

BLOCKCHAIN SMART CONTRACT-BASED DATA PROCESSING METHODS AND SYSTEMS

ABSTRACT

5 A blockchain smart contract-based data processing method and system are disclosed. In embodiments of the present specification, in one aspect, a JSON processing instruction is defined and added to an instruction set of a blockchain virtual machine. In addition, JSON processing logic corresponding to the JSON processing instruction is deployed in the blockchain virtual machine. In another aspect, the defined JSON processing instruction further needs to be added to an instruction set of a smart
10 contract compiler, so a service smart contract compiled by using the smart contract compiler includes the JSON processing instruction. As such, if the service smart contract is deployed in a blockchain network, when constructing a service initiation transaction, a user can specify to invoke the service smart contract to execute the service initiation transaction.

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FIG. 11a