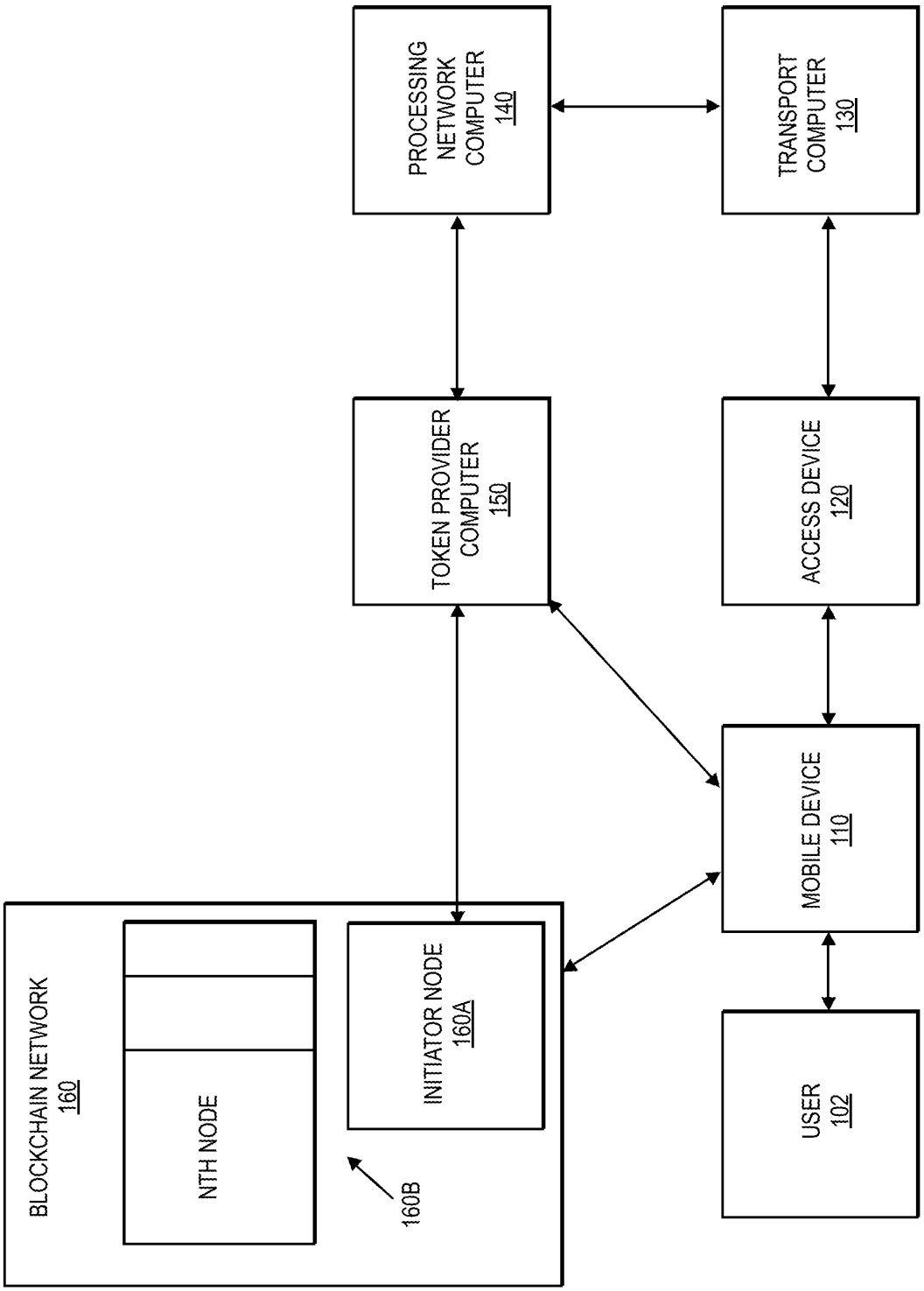
PROCESSING NETWORK COMPUTER 140
TRANSPORT COMPUTER 130
TOKEN PROVIDER COMPUTER 150
ACCESS DEVICE 120
MOBILE DEVICE 110
USER 102
BLOCKCHAIN NETWORK 160
NTH NODE
INITIATOR NODE 160A
160B

FIG. 1

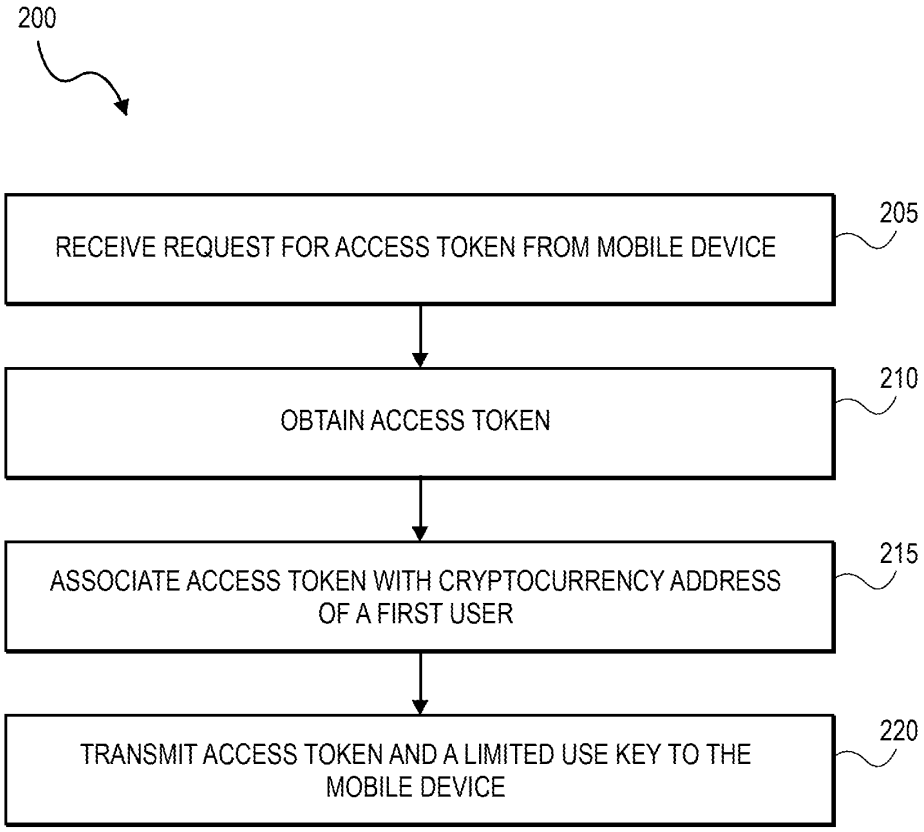
200
RECEIVE REQUEST FOR ACCESS TOKEN FROM MOBILE DEVICE
205
OBTAIN ACCESS TOKEN
210
ASSOCIATE ACCESS TOKEN WITH CRYPTOCURRENCY ADDRESS OF A FIRST USER
215
TRANSMIT ACCESS TOKEN AND A LIMITED USE KEY TO THE MOBILE DEVICE
220

FIG. 2

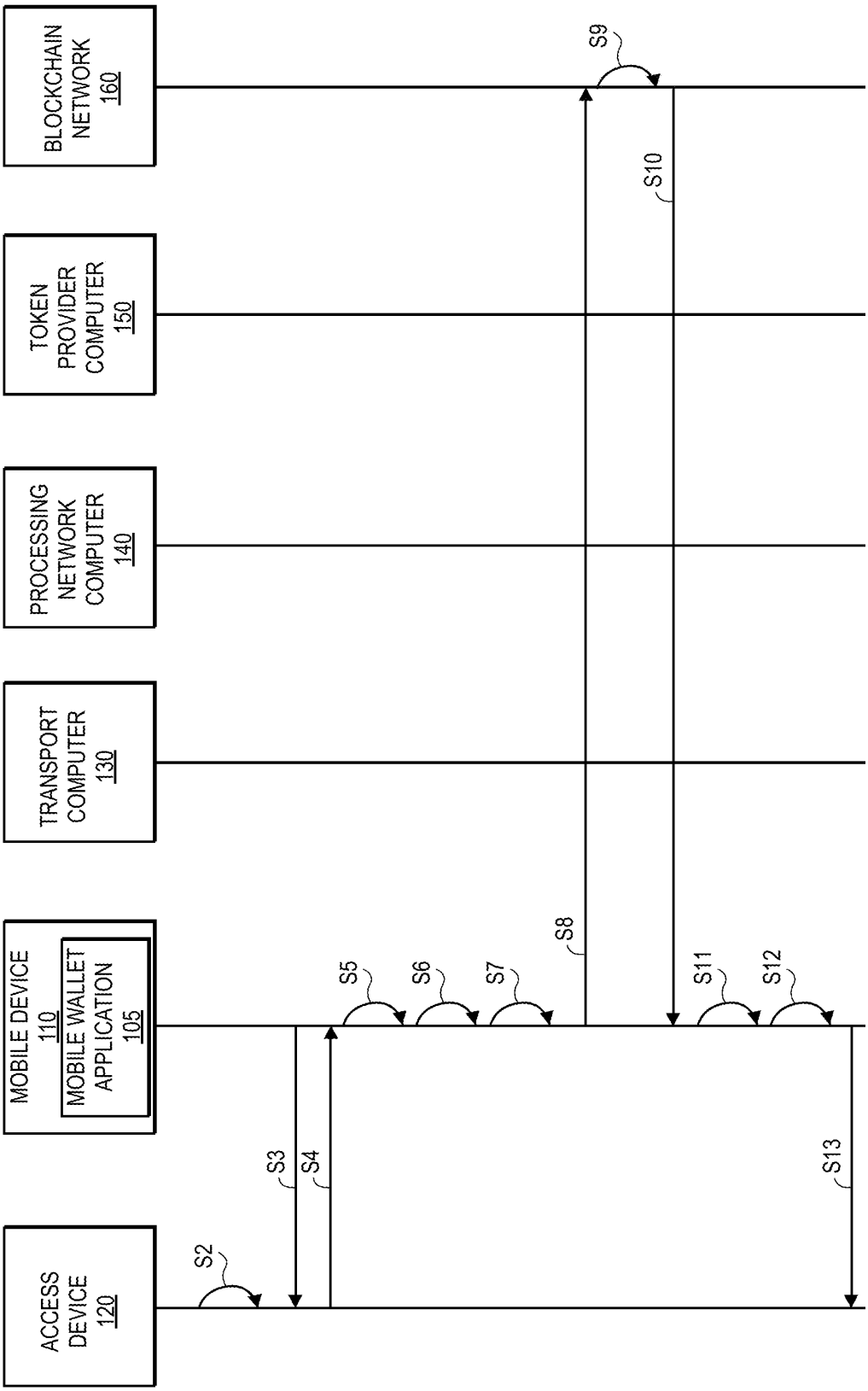
BLOCKCHAIN NETWORK 160
TOKEN PROVIDER COMPUTER 150
PROCESSING NETWORK COMPUTER 140
TRANSPORT COMPUTER 130
MOBILE DEVICE 110
MOBILE WALLET APPLICATION 105
ACCESS DEVICE 120
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13

FIG. 3

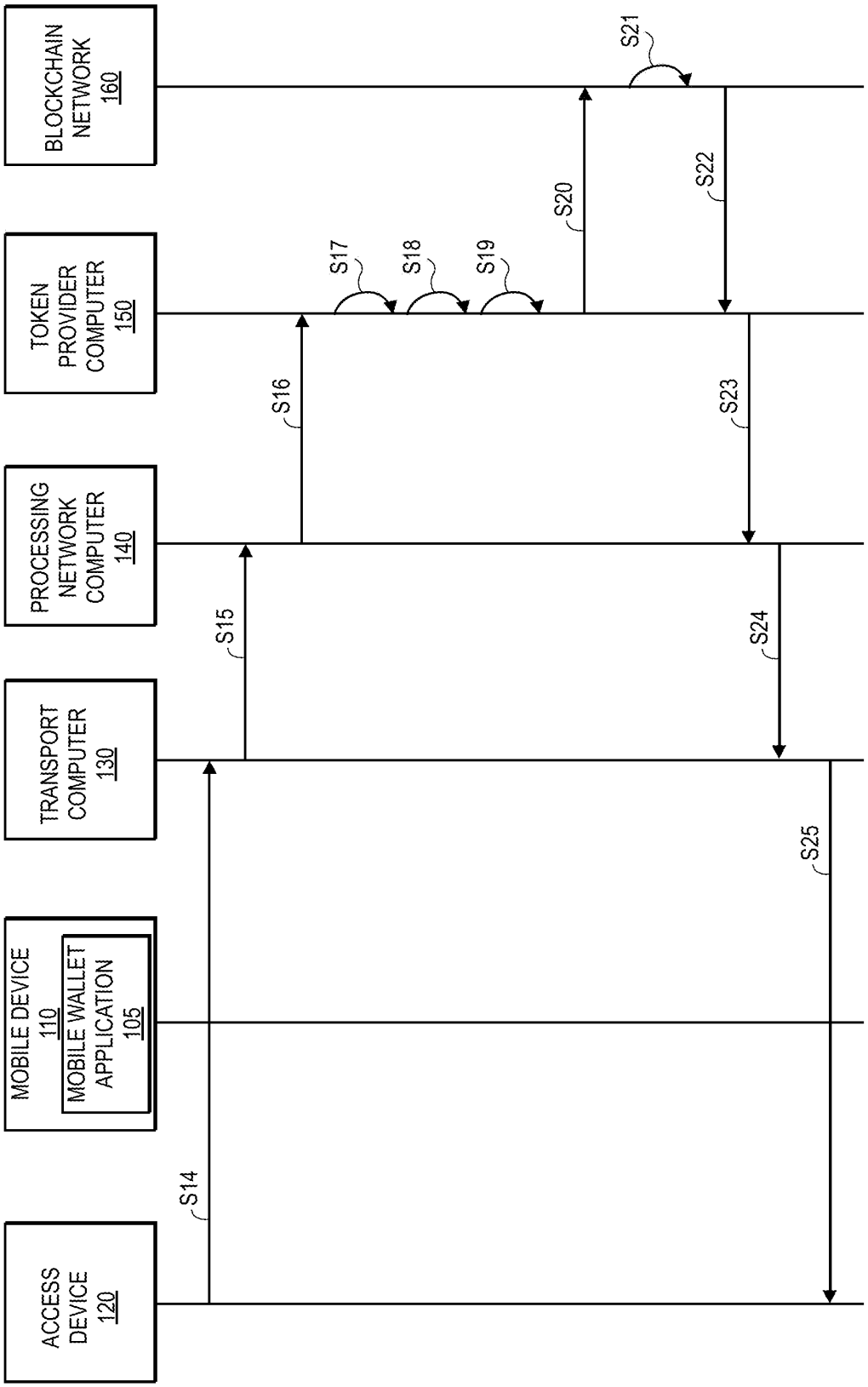
ACCESS DEVICE 120
MOBILE DEVICE 110
MOBILE WALLET APPLICATION 105
TRANSPORT COMPUTER 130
PROCESSING NETWORK COMPUTER 140
TOKEN PROVIDER COMPUTER 150
BLOCKCHAIN NETWORK 160
S14
S15
S16
S17
S18
S19
S20
S21
S22
S23
S24
S25

FIG. 4

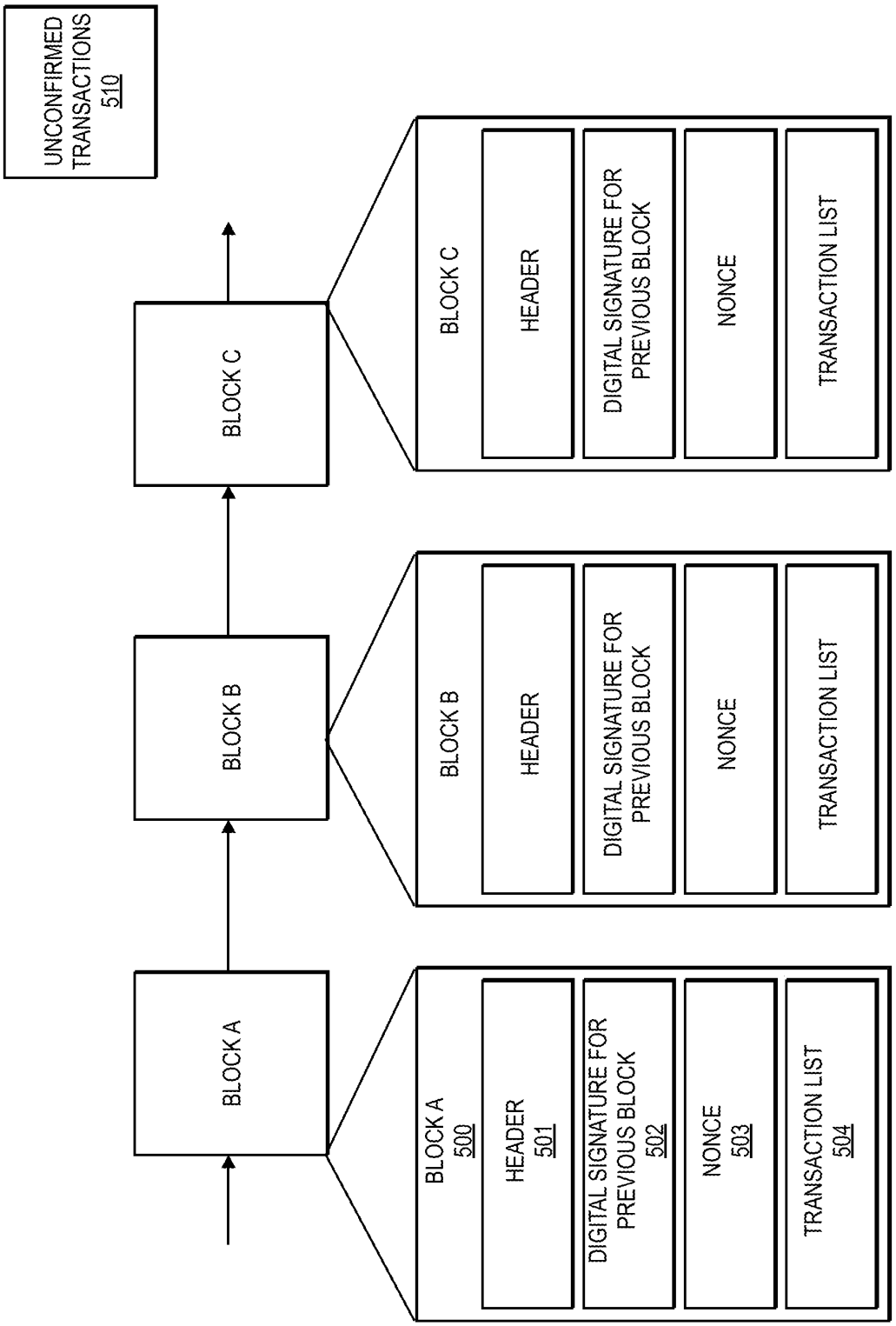
UNCONFIRMED TRANSACTIONS 510
BLOCK A
BLOCK B
BLOCK C
BLOCK A 500
HEADER 501
DIGITAL SIGNATURE FOR PREVIOUS BLOCK 502
NONCE 503
TRANSACTION LIST 504
BLOCK B
HEADER
DIGITAL SIGNATURE FOR PREVIOUS BLOCK
NONCE
TRANSACTION LIST
BLOCK C
HEADER
DIGITAL SIGNATURE FOR PREVIOUS BLOCK
NONCE
TRANSACTION LIST

FIG. 5

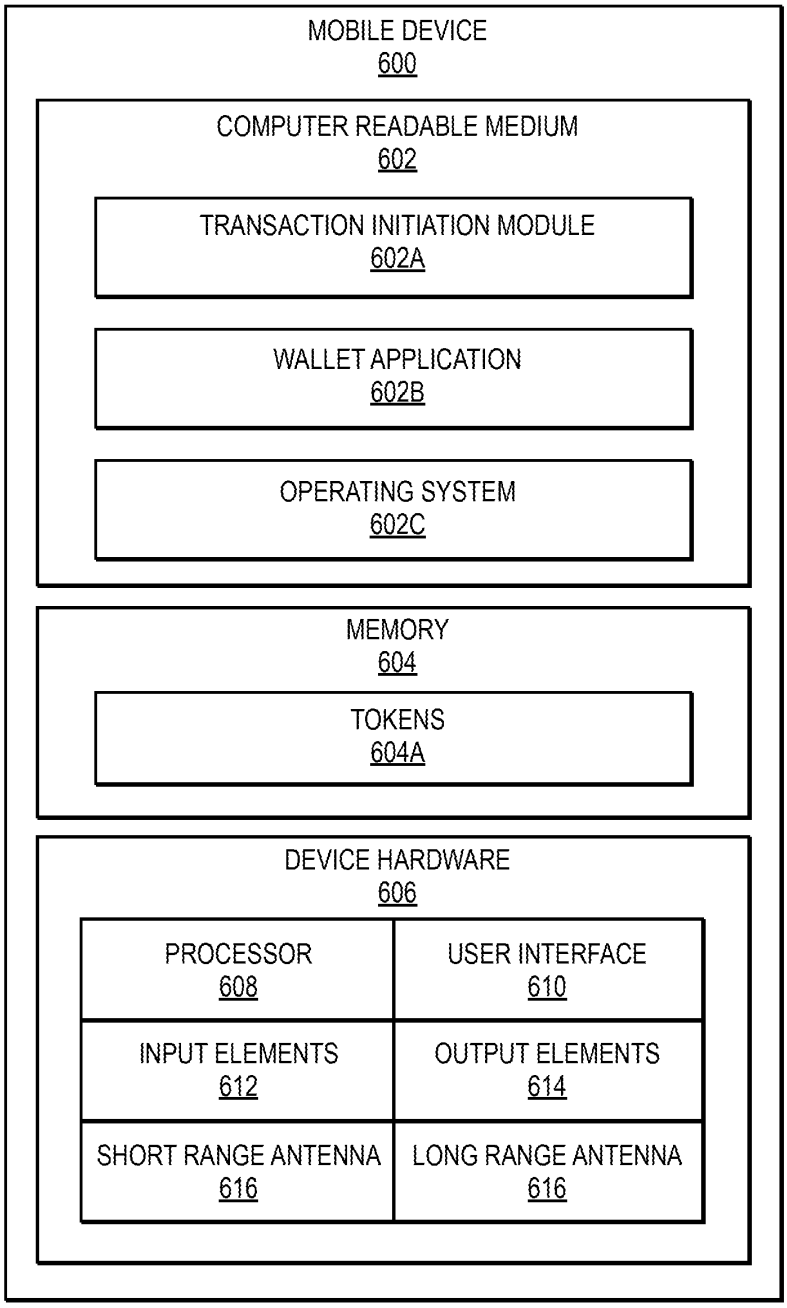
MOBILE DEVICE
600
COMPUTER READABLE MEDIUM
602
TRANSACTION INITIATION MODULE
602A
WALLET APPLICATION
602B
OPERATING SYSTEM
602C
MEMORY
604
TOKENS
604A
DEVICE HARDWARE
606
PROCESSOR
608
USER INTERFACE
610
INPUT ELEMENTS
612
OUTPUT ELEMENTS
614
SHORT RANGE ANTENNA
616
LONG RANGE ANTENNA
616

FIG. 6

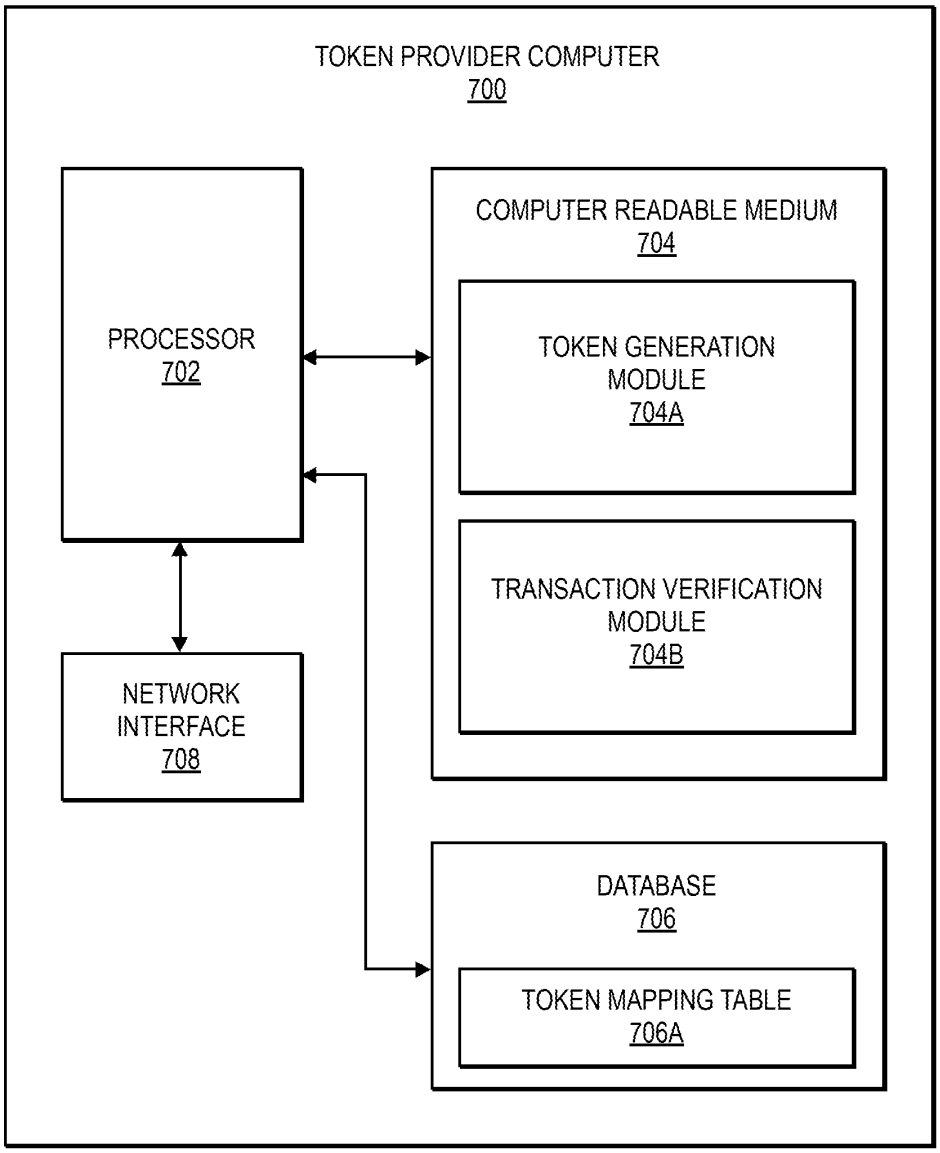
TOKEN PROVIDER COMPUTER
700
PROCESSOR
702
COMPUTER READABLE MEDIUM
704
TOKEN GENERATION MODULE
704A
TRANSACTION VERIFICATION MODULE
704B
NETWORK INTERFACE
708
DATABASE
706
TOKEN MAPPING TABLE
706A

FIG. 7