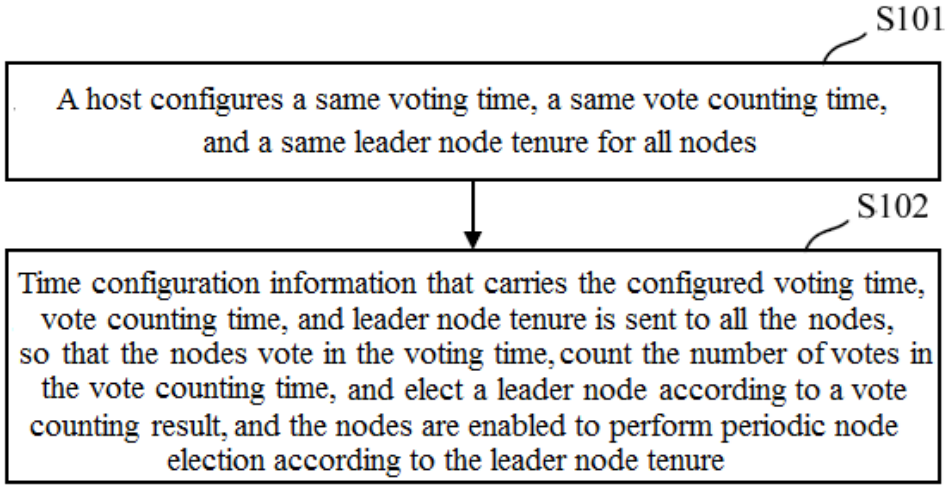
S101
A host configures a same voting time, a same vote counting time, and a same leader node tenure for all nodes
S102
Time configuration information that carries the configured voting time, vote counting time, and leader node tenure is sent to all the nodes, so that the nodes vote in the voting time, count the number of votes in the vote counting time, and elect a leader node according to a vote counting result, and the nodes are enabled to perform periodic node election according to the leader node tenure

FIG. 1

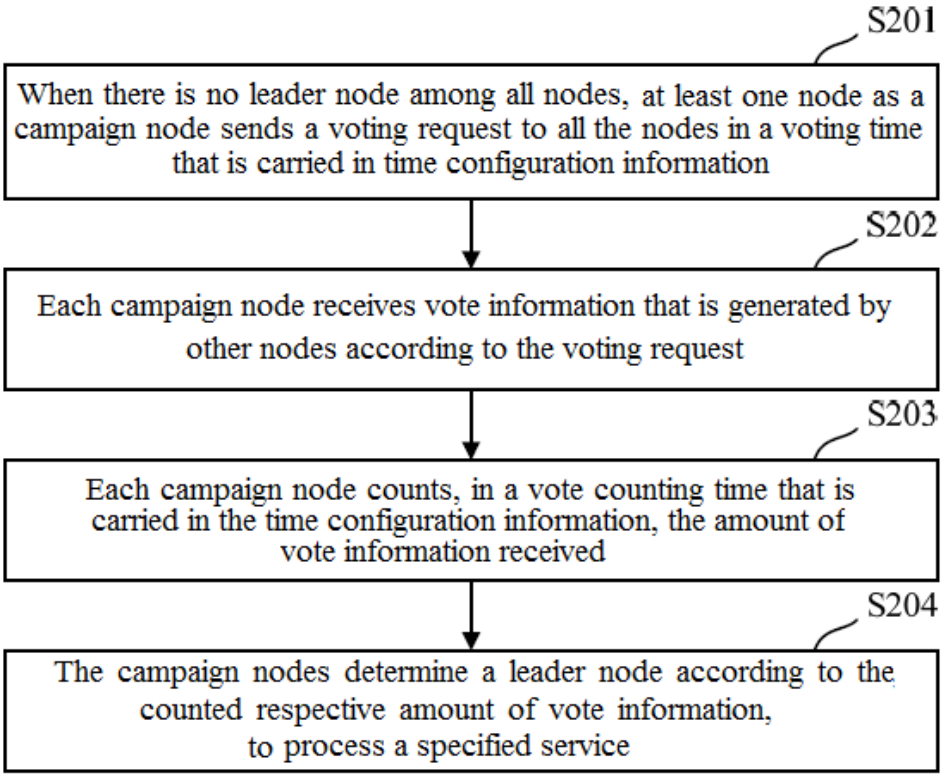
S201
When there is no leader node among all nodes, at least one node as a campaign node sends a voting request to all the nodes in a voting time that is carried in time configuration information
S202
Each campaign node receives vote information that is generated by other nodes according to the voting request
S203
Each campaign node counts, in a vote counting time that is carried in the time configuration information, the amount of vote information received
S204
The campaign nodes determine a leader node according to the counted respective amount of vote information, to process a specified service

FIG. 2

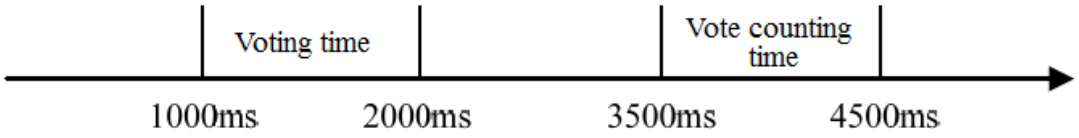

FIG. 3a

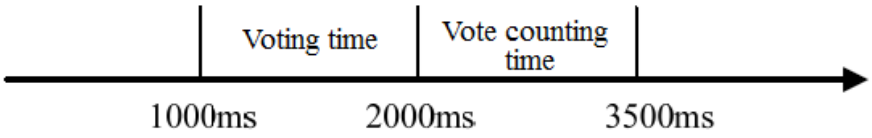

FIG. 3b

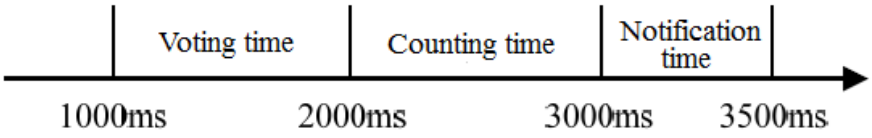

FIG. 3c

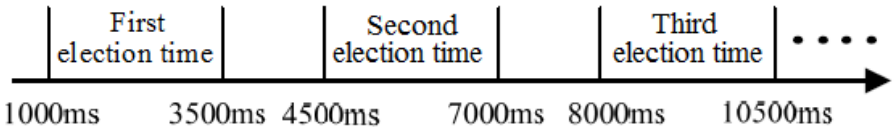

FIG. 3d

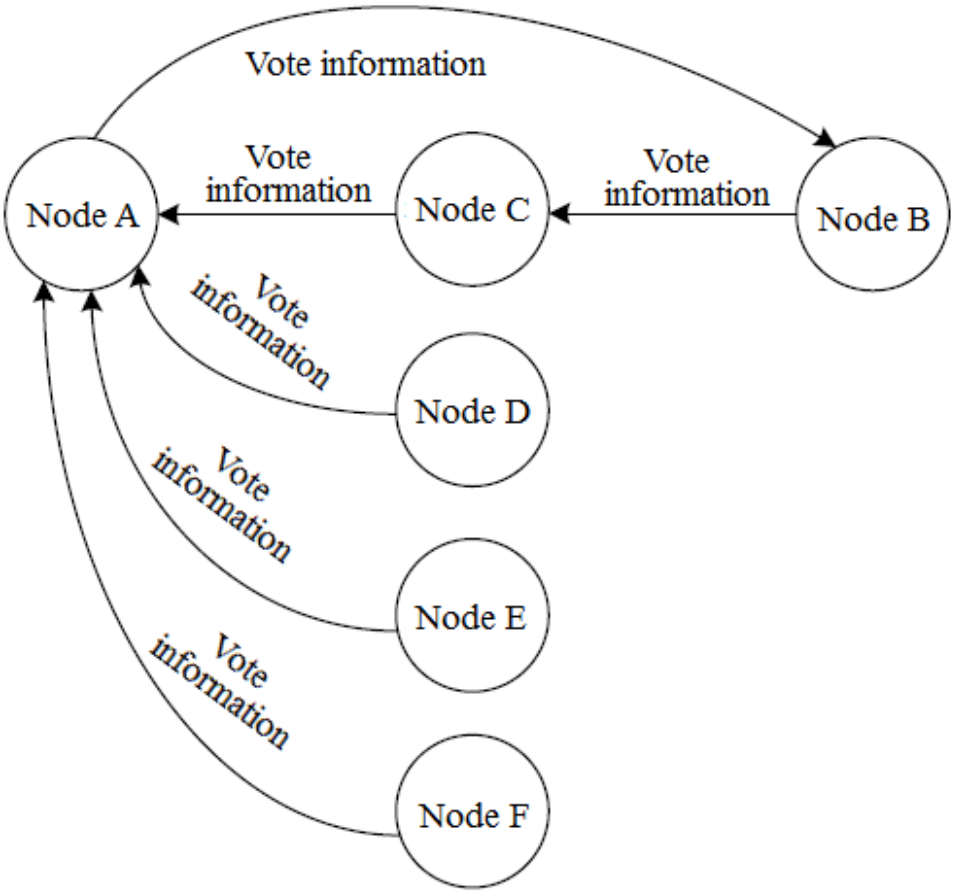
Vote information
Node A
Vote information
Node C
Vote information
Node B
Vote information
Node D
Vote information
Node E
Vote information
Node F

FIG. 4

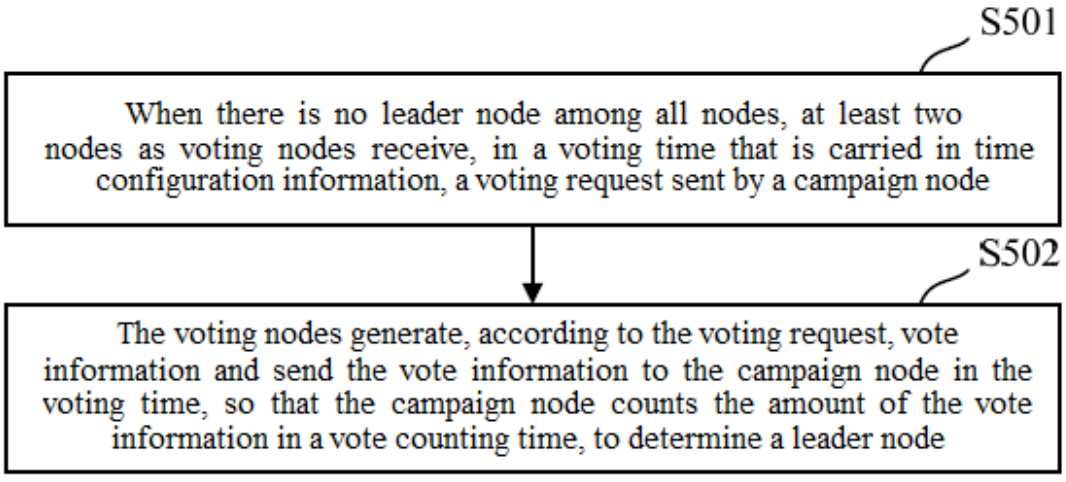
S501
When there is no leader node among all nodes, at least two nodes as voting nodes receive, in a voting time that is carried in time configuration information, a voting request sent by a campaign node
S502
The voting nodes generate, according to the voting request, vote information and send the vote information to the campaign node in the voting time, so that the campaign node counts the amount of the vote information in a vote counting time, to determine a leader node

FIG. 5

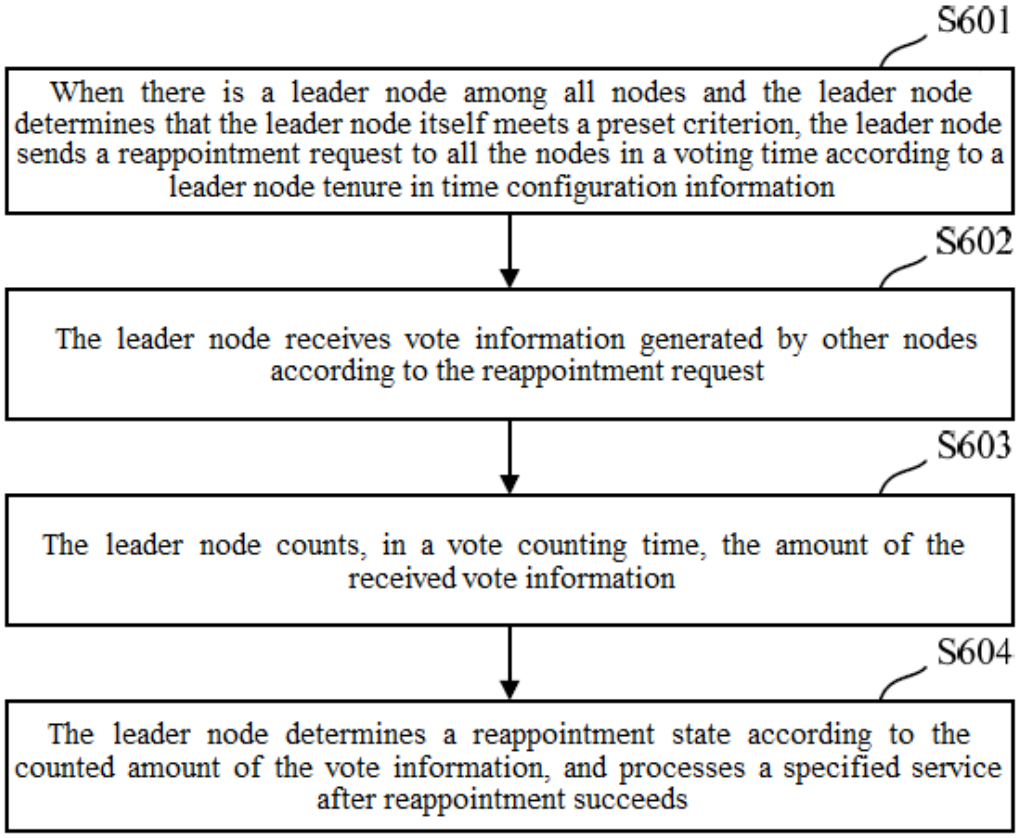
S601
When there is a leader node among all nodes and the leader node determines that the leader node itself meets a preset criterion, the leader node sends a reappointment request to all the nodes in a voting time according to a leader node tenure in time configuration information
S602
The leader node receives vote information generated by other nodes according to the reappointment request
S603
The leader node counts, in a vote counting time, the amount of the received vote information
S604
The leader node determines a reappointment state according to the counted amount of the vote information, and processes a specified service after reappointment succeeds

FIG. 6

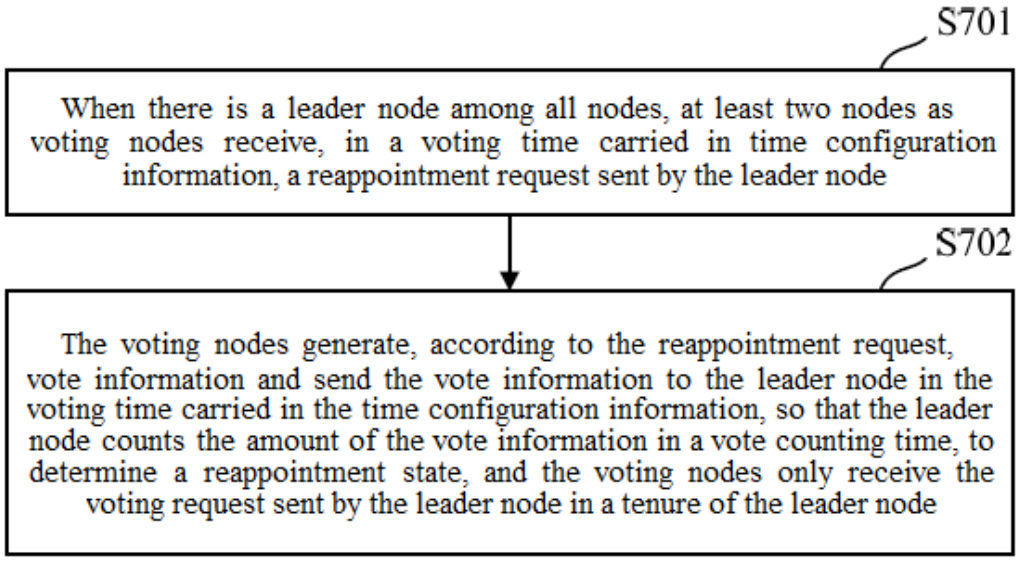
S701
When there is a leader node among all nodes, at least two nodes as voting nodes receive, in a voting time carried in time configuration information, a reappointment request sent by the leader node
S702
The voting nodes generate, according to the reappointment request, vote information and send the vote information to the leader node in the voting time carried in the time configuration information, so that the leader node counts the amount of the vote information in a vote counting time, to determine a reappointment state, and the voting nodes only receive the voting request sent by the leader node in a tenure of the leader node

FIG. 7

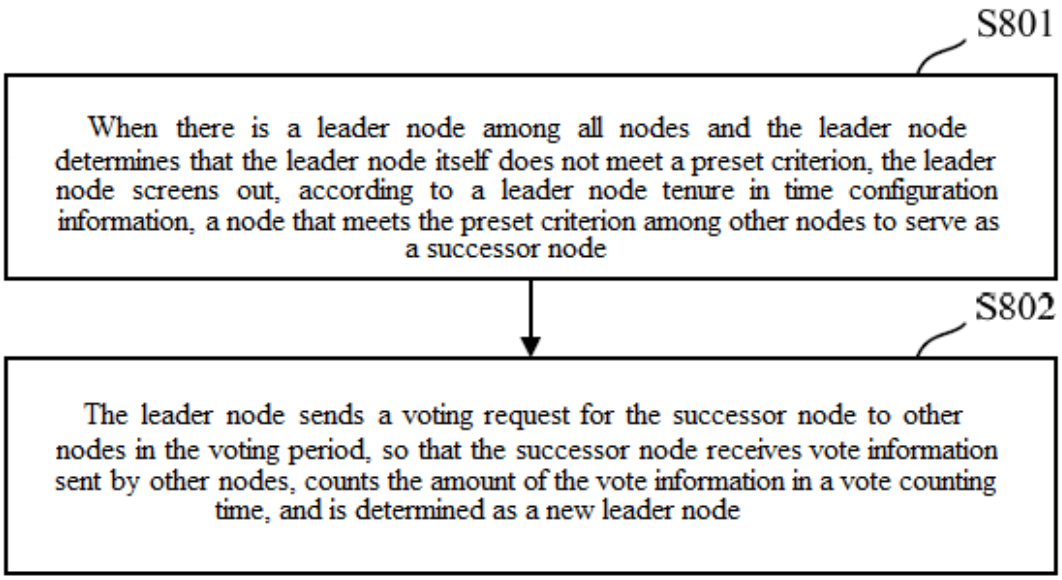
S801
When there is a leader node among all nodes and the leader node determines that the leader node itself does not meet a preset criterion, the leader node screens out, according to a leader node tenure in time configuration information, a node that meets the preset criterion among other nodes to serve as a successor node
S802
The leader node sends a voting request for the successor node to other nodes in the voting period, so that the successor node receives vote information sent by other nodes, counts the amount of the vote information in a vote counting time, and is determined as a new leader node

FIG. 8

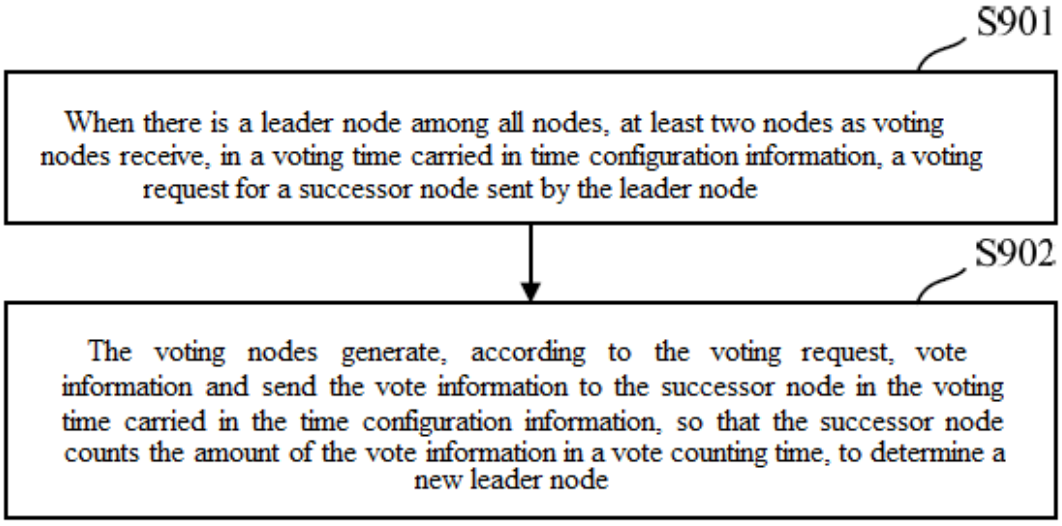
S901
When there is a leader node among all nodes, at least two nodes as voting nodes receive, in a voting time carried in time configuration information, a voting request for a successor node sent by the leader node
S902
The voting nodes generate, according to the voting request, vote information and send the vote information to the successor node in the voting time carried in the time configuration information, so that the successor node counts the amount of the vote information in a vote counting time, to determine a new leader node

FIG. 9

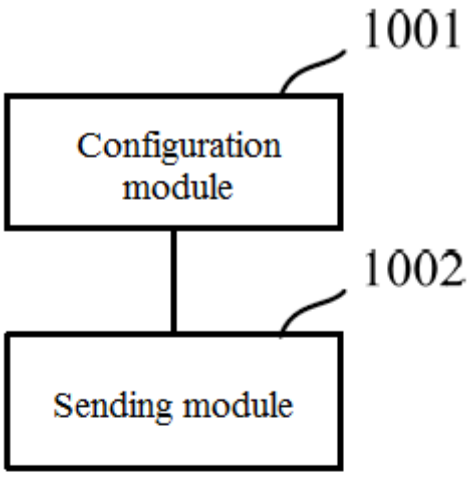
1001
Configuration module
1002
Sending module

FIG. 10

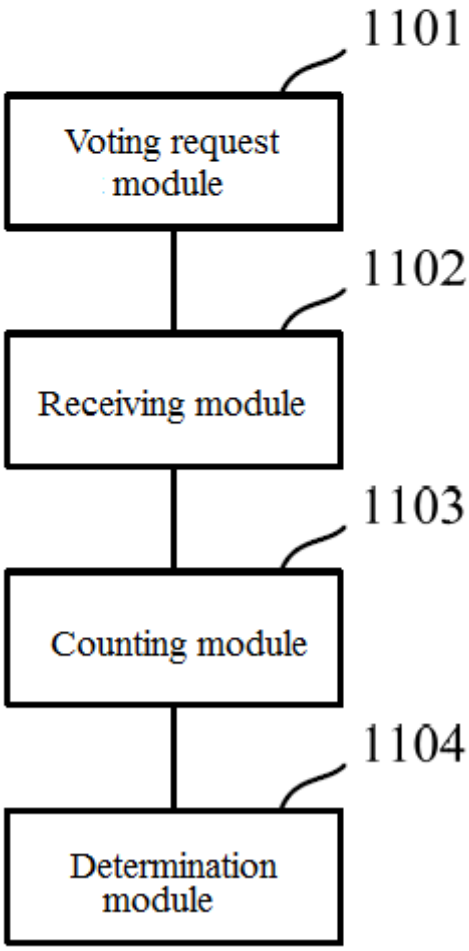
1101
Voting request module
1102
Receiving module
1103
Counting module
1104
Determination module

FIG. 11

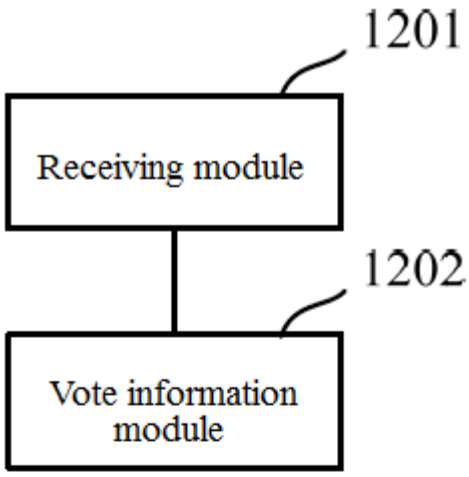
1201
Receiving module
1202
Vote information module

FIG. 12

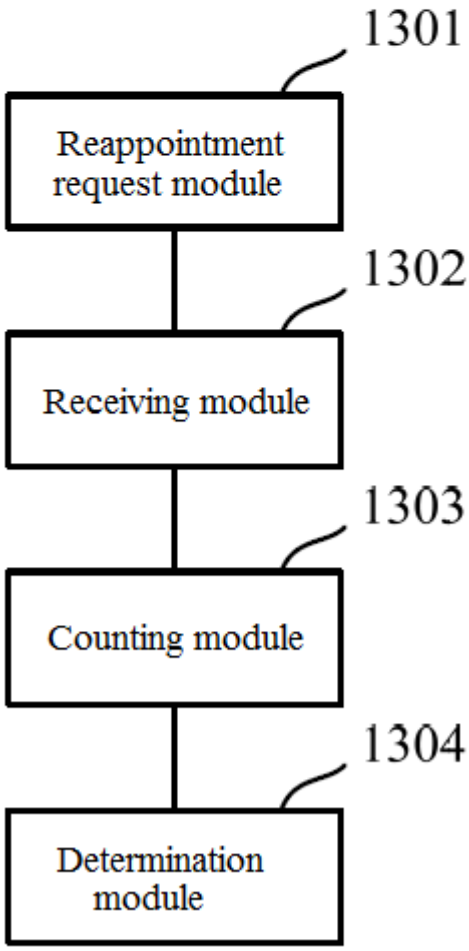
1301
Reappointment request module
1302
Receiving module
1303
Counting module
1304
Determination module

FIG. 13

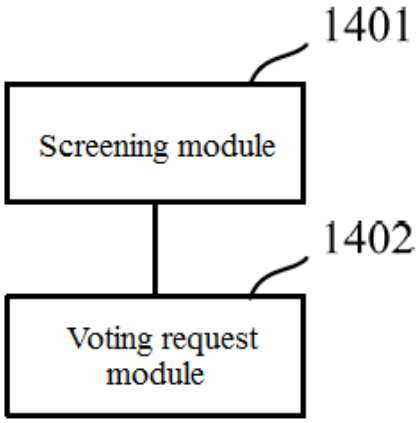

FIG. 14

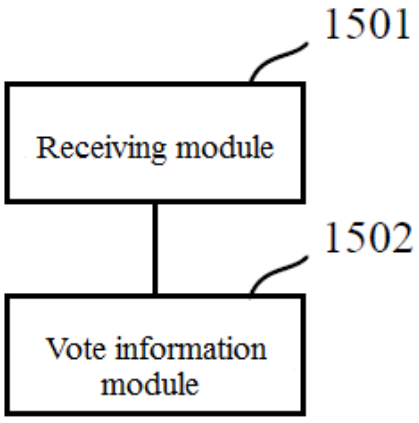

FIG. 15

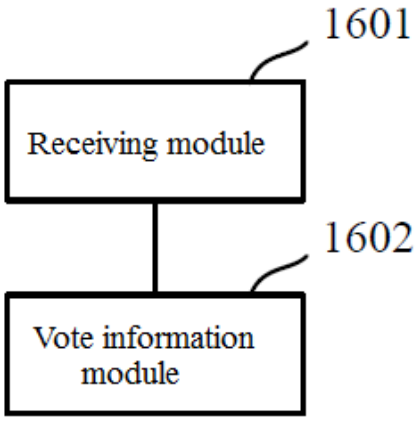

FIG. 16