

SHARED BLOCKCHAIN DATA STORAGE BASED ON ERROR CORRECTION CODE

ABSTRACT

Disclosed herein are methods, systems, and apparatus, including computer programs encoded on computer storage media, for communicating and sharing blockchain data. One of the methods includes determining historic state data associated with one or more blocks created prior to a current block on a blockchain; performing error correction coding of the historic state data to generate one or more encoded historic state data; dividing, based on one or more predetermined rules, the encoded historic state data to a plurality of data sets; selecting one or more data sets from the plurality of data sets based on the one or more predetermined rules; hashing the one or more data sets to generate one or more hash values corresponding to the one or more data sets; storing the one or more hash values; and deleting, by the blockchain node, the one or more data sets.

FIG. 5