senders of the private transaction, one or more recipients of the private transaction, and one or more transaction amounts of the private transaction; obtaining a signature from each of a number of the one or more second blockchain nodes certifying receipt of the transaction information; and in response to obtaining the number of the signatures over a threshold, storing at least a representation of the private transaction and the signatures in the public blockchain.

[Continued on next page]

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