

MANAGING TRANSACTIONS IN MULTIPLE BLOCKCHAIN NETWORKS

ABSTRACT

Disclosed herein are methods, systems, and apparatus, including computer programs encoded on computer storage media, for managing transactions in blockchain networks. One of the methods includes identifying a first Hash Time Locked Contract (HTLC) transaction in a first blockchain network that is associated with a second HTLC transaction in a second blockchain network different from the first blockchain network, identifying a third HTLC transaction in the second blockchain network that is associated with the second HTLC transaction, identifying a fourth HTLC transaction in the first blockchain network that is associated with the first, second, and third HTLC transactions, the first, second, third, and fourth HTLC transactions being related to a cross-chain transaction across the first and second blockchain networks, and deriving hidden information of the cross-chain transaction from information of the first, second, third, and fourth HTLC transactions based on associations of the first, second, third and fourth HTLC transactions.

FIG. 4