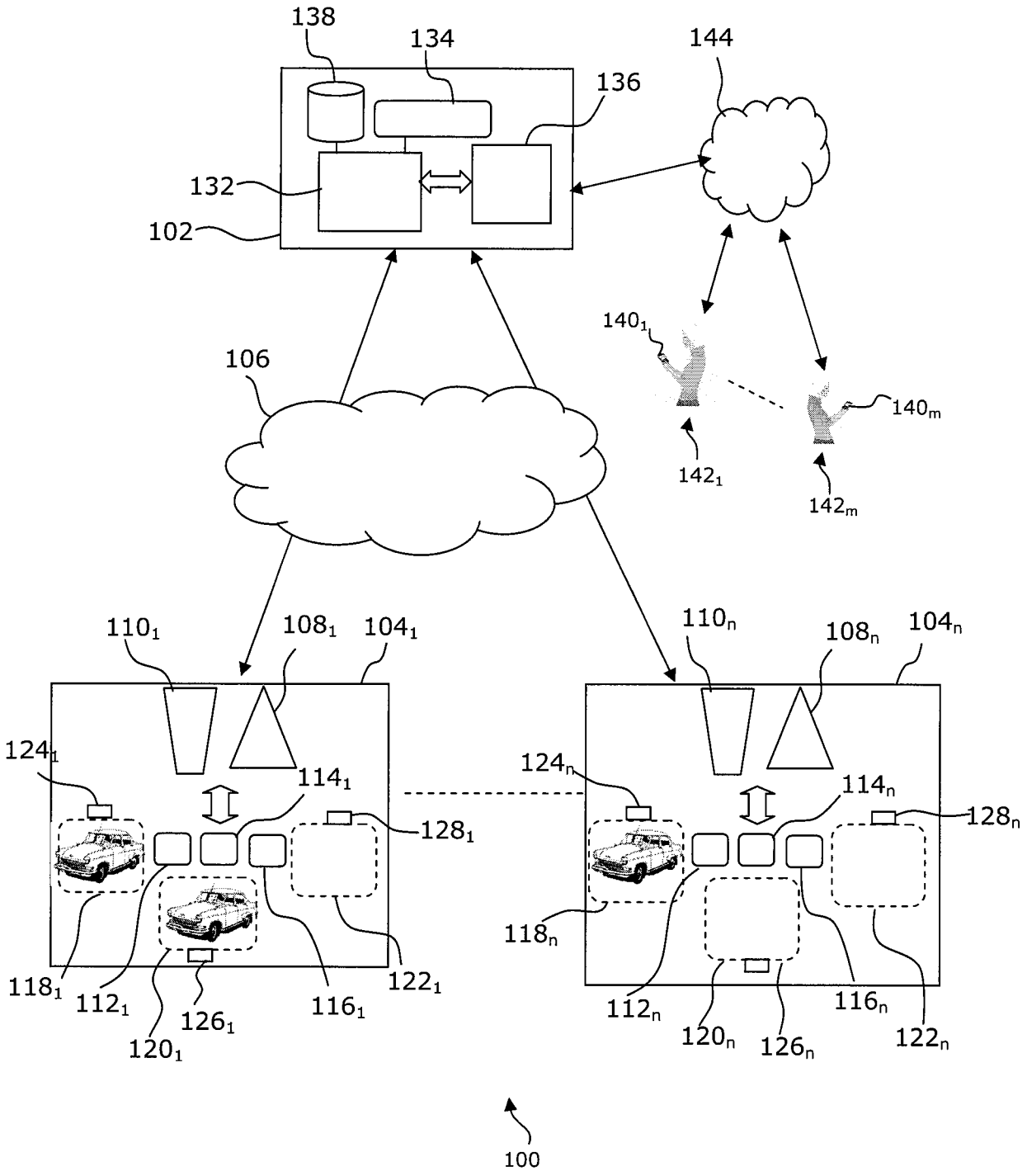

138
134
144
136
132
102
106
140_1
140_m
142_1
142_m
110_1
108_1
104_1
110_n
108_n
104_n
124_1
114_1
128_1
124_n
114_n
128_n
118_n
118_1
112_1
126_1
116_1
122_1
120_1
112_n
120_n
126_n
116_n
122_n
100

FIG.1

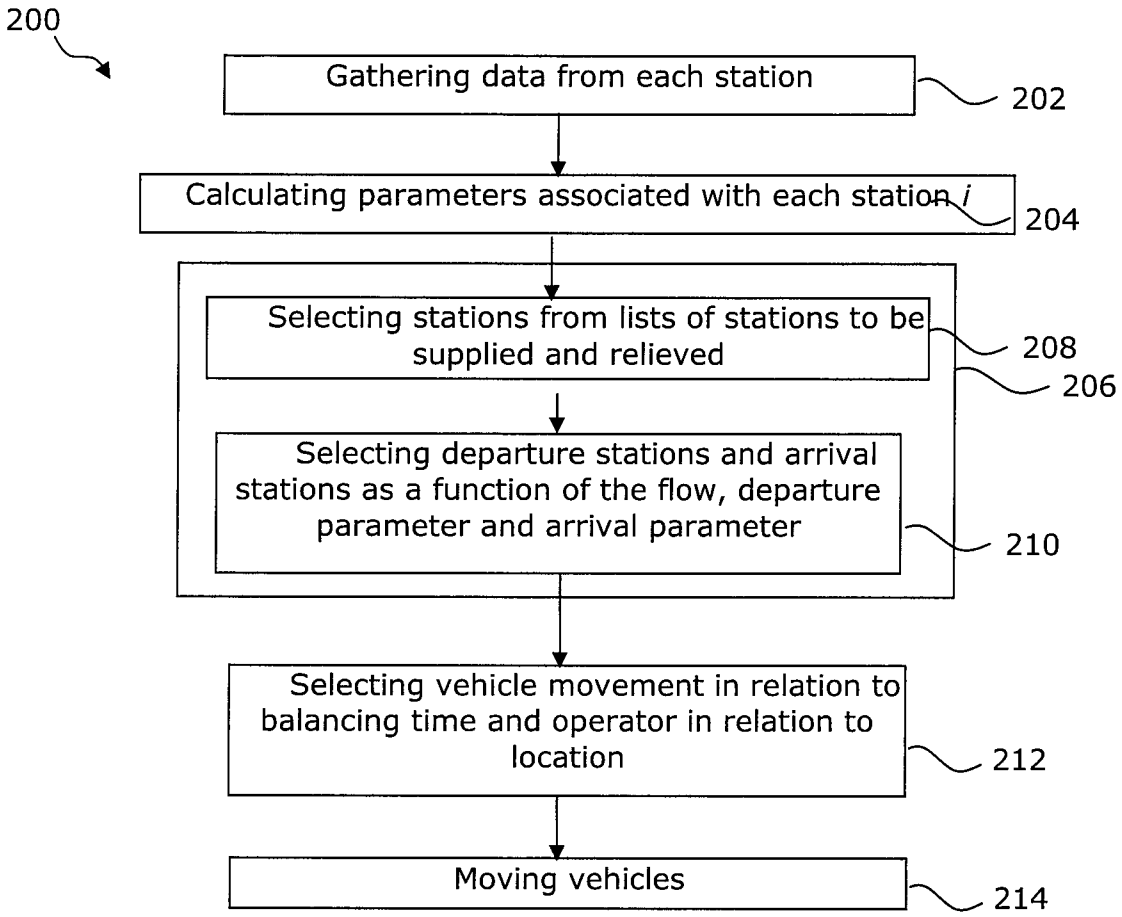

200
Gathering data from each station
202
Calculating parameters associated with each station i
204
Selecting stations from lists of stations to be supplied and relieved
208
206
Selecting departure stations and arrival stations as a function of the flow, departure parameter and arrival parameter
210
Selecting vehicle movement in relation to balancing time and operator in relation to location
212
Moving vehicles
214

FIG. 2

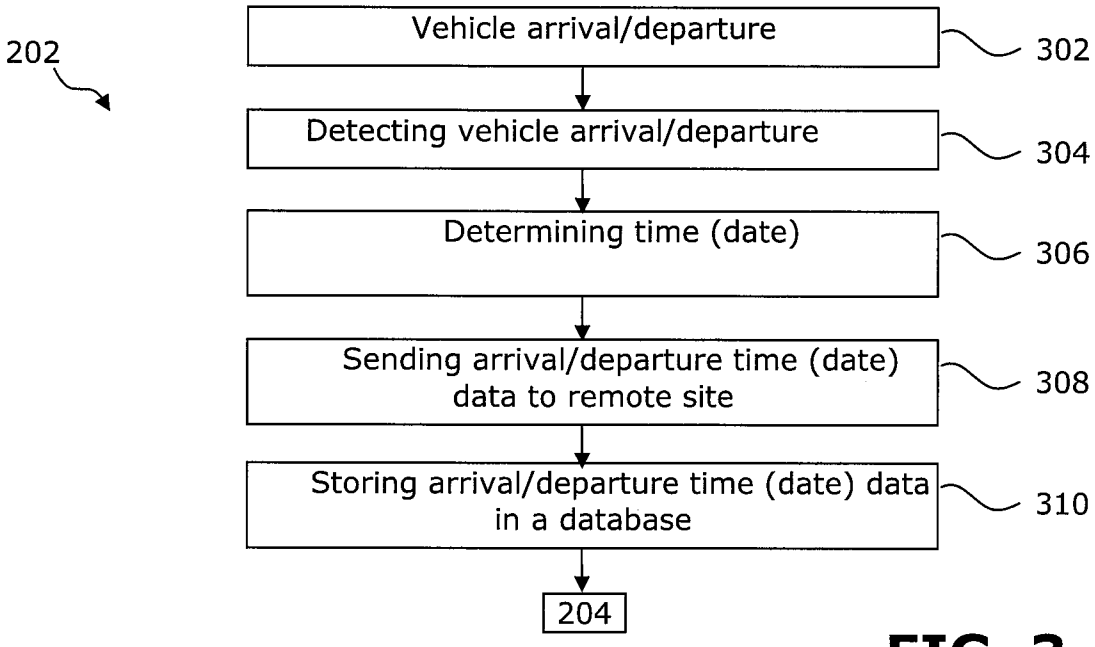

202
Vehicle arrival/departure
302
Detecting vehicle arrival/departure
304
Determining time (date)
306
Sending arrival/departure time (date) data to remote site
308
Storing arrival/departure time (date) data in a database
310
204

FIG. 3

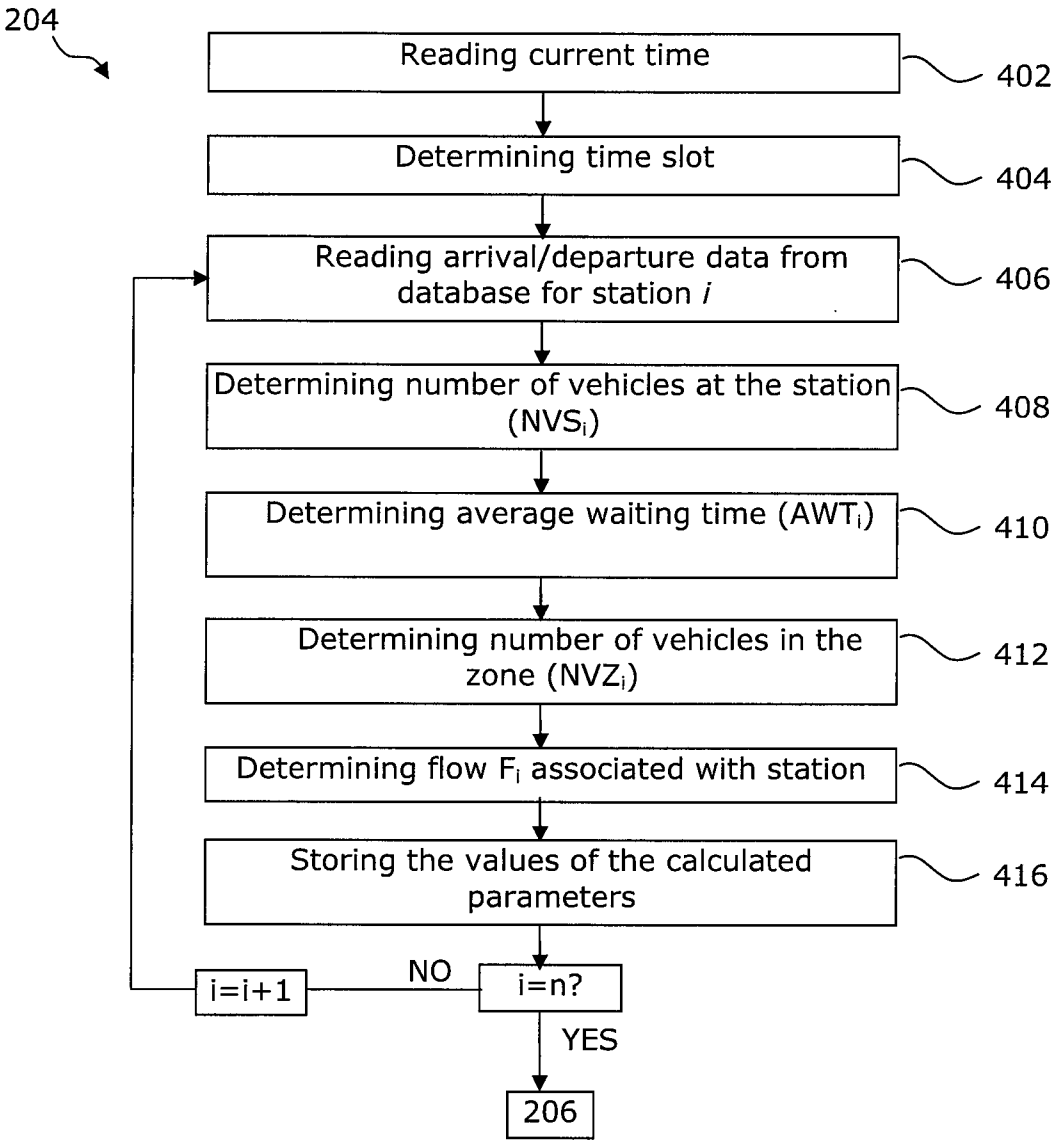

204
Reading current time
402
Determining time slot
404
Reading arrival/departure data from database for station i
406
Determining number of vehicles at the station (NVS_i)
408
Determining average waiting time (AWT_i)
410
Determining number of vehicles in the zone (NVZ_i)
412
Determining flow F_i associated with station
414
Storing the values of the calculated parameters
416
i=n?
NO
i=i+1
YES
206

FIG. 4

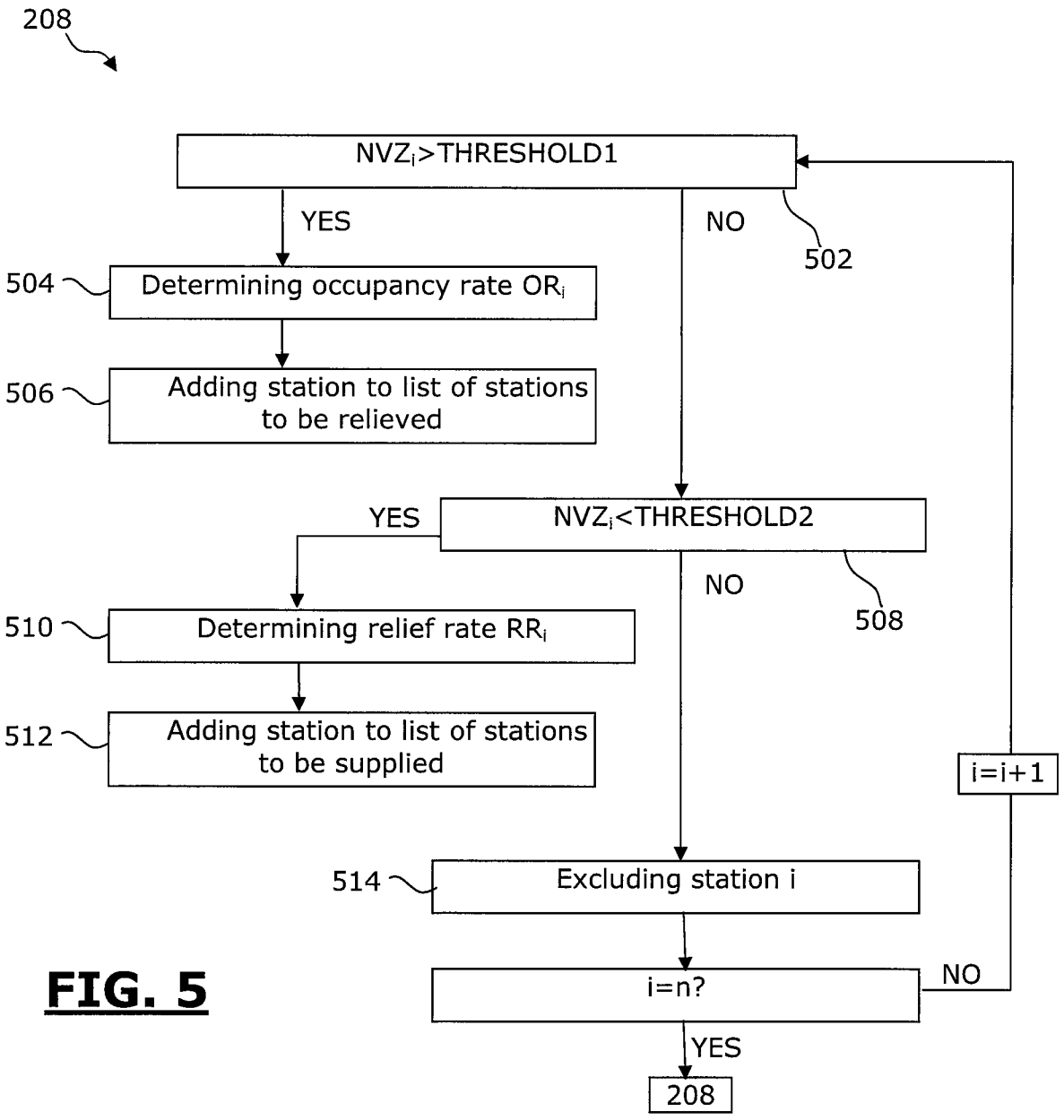

208
NVZi>THRESHOLD1
YES
NO
502
504
Determining occupancy rate ORi
506
Adding station to list of stations to be relieved
YES
NVZi<THRESHOLD2
NO
508
510
Determining relief rate RRi
512
Adding station to list of stations to be supplied
i=i+1
514
Excluding station i
i=n?
NO
YES
208

FIG. 5

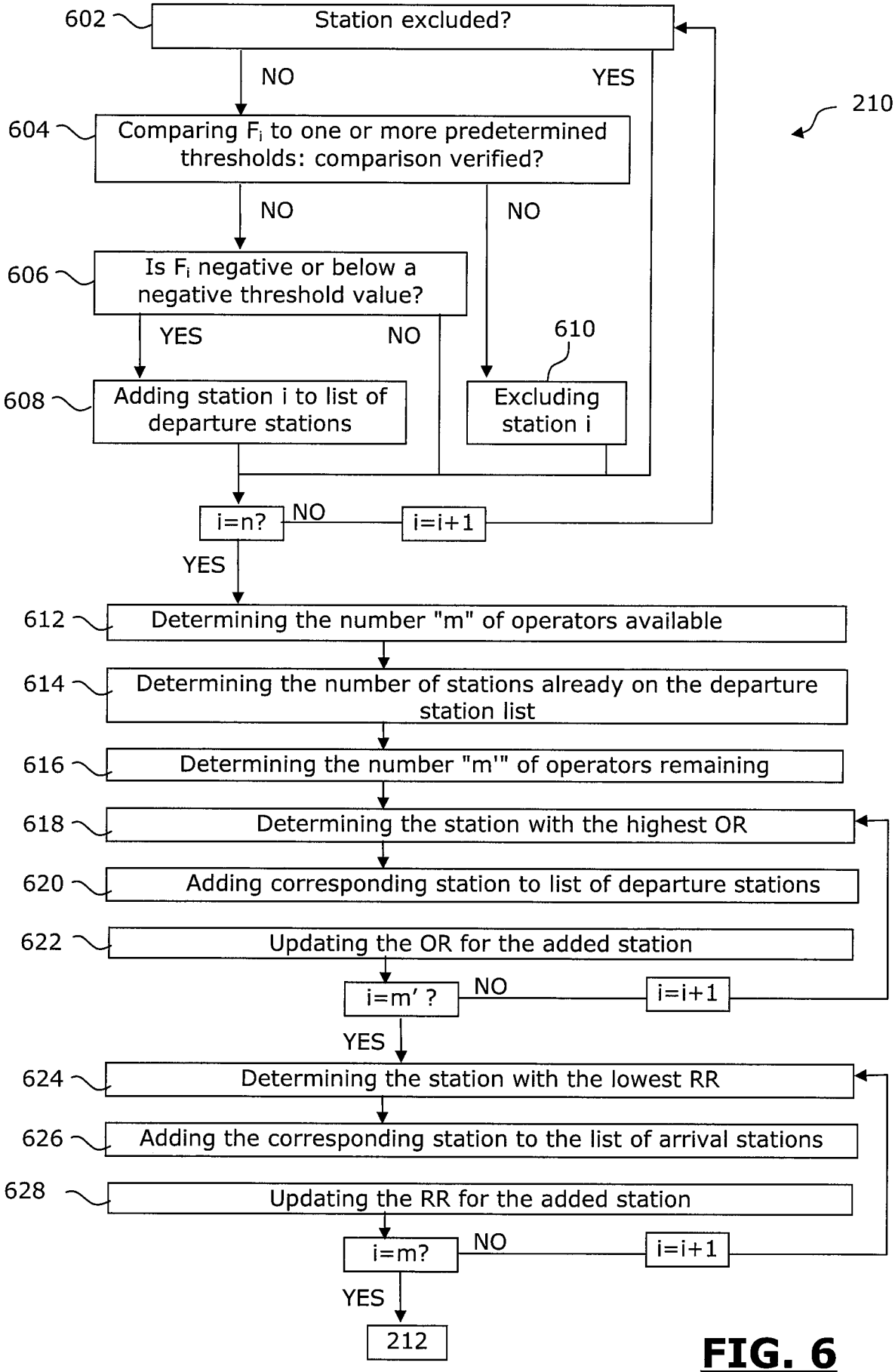

602
Station excluded?
NO
YES
210
604
Comparing F_i to one or more predetermined thresholds: comparison verified?
NO
NO
606
Is F_i negative or below a negative threshold value?
YES
NO
610
608
Adding station i to list of departure stations
Excluding station i
i=n?
NO
i=i+1
YES
612
Determining the number "m" of operators available
614
Determining the number of stations already on the departure station list
616
Determining the number "m'" of operators remaining
618
Determining the station with the highest OR
620
Adding corresponding station to list of departure stations
622
Updating the OR for the added station
i=m' ?
NO
i=i+1
YES
624
Determining the station with the lowest RR
626
Adding the corresponding station to the list of arrival stations
628
Updating the RR for the added station
i=m?
NO
i=i+1
YES
212

FIG. 6

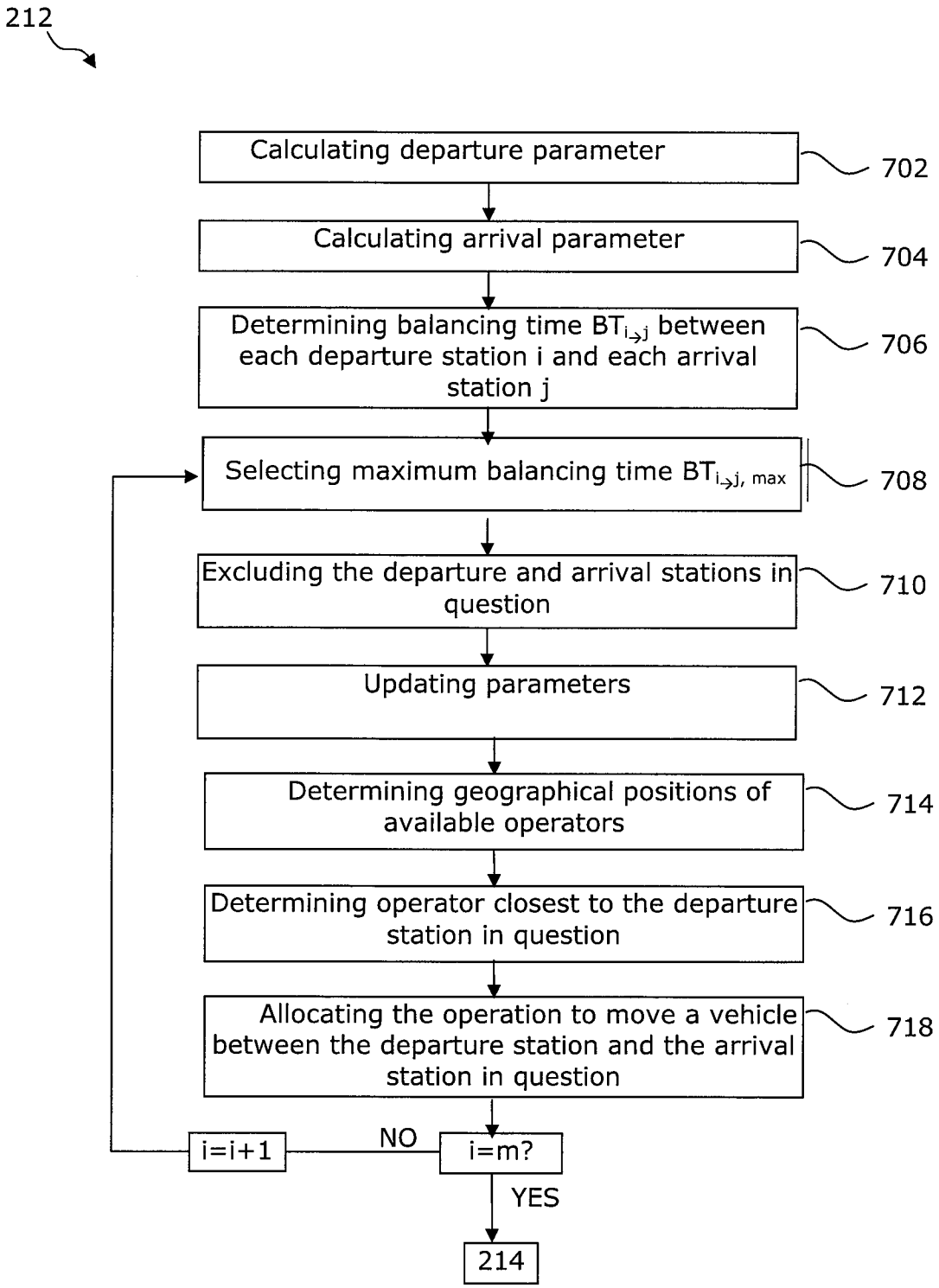

212
Calculating departure parameter
702
Calculating arrival parameter
704
Determining balancing time $BT_{i\to j}$ between each departure station i and each arrival station j
706
Selecting maximum balancing time $BT_{i\to j,\ max}$
708
Excluding the departure and arrival stations in question
710
Updating parameters
712
Determining geographical positions of available operators
714
Determining operator closest to the departure station in question
716
Allocating the operation to move a vehicle between the departure station and the arrival station in question
718
i=m?
NO
i=i+1
YES
214

FIG. 7