

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 include: identifying a first transaction in a first blockchain network that is a first Hash Time Locked Contract (HTLC) transaction in the first blockchain network, identifying a second transaction in a second blockchain network that is a second HTLC transaction in the second blockchain network different from the first blockchain network, determining that a first transaction commit time of the first HTLC transaction is earlier than a second transaction commit time of the second HTLC transaction and a first secret hash of the first HTLC transaction has a same value as a second secret hash of the second HTLC transaction, and in response, determining that the first HTLC transaction and the second HTLC transaction are associated with each other and related to a cross-chain transaction.

FIG. 3