

CROSS-CHAIN INTERACTIONS USING A DOMAIN NAME SCHEME IN BLOCKCHAIN SYSTEMS

ABSTRACT

5 Implementations of the present disclosure include identifying, by a relay that is
communicatively linked with a first blockchain instance and a second blockchain
instance in a unified blockchain network, a blockchain domain name of a first blockchain
instance; identifying a blockchain domain name of the second blockchain instance;
receiving, from a node of the first blockchain instance, an access request for accessing the
10 second blockchain instance, wherein the access request including the blockchain domain
name of the second blockchain instance; identifying a chain identifier of the second
blockchain instance based on the blockchain domain name of the second blockchain
instance, wherein the chain identifier of the second blockchain instance indicates a
blockchain network configuration of the second blockchain instance; and providing
15 access to the second blockchain instance for the first blockchain instance based on the
blockchain network configuration indicated by the chain identifier of the second
blockchain instance.

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FIG. 5