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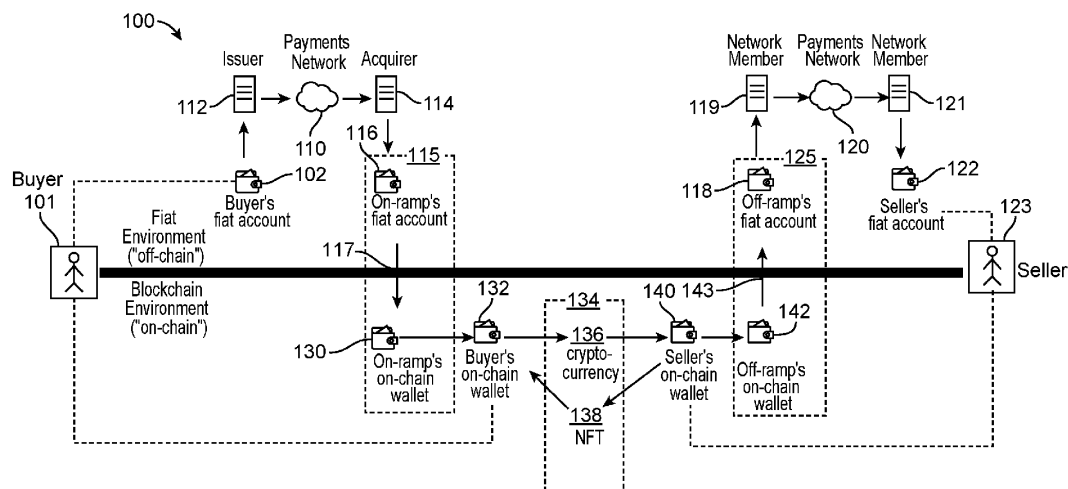


FIG. 1

(57) Abstract: A central service method for transaction integrity for an on-chain order fulfilment with an off-chain payment includes receiving, by a receiving device, at least one dispute-related structured data set associated with the off-chain payment, wherein the dispute-related structured data set includes at least one data element; processing the transaction message with one or more processing devices; storing, in at least one storage environment, one or more of the extracted dispute data element, the dispute extracted metadata element, and the generated dispute metadata element relating to the received dispute-related structured data set, wherein the stored data element indicates a change from a first state to a second state; querying the data storage environment for a present state via code on a blockchain, wherein the code on the blockchain is further configured to automatically execute a method surviving execution when the queried present state matches a predetermined trigger condition.

[Continued on next page]

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