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Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

(54) Title: BLOCKCHAIN TRANSACTION MANAGER

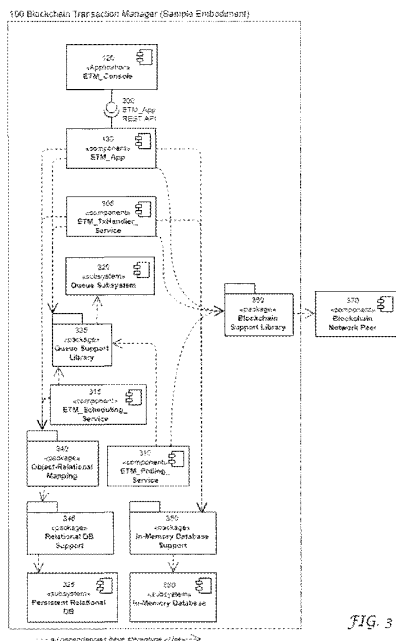


FIG. 3

(57) Abstract: A blockchain transaction manager implements a method of managing submission of blockchain transactions to a node in a blockchain network by validating a received blockchain transaction and enqueueing the validated received blockchain transaction in a transaction queue, preparing at least one transaction attribute of the received blockchain transaction and placing the received blockchain transaction in a persistence queue, digitally signing or certifying the received blockchain transaction, attempting to submit the digitally signed or certified blockchain transaction to the node, and polling a blockchain status of the submitted blockchain transaction. Processes are provided for automatically recalculating blockchain transaction processing fees in the blockchain transaction attributes. Processes are also provided for repairing transaction attributes when the blockchain transaction has been rejected and submitting the repaired blockchain transaction to the node. Also, nonces are automatically assigned to received blockchain transactions and reassigned when the associated blockchain transaction has been rejected.

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