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(54) Title: IMPROVED BLOCKCHAIN SYSTEM AND METHOD

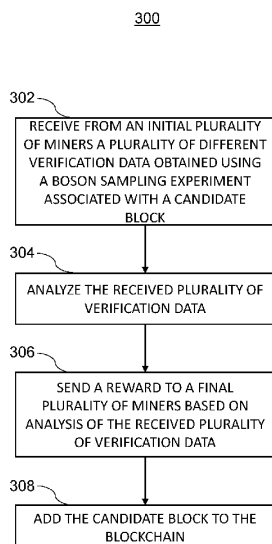


FIG. 3A

(57) Abstract: The present disclosure relates to a quantum-analogue proof-of-work consensus method for use in a blockchain network. The method comprises: receiving a plurality of verification data obtained using a boson sampling experiment associated with a candidate block, from a plurality of different miners of the blockchain network. Each verification data may be associated with a different miner, and wherein each miner performs the boson sampling experiment using at least some information comprised in the candidate block. The method may comprise analysing the received plurality of verification data to determine if a consensus has been achieved; and adding the candidate block to a blockchain associated to the blockchain network when consensus is achieved.

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