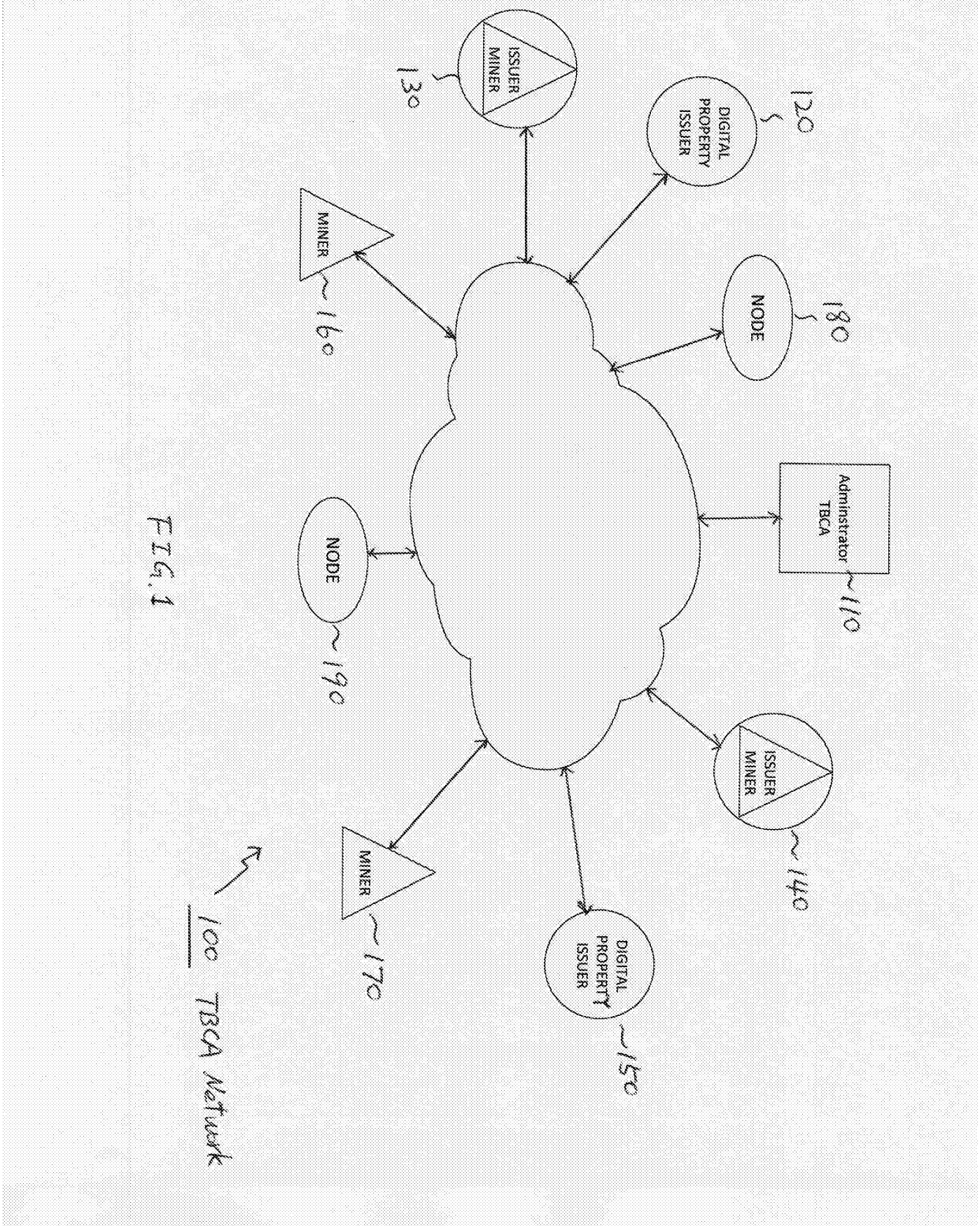

ISSUER MINER
130
DIGITAL PROPERTY ISSUER
120
MINER
160
NODE
180
Administrator TBCA
110
NODE
190
ISSUER MINER
140
MINER
170
DIGITAL PROPERTY ISSUER
150
100 TBCA Network

FIG. 1

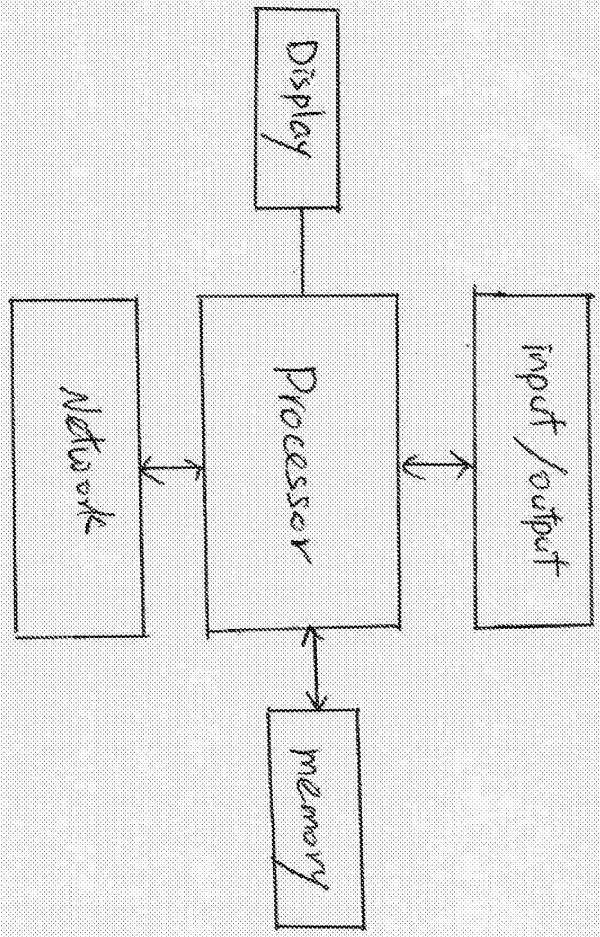


FIG. 2

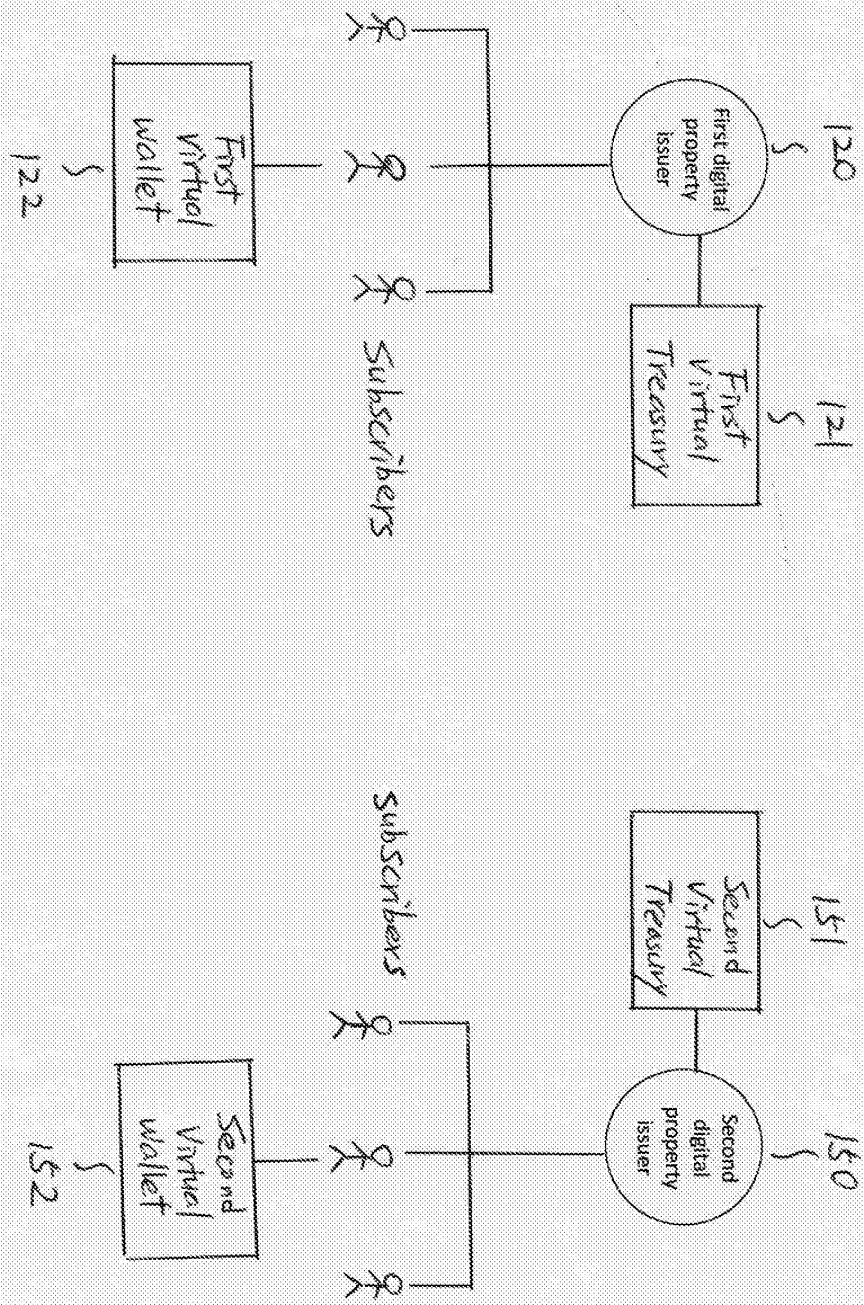

120
First digital property issuer
121
First Virtual Treasury
Subscribers
First Virtual Wallet
122
150
Second digital property issuer
151
Second Virtual Treasury
Subscribers
Second Virtual Wallet
152

FIG. 3

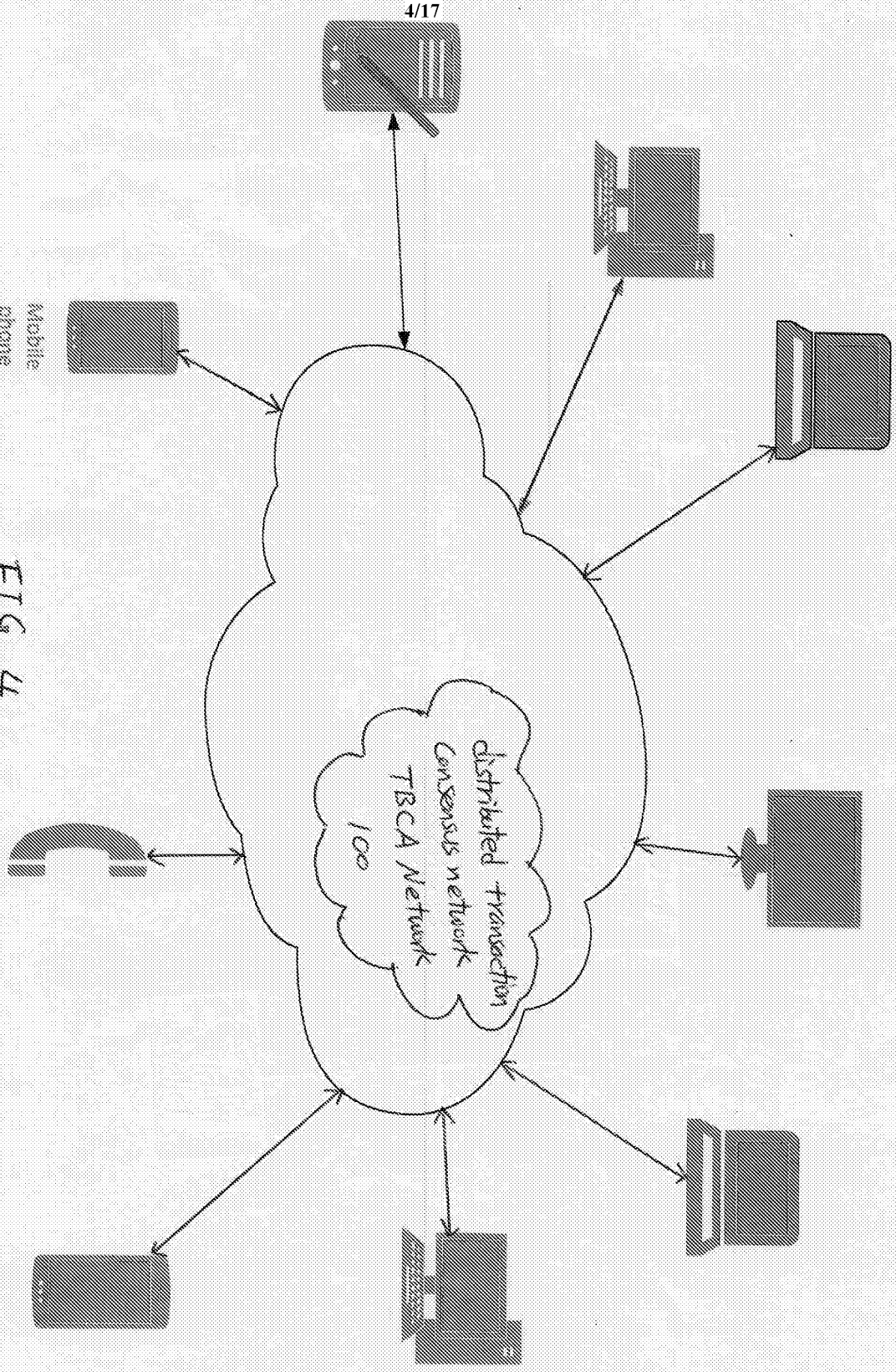

Mobile phone
distributed transaction consensus network
TBCA Network
100

FIG. 4

	Mary's virtual wallet	ATT's virtual treasury	SBT's virtual treasury	Joe's virtual wallet
Before issuance by digital property issuers	0	0	0	0
After issuance by digital property issuers	0	3,100 $USD.ATT 31,000 $JPY. ATT	4,200 $USD.SBT 42,000 $JPY.SBT	0

FIG. 5

Mint Transaction		
4 bytes	Version number	1
1 byte	Number of inputs contained	1
Varies	Sequential list of inputs	1 Transaction Input
1 byte	Number of outputs contained	1
Varies	Sequential list of outputs	1 Transaction Output
4 bytes	Block height or timestamp when transaction is final	0

FIG. 6A

Transaction Input (Mint Transaction)		
32 bytes	Blank	0
4 bytes	Blank	0
1-9 bytes	Size of ScriptSig	Positive integer
Varies	ScriptSig (signature and public key to unlock the ScriptPubKey in the output)	E.g:473044220447d5ae4624357f6b1361daac5d3aaeae5e197551fdf067f42aec5c7a5e51f2204117b06f77809295dd385da9b96567d3dc568e87d622ee37a758c836bb136e1212e0ac817fd21a44b43c6468d71a472e198521fcb66e36663b5a817398 6d7609f
4 bytes	Sequence Number	0xFFFFFFFF

FIG. 6B

Transaction Output		
8 bytes	Value of output	Positive Integer
4 bytes	FC of output (mapped to a currency such as $JPY.SBT)	Integer > 2 (0 and 1 are reserved)
1-9 bytes	Size of ScriptPubKey	Positive integer
Varies	ScriptPubKey (locking script)	OP_DUP OP_HASH160 <Address> OP_EQUALVERIFY OP_CHECKSIG

FIG. 6C

	Mary's virtual wallet	ATT's virtual treasury	SBT's virtual treasury	Joe's virtual wallet
Before transaction	0	3,100 $USD.ATT 31,000 $JPY. ATT	4,200 $USD.SBT 42,000 $JPY.SBT	0
After transaction	100 $USD.ATT 1,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	4,000 $USD.SBT 40,000 $JPY.SBT	200 $USD.SBT 2,000 $JPY.SBT

FIG. 7

	Mary's virtual wallet	ATT's virtual treasury	SBT's virtual treasury	Joe's virtual wallet
Before transaction	100 $USD.ATT 1,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	4,000 $USD.SBT 40,000 $JPY.SBT	200 $USD.SBT 2,000 $JPY.SBT
After first step	50 $USD.ATT 1,000 $JPY.ATT	3,050 $USD.ATT 30,000 $JPY. ATT	4,000 $USD.SBT 40,000 $JPY.SBT	200 $USD.SBT 2,000 $JPY.SBT
After second step	50 $USD.ATT 1,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	50 $USD.ATT 4,000 $USD.SBT 40,000 $JPY.SBT	200 $USD.SBT 2,000 $JPY.SBT
After transaction	50 $USD.ATT 1,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	50 $USD.ATT 3,950 $USD.SBT 40,000 $JPY.SBT	250 $USD.SBT 2,000 $JPY.SBT

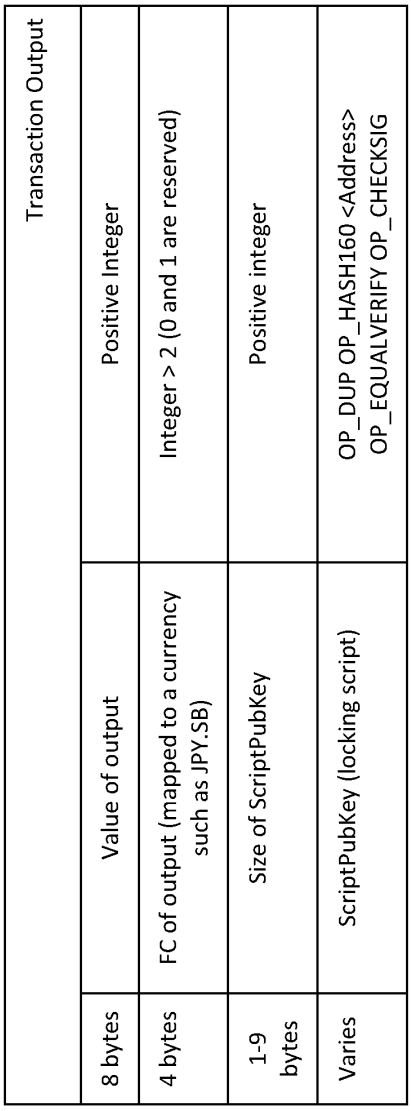
FIG. 8

Standard Transaction		
4 bytes	Version number	1
1-9 bytes	Number of inputs contained	Positive Integer
Varies	Sequential list of inputs	Transaction Inputs
1-9 bytes	Number of outputs contained	Positive Integer
Varies	Sequential list of outputs	Transaction Outputs
4 bytes	Block height or timestamp when transaction is final	0

FIG. 9A

Transaction Input (Standard Transaction)		
32 bytes	Previous transaction hash	E.g:1979fe5abb7192c637cfa4c14a1e953ec0f02c54de28c8f82fc21245c0cab8ac
4 bytes	Referenced output offset (0-indexed)	Non-negative integer
1-9 bytes	Size of ScriptSig	Positive integer
Varies	ScriptSig (signature and public key to unlock)	E.g:473044220447d5ae4624357f6b1361daac5d3aaeae5e197551fdf067f42aec5c7a5e51f2204117b06f77809295dd385da9b96567d3dc568e87d622ee37a758c836bb136e1212e0ac817fd21a44b43c6468d71a472e198521fcb66e36663b5a817398 6d7609f
4 bytes	Sequence Number	0xFFFFFFFF

FIG. 9B



Transaction Output		
8 bytes	Value of output	Positive Integer
4 bytes	FC of output (mapped to a currency such as JPY.SB)	Integer > 2 (0 and 1 are reserved)
1-9 bytes	Size of ScriptPubKey	Positive integer
Varies	ScriptPubKey (locking script)	OP_DUP OP_HASH160 <Address> OP_EQUALVERIFY OP_CHECKSIG

FIG. 9C

	Mary's virtual wallet	ATT's virtual treasury	SBT's virtual treasury	Joe's virtual wallet
Before transaction	100 $USD.ATT 1,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	4,000 $USD.SBT 40,000 $JPY.SBT	200 $USD.SBT 2,000 $JPY.SBT
After first step	50 $USD.ATT 10,000 $JPY.ATT	3,050 $USD.ATT 30,000 $JPY. ATT	4,000 $USD.SBT 40,000 $JPY.SBT	200 $USD.SBT 2,000 $JPY.SBT
After second step	50 $USD.ATT 10,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	50 $USD.ATT 4,000 $USD.SBT 40,000 $JPY.SBT	200 $USD.SBT 2,000 $JPY.SBT
After transaction	50 $USD.ATT 10,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	50 $USD.ATT 4,000 $USD.SBT 34,750 $JPY.SBT	200 $USD.SBT 7,250 $JPY.SBT

FIG. 10

	Mary's virtual wallet	ATT's virtual treasury	SBT's virtual treasury	Joe's virtual wallet
Before transaction	100 $USD.ATT 10,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	4,000 $USD.SBT 40,000 $JPY.SBT	200 $USD.SBT 2,000 $JPY.SBT
After first step	50 $USD.ATT 10,000 $JPY.ATT	3,050 $USD.ATT 30,000 $JPY. ATT	4,000 $USD.SBT 40,000 $JPY.SBT	200 $USD.SBT 2,000 $JPY.SBT
After second step	50 $USD.ATT 10,000 $JPY.ATT	3,050 $USD.ATT 24,750 $JPY. ATT	5,250 $JPY.ATT 4,000 $USD.SBT 40,000 $JPY.SBT	200 $USD.SBT 2,000 $JPY.SBT
After transaction	50 $USD.ATT 10,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	5,250 $USD.ATT 3,500 $USD.SBT 34,750 $JPY.SBT	250 $USD.SBT 7,250 $JPY.SBT

FIG. 11

	Mary's virtual wallet	ATT's virtual treasury	SBT's virtual treasury	Joe's virtual wallet
Before transaction	50 $USD.ATT 1,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	50 $USD.ATT 3,950 $USD.SBT 40,000 $JPY.SBT	250 $USD.SBT 2,000 $JPY.SBT
After first step	50 $USD.ATT 1,000 $JPY.ATT	3,000 $USD.ATT 30,000 $JPY. ATT	50 $USD.ATT 4,025 $USD.SBT 40,000 $JPY.SBT	175 $USD.SBT 2,000 $JPY.SBT
After second step	50 $USD.ATT 1,000 $JPY.ATT	3,050 $USD.ATT 30,000 $JPY. ATT 25 $USD.SBT	4,000 $USD.SBT 40,000 $JPY.SBT	175 $USD.SBT 2,000 $JPY.SBT
After transaction	125 $USD.ATT 1,000 $JPY.ATT	2,975 $USD.ATT 30,000 $JPY. ATT 25 $USD.SBT	4,000 $USD.SBT 40,000 $JPY.SBT	175 $USD.SBT 2,000 $JPY.SBT

FIG. 12

Digital Currencies	Digital Property Issuers			
	SBT	ATT	NTT	
$USD.SBT Digital US Dollars issued by SBT	Total amount issued	500,000		12,000
$JPY.SBT Digital Japanese Yens issued by SBT	Total amount issued	1,500,000		800,000
$CAD.SBT Digital Canadian Dollars issued by SBT	Total amount issued	20,000		4,000
$USD.ATT Digital US Dollars issued by ATT	100,000	Total amount issued		150,000
$JPY.ATT Digital Japanese Yens issued by ATT	500,000	Total amount issued		600,000
$CAD.ATT Digital Canadian Dollars issued by ATT	50,000	Total amount issued		60,000
$USD.NTT Digital US Dollars issued by NTT	10,000	500,000	Total amount issued	
$JPY.NTT Digital Japanese Yens issued by NTT	1,000,000	1,200,000	Total amount issued	
$CAD.NTT Digital Canadian Dollars issued by NTT	5,000	20,000	Total amount issued	

FIG. 13

		ATT's virtual treasury	SBT's virtual treasury	Transaction Status
Transaction No. 1 ATT needs to pay SBT 4,000 $USD	Before	1,000,000 $USD.ATT 3,000 $USD.SBT 100,000 $JPY.ATT 1,450,000 $JPY.SBT	98,000 $USD.ATT 500,000 $USD.SBT 20,000 $JPY.ATT 5,000,000 $JPY.SBT	Completed and recorded
	After	999,000 $USD.ATT 0 $USD.SBT 100,000 $JPY.ATT 1,450,000 $JPY.SBT	99,000 $USD.ATT 503,000 $USD.SBT 20,000 $JPY.ATT 5,000,000 $JPY.SBT	
Transaction No. 2 ATT needs to pay SBT 2,000 $USD	Before	999,000 $USD.ATT 0 $USD.SBT 100,000 $JPY.ATT 1,450,000 $JPY.SBT	99,000 $USD.ATT 503,000 $USD.SBT 20,000 $JPY.ATT 5,000,000 $JPY.SBT	Denied because the transaction will cause SBT to hold more than 100,000 $USD.ATT which exceeds the exposure limit.
	After	999,000 $USD.ATT 0 $USD.SBT 100,000 $JPY.ATT 1,450,000 $JPY.SBT	99,000 $USD.ATT 503,000 $USD.SBT 20,000 $JPY.ATT 5,000,000 $JPY.SBT	
Transaction No. 3 SBT needs to pay ATT 30,000 $JPY	Before	999,000 $USD.ATT 0 $USD.SBT 100,000 $JPY.ATT 1,450,000 $JPY.SBT	99,000 $USD.ATT 503,000 $USD.SBT 20,000 $JPY.ATT 5,000,000 $JPY.SBT	Completed and recorded
	After	999,000 $USD.ATT 0 $USD.SBT 120,000 $JPY.ATT 1,460,000 $JPY.SBT	99,000 $USD.ATT 503,000 $USD.SBT 0 $JPY.ATT 4,990,000 $JPY.SBT	
Transaction No. 4 SBT needs to pay ATT 50,000 $JPY	Before	999,000 $USD.ATT 0 $USD.SBT 120,000 $JPY.ATT 1,460,000 $JPY.SBT	99,000 $USD.ATT 503,000 $USD.SBT 0 $JPY.ATT 4,990,000 $JPY.SBT	Denied because the transaction will cause ATT to hold more than 1,500,000 $JPY.SBT which exceeds the exposure limit.
	After	999,000 $USD.ATT 0 $USD.SBT 120,000 $JPY.ATT 1,460,000 $JPY.SBT	99,000 $USD.ATT 503,000 $USD.SBT 0 $JPY.ATT 4,990,000 $JPY.SBT	

FIG. 14

Digital Currencies	Digital Property Issuers			
	SBT	ATT	NTT	
$USD.SBT Digital US Dollars issued by SBT	Total amount issued	500,000		12,000
$JPY.SBT Digital Japanese Yens issued by SBT	Total amount issued	1,500,000		800,000
$CAD.SBT Digital Canadian Dollars issued by SBT	Total amount issued	20,000		4,000
$USD.ATT Digital US Dollars issued by ATT	0	0		0
$JPY.ATT Digital Japanese Yens issued by ATT	500,000	Total amount issued		600,000
$CAD.ATT Digital Canadian Dollars issued by ATT	50,000	Total amount issued		60,000
$USD.NTT Digital US Dollars issued by NTT	10,000	500,000	Total amount issued	
$JPY.NTT Digital Japanese Yens issued by NTT	1,000,000	1,200,000	Total amount issued	
$CAD.NTT Digital Canadian Dollars issued by NTT	5,000	20,000	Total amount issued	

FIG. 15