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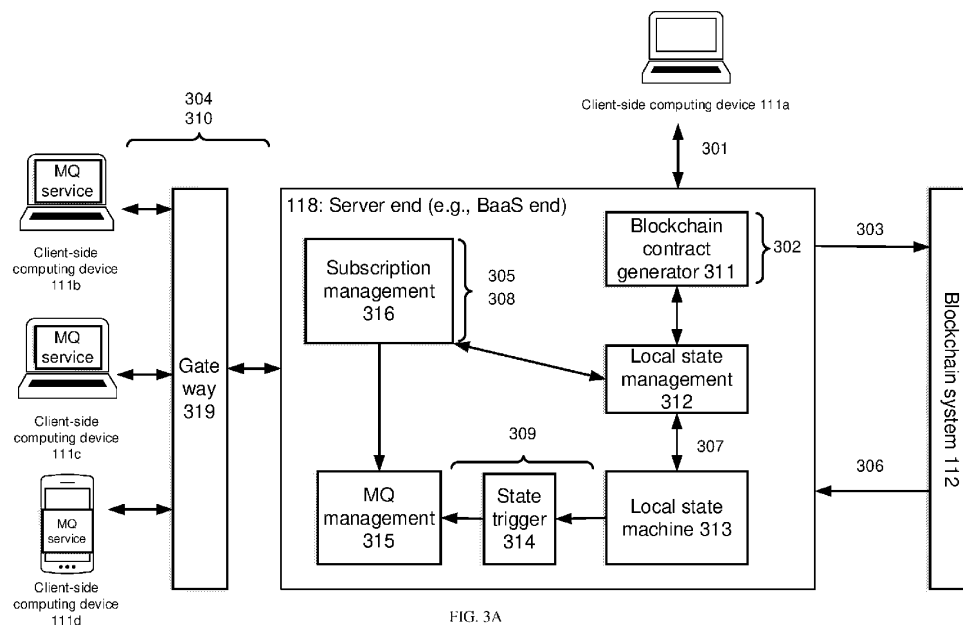


FIG. 3A

(57) Abstract: Methods, systems, and apparatus, including computer programs encoded on computer storage media, for registering subscribable sub-states in blockchain are provided. One of the methods includes: obtaining a request for registering one or more sub-states of a state, wherein a registered workflow comprises the state; generating a blockchain contract comprising the one or more sub-states; and deploying the blockchain contract in a blockchain. The deployed blockchain contract is executable to update a current sub-state of the state corresponding to the workflow among the one or more sub-states.

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