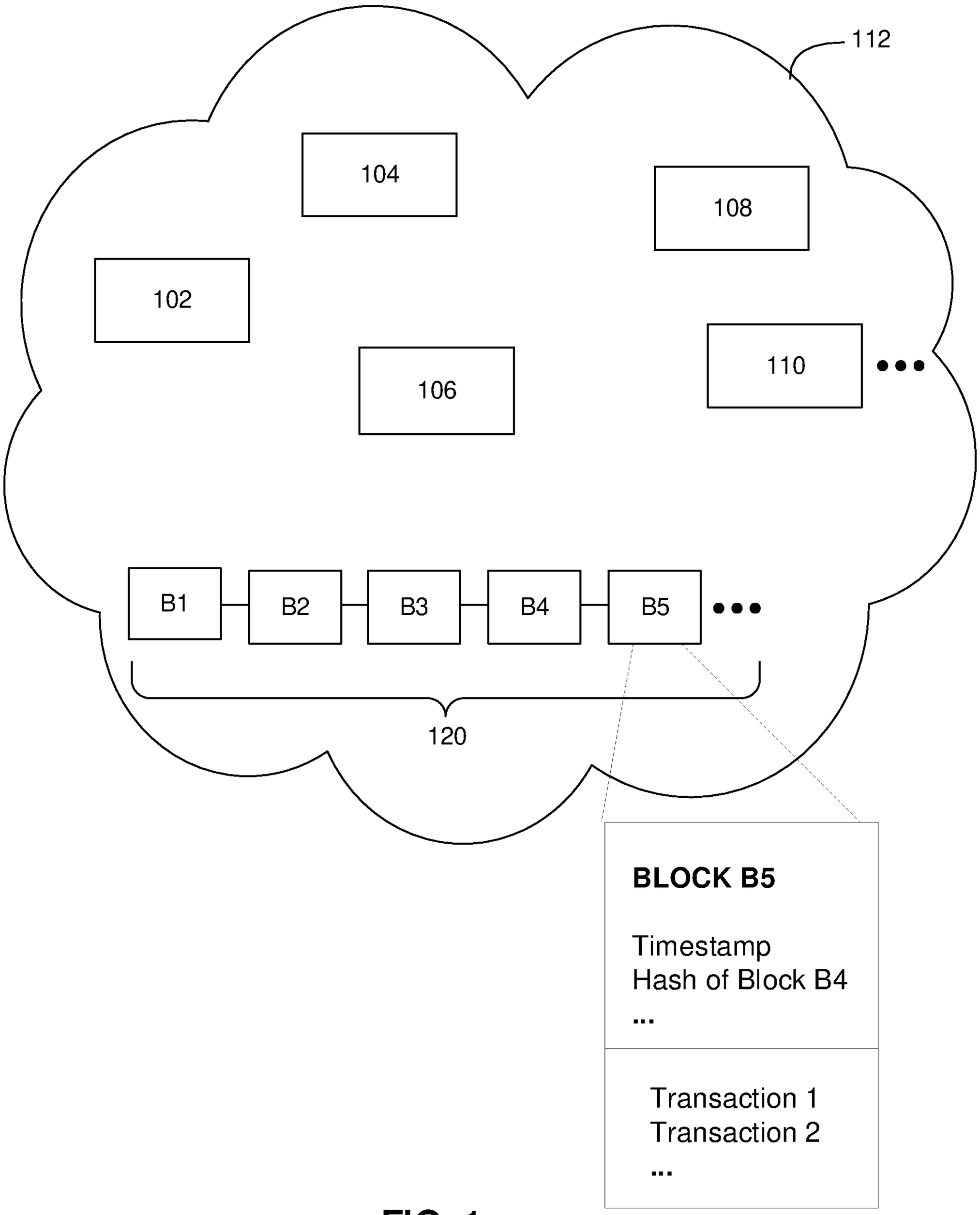

100
112
104
108
102
110
106
B1
B2
B3
B4
B5
120
BLOCK B5
Timestamp
Hash of Block B4
...
Transaction 1
Transaction 2
...

FIG. 1

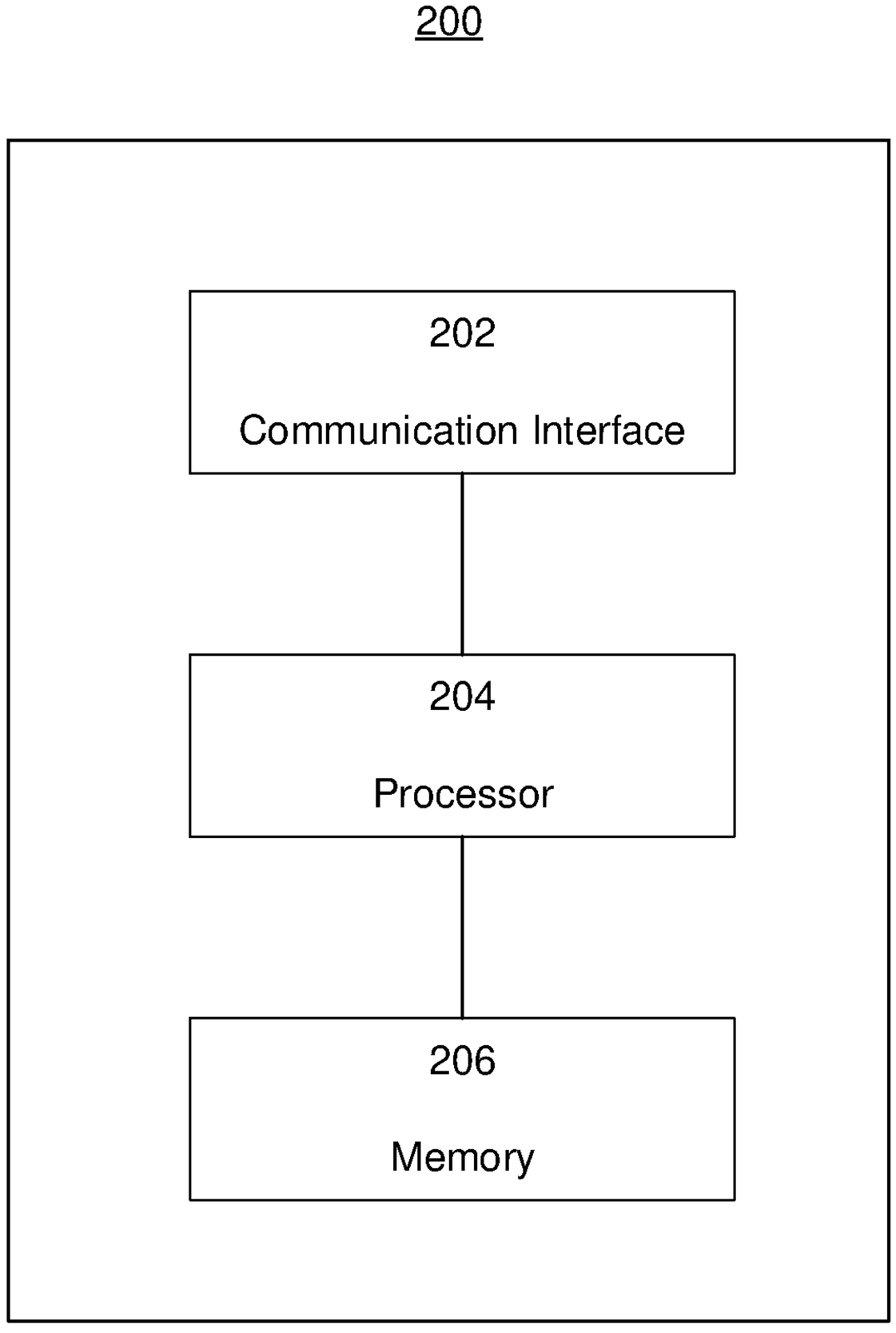


FIG. 2

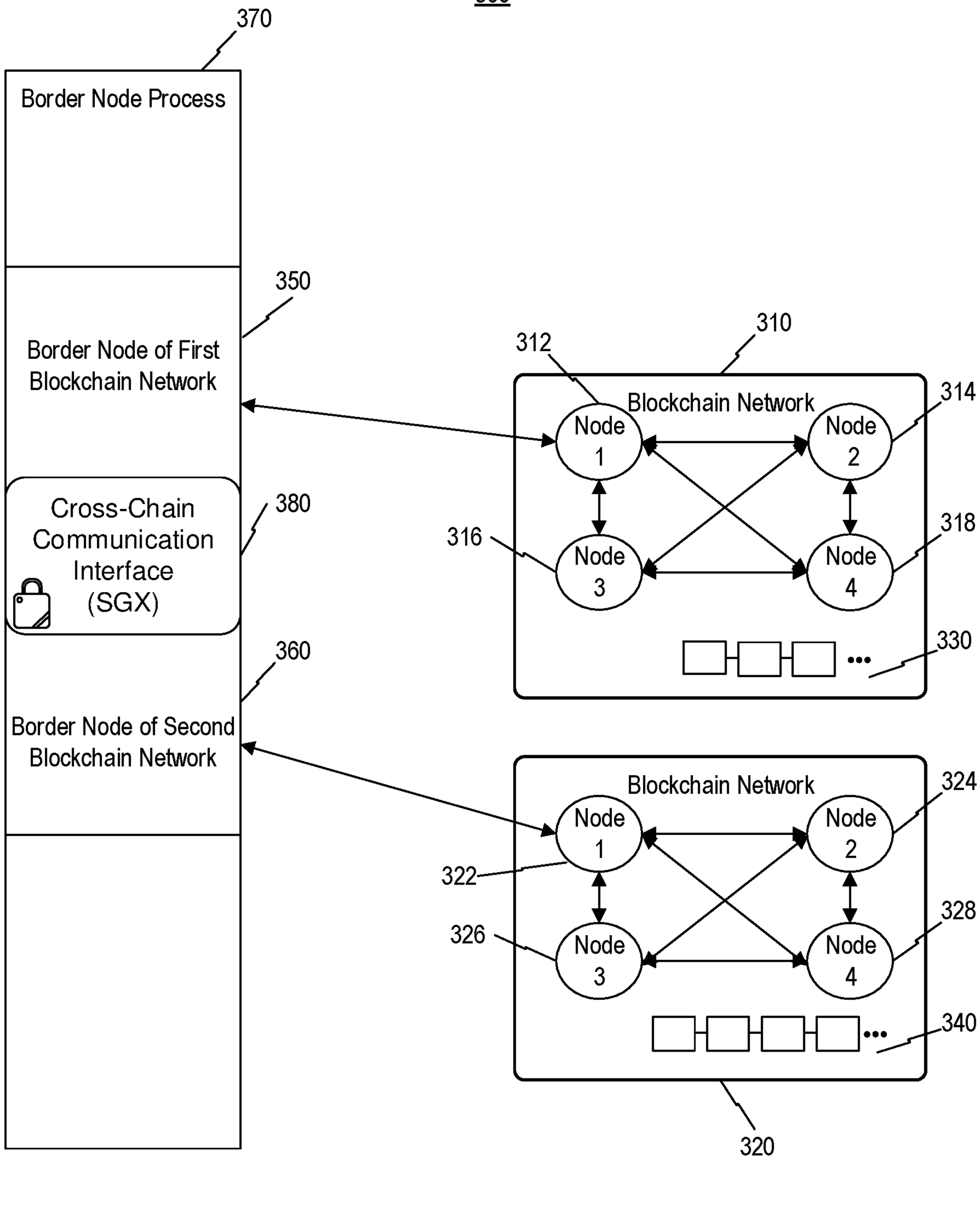

300
370
Border Node Process
350
Border Node of First Blockchain Network
380
Cross-Chain Communication Interface (SGX)
360
Border Node of Second Blockchain Network
310
312
Blockchain Network
Node 1
Node 2
Node 3
Node 4
314
316
318
330
320
322
324
326
328
340

FIG. 3

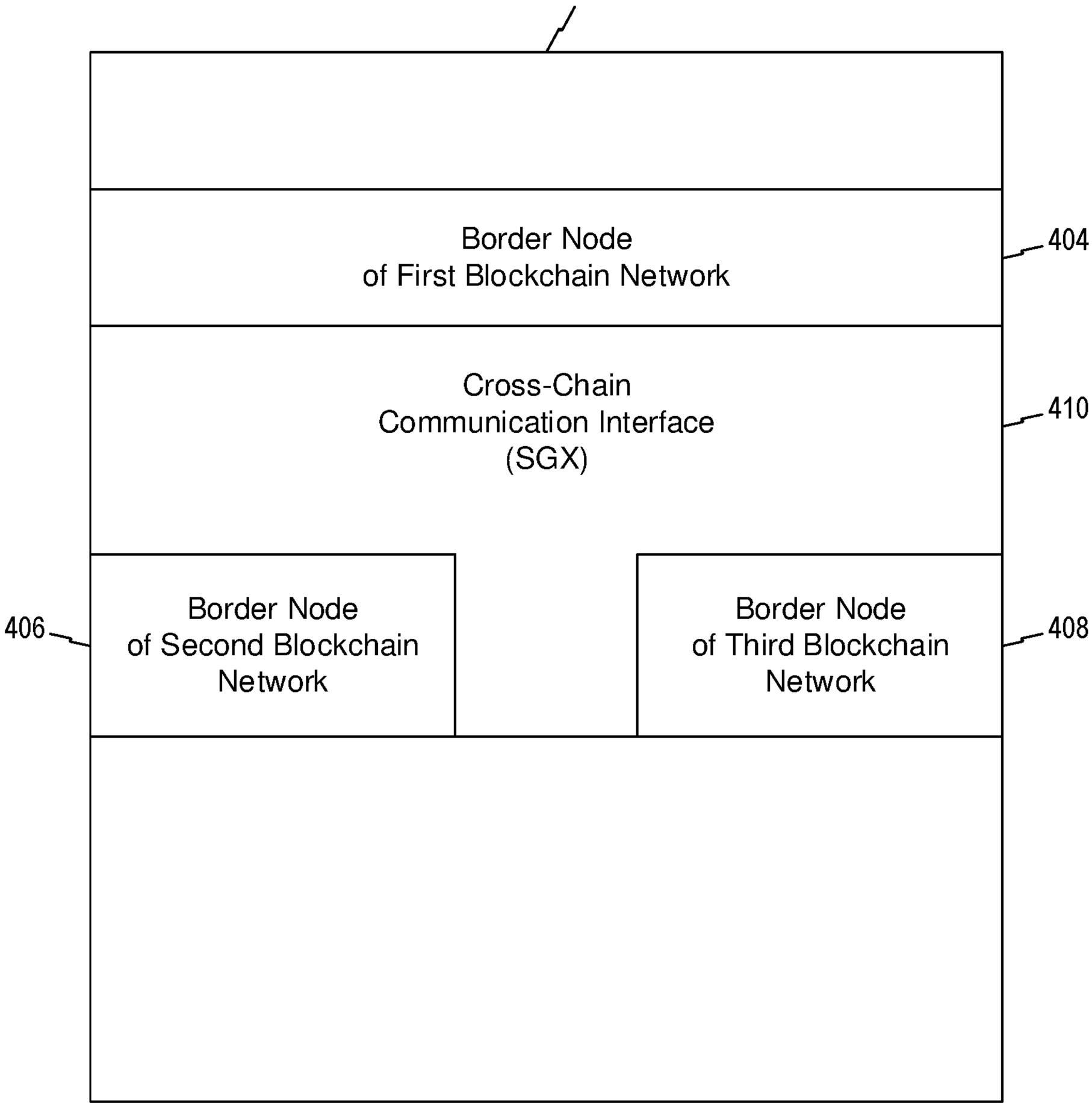

400
402
Border Node
of First Blockchain Network
404
Cross-Chain
Communication Interface
(SGX)
410
406
Border Node
of Second Blockchain
Network
Border Node
of Third Blockchain
Network
408

FIG. 4

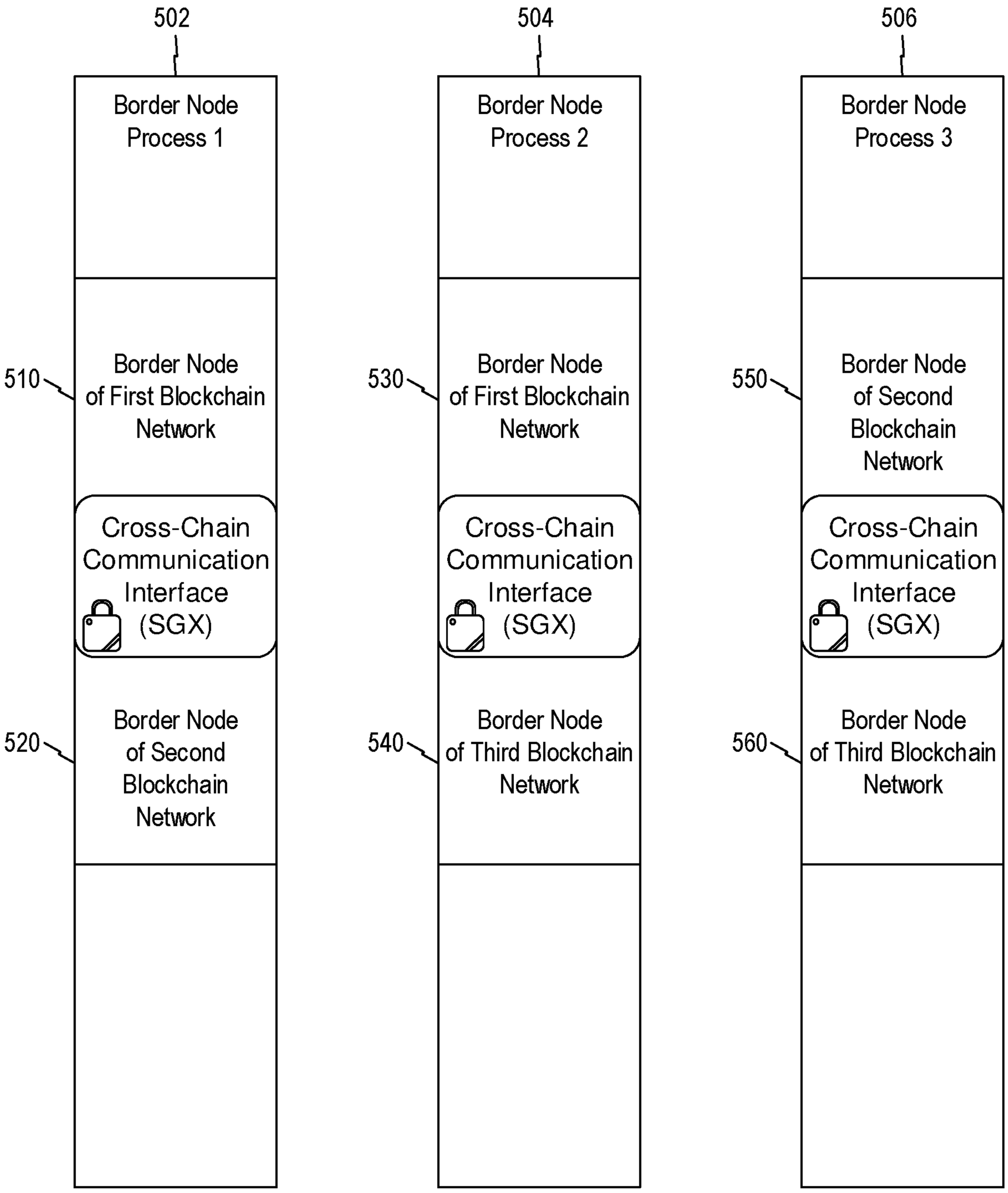

500
502
Border Node Process 1
510
Border Node of First Blockchain Network
Cross-Chain Communication Interface (SGX)
520
Border Node of Second Blockchain Network
504
Border Node Process 2
530
Border Node of First Blockchain Network
Cross-Chain Communication Interface (SGX)
540
Border Node of Third Blockchain Network
506
Border Node Process 3
550
Border Node of Second Blockchain Network
Cross-Chain Communication Interface (SGX)
560
Border Node of Third Blockchain Network

FIG. 5

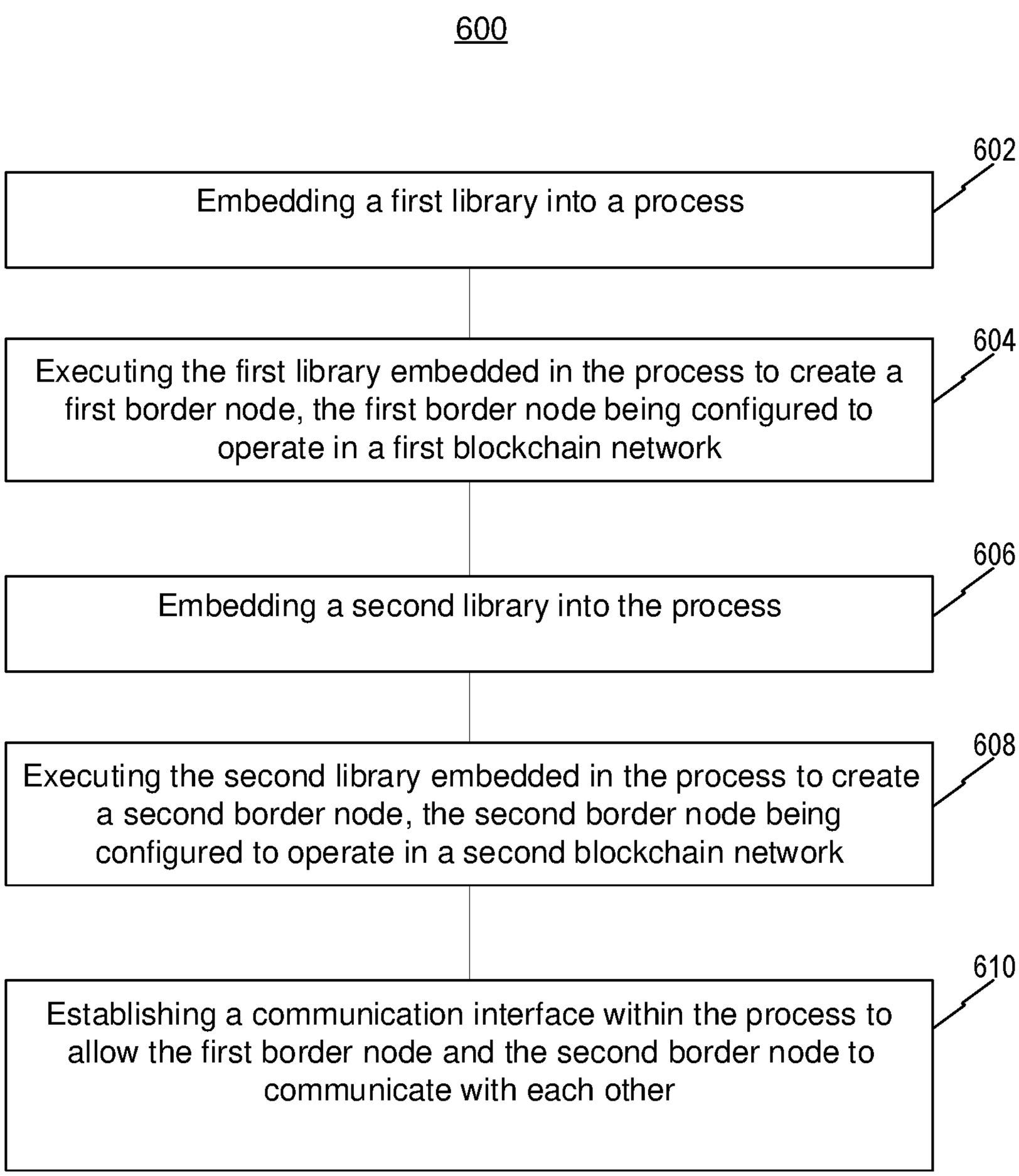

600
602
Embedding a first library into a process
604
Executing the first library embedded in the process to create a first border node, the first border node being configured to operate in a first blockchain network
606
Embedding a second library into the process
608
Executing the second library embedded in the process to create a second border node, the second border node being configured to operate in a second blockchain network
610
Establishing a communication interface within the process to allow the first border node and the second border node to communicate with each other

FIG. 6

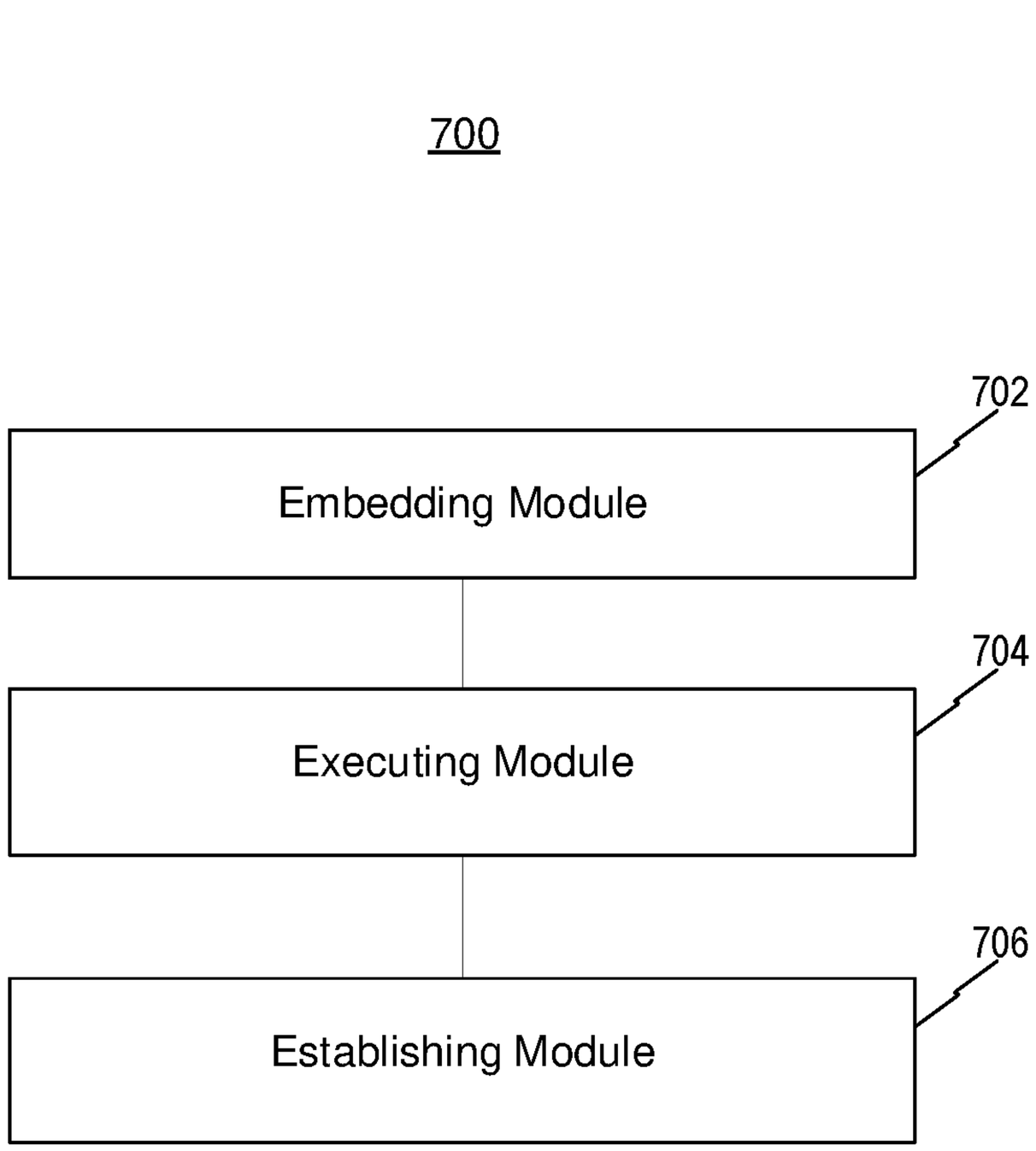

700
702
Embedding Module
704
Executing Module
706
Establishing Module

FIG. 7