

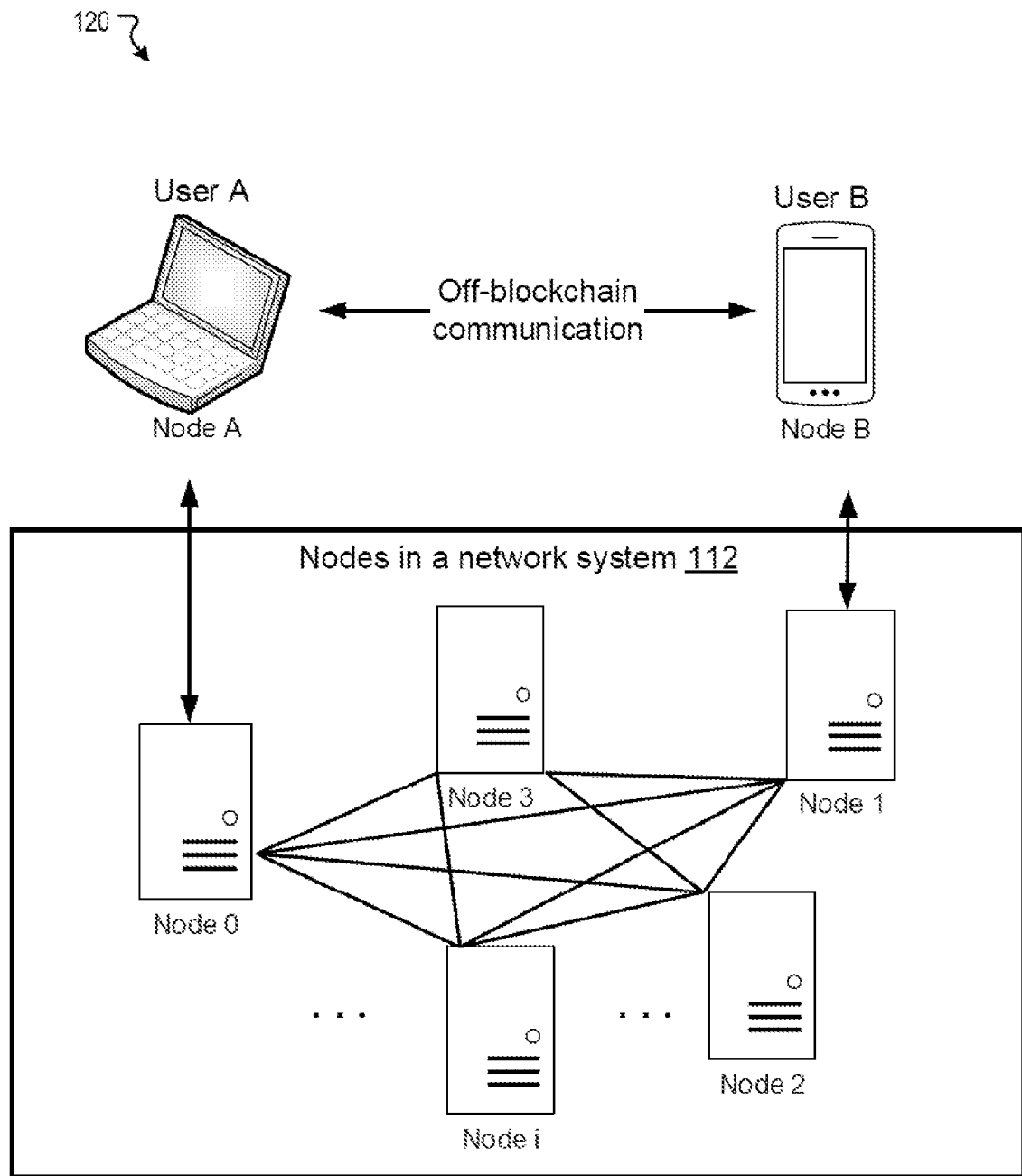


FIG. 1

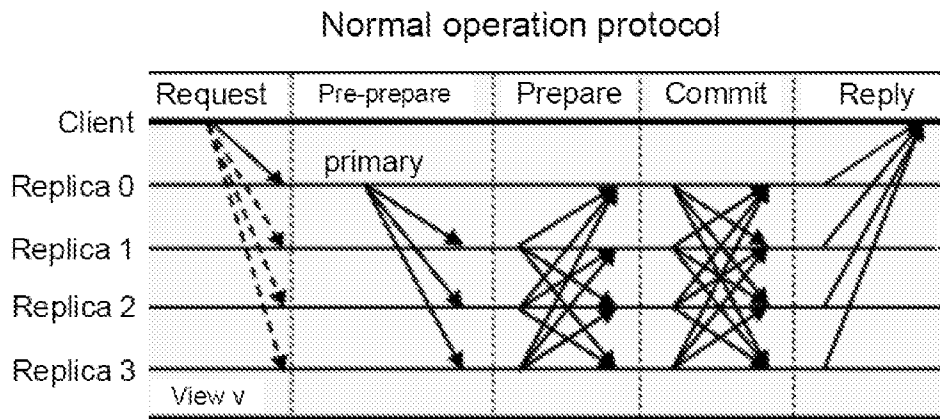


FIG. 2A

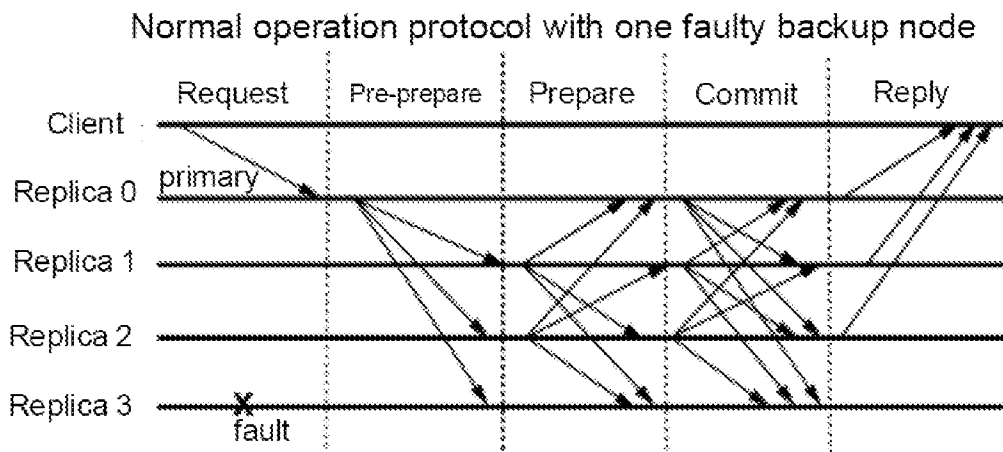


FIG. 2B

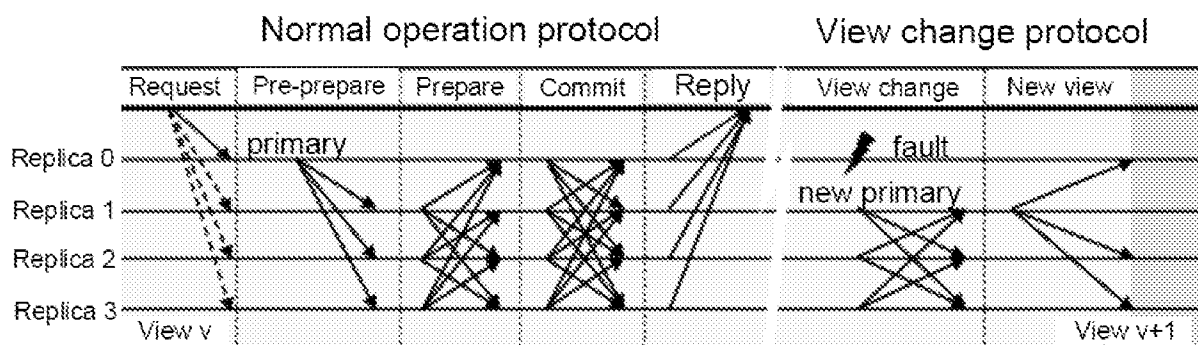
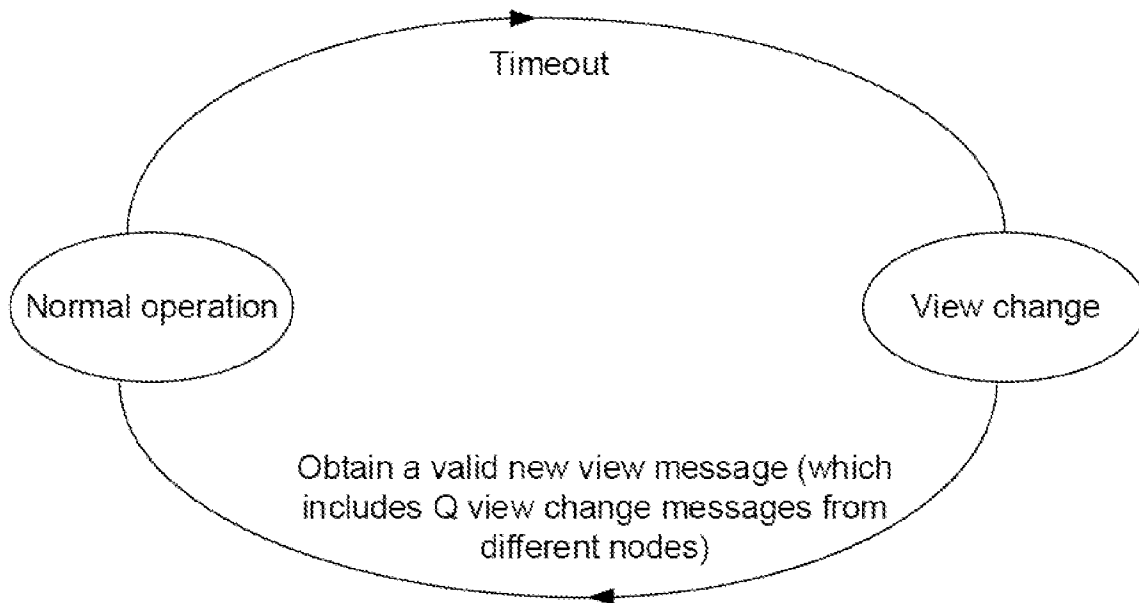
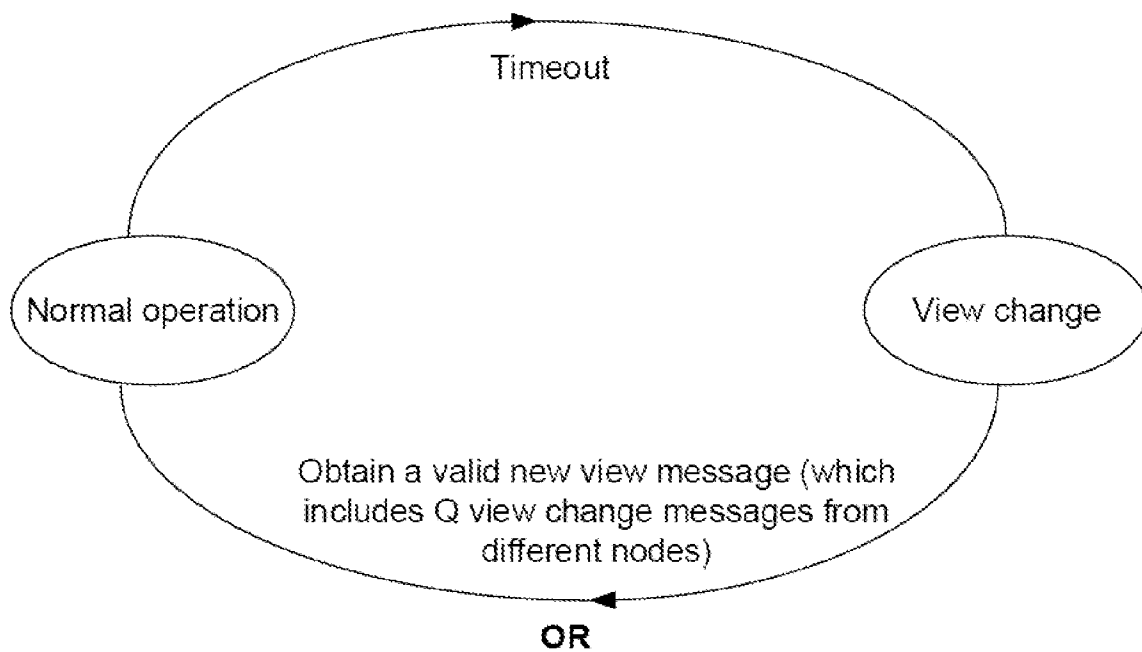


FIG. 2C

**FIG. 3A**

Obtain Q first messages each comprising a consistent current view and a consistent current sequence number

FIG. 3B

410 ↘

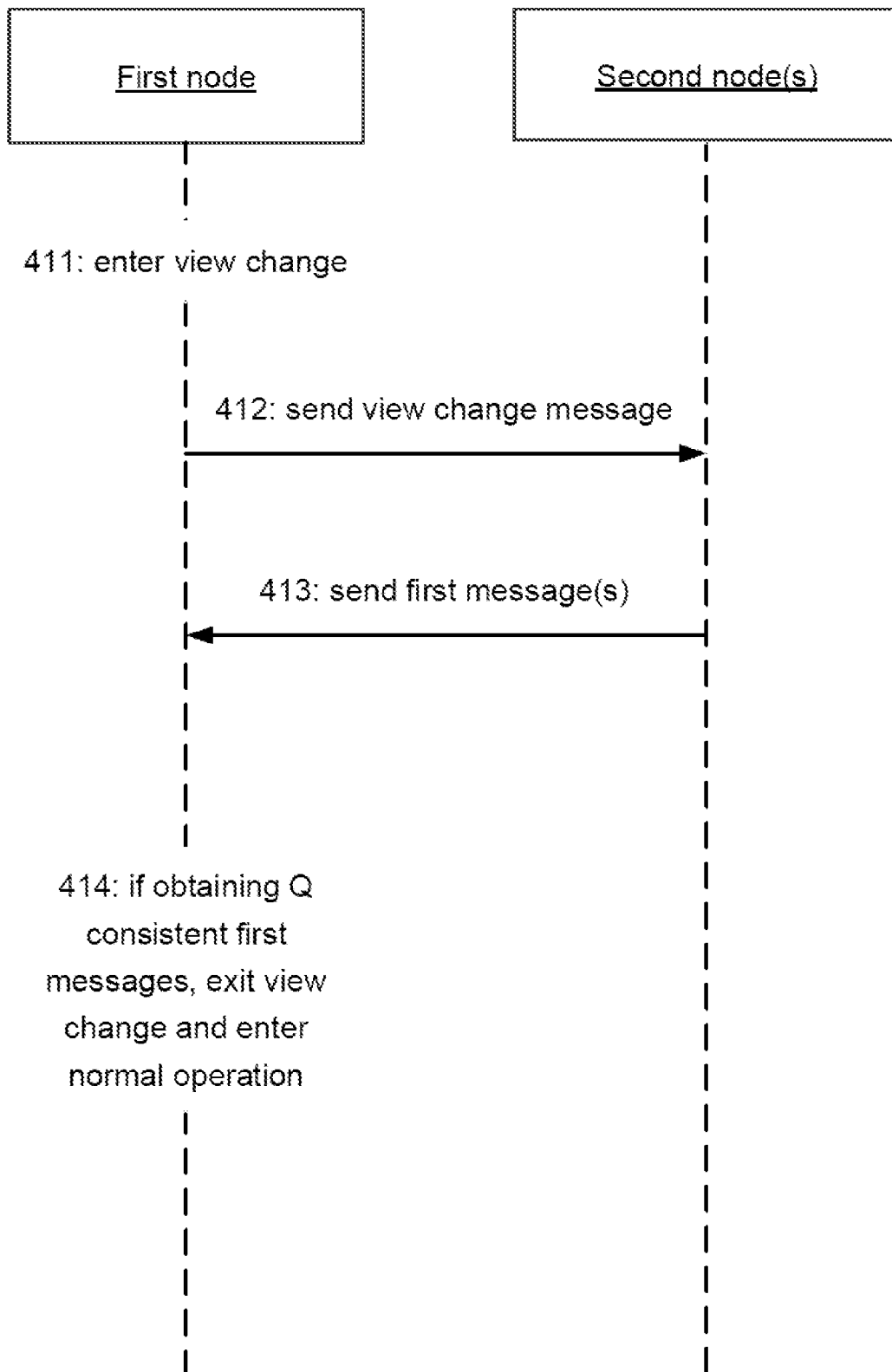


FIG. 4

510 ↘

511: obtaining, respectively from at least Q second nodes of the N nodes, at least Q first messages each comprising (1) a consistent current view known to the second node indicating a primary node designated among the N nodes and (2) a consistent current sequence number known to the second node, the current sequence number associated with a latest block or a latest transaction committed by the second node, wherein the current sequence number is larger than a first sequence number known to the first node, Q (quorum) is $(N+F+1)/2$ rounded up to the nearest integer, and F is $(N-1)/3$ rounded down to the nearest integer



512: responsive to obtaining the at least Q first messages, ending the view change protocol

FIG. 5A

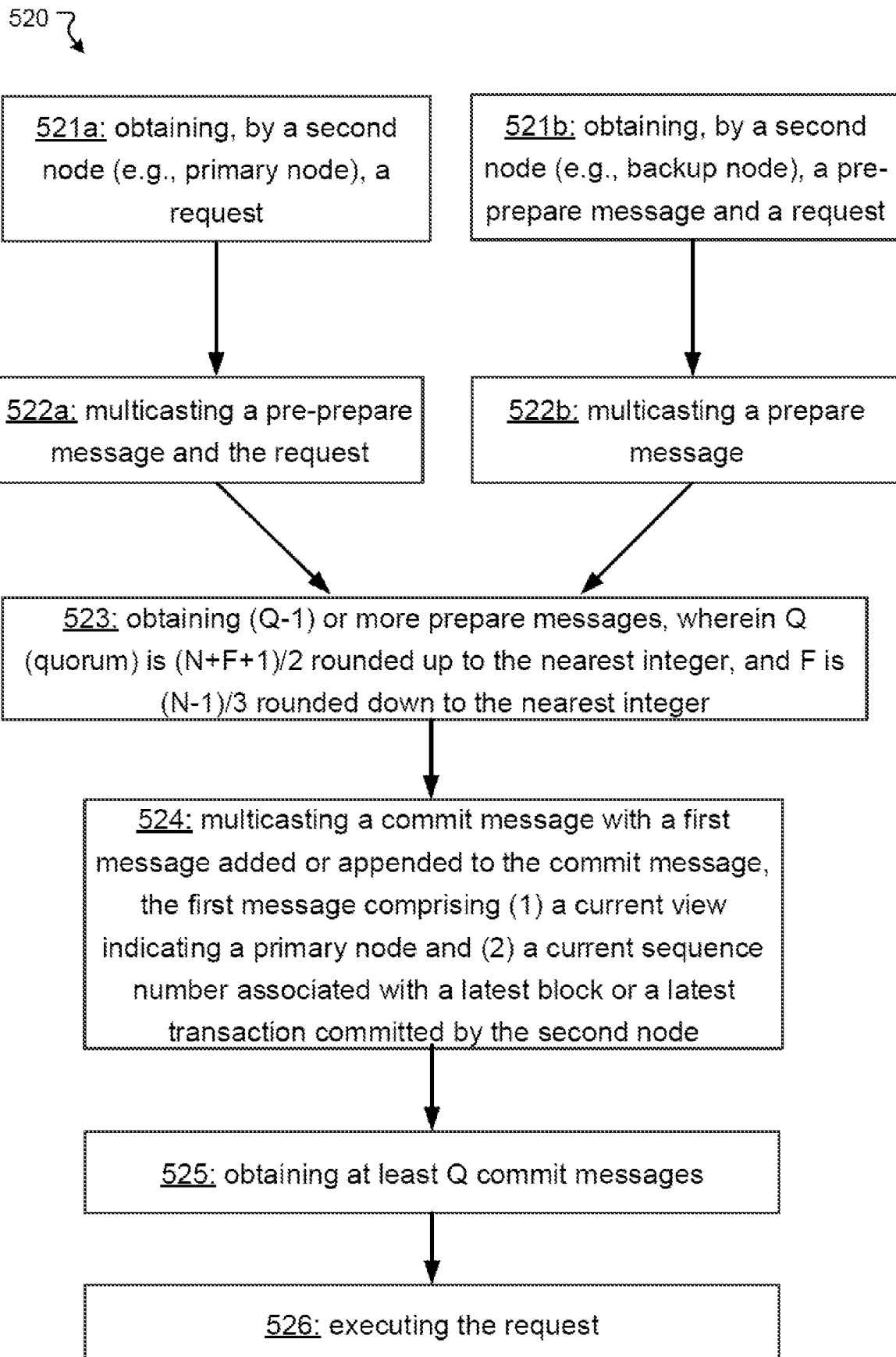


FIG. 5B

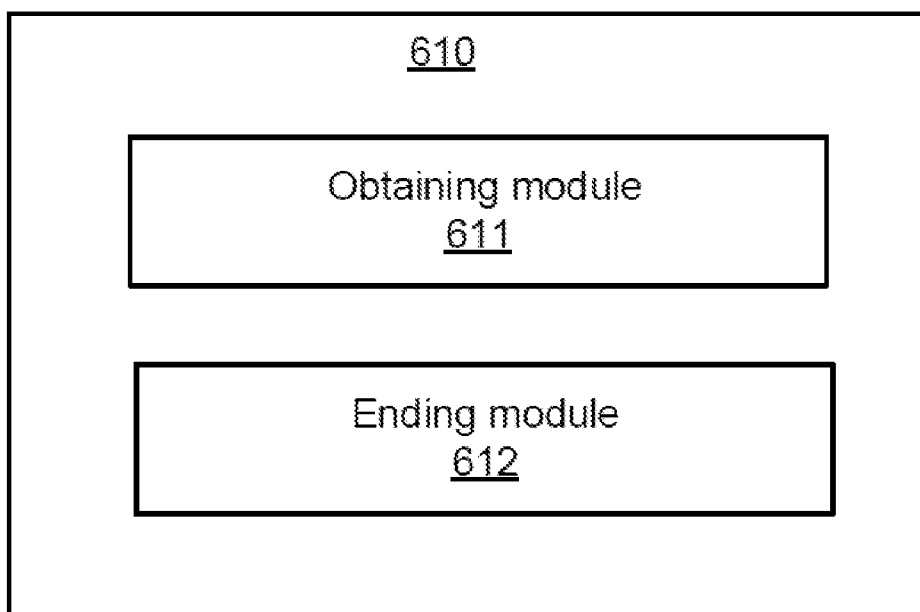
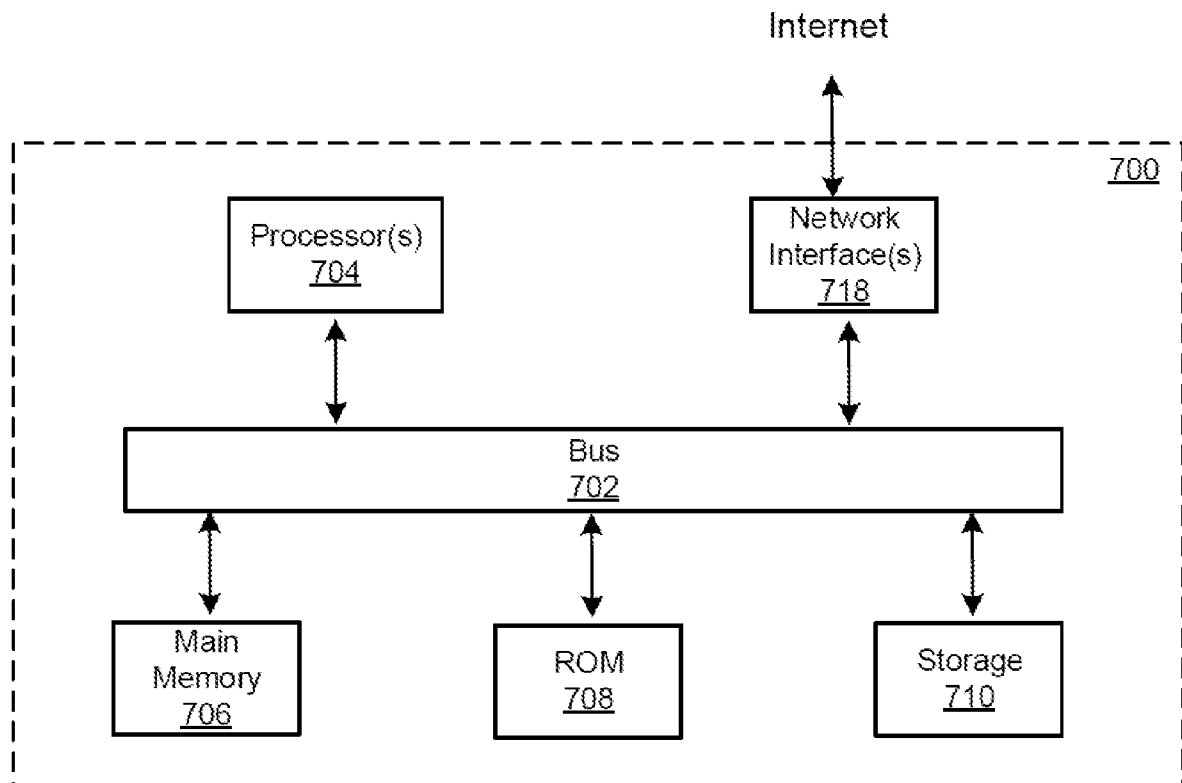


FIG. 6

**FIG. 7**