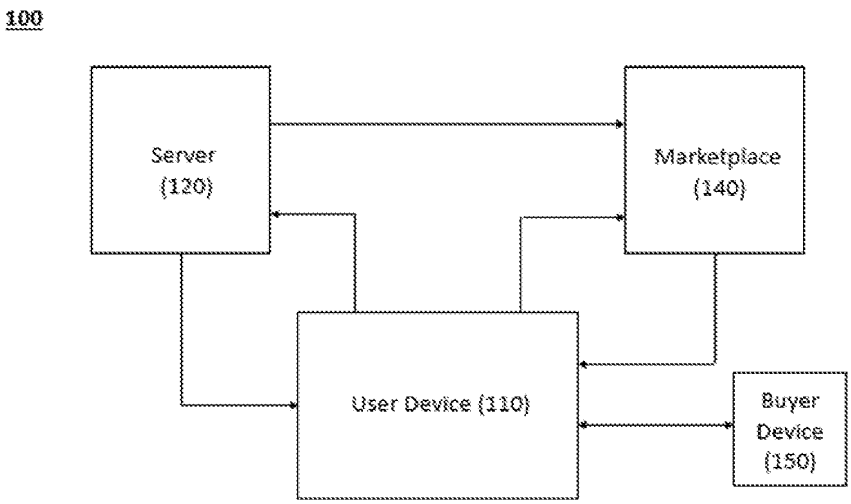

100
Server
(120)
Marketplace
(140)
User Device (110)
Buyer
Device
(150)

Figure 1

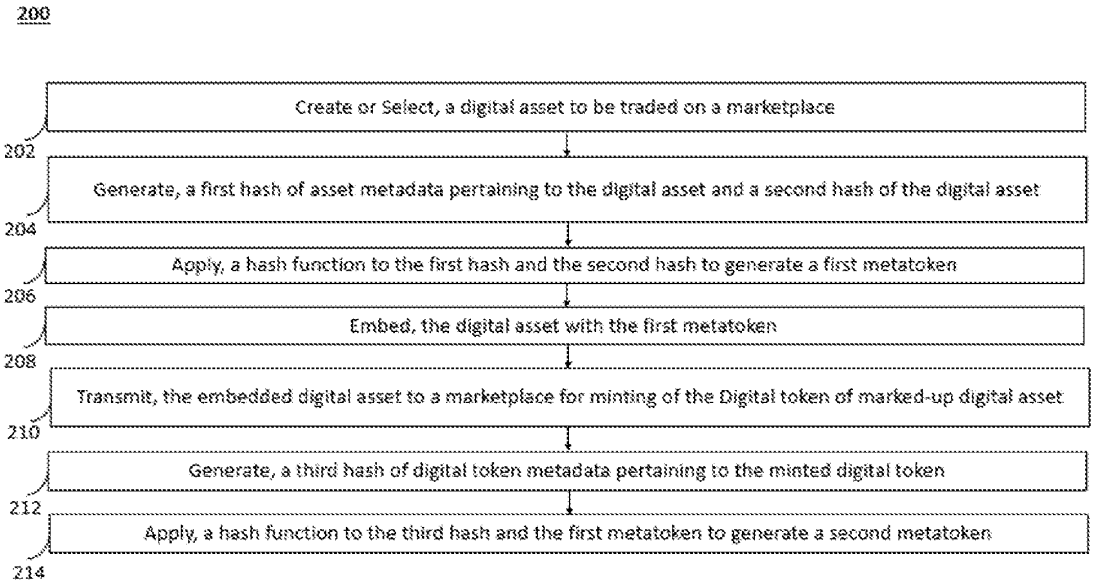

200
Create or Select, a digital asset to be traded on a marketplace
202
Generate, a first hash of asset metadata pertaining to the digital asset and a second hash of the digital asset
204
Apply, a hash function to the first hash and the second hash to generate a first metatoken
206
Embed, the digital asset with the first metatoken
208
Transmit, the embedded digital asset to a marketplace for minting of the Digital token of marked-up digital asset
210
Generate, a third hash of digital token metadata pertaining to the minted digital token
212
Apply, a hash function to the third hash and the first metatoken to generate a second metatoken
214

Figure 2

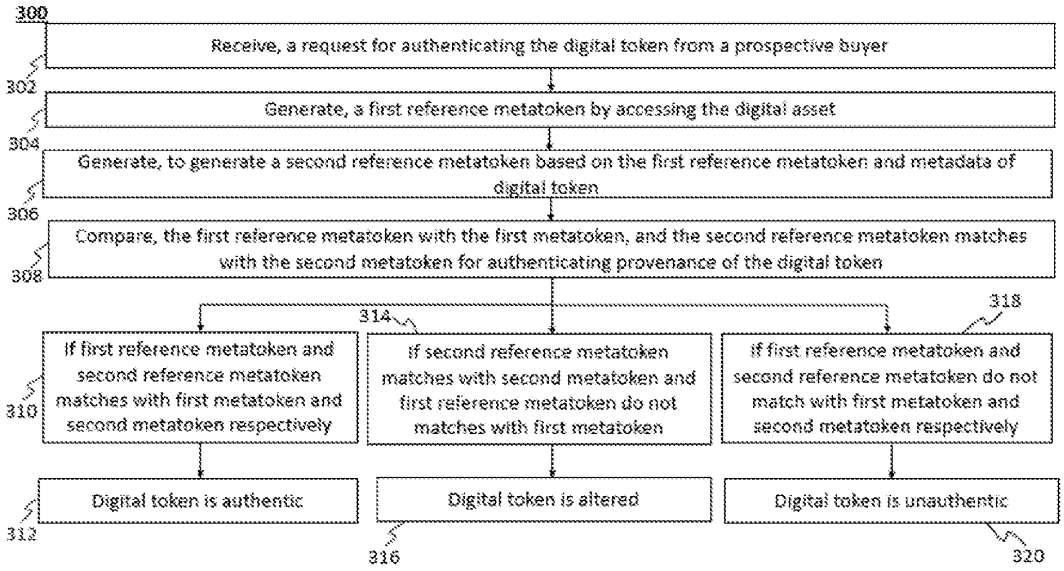

300
Receive, a request for authenticating the digital token from a prospective buyer
302
Generate, a first reference metatoken by accessing the digital asset
304
Generate, to generate a second reference metatoken based on the first reference metatoken and metadata of digital token
306
Compare, the first reference metatoken with the first metatoken, and the second reference metatoken matches with the second metatoken for authenticating provenance of the digital token
308
314
318
If first reference metatoken and second reference metatoken matches with first metatoken and second metatoken respectively
310
If second reference metatoken matches with second metatoken and first reference metatoken do not matches with first metatoken
If first reference metatoken and second reference metatoken do not match with first metatoken and second metatoken respectively
Digital token is authentic
312
Digital token is altered
316
Digital token is unauthentic
320

Figure 3