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(54) Title: DISTRIBUTED LEDGER BASED MULTI-CURRENCY CLEARING AND SETTLEMENT

(57) Abstract: OF THE DISCLOSURE A distributed ledger system may include a first distributed ledger node associated with a first participant bank that maintains a first participant bank deposit account on a blockchain-based distributed ledger in a distributed ledger network; a second distributed ledger node associated with a second participant bank that maintains a second participant bank deposit account on the blockchain-based distributed ledger; and a third distributed ledger node associated with a liquidity provider that maintains a liquidity provider deposit account on the blockchain-based distributed ledger. A consensus algorithm operates on the distributed ledger nodes and updates the blockchain-based distributed ledger in which multiple copies of the blockchain-based distributed ledger across the distributed ledger nodes, and transactions involving the first participant bank deposit account, the second participant bank deposit account, and/or the liquidity provider deposit account are added to a block to the blockchain-based distributed ledger.