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(54) **Title:** CONSENSUS OF SHARED BLOCKCHAIN DATA STORAGE BASED ON ERROR CORRECTION CODE

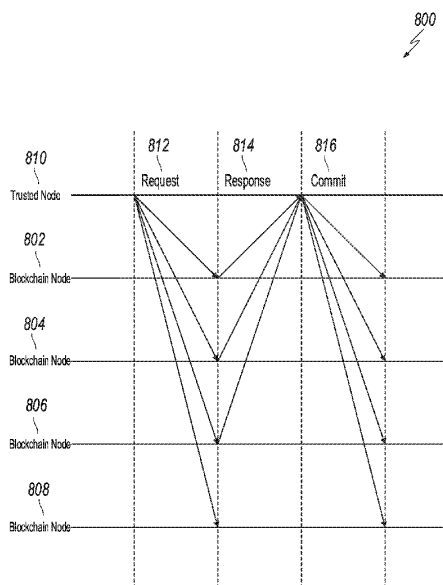


FIG. 8

(57) **Abstract:** Disclosed herein are methods, systems, and apparatus, including computer programs encoded on computer storage media, for storing blockchain data. One of the methods includes retrieving a plurality of blocks from a blockchain node of the blockchain network, encoding the plurality of blocks using error correction coding (ECC) to generate a plurality of encoded blocks, and for each encoded block in the plurality of encoded blocks: dividing the encoded block into a plurality of datasets, calculating hash values of the plurality of datasets, sending a request that includes at least one of the plurality of datasets, the hash values, and a data storage scheme that provides assignments of the plurality of datasets to the plurality of blockchain nodes, receiving responses for accepting the request from at least a number of blockchain nodes that equals a number of the one or more datasets of information bits, and sending a notification for adopting the data storage scheme.

WO 2020/035087 A3

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