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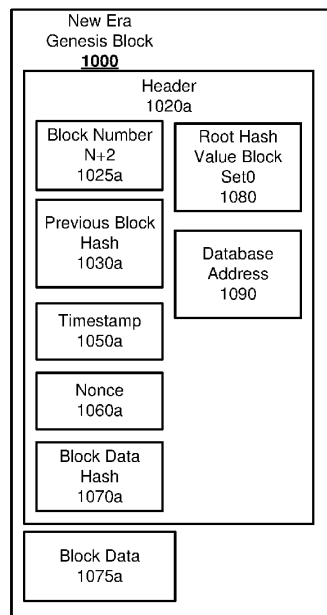


FIG. 10

(57) **Abstract:** Methods and systems described herein improve blockchain storage operations in a variety of environments. A blockchain compression system may determine that a blockchain compression condition associated with a blockchain having a first plurality of blocks has been satisfied. In response, the system compresses the first plurality of blocks using a first hash tree into a first root hash value and stores the first plurality of blocks in a first database. The blockchain compression system generates a first new era genesis block that includes the first root hash value and a first database address of the first database at which the first plurality of blocks are stored. The blockchain compression system stores the blockchain at one or more nodes in a blockchain network. The blockchain includes the first new era genesis block and any previous new era genesis blocks. This may effectively reduce storage requirements for the blockchain, in various embodiments.

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