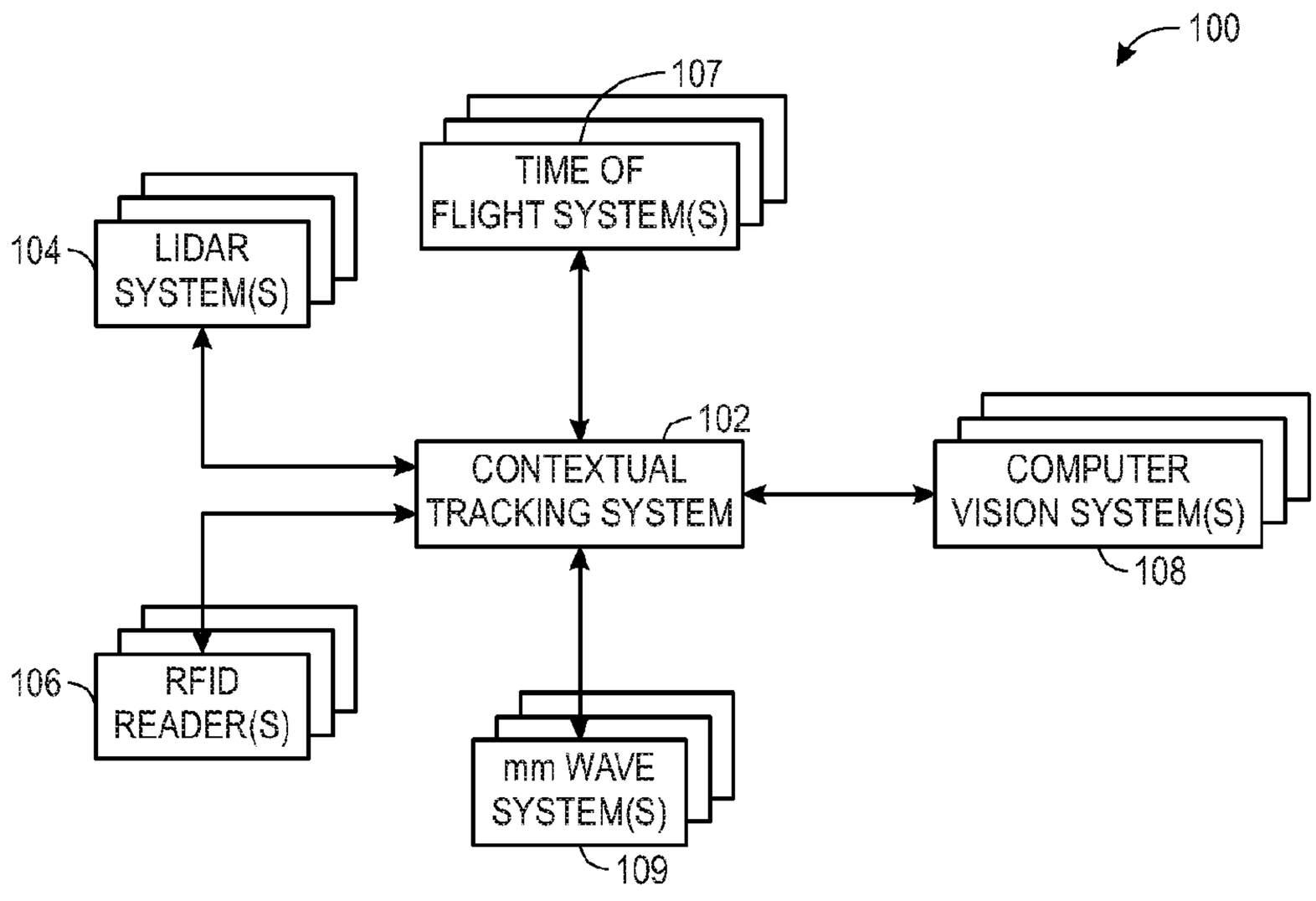

100
107
TIME OF FLIGHT SYSTEM(S)
104
LIDAR SYSTEM(S)
102
CONTEXTUAL TRACKING SYSTEM
COMPUTER VISION SYSTEM(S)
108
106
RFID READER(S)
mm WAVE SYSTEM(S)
109

FIG. 1

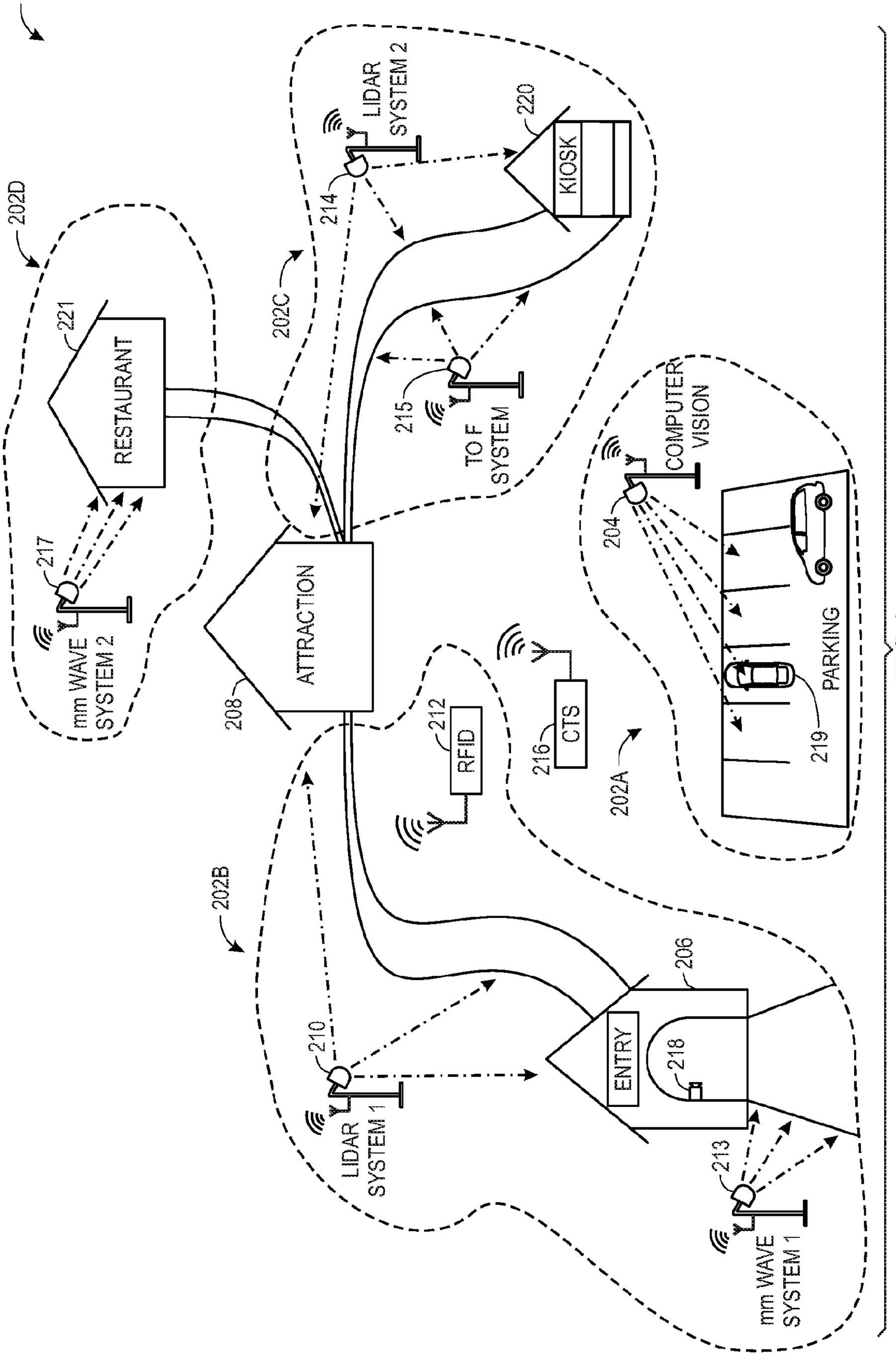

200
202D
221
RESTAURANT
217
mm WAVE SYSTEM 2
202C
LIDAR SYSTEM 2
214
220
KIOSK
215
TO F SYSTEM
COMPUTER VISION
204
PARKING
219
208
ATTRACTION
212
RFID
216
CTS
202A
202B
206
210
LIDAR SYSTEM 1
ENTRY
218
213
mm WAVE SYSTEM 1

FIG. 2

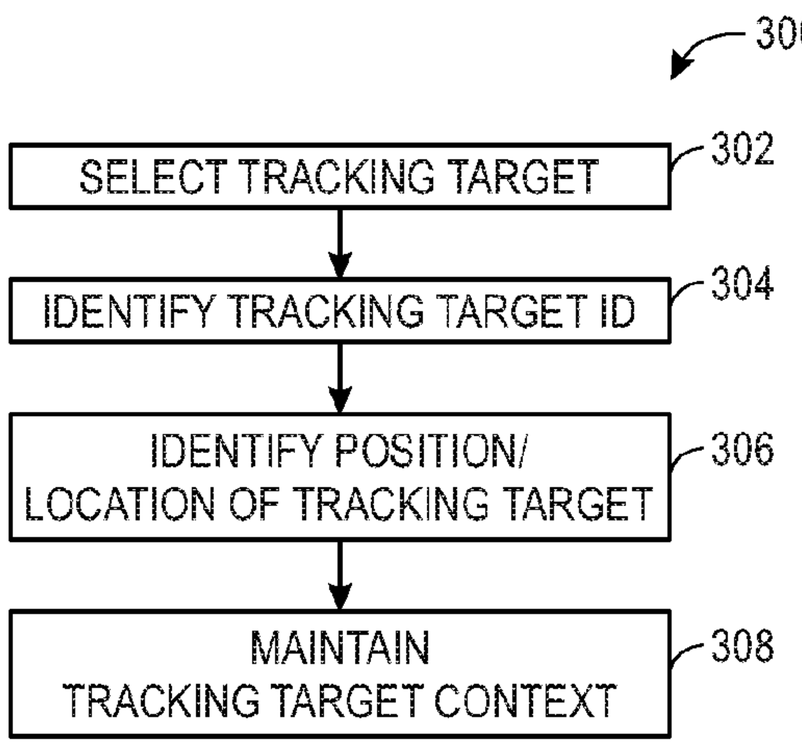


FIG. 3

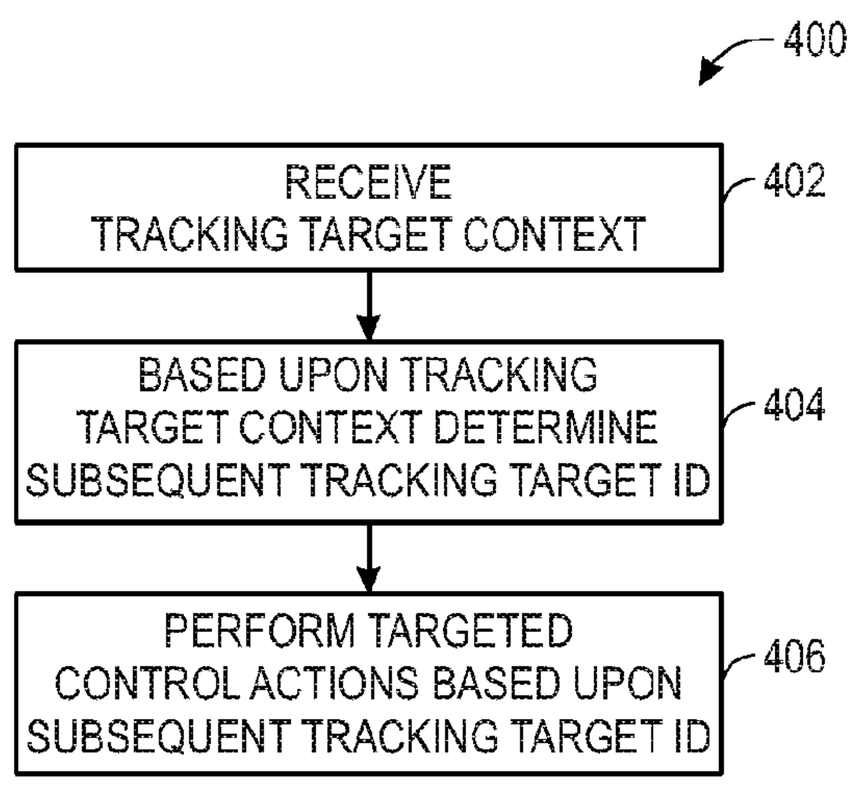


FIG. 4

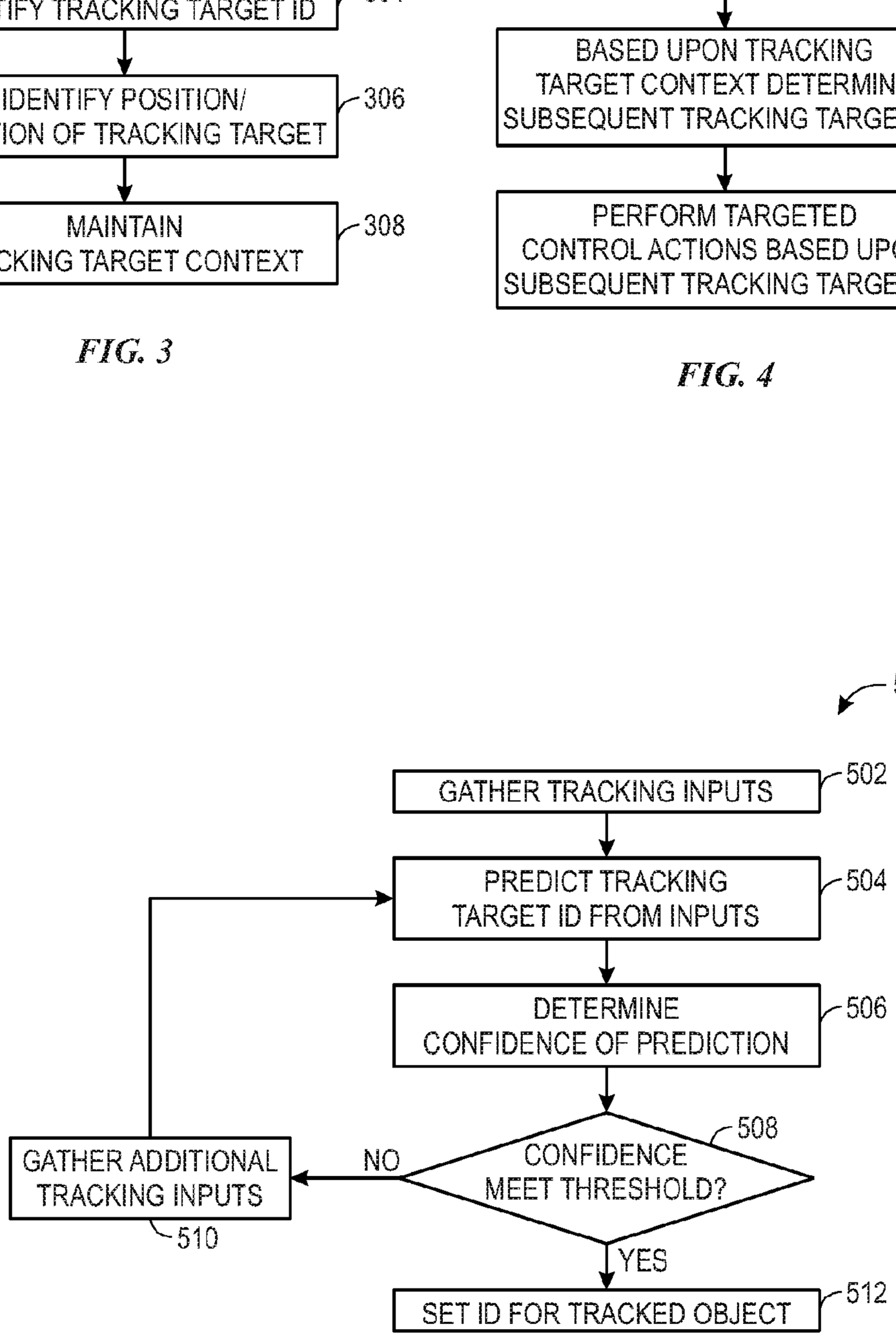


FIG. 5

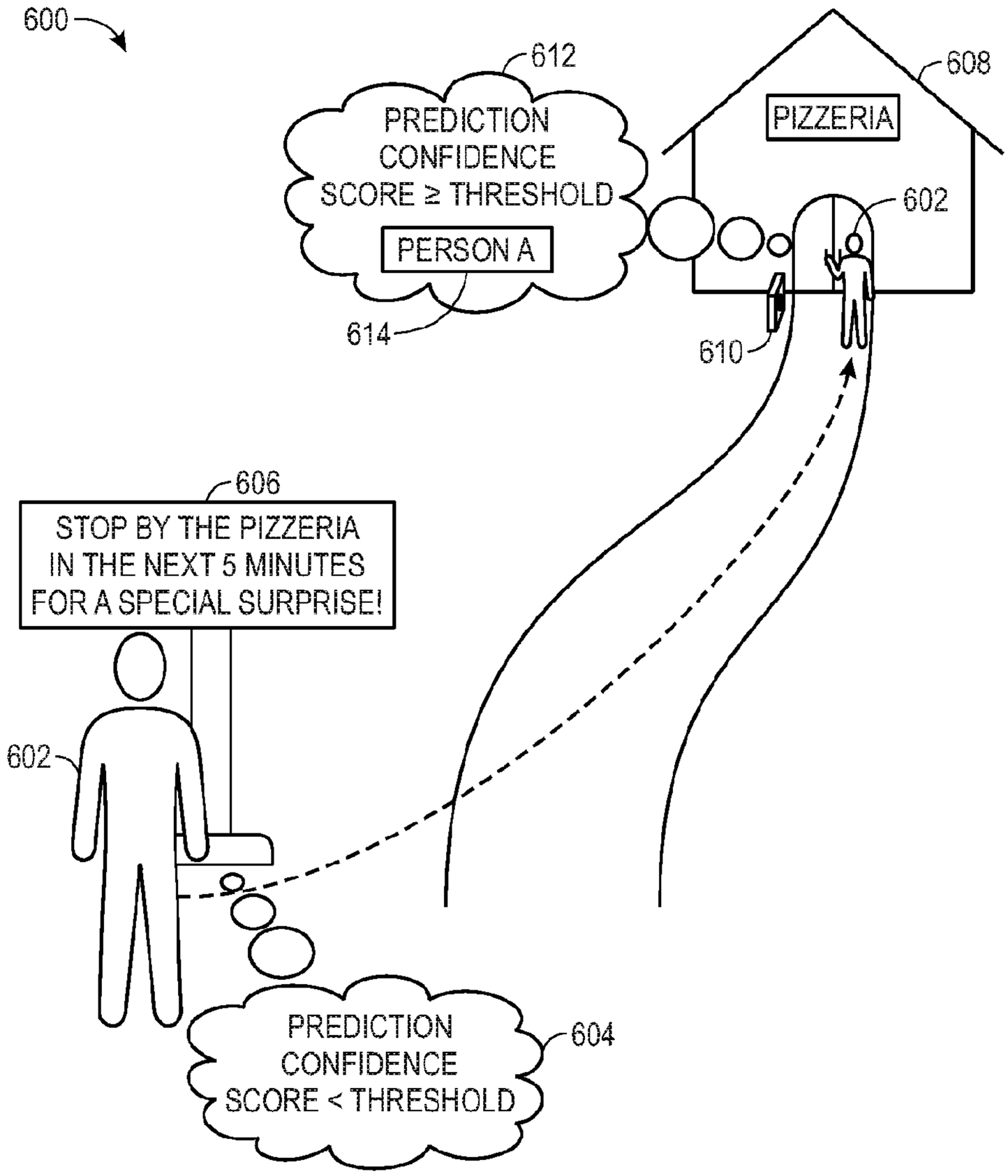

600
612
PREDICTION
CONFIDENCE
SCORE ≥ THRESHOLD
PERSON A
614
608
PIZZERIA
602
610
606
STOP BY THE PIZZERIA
IN THE NEXT 5 MINUTES
FOR A SPECIAL SURPRISE!
602
PREDICTION
CONFIDENCE
SCORE < THRESHOLD
604

FIG. 6

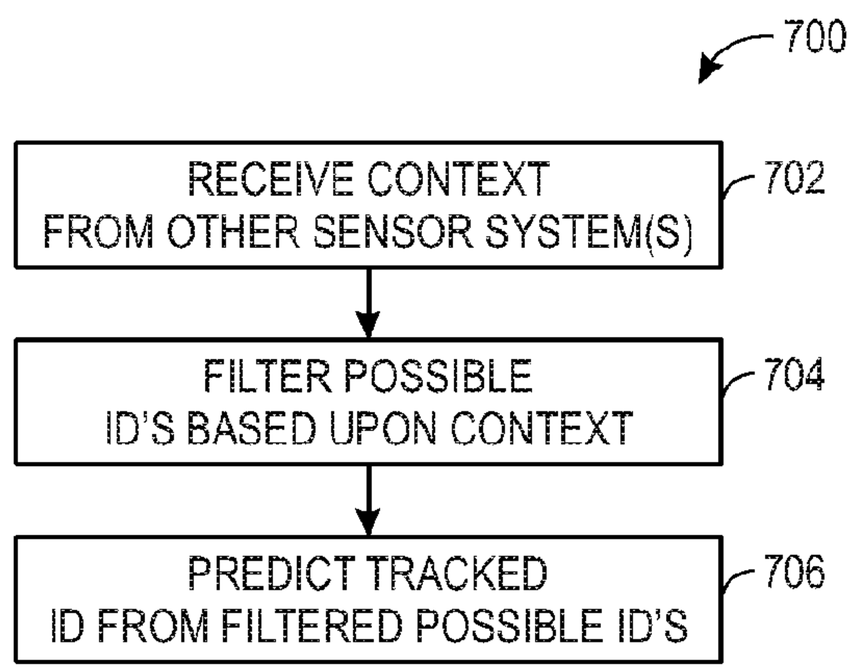

700
RECEIVE CONTEXT
FROM OTHER SENSOR SYSTEM(S)
702
FILTER POSSIBLE
ID'S BASED UPON CONTEXT
704
PREDICT TRACKED
ID FROM FILTERED POSSIBLE ID'S
706

FIG. 7

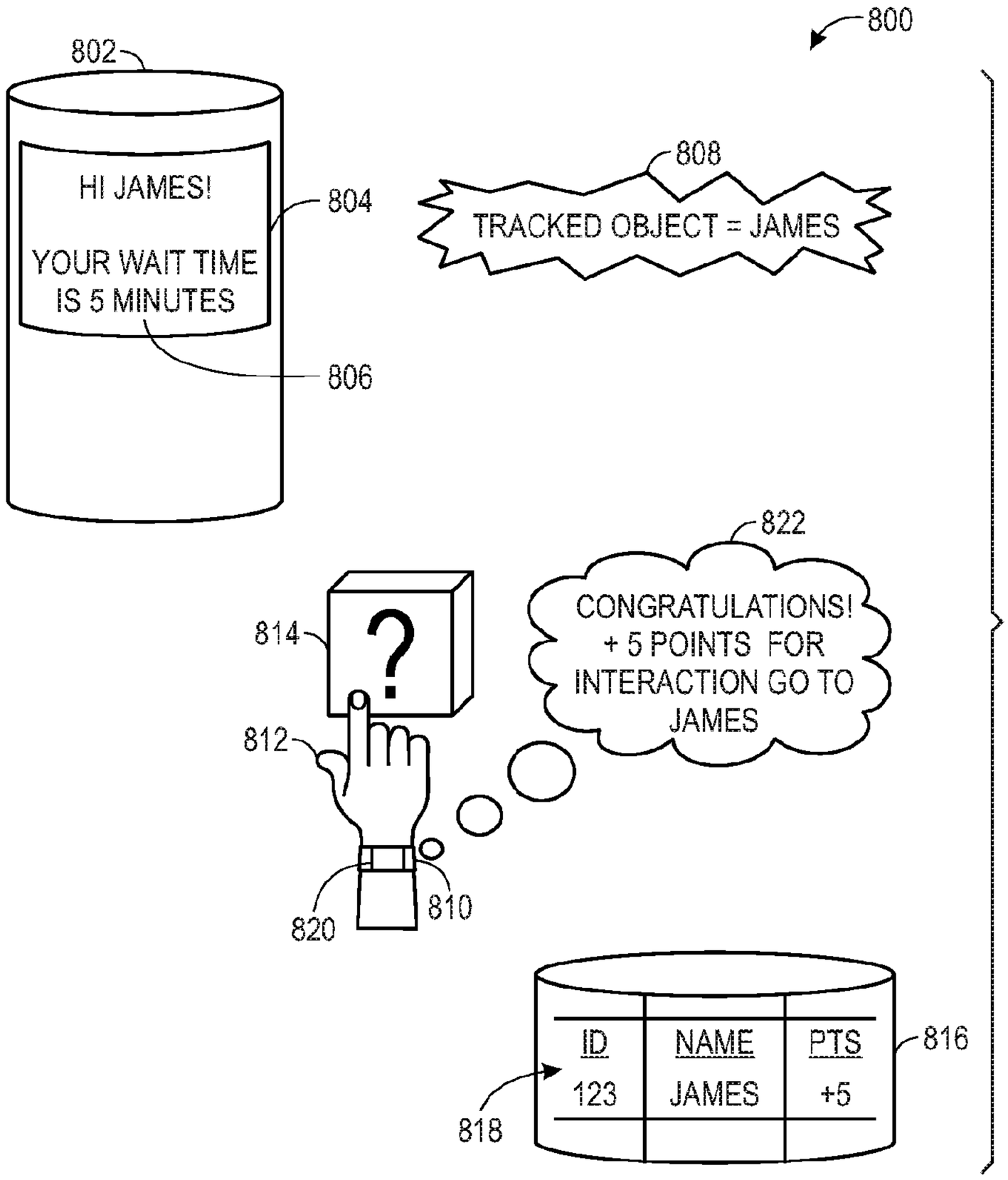

800
802
HI JAMES!
YOUR WAIT TIME IS 5 MINUTES
804
806
808
TRACKED OBJECT = JAMES
822
CONGRATULATIONS! + 5 POINTS FOR INTERACTION GO TO JAMES
814
?
812
820
810
ID
NAME
PTS
123
JAMES
+5
816
818

FIG. 8

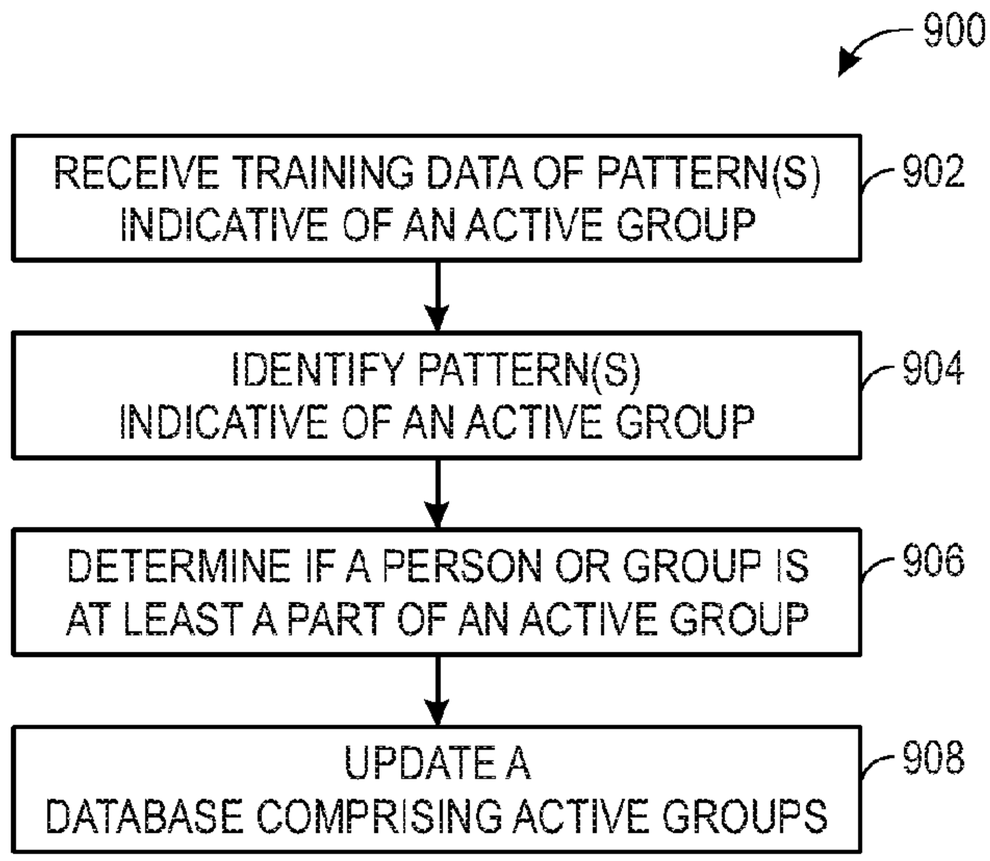

900
RECEIVE TRAINING DATA OF PATTERN(S) INDICATIVE OF AN ACTIVE GROUP
902
IDENTIFY PATTERN(S) INDICATIVE OF AN ACTIVE GROUP
904
DETERMINE IF A PERSON OR GROUP IS AT LEAST A PART OF AN ACTIVE GROUP
906
UPDATE A DATABASE COMPRISING ACTIVE GROUPS
908

FIG. 9

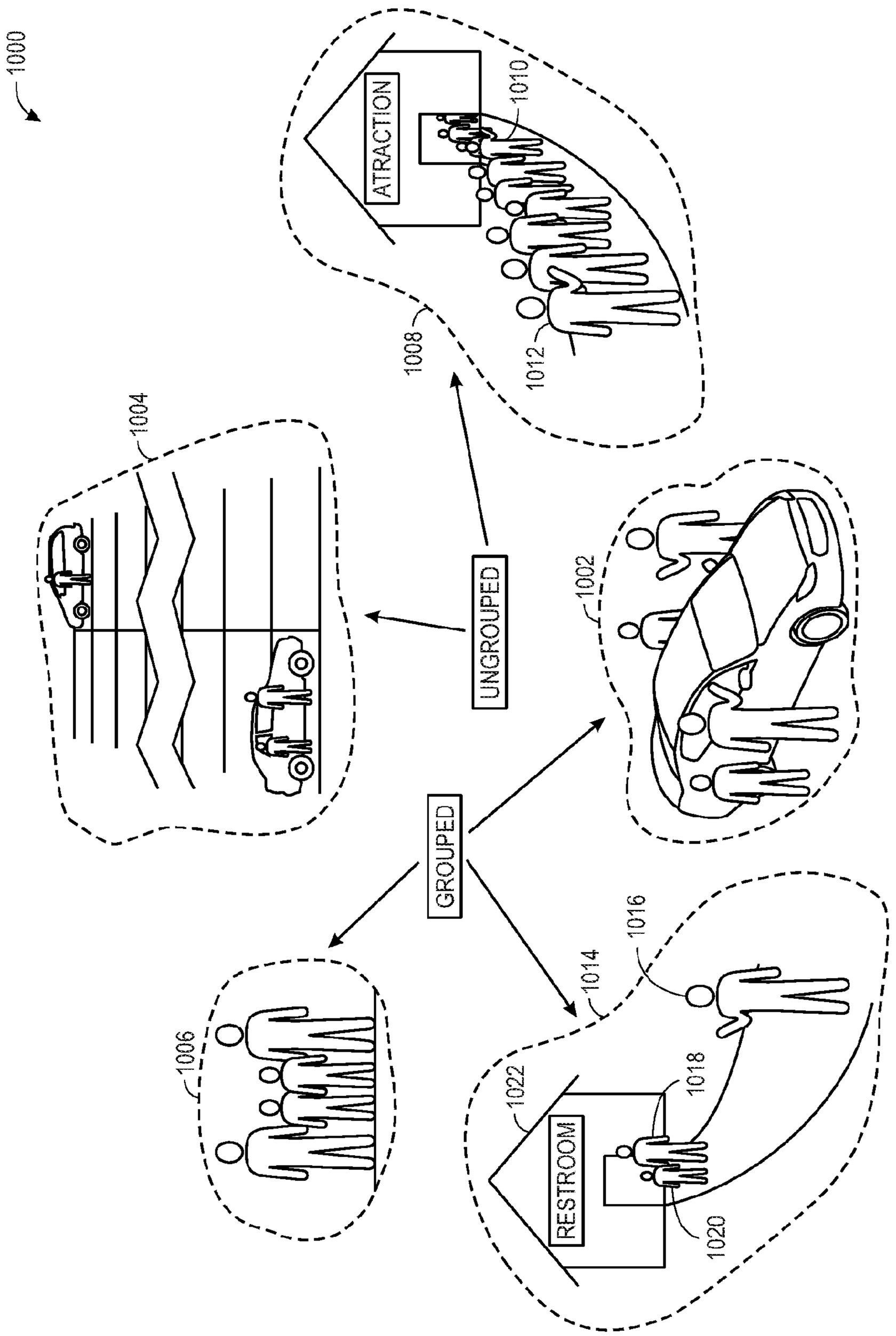

1000
1004
1008
ATRACTION
1010
1012
UNGROUPED
GROUPED
1002
1006
1014
1016
1018
1020
1022
RESTROOM

FIG. 10

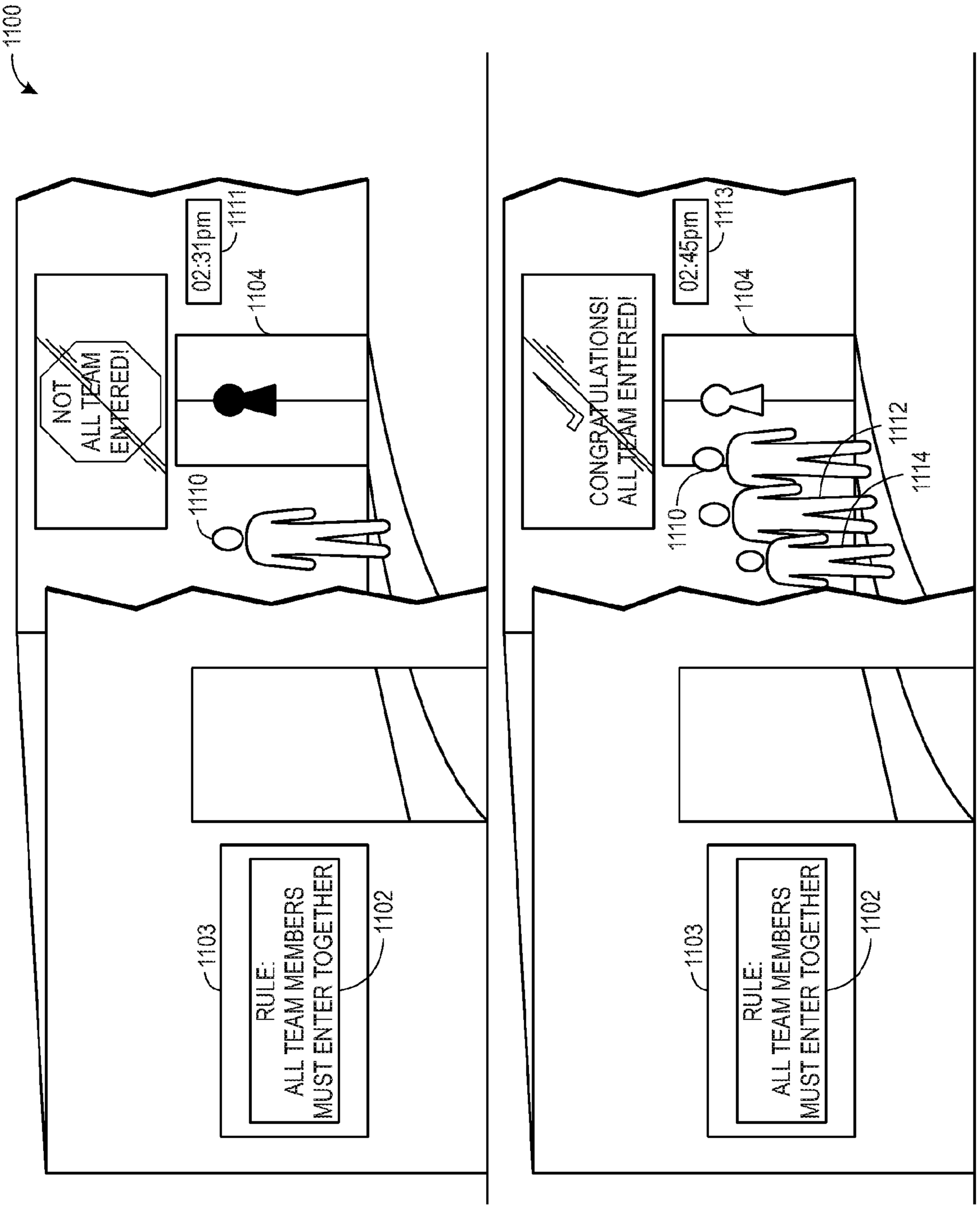

1100
NOT ALL TEAM ENTERED!
02:31pm
1111
1104
1110
RULE: ALL TEAM MEMBERS MUST ENTER TOGETHER
1103
1102
CONGRATULATIONS! ALL TEAM ENTERED!
02:45pm
1113
1112
1114

FIG. 11

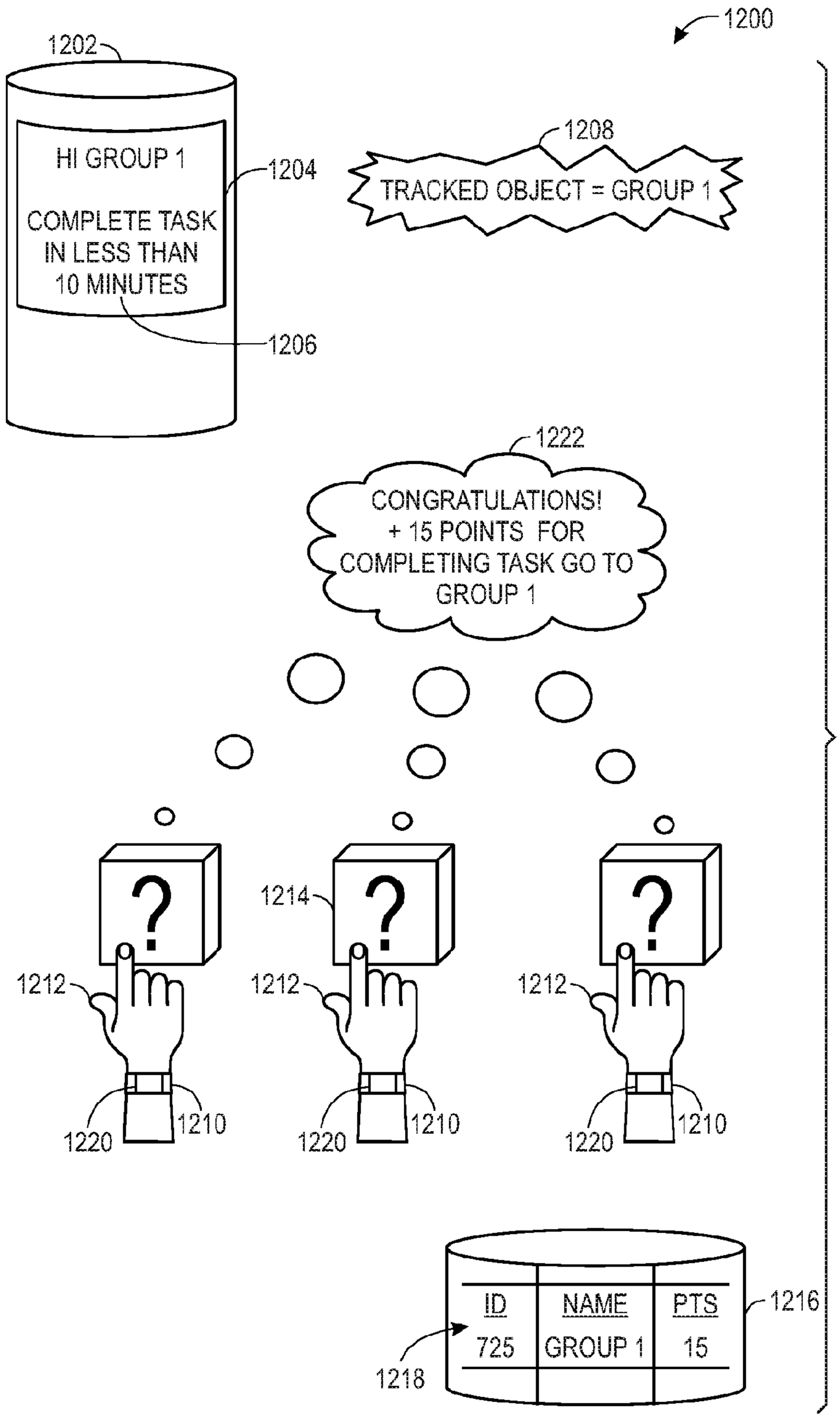

1200
1202
HI GROUP 1
COMPLETE TASK IN LESS THAN 10 MINUTES
1204
1206
1208
TRACKED OBJECT = GROUP 1
1222
CONGRATULATIONS! + 15 POINTS FOR COMPLETING TASK GO TO GROUP 1
1212
1214
1210
1220
ID
NAME
PTS
725
GROUP 1
15
1216
1218

FIG. 12