

CLAIMS

What is claimed is:

1. A computer-implemented method for blockchain network digital ticket transfer, the computer-implemented method comprising:

receiving, by a blockchain network node from a client device, a request to transfer a digital ticket from a blockchain network to a target server, of an electronic trading platform, the request comprising:

a digital signature generated using a private key of the client device and account information for an account of the client device on the electronic trading platform,

the account information, and

data identifying the target server; and

receiving, by the blockchain network from the client device, a digital token generated by the target server for the transfer of the digital ticket and sent to the client device, the digital token comprising a code corresponding to the account of the client device on the electronic trading platform;

determining, by the blockchain network node and based on the digital signature and the digital token, whether the client device is authorized to transfer the digital ticket, including determining whether the digital token matches a previously received digital token received from the target server for the transfer of the digital ticket;

in response to determining that the client device is authorized to transfer the digital ticket, transmitting, by the blockchain network node, a notification message to the target server, the notification message comprising the account information for the account of the client device on the electronic trading platform and indicating that the digital ticket is to be transferred from the blockchain network to the target server;

determining, by the blockchain network node that the account of the client device on the electronic trading platform is valid in response to receiving, from the target server, a confirmation message indicating validity of the account of the client device on the electronic trading platform; and

in response to determining that the account of the client device on the electronic trading platform is valid:

transmitting, by the blockchain network node, data specifying the digital ticket from the blockchain network to the target server; and

storing, in a blockchain of the blockchain network, data indicating that the digital ticket has been transferred to the target server.

2. The computer-implemented method of claim 1, wherein determining, by the blockchain network node and based on the digital signature and the digital token, whether the client device is authorized to transfer the digital ticket comprises:

verifying, by the blockchain network node, the digital signature using a public key.

3. The computer-implemented method of any preceding claim, wherein the target server is externally located in relation to the blockchain network.

4. The computer-implemented method of any preceding claim, wherein the digital ticket comprises a virtual instance of a ticket for claiming goods or services.

5. The computer-implemented method of any preceding claim, wherein, in response to receiving the notification message from the blockchain network node, the target server verifies the account information of the client device on the target server, and wherein, in response to determining that the account information of the client device is valid, the target server transmits the confirmation message to the blockchain network node.

6. An apparatus for blockchain network digital ticket transfer, the apparatus comprising a plurality of modules for performing the method of any one of claims 1 to 5.

7. A system for blockchain network digital ticket transfer, the system comprising:
one or more processors; and

one or more computer-readable memories coupled to the one or more processors and having instructions stored thereon that are executable by the one or more processors to perform the method of any one of claims 1 to 5.