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(54) **DATA SECURITY MANAGEMENT METHOD, SYSTEM AND STORAGE MEDIUM FOR SMART CONTRACT BASED ON BLOCK CHAIN NETWORK**

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(57) **ABSTRACT**

The present invention relates to the technical field of block chains, and discloses a data security management method, system and storage medium for smart contract based on block chain network, comprising storing information of at least one public key in asymmetric public and private keys synchronously when generating the smart contract; triggering a data management request, establishing block chain network communication, calling the smart contract to generate validation data, rendering timeliness management to the validation data, sending the same to a data management request end and calling at least one private key, signing the validation data, reorganizing the same with data to be managed and making corresponding management operations; data modifications caused by malicious attacks to data in the contract due to disclosure of the contract or other security defects are addressed, safety of data in the chains is efficiently promised and the present invention is of realistic utility value.