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(54) **Title:** DISTRIBUTED VERIFIABLE LEDGER DATABASE

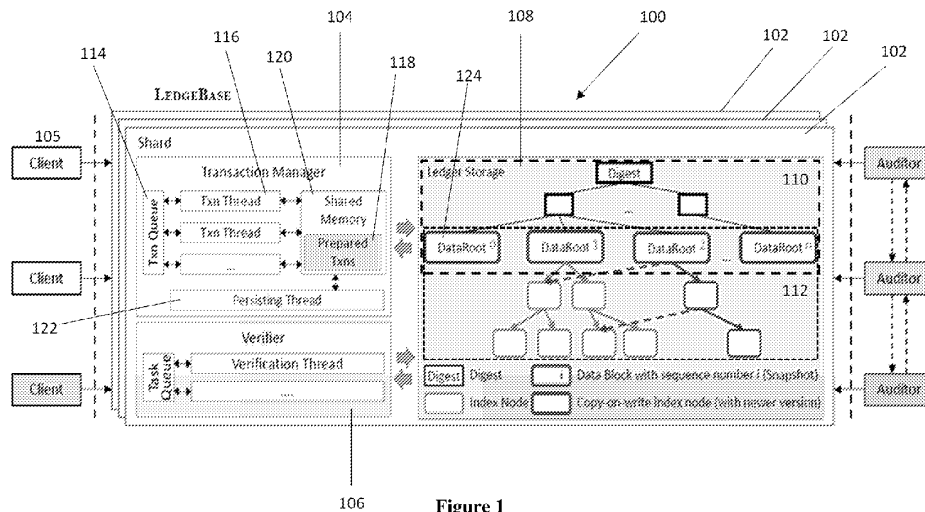


Figure 1

(57) **Abstract:** Disclosed is a verifiable ledger database configured to manage transactions of a ledger, comprising a plurality of shards formed by partitioning transaction data. Each shard comprises a ledger storage configured to provide access to the transaction data and support a plurality of proofs, a transaction manager configured to execute each transaction according to a respective transaction request, and a verifier configured to verify the transactions by returning the proofs according to verification requests.

[Continued on next page]

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