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(54) **Title:** COMPUTE SERVICES FOR A PLATFORM OF SERVICES ASSOCIATED WITH A BLOCKCHAIN

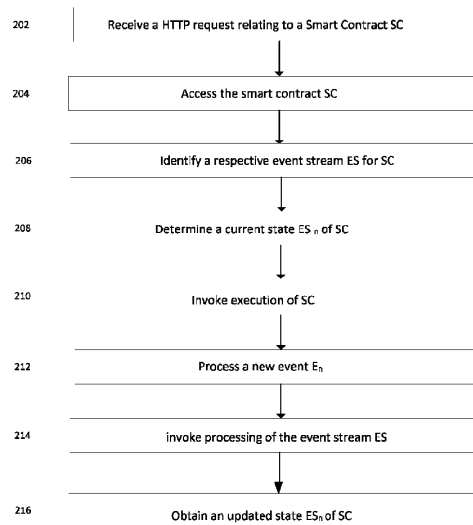


Figure 2

(57) **Abstract:** In one aspect, the present disclosure proposes methods, devices, and systems for implementing or providing a computation or execution service for transactions associated with a blockchain for a client. In more detail, the present disclosure relates to a method for enabling the execution of one or more smart contracts based on a Hypertext Transfer Protocol (HTTP) transmission protocol format (HTTP) request from the client. The method includes accessing a smart contract SC in the request and identifying an event stream ES implemented using the blockchain, where the event stream ES is specific to the smart contract SC, the event stream ES representing the states of the smart contract SC. The current state of the smart contract ES_n is determined. The method then includes invoking execution of the smart contract SC. Then, the method invokes updating the event stream ES by processing a new event E_n for the event stream ES, is identified in the received request, and processed by creating a blockchain transaction. The current state of the smart contract on the blockchain is then updated to be $ES_n = ES_{n+1}$, based on the new event E_n . A result associated with updated current state ES_{n+1} is then provided.

[Continued on next page]

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