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(54) Title: DISTRIBUTED LEDGER CORE

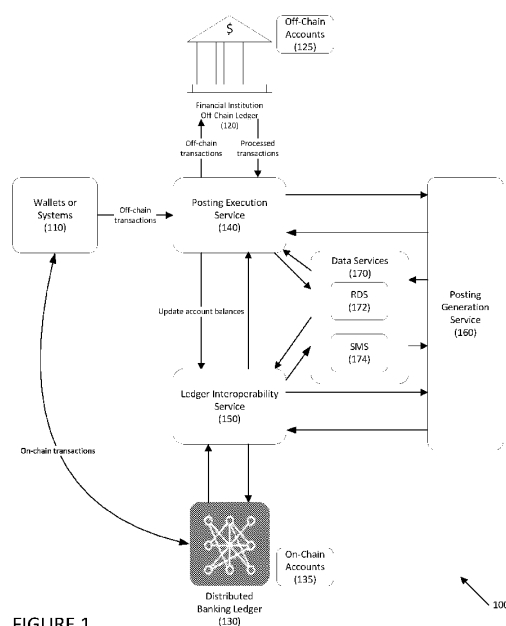


FIGURE 1

(57) Abstract: Distributed ledger cores are disclosed. A method for interacting with a distributed ledger core may include: (1) a distributed banking ledger in a blockchain-based distributed ledger system receiving a transaction request for a transaction from a client system; (2) a smart contract creating a pending transaction; (3) the smart contract sending a posting request for the pending transaction to a ledger interoperability service; (4) the posting generation service generating accounting movements for the transaction; (5) the posting execution service posting the accounting movements and providing posting details to the ledger interoperability service; (6) validating the posting details with a data services module; (7) the smart contract receiving a posting validation complete notification from the posting execution service via the ledger interoperability service; (8) the smart contract settling the transaction on the distributed banking ledger by writing the transaction as a new block to the distributed banking ledger.

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SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,
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