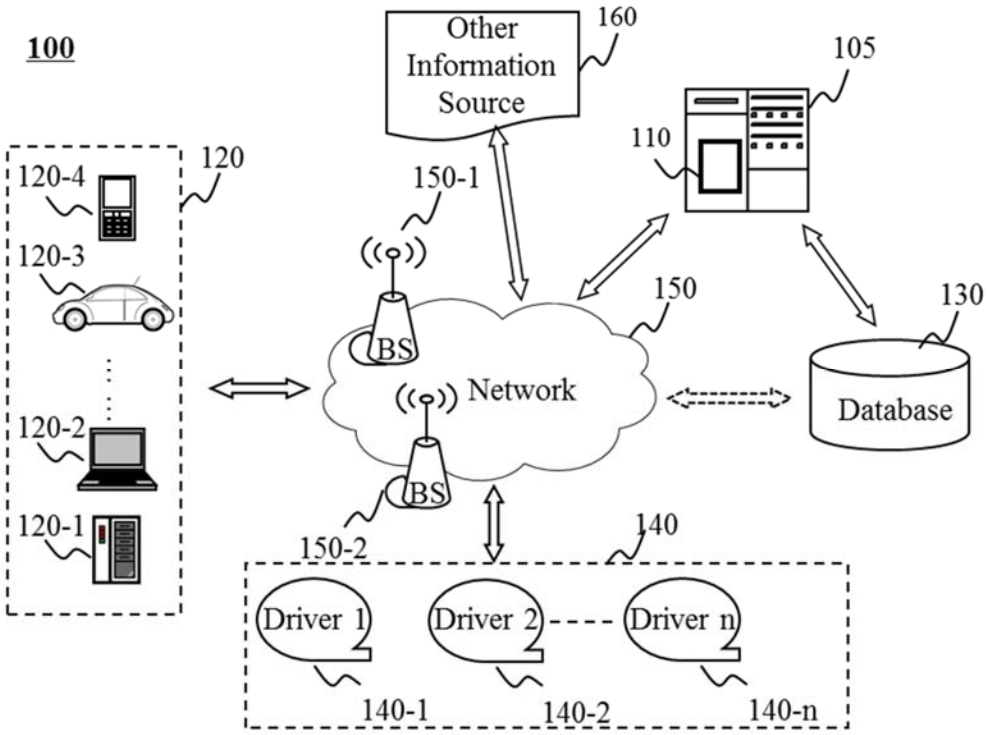

100
Other Information Source
160
105
110
120
120-4
120-3
120-2
120-1
150-1
150
130
BS
Network
Database
BS
150-2
140
Driver 1
Driver 2
Driver n
140-1
140-2
140-n

FIG. 1

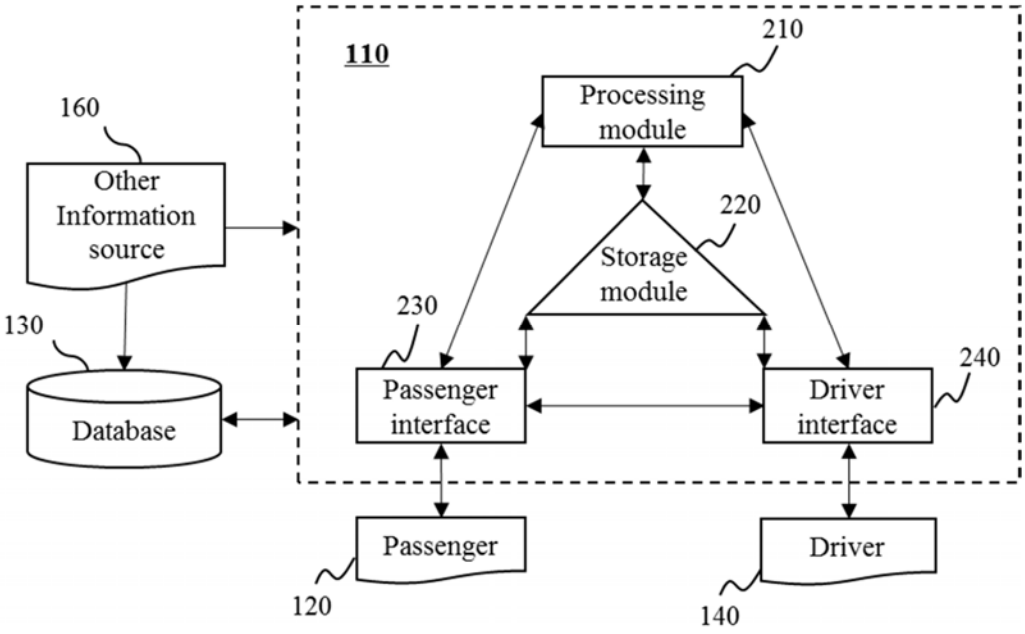

110
210
Processing module
160
Other Information source
220
Storage module
230
130
240
Passenger interface
Driver interface
Database
Passenger
Driver
120
140

FIG. 2

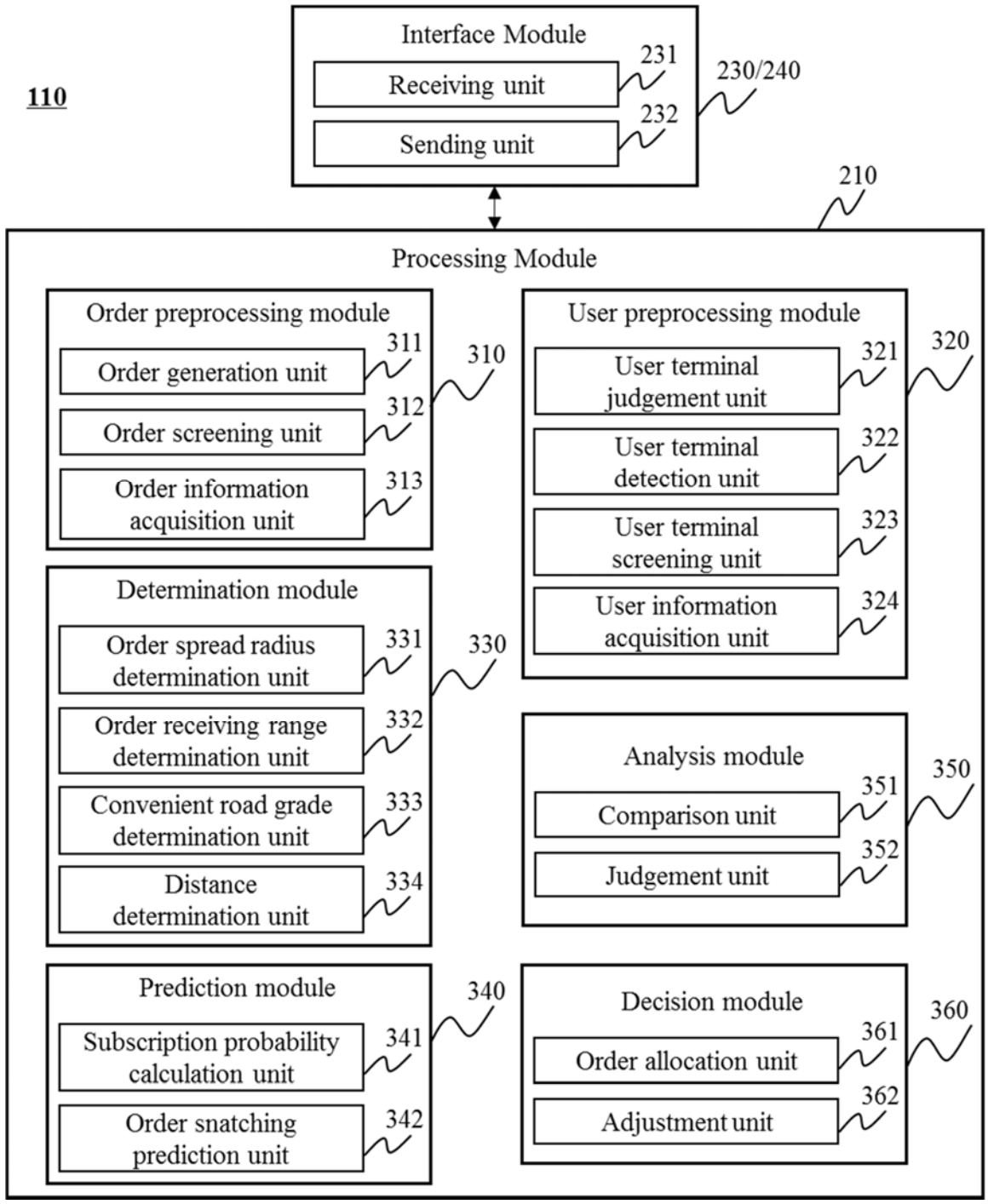

110
Interface Module
Receiving unit
231
Sending unit
232
230/240
210
Processing Module
Order preprocessing module
Order generation unit
311
Order screening unit
312
Order information acquisition unit
313
310
User preprocessing module
User terminal judgement unit
321
User terminal detection unit
322
User terminal screening unit
323
User information acquisition unit
324
320
Determination module
Order spread radius determination unit
331
Order receiving range determination unit
332
Convenient road grade determination unit
333
Distance determination unit
334
330
Analysis module
Comparison unit
351
Judgement unit
352
350
Prediction module
Subscription probability calculation unit
341
Order snatching prediction unit
342
340
Decision module
Order allocation unit
361
Adjustment unit
362
360

FIG. 3

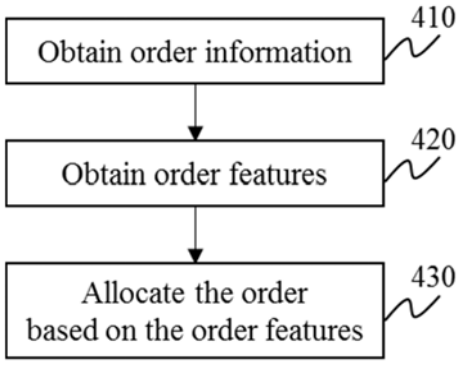

Obtain order information
410
Obtain order features
420
Allocate the order based on the order features
430

FIG. 4

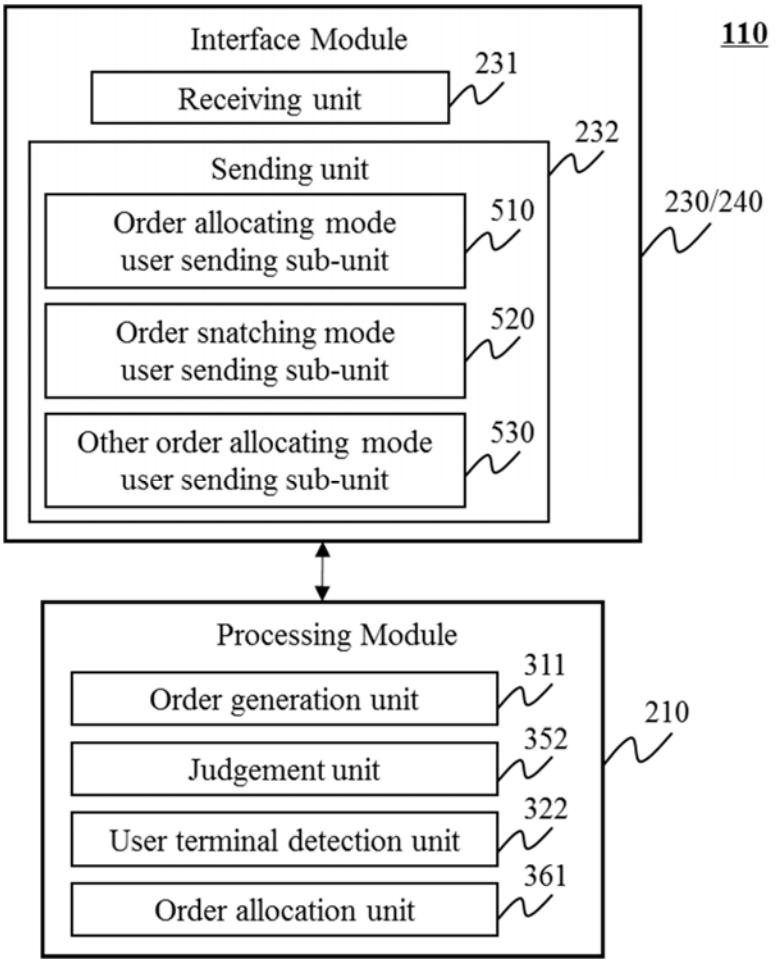

Interface Module
110
Receiving unit
231
Sending unit
232
Order allocating mode user sending sub-unit
510
Order snatching mode user sending sub-unit
520
Other order allocating mode user sending sub-unit
530
230/240
Processing Module
Order generation unit
311
Judgement unit
352
User terminal detection unit
322
Order allocation unit
361
210

FIG. 5

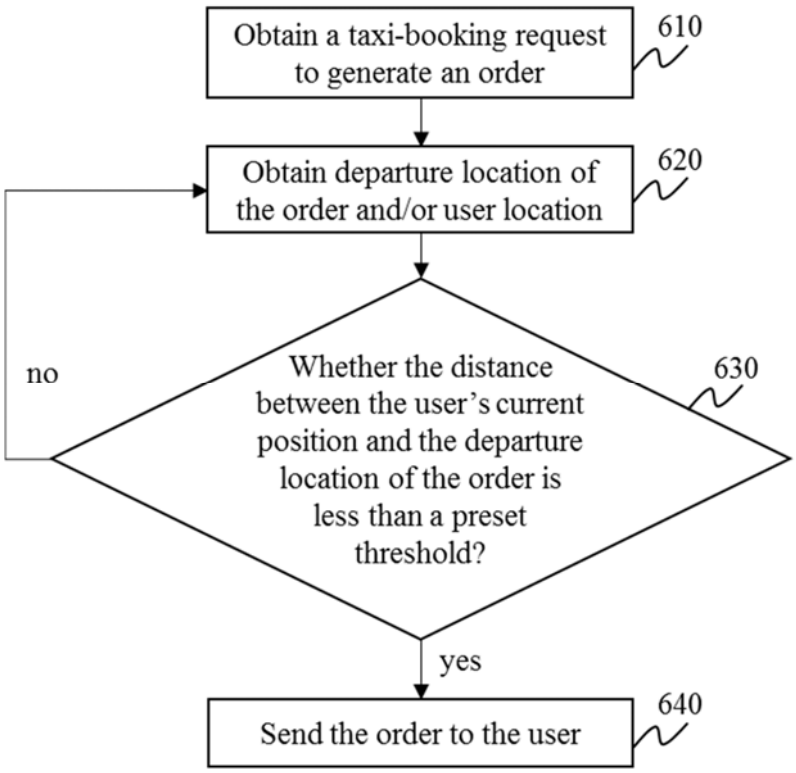

Obtain a taxi-booking request to generate an order
610
Obtain departure location of the order and/or user location
620
Whether the distance between the user's current position and the departure location of the order is less than a preset threshold?
630
no
yes
Send the order to the user
640

FIG. 6

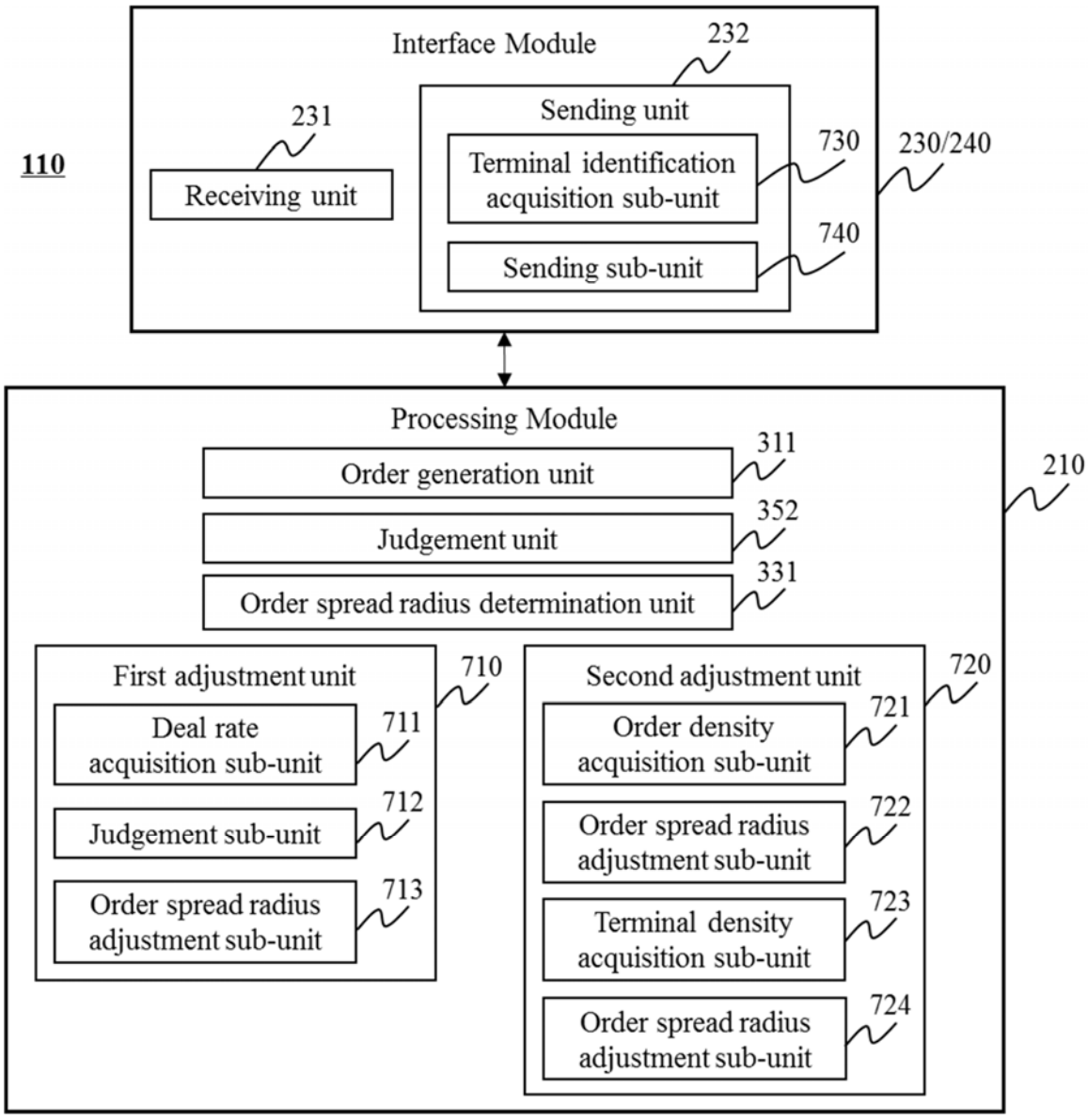

110
Interface Module
232
Sending unit
231
Receiving unit
730
Terminal identification acquisition sub-unit
740
Sending sub-unit
230/240
Processing Module
311
Order generation unit
352
Judgement unit
331
Order spread radius determination unit
210
First adjustment unit
710
Deal rate acquisition sub-unit
711
Judgement sub-unit
712
Order spread radius adjustment sub-unit
713
Second adjustment unit
720
Order density acquisition sub-unit
721
Order spread radius adjustment sub-unit
722
Terminal density acquisition sub-unit
723
Order spread radius adjustment sub-unit
724

FIG. 7

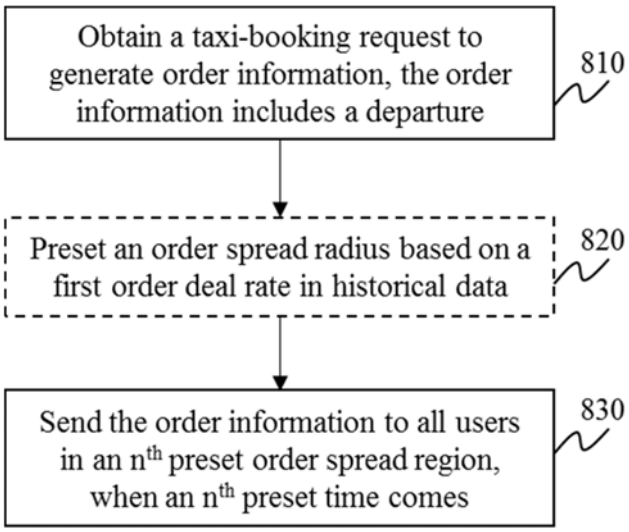

Obtain a taxi-booking request to generate order information, the order information includes a departure
810
Preset an order spread radius based on a first order deal rate in historical data
820
Send the order information to all users in an nth preset order spread region, when an nth preset time comes
830

FIG. 8

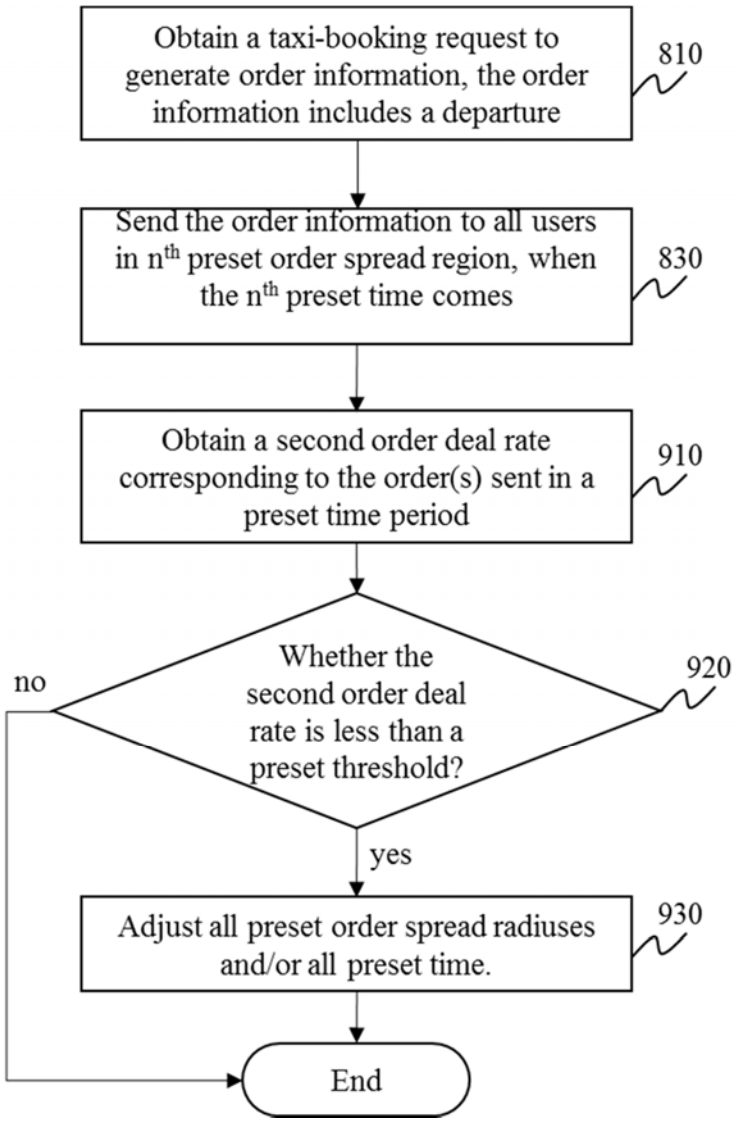

Obtain a taxi-booking request to generate order information, the order information includes a departure
810
Send the order information to all users in nth preset order spread region, when the nth preset time comes
830
Obtain a second order deal rate corresponding to the order(s) sent in a preset time period
910
Whether the second order deal rate is less than a preset threshold?
920
no
yes
Adjust all preset order spread radiuses and/or all preset time.
930
End

FIG. 9

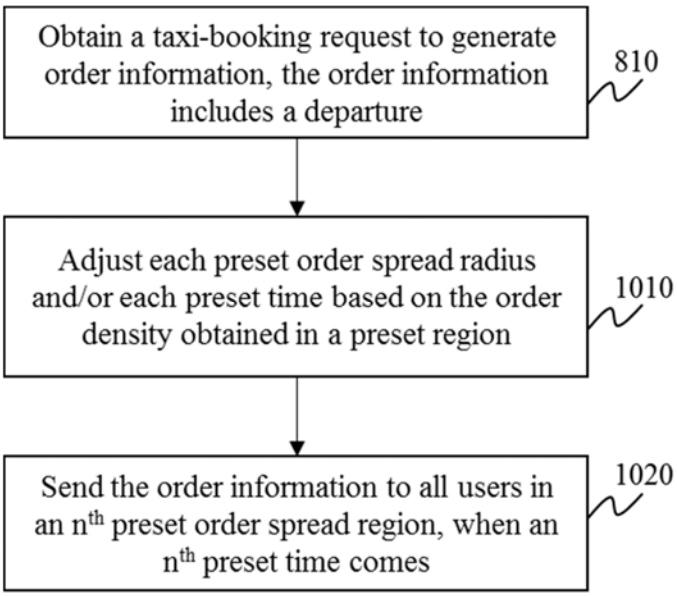

Obtain a taxi-booking request to generate order information, the order information includes a departure
810
Adjust each preset order spread radius and/or each preset time based on the order density obtained in a preset region
1010
Send the order information to all users in an nth preset order spread region, when an nth preset time comes
1020

FIG. 10

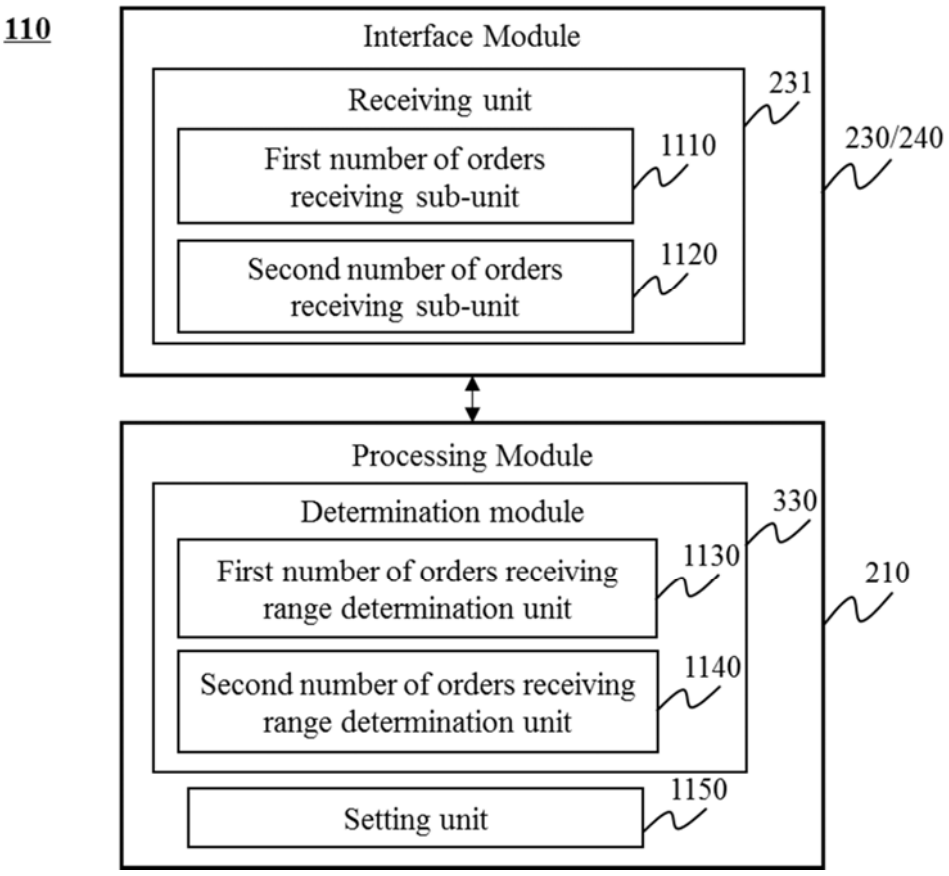

110
Interface Module
Receiving unit
231
First number of orders receiving sub-unit
1110
Second number of orders receiving sub-unit
1120
230/240
Processing Module
Determination module
330
First number of orders receiving range determination unit
1130
Second number of orders receiving range determination unit
1140
Setting unit
1150
210

FIG. 11

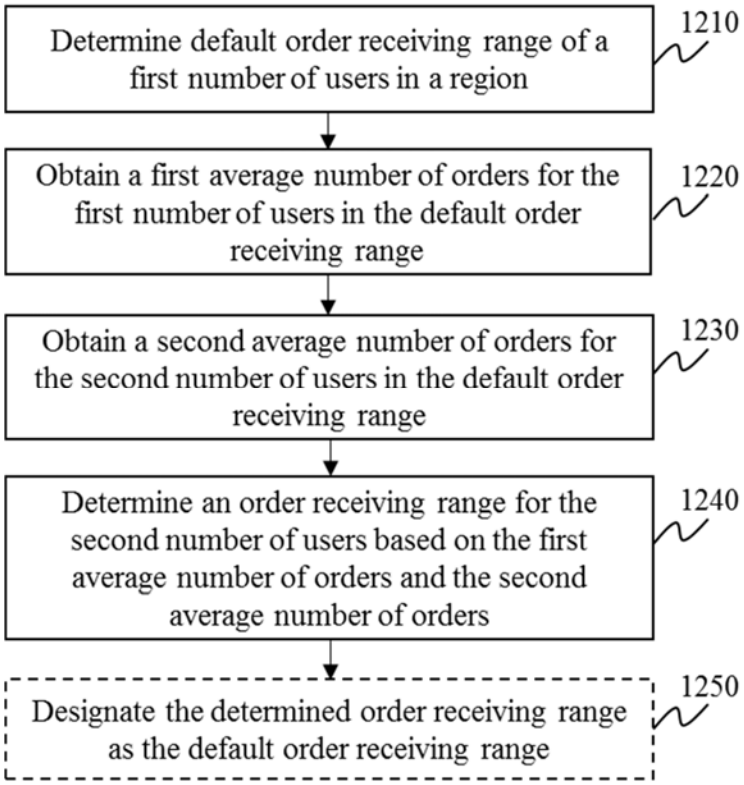

Determine default order receiving range of a first number of users in a region
1210
Obtain a first average number of orders for the first number of users in the default order receiving range
1220
Obtain a second average number of orders for the second number of users in the default order receiving range
1230
Determine an order receiving range for the second number of users based on the first average number of orders and the second average number of orders
1240
Designate the determined order receiving range as the default order receiving range
1250

FIG. 12

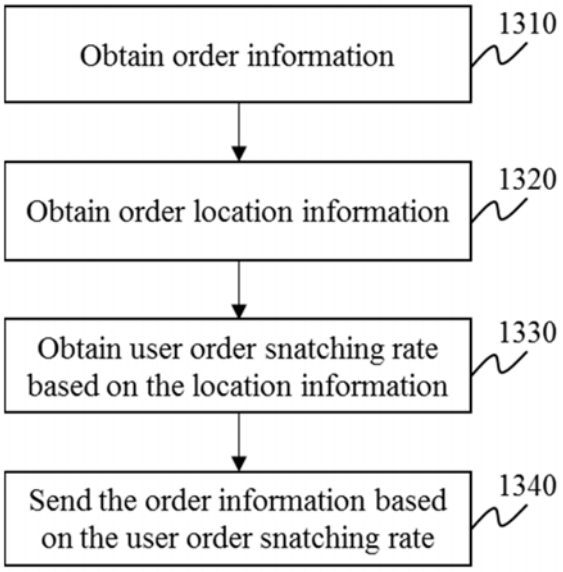

Obtain order information
1310
Obtain order location information
1320
Obtain user order snatching rate based on the location information
1330
Send the order information based on the user order snatching rate
1340

FIG. 13

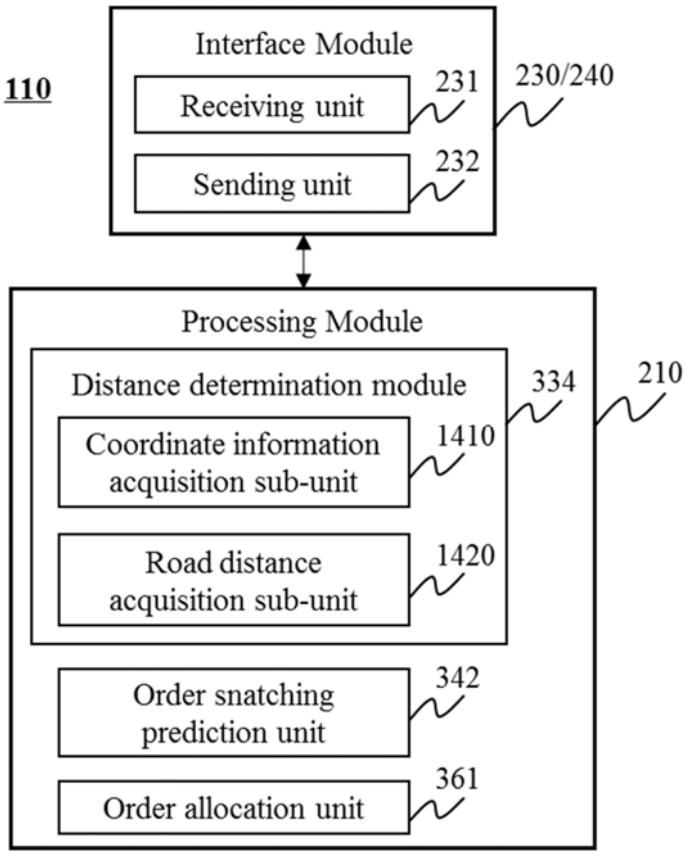

110
Interface Module
Receiving unit
231
230/240
Sending unit
232
Processing Module
Distance determination module
334
210
Coordinate information acquisition sub-unit
1410
Road distance acquisition sub-unit
1420
Order snatching prediction unit
342
Order allocation unit
361

FIG. 14

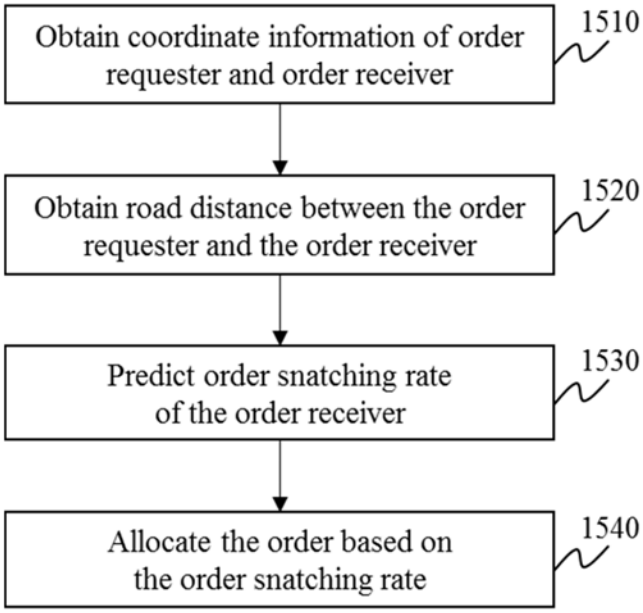

Obtain coordinate information of order requester and order receiver
1510
Obtain road distance between the order requester and the order receiver
1520
Predict order snatching rate of the order receiver
1530
Allocate the order based on the order snatching rate
1540

FIG. 15

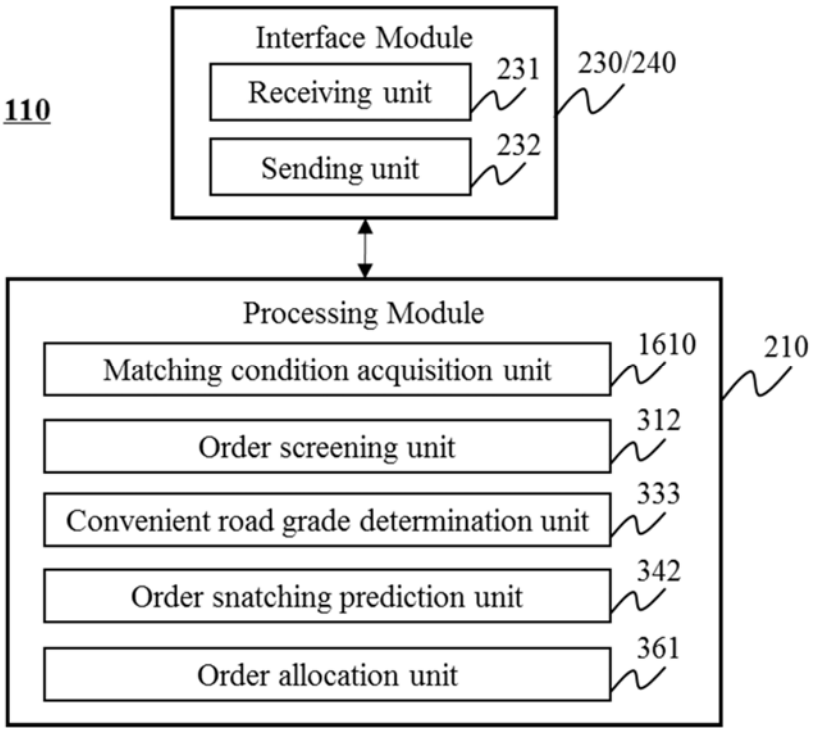

110
Interface Module
Receiving unit
231
Sending unit
232
230/240
Processing Module
Matching condition acquisition unit
1610
Order screening unit
312
Convenient road grade determination unit
333
Order snatching prediction unit
342
Order allocation unit
361
210

FIG. 16

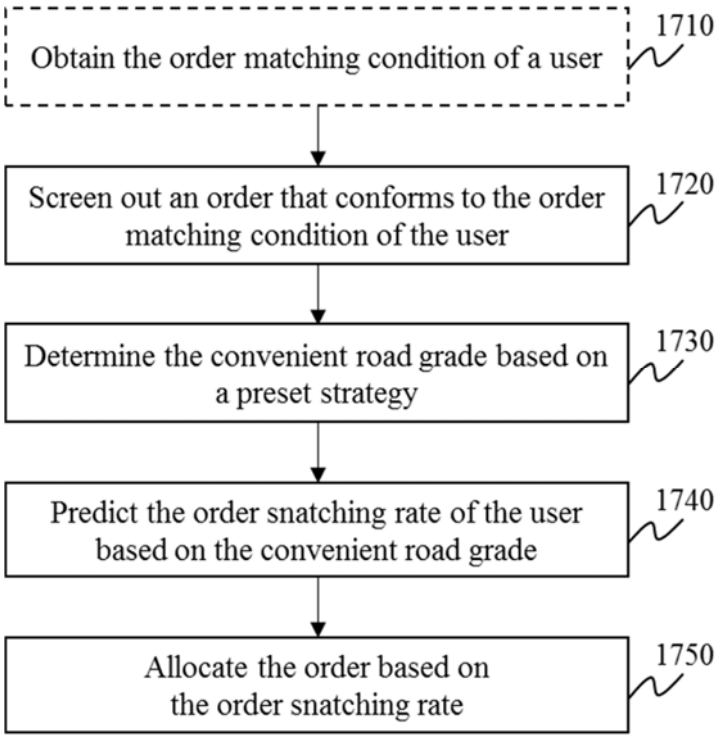

Obtain the order matching condition of a user
1710
Screen out an order that conforms to the order matching condition of the user
1720
Determine the convenient road grade based on a preset strategy
1730
Predict the order snatching rate of the user based on the convenient road grade
1740
Allocate the order based on the order snatching rate
1750

FIG. 17

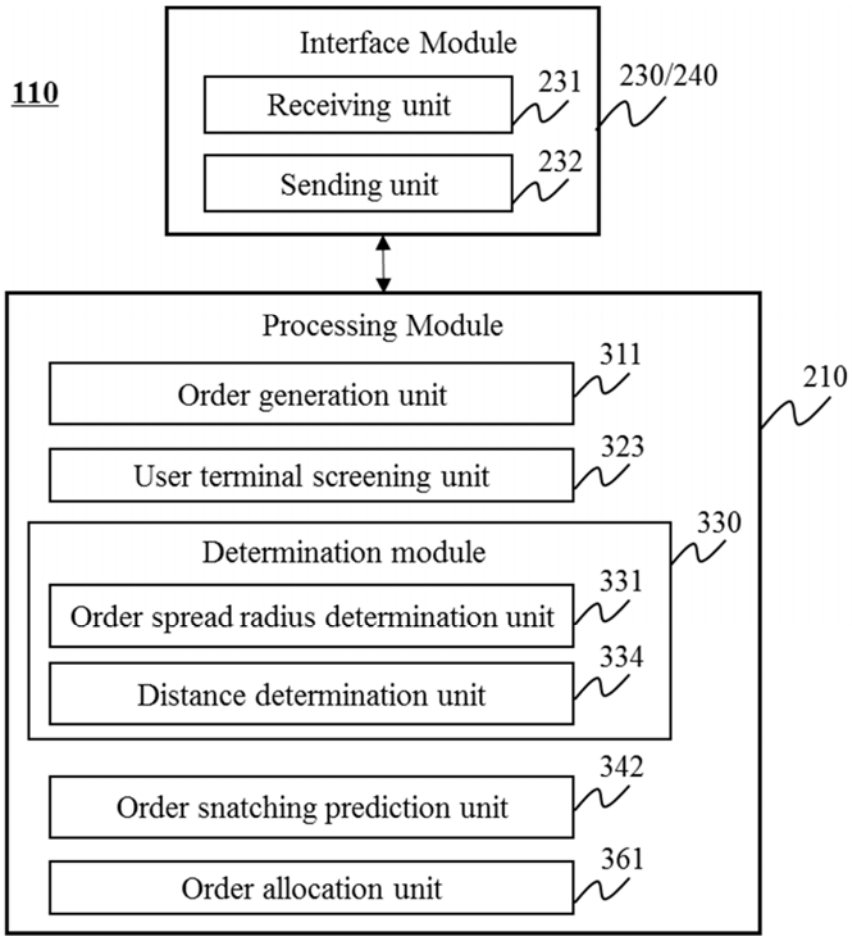

110
Interface Module
Receiving unit
231
230/240
Sending unit
232
Processing Module
311
Order generation unit
210
323
User terminal screening unit
330
Determination module
331
Order spread radius determination unit
334
Distance determination unit
342
Order snatching prediction unit
361
Order allocation unit

FIG. 18

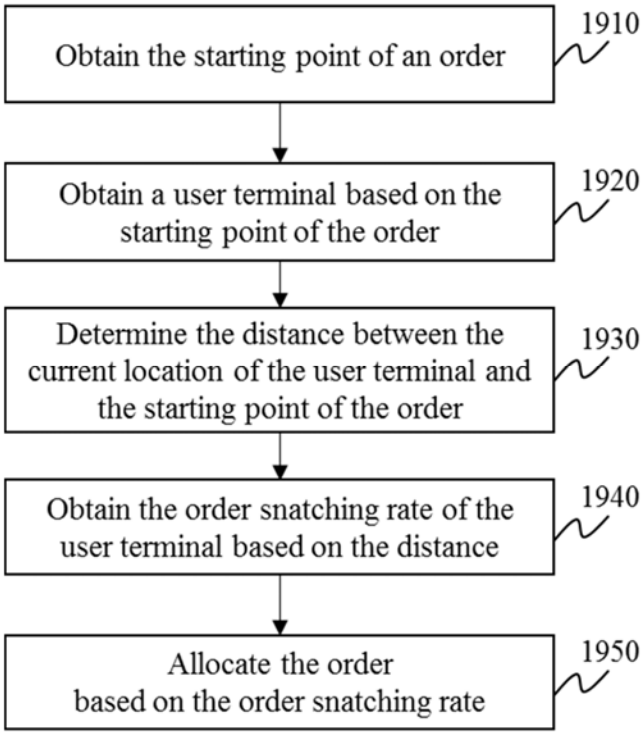

Obtain the starting point of an order
1910
Obtain a user terminal based on the starting point of the order
1920
Determine the distance between the current location of the user terminal and the starting point of the order
1930
Obtain the order snatching rate of the user terminal based on the distance
1940
Allocate the order based on the order snatching rate
1950

FIG. 19

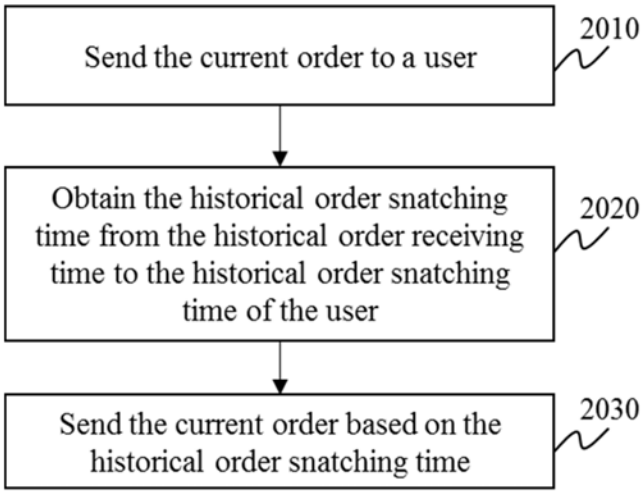

Send the current order to a user
2010
Obtain the historical order snatching time from the historical order receiving time to the historical order snatching time of the user
2020
Send the current order based on the historical order snatching time
2030

FIG. 20

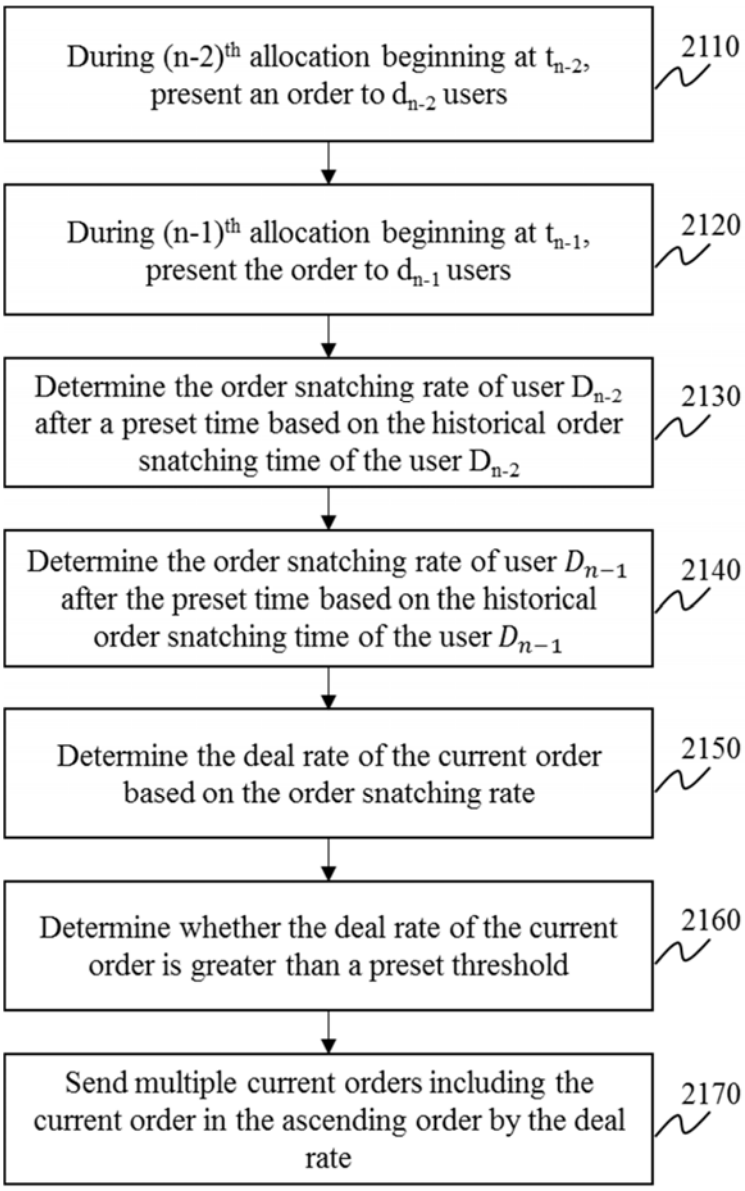

During (n-2)th allocation beginning at t_{n-2}, present an order to d_{n-2} users
2110
During (n-1)th allocation beginning at t_{n-1}, present the order to d_{n-1} users
2120
Determine the order snatching rate of user D_{n-2} after a preset time based on the historical order snatching time of the user D_{n-2}
2130
Determine the order snatching rate of user D_{n-1} after the preset time based on the historical order snatching time of the user D_{n-1}
2140
Determine the deal rate of the current order based on the order snatching rate
2150
Determine whether the deal rate of the current order is greater than a preset threshold
2160
Send multiple current orders including the current order in the ascending order by the deal rate
2170

FIG. 21A

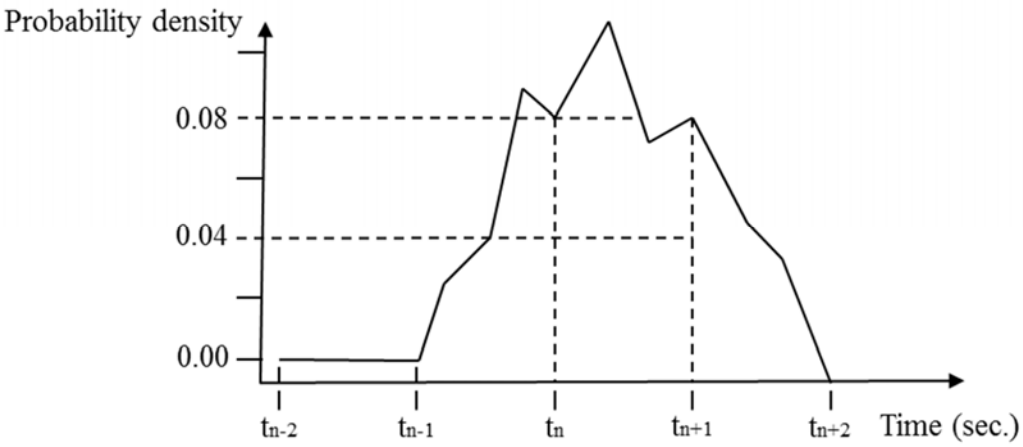


FIG. 21B

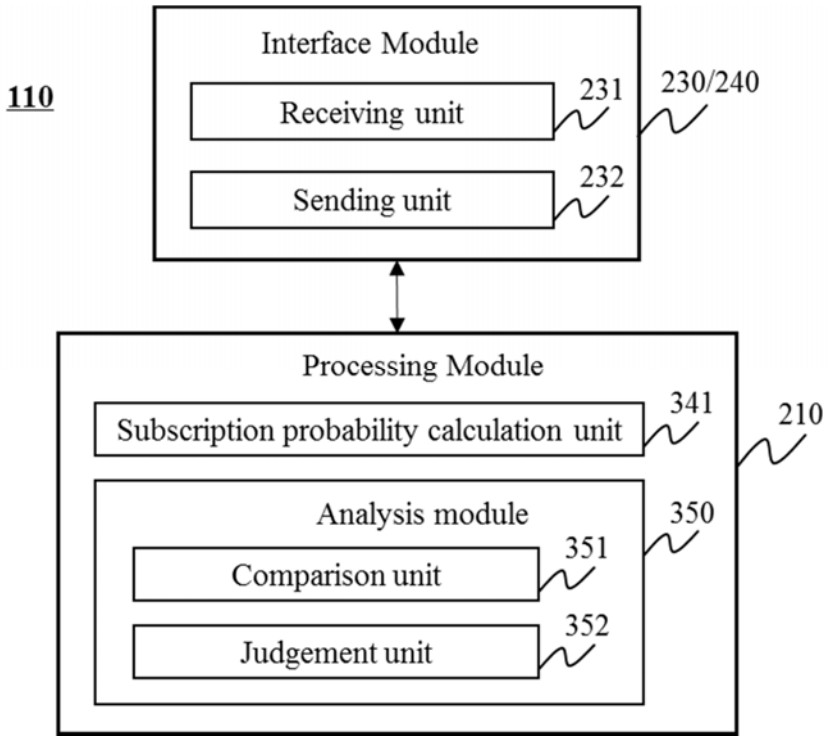


FIG. 22

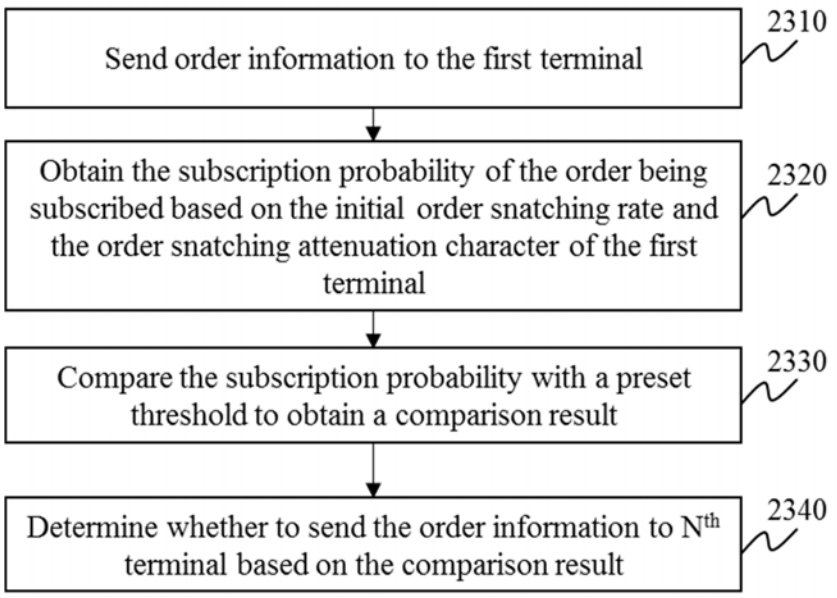

Send order information to the first terminal
2310
Obtain the subscription probability of the order being subscribed based on the initial order snatching rate and the order snatching attenuation character of the first terminal
2320
Compare the subscription probability with a preset threshold to obtain a comparison result
2330
Determine whether to send the order information to Nth terminal based on the comparison result
2340

FIG. 23

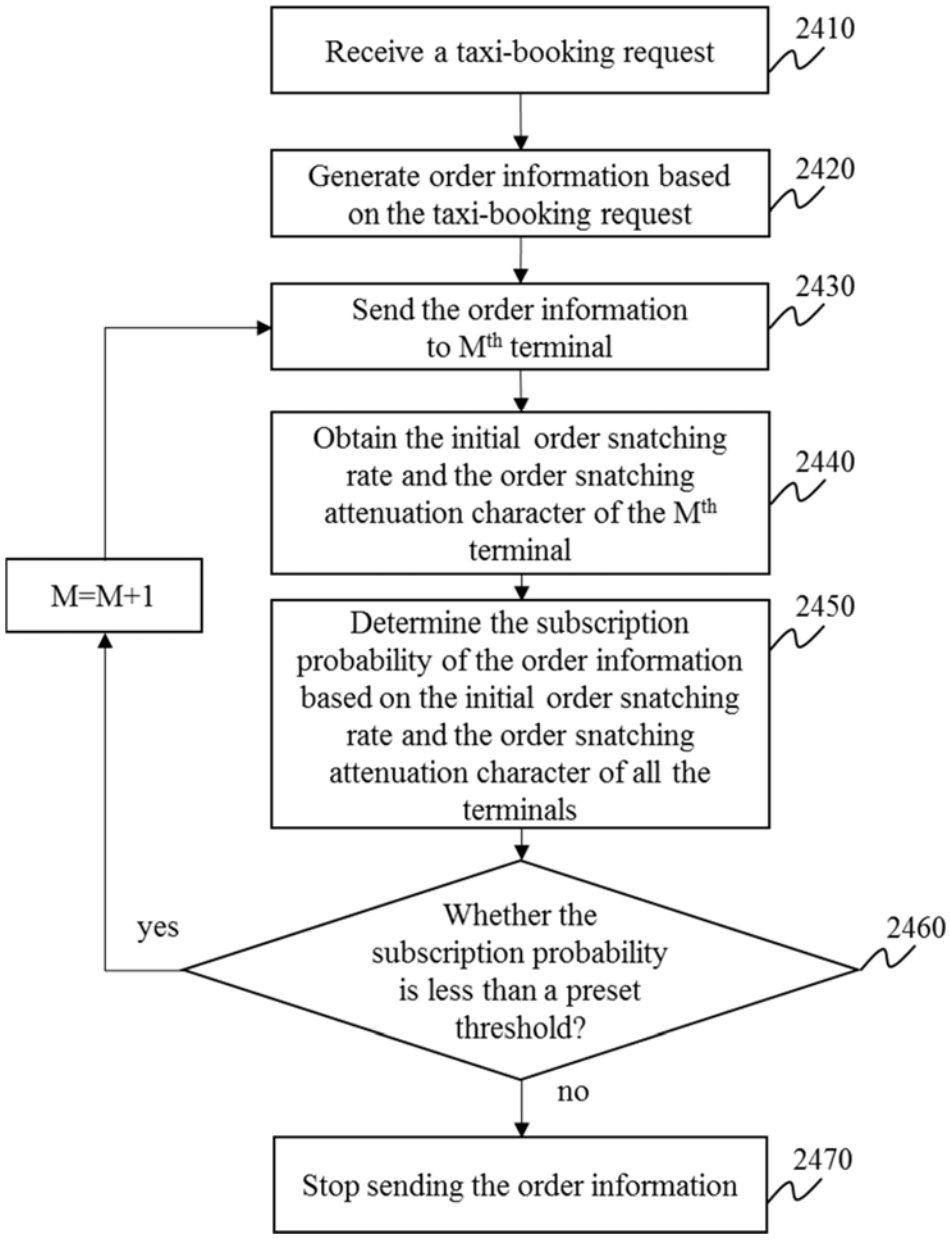

Receive a taxi-booking request
2410
Generate order information based on the taxi-booking request
2420
Send the order information to M^th terminal
2430
Obtain the initial order snatching rate and the order snatching attenuation character of the M^th terminal
2440
Determine the subscription probability of the order information based on the initial order snatching rate and the order snatching attenuation character of all the terminals
2450
Whether the subscription probability is less than a preset threshold?
2460
yes
M=M+1
no
Stop sending the order information
2470

FIG. 24

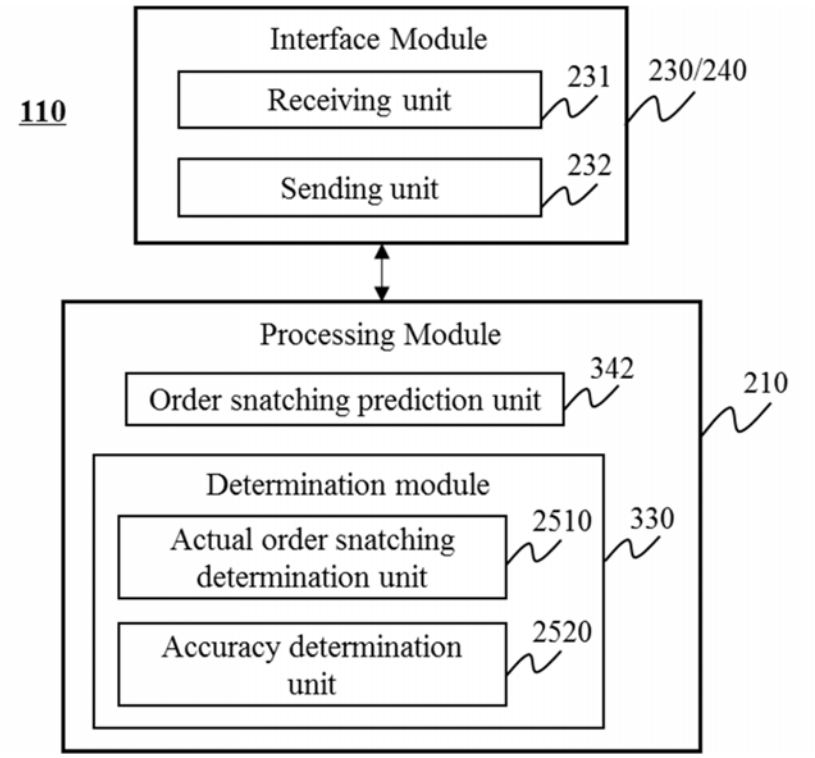

110
Interface Module
Receiving unit
231
230/240
Sending unit
232
Processing Module
Order snatching prediction unit
342
210
Determination module
Actual order snatching determination unit
2510
330
Accuracy determination unit
2520

FIG. 25

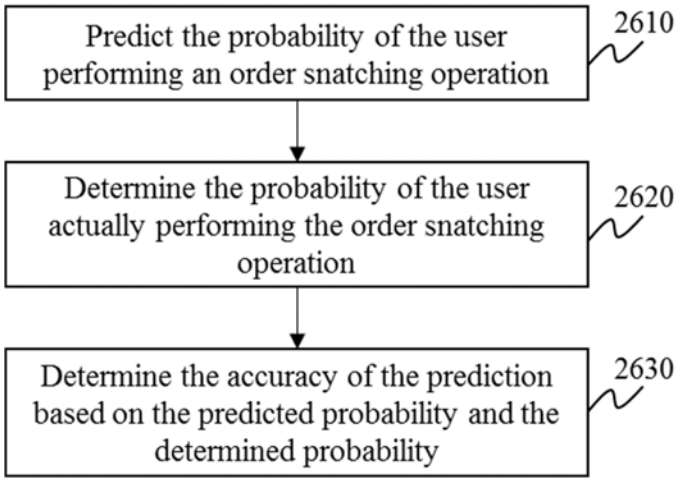

Predict the probability of the user performing an order snatching operation
2610
Determine the probability of the user actually performing the order snatching operation
2620
Determine the accuracy of the prediction based on the predicted probability and the determined probability
2630

FIG. 26

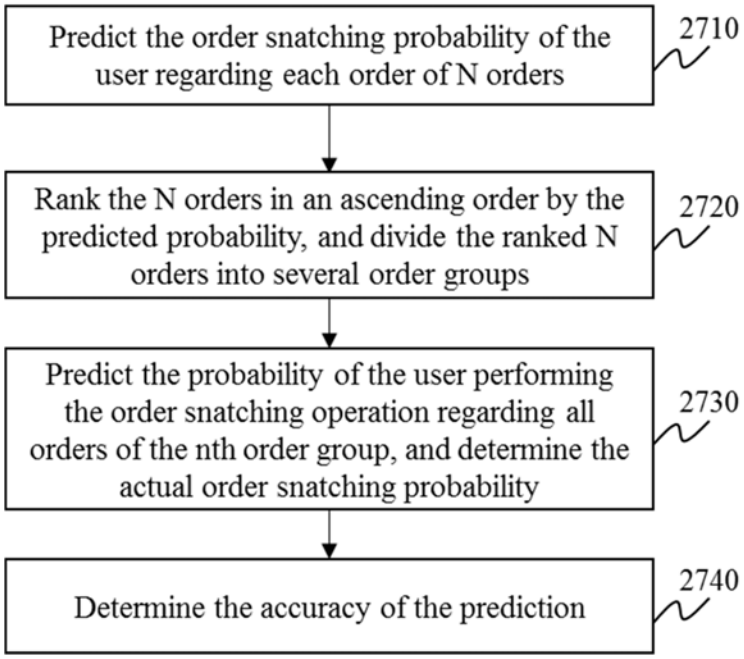

Predict the order snatching probability of the user regarding each order of N orders
2710
Rank the N orders in an ascending order by the predicted probability, and divide the ranked N orders into several order groups
2720
Predict the probability of the user performing the order snatching operation regarding all orders of the nth order group, and determine the actual order snatching probability
2730
Determine the accuracy of the prediction
2740

FIG. 27

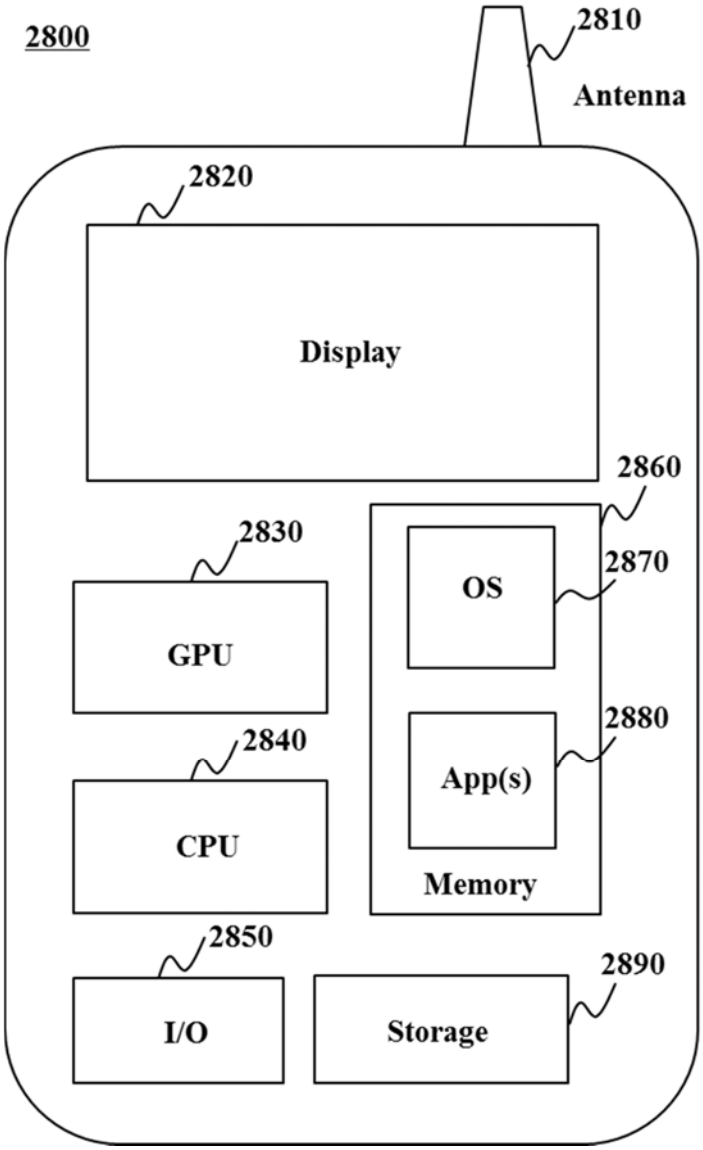

2800
2810
Antenna
2820
Display
2860
2830
OS
2870
GPU
2880
2840
App(s)
CPU
Memory
2850
2890
I/O
Storage

FIG. 28

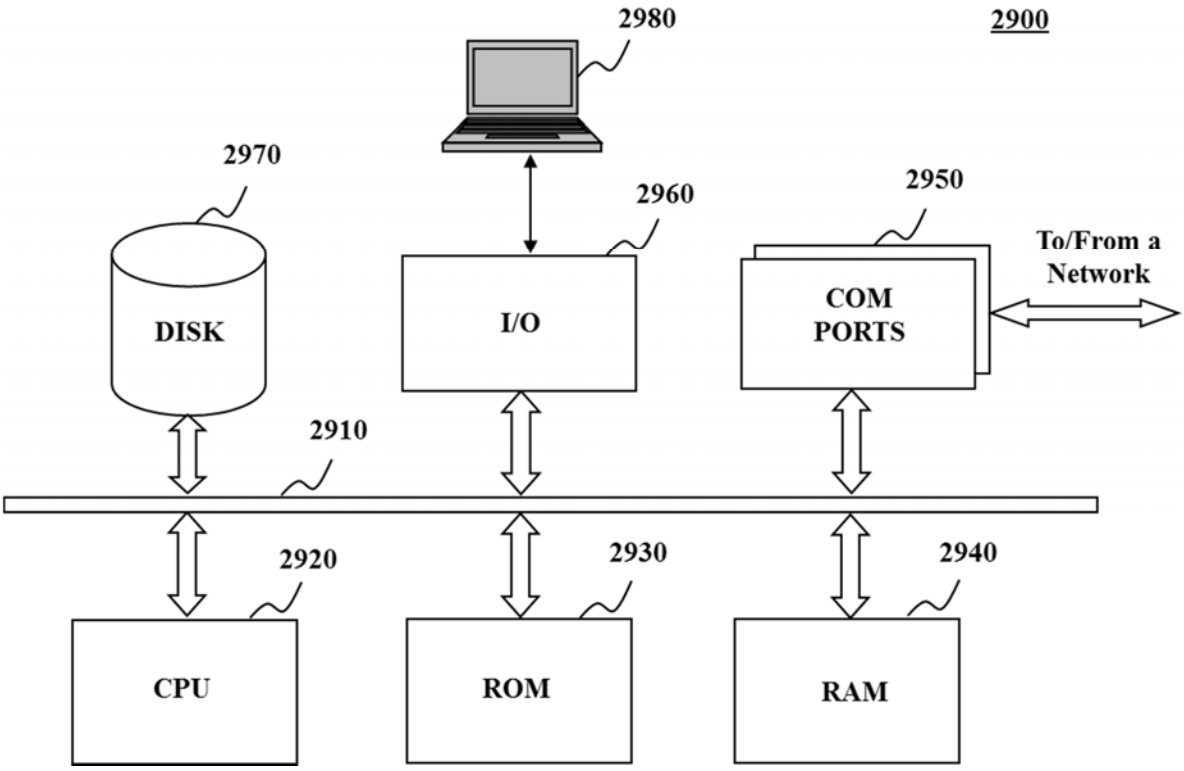

2980
2900
2970
2960
2950
To/From a
Network
DISK
I/O
COM
PORTS
2910
2920
2930
2940
CPU
ROM
RAM

FIG. 29