FIG. 1

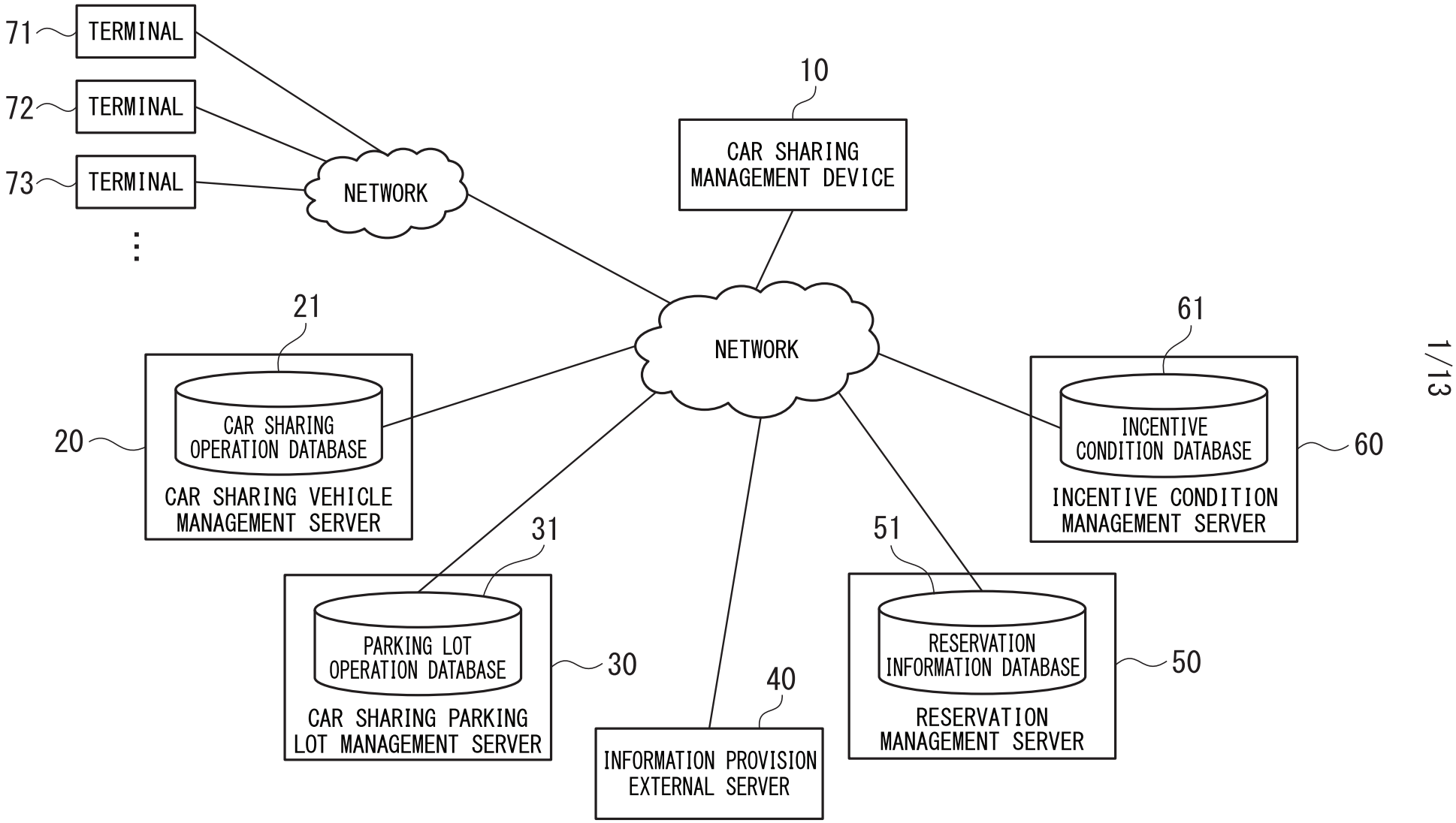

71
TERMINAL
72
TERMINAL
73
TERMINAL
NETWORK
10
CAR SHARING MANAGEMENT DEVICE
NETWORK
21
CAR SHARING OPERATION DATABASE
20
CAR SHARING VEHICLE MANAGEMENT SERVER
61
INCENTIVE CONDITION DATABASE
60
INCENTIVE CONDITION MANAGEMENT SERVER
31
PARKING LOT OPERATION DATABASE
30
CAR SHARING PARKING LOT MANAGEMENT SERVER
40
INFORMATION PROVISION EXTERNAL SERVER
51
RESERVATION INFORMATION DATABASE
50
RESERVATION MANAGEMENT SERVER

FIG. 2

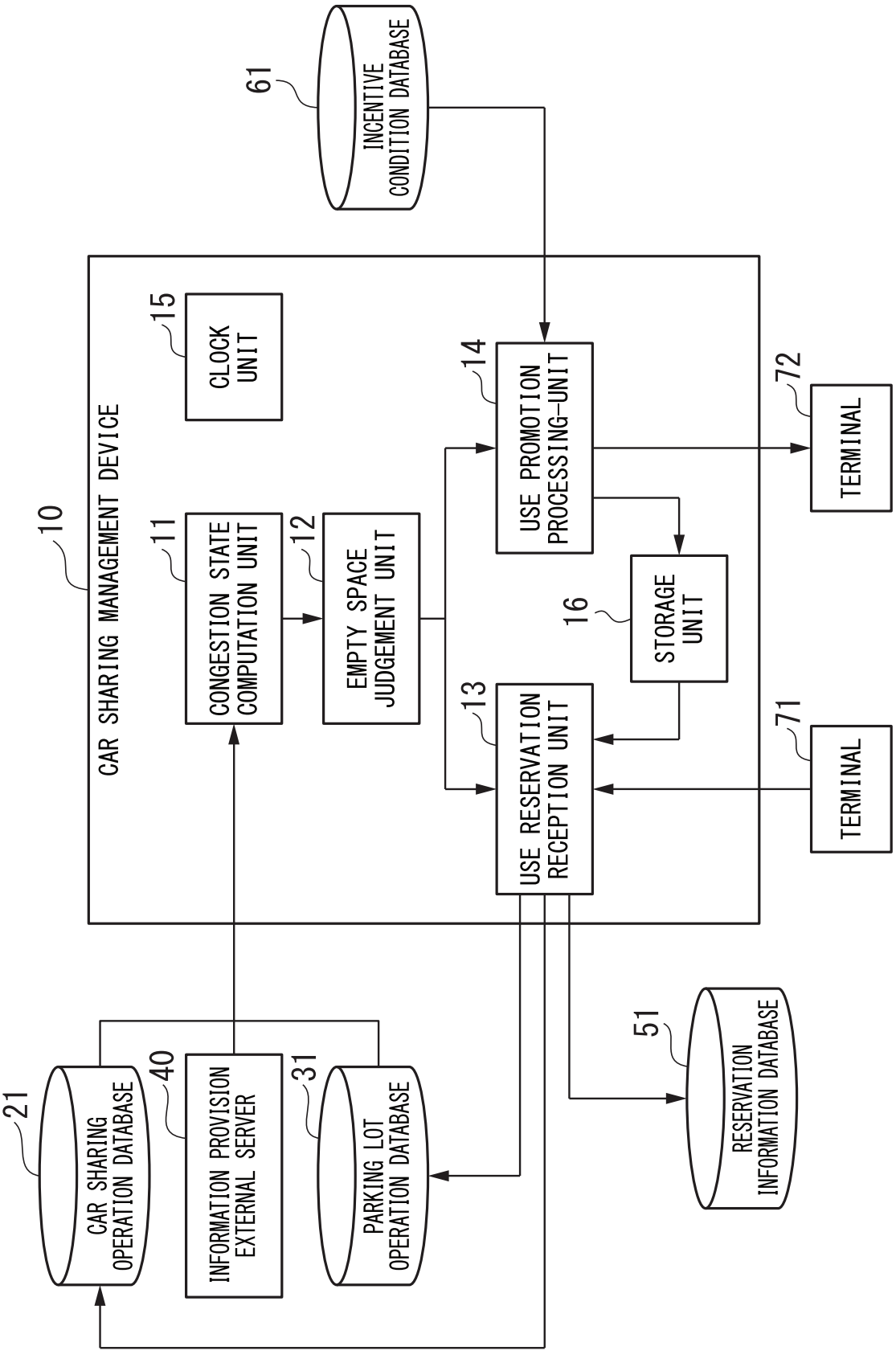

61
INCENTIVE CONDITION DATABASE
10
CAR SHARING MANAGEMENT DEVICE
15
CLOCK UNIT
14
USE PROMOTION PROCESSING-UNIT
72
TERMINAL
11
CONGESTION STATE COMPUTATION UNIT
12
EMPTY SPACE JUDGEMENT UNIT
16
STORAGE UNIT
13
USE RESERVATION RECEPTION UNIT
71
TERMINAL
21
CAR SHARING OPERATION DATABASE
40
INFORMATION PROVISION EXTERNAL SERVER
31
PARKING LOT OPERATION DATABASE
51
RESERVATION INFORMATION DATABASE

FIG. 3

CAR SHARING VEHICLE INFORMATION TABLE

MOVEMENT SECTION	MOVEMENT TIME	NUMBER OF MOVED VEHICLES	LEARNED USE PREDICTION VALUE	AREA CHARACTERISTICS
A-B	11:31～12:00	3	2	A: RESIDENTIAL AREA B: IN FRONT OF STATION
A-B	12:01～12:30	2	2	A: RESIDENTIAL AREA B: IN FRONT OF STATION
A-B	12:31～13:00	2	1	A: RESIDENTIAL AREA B: IN FRONT OF STATION
A-B	13:01～13:30	1	0	A: RESIDENTIAL AREA B: IN FRONT OF STATION
A-B	13:31～14:00	1	0	A: RESIDENTIAL AREA B: IN FRONT OF STATION
⋮	⋮	⋮	⋮	⋮
C-B	11:31～12:00	4	4	C: FACTORY B: IN FRONT OF STATION
C-B	12:01～12:30	4	3	C: FACTORY B: IN FRONT OF STATION
C-B	12:31～13:00	3	3	C: FACTORY B: IN FRONT OF STATION
C-B	13:01～13:30	0	1	C: FACTORY B: IN FRONT OF STATION
C-B	13:31～14:00	0	0	C: FACTORY B: IN FRONT OF STATION
⋮	⋮	⋮	⋮	⋮

FIG. 4

CAR SHARING PARKING LOT INFORMATION TABLE

PARKING LOT NAME	PARKING TIME	NUMBER OF PARKED VEHICLES	LEARNED USE PREDICTION VALUE (ENTER-EXIT)	AREA CHARACTERISTICS
A	11:31～12:00	3	5-4	A: RESIDENTIAL AREA B: IN FRONT OF STATION
A	12:01～12:30	3	4-4	A: RESIDENTIAL AREA B: IN FRONT OF STATION
A	12:31～13:00	3	3-4	A: RESIDENTIAL AREA B: IN FRONT OF STATION
A	13:01～13:30	3	2-3	A: RESIDENTIAL AREA B: IN FRONT OF STATION
A	13:31～14:00	3	2-2	A: RESIDENTIAL AREA B: IN FRONT OF STATION
⋮	⋮	⋮	⋮	⋮
B	11:31～12:00	0	0-0	C: FACTORY B: IN FRONT OF STATION
B	12:01～12:30	0	2-4	C: FACTORY B: IN FRONT OF STATION
B	12:31～13:00	0	2-1	C: FACTORY B: IN FRONT OF STATION
B	13:01～13:30	0	4-1	C: FACTORY B: IN FRONT OF STATION
B	13:31～14:00	0	1-0	C: FACTORY B: IN FRONT OF STATION
⋮	⋮	⋮	⋮	⋮

FIG. 5

RESERVATION INFORMATION TABLE

PARKING LOT AT DEPARTURE POINT	DEPARTURE TIME	PARKING LOT AT ARRIVAL POINT	ARRIVAL TIME	USER ID	USER NAME
B	12:10	A	12:50	0001	YAMADA
A	12:40	C	13:40	0002	SATO
⋮	⋮	⋮	⋮	⋮	⋮

FIG. 6

INCENTIVE CONDITION TABLE

USER ID	CURRENT TIME	GUIDED TIME	PARKING LOT AT DEPARTURE POINT	PARKING LOT AT ARRIVAL POINT	NOTIFICATION METHOD	INCENTIVE CONTENT	AMOUNT OF INCENTIVE	PROBABILITY OF MOVING
001	12:00	13:30	C	A	MAIL	FEE DISCOUNT	20%	22
002	12:00	13:30	C	A	MAIL	FEE DISCOUNT	50%	51
003	12:00	13:30	C	A	MAIL	COUPON	20%	57
004	12:00	13:30	C	A	MAIL	COUPON	50%	83
005	12:00	13:30	C	A	SMARTPHONE	FEE DISCOUNT	20%	49
006	12:00	13:30	C	A	SMARTPHONE	FEE DISCOUNT	50%	79
007	12:00	13:30	C	A	SMARTPHONE	COUPON	20%	32
008	12:00	13:30	C	A	SMARTPHONE	COUPON	50%	53
009	12:00	13:30	C	A	MAIL	FEE DISCOUNT	20%	33
010	12:00	13:30	C	A	MAIL	FEE DISCOUNT	50%	81
011	12:00	13:30	C	A	MAIL	COUPON	20%	72
012	12:00	13:30	C	A	MAIL	COUPON	50%	61
013	12:00	13:30	C	A	SMARTPHONE	FEE DISCOUNT	20%	84
014	12:00	13:30	C	A	SMARTPHONE	FEE DISCOUNT	50%	62
015	12:00	13:30	C	A	SMARTPHONE	COUPON	20%	27
016	12:00	13:30	C	A	SMARTPHONE	COUPON	50%	41
017	12:00	13:30	C	A	MAIL	FEE DISCOUNT	20%	26
018	12:00	13:30	C	A	MAIL	FEE DISCOUNT	50%	58
019	12:00	13:30	C	A	MAIL	COUPON	20%	96
020	12:00	13:30	C	A	MAIL	COUPON	50%	1
021	12:00	13:30	C	A	SMARTPHONE	FEE DISCOUNT	20%	50
022	12:00	13:30	C	A	SMARTPHONE	FEE DISCOUNT	50%	5
023	12:00	13:30	C	A	SMARTPHONE	COUPON	20%	73
024	12:00	13:30	C	A	SMARTPHONE	COUPON	50%	72

FIG. 7

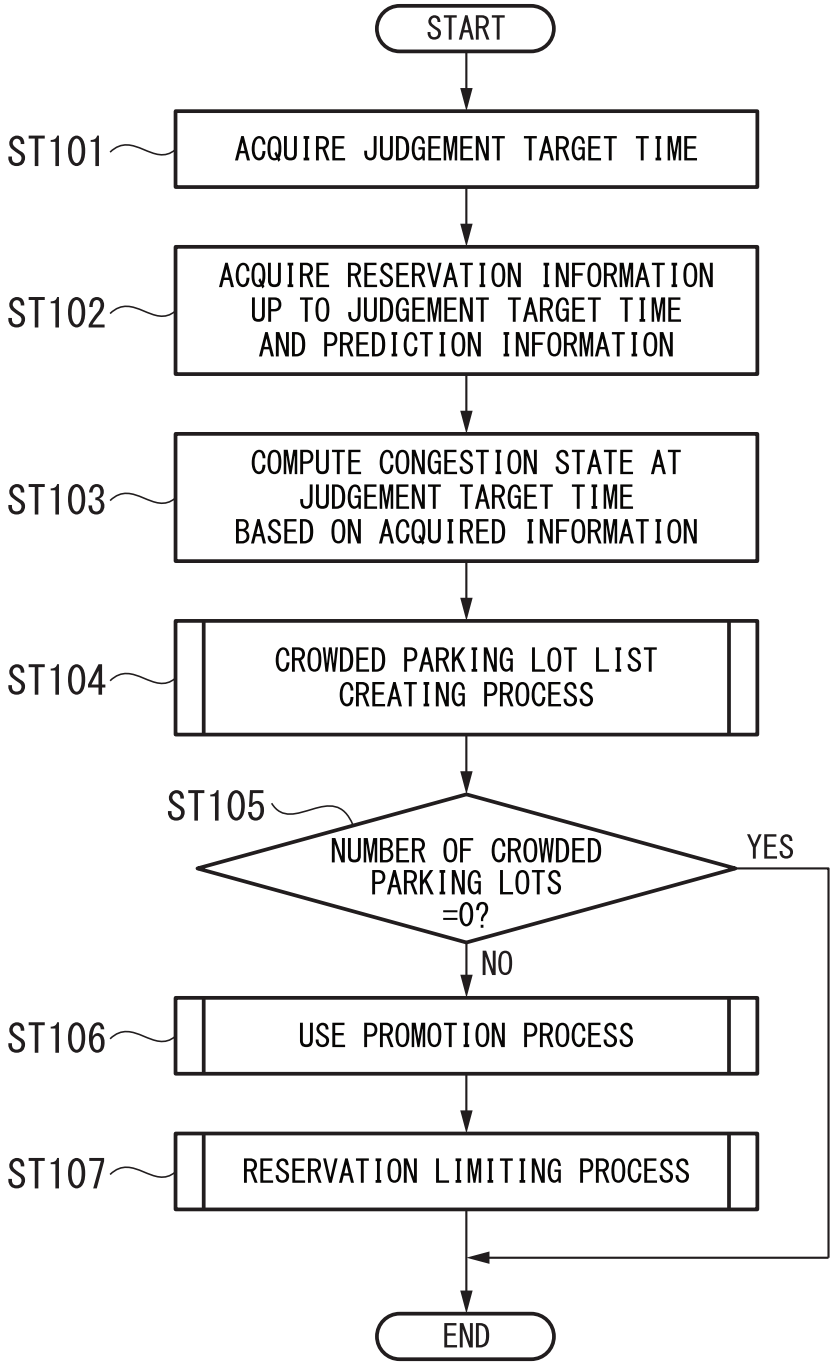

START
ST101
ACQUIRE JUDGEMENT TARGET TIME
ST102
ACQUIRE RESERVATION INFORMATION UP TO JUDGEMENT TARGET TIME AND PREDICTION INFORMATION
ST103
COMPUTE CONGESTION STATE AT JUDGEMENT TARGET TIME BASED ON ACQUIRED INFORMATION
ST104
CROWDED PARKING LOT LIST CREATING PROCESS
ST105
NUMBER OF CROWDED PARKING LOTS =0?
YES
NO
ST106
USE PROMOTION PROCESS
ST107
RESERVATION LIMITING PROCESS
END

FIG. 8

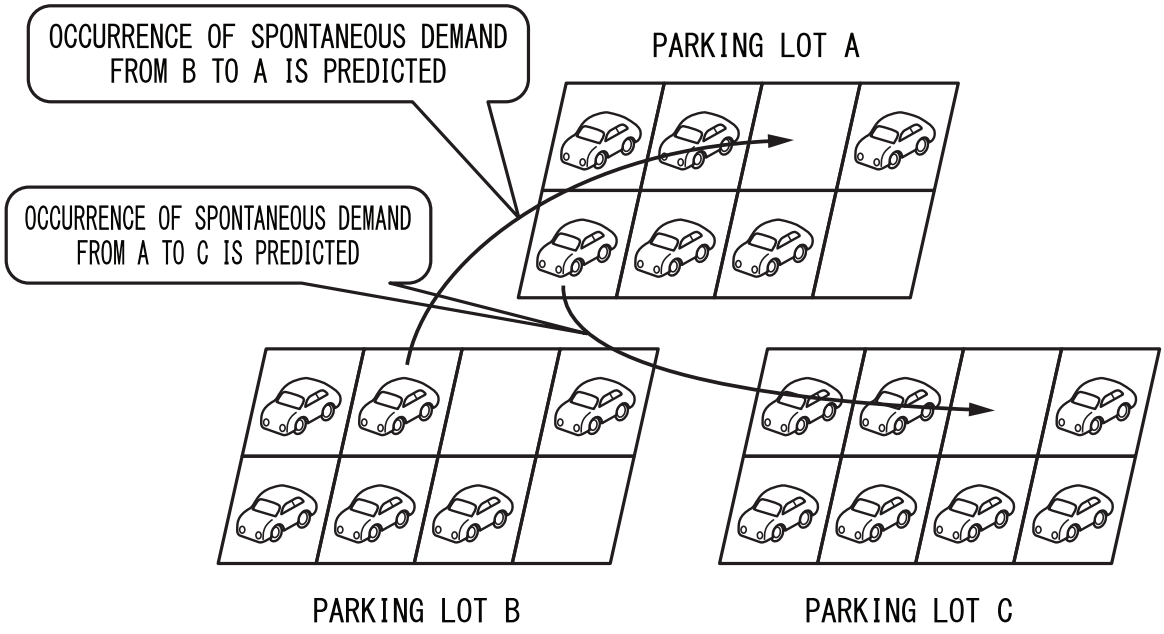

OCCURRENCE OF SPONTANEOUS DEMAND FROM B TO A IS PREDICTED
OCCURRENCE OF SPONTANEOUS DEMAND FROM A TO C IS PREDICTED
PARKING LOT A
PARKING LOT B
PARKING LOT C

FIG. 9

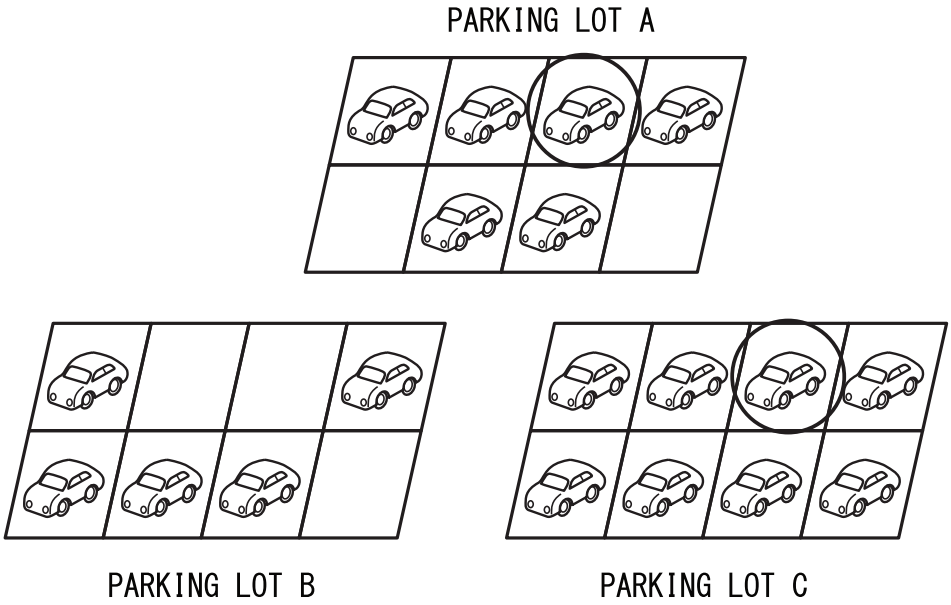

PARKING LOT A
PARKING LOT B
PARKING LOT C

FIG. 10

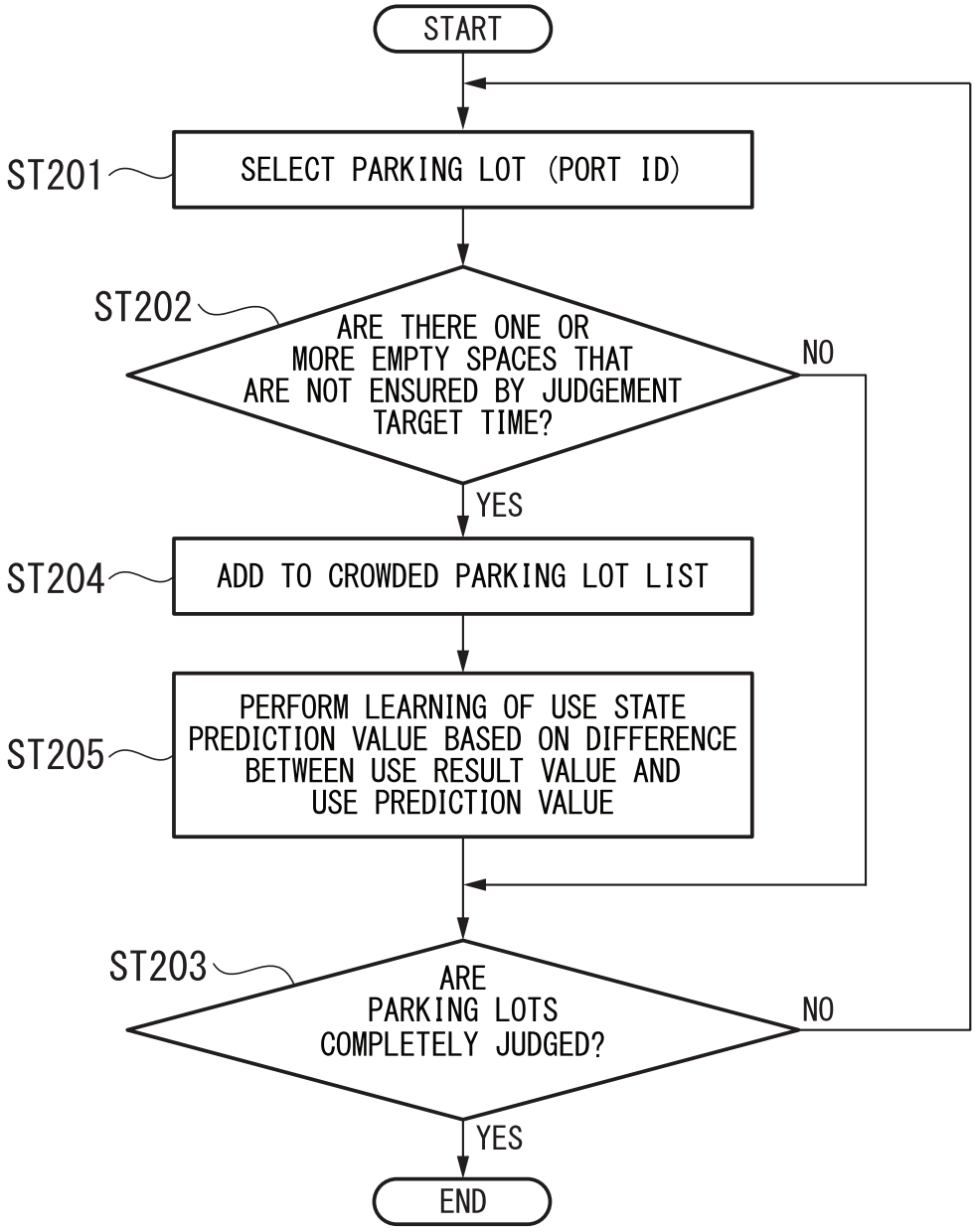

START
ST201
SELECT PARKING LOT (PORT ID)
ST202
ARE THERE ONE OR MORE EMPTY SPACES THAT ARE NOT ENSURED BY JUDGEMENT TARGET TIME?
NO
YES
ST204
ADD TO CROWDED PARKING LOT LIST
ST205
PERFORM LEARNING OF USE STATE PREDICTION VALUE BASED ON DIFFERENCE BETWEEN USE RESULT VALUE AND USE PREDICTION VALUE
ST203
ARE PARKING LOTS COMPLETELY JUDGED?
NO
YES
END

FIG. 11

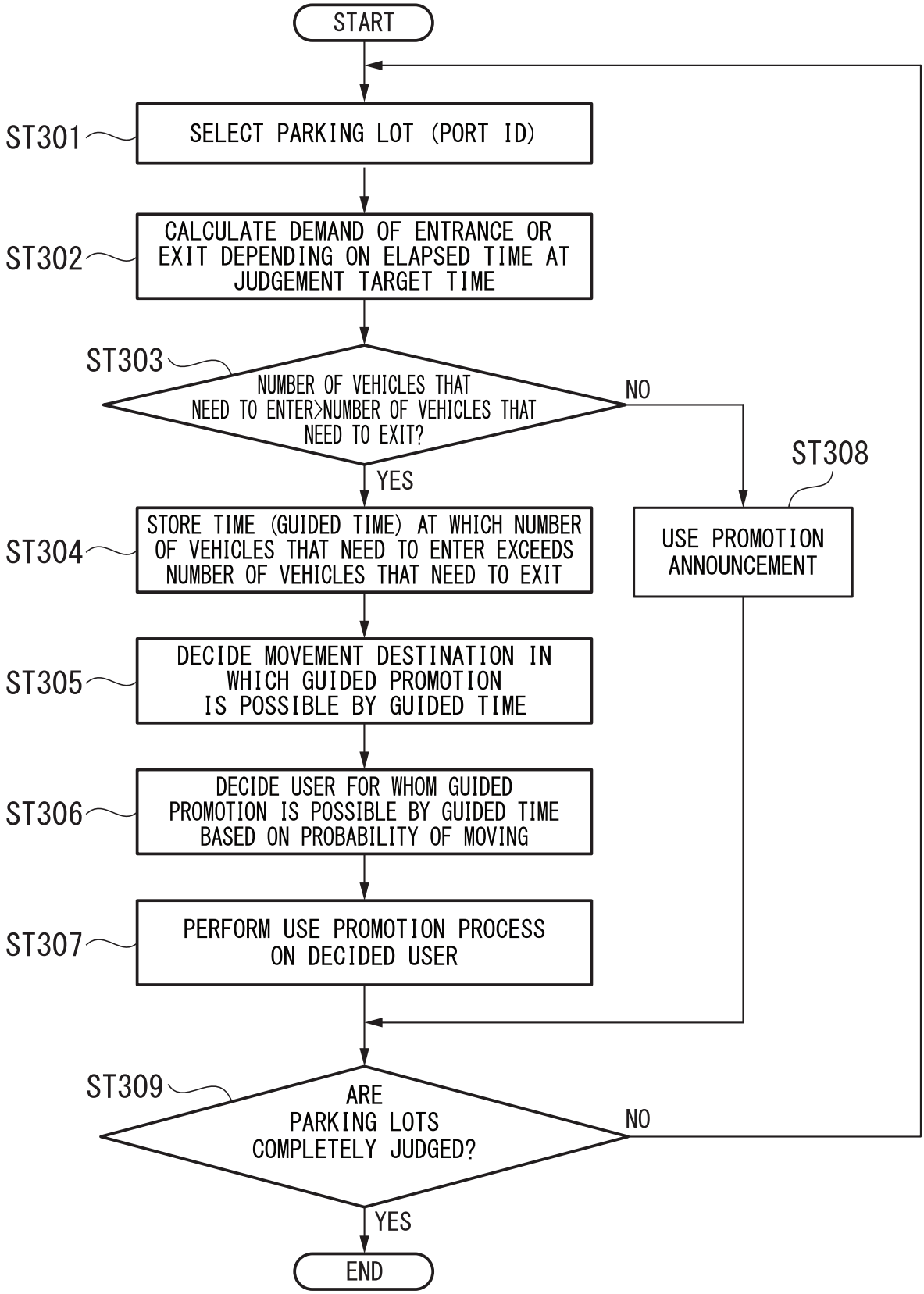

START
ST301
SELECT PARKING LOT (PORT ID)
ST302
CALCULATE DEMAND OF ENTRANCE OR EXIT DEPENDING ON ELAPSED TIME AT JUDGEMENT TARGET TIME
ST303
NUMBER OF VEHICLES THAT NEED TO ENTER>NUMBER OF VEHICLES THAT NEED TO EXIT?
NO
YES
ST308
USE PROMOTION ANNOUNCEMENT
ST304
STORE TIME (GUIDED TIME) AT WHICH NUMBER OF VEHICLES THAT NEED TO ENTER EXCEEDS NUMBER OF VEHICLES THAT NEED TO EXIT
ST305
DECIDE MOVEMENT DESTINATION IN WHICH GUIDED PROMOTION IS POSSIBLE BY GUIDED TIME
ST306
DECIDE USER FOR WHOM GUIDED PROMOTION IS POSSIBLE BY GUIDED TIME BASED ON PROBABILITY OF MOVING
ST307
PERFORM USE PROMOTION PROCESS ON DECIDED USER
ST309
ARE PARKING LOTS COMPLETELY JUDGED?
NO
YES
END

FIG. 12

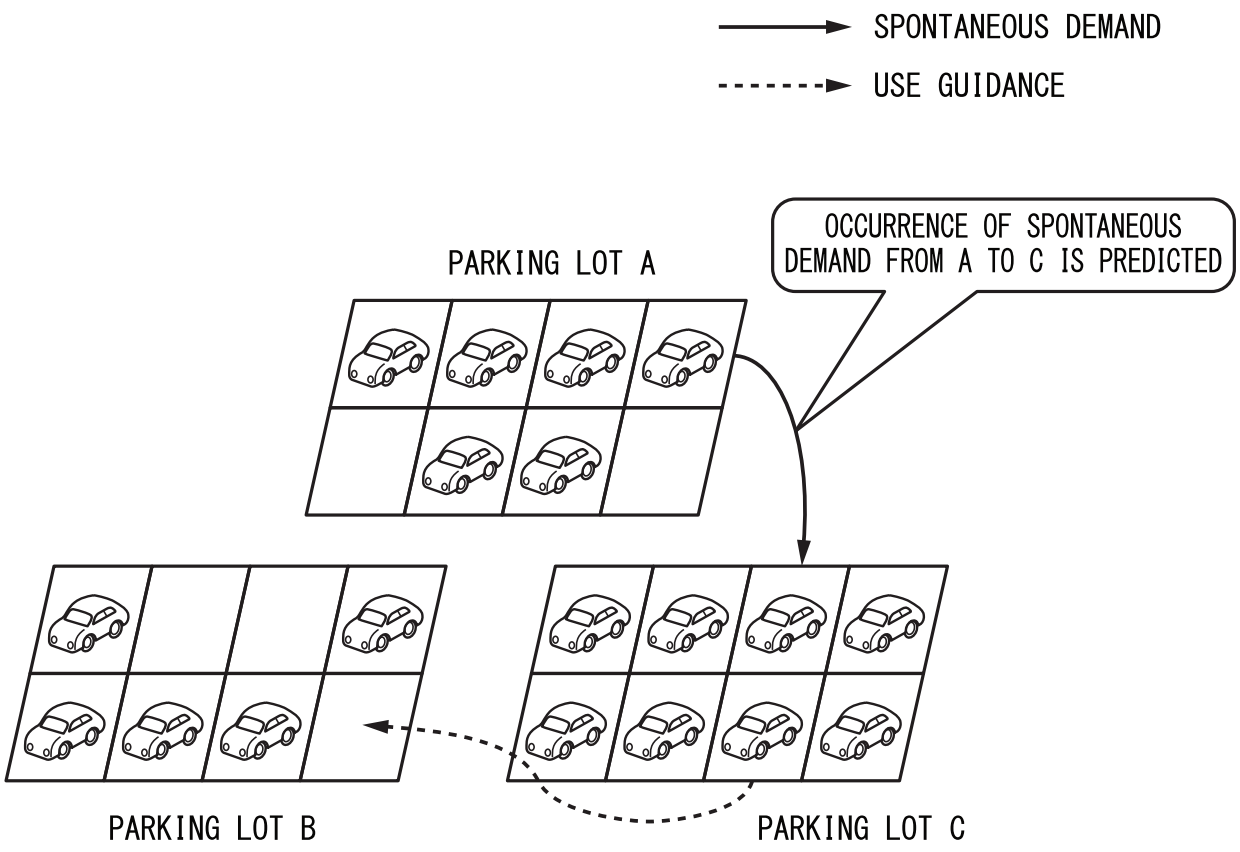

SPONTANEOUS DEMAND
USE GUIDANCE
OCCURRENCE OF SPONTANEOUS DEMAND FROM A TO C IS PREDICTED
PARKING LOT A
PARKING LOT B
PARKING LOT C

FIG. 13

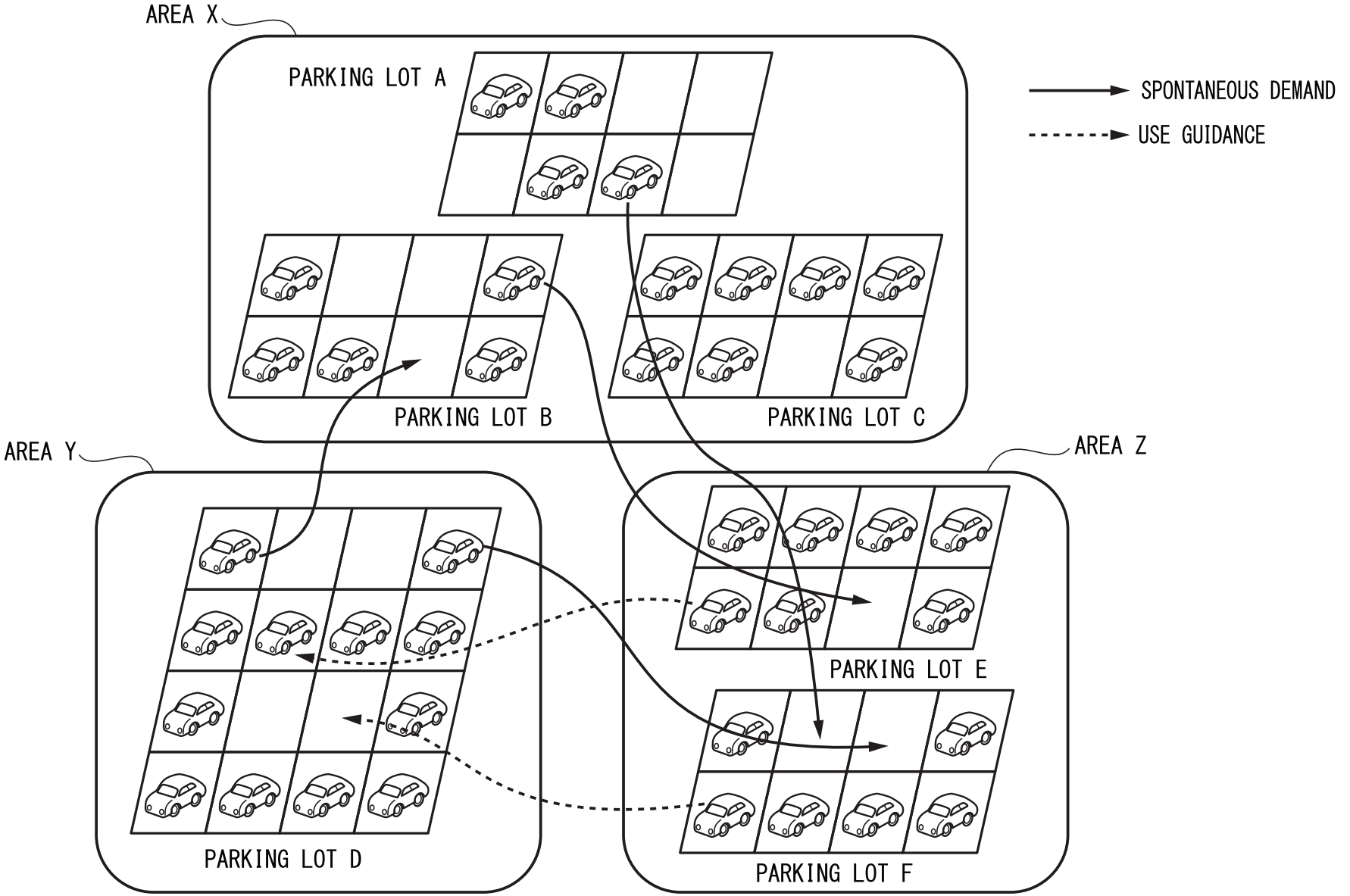
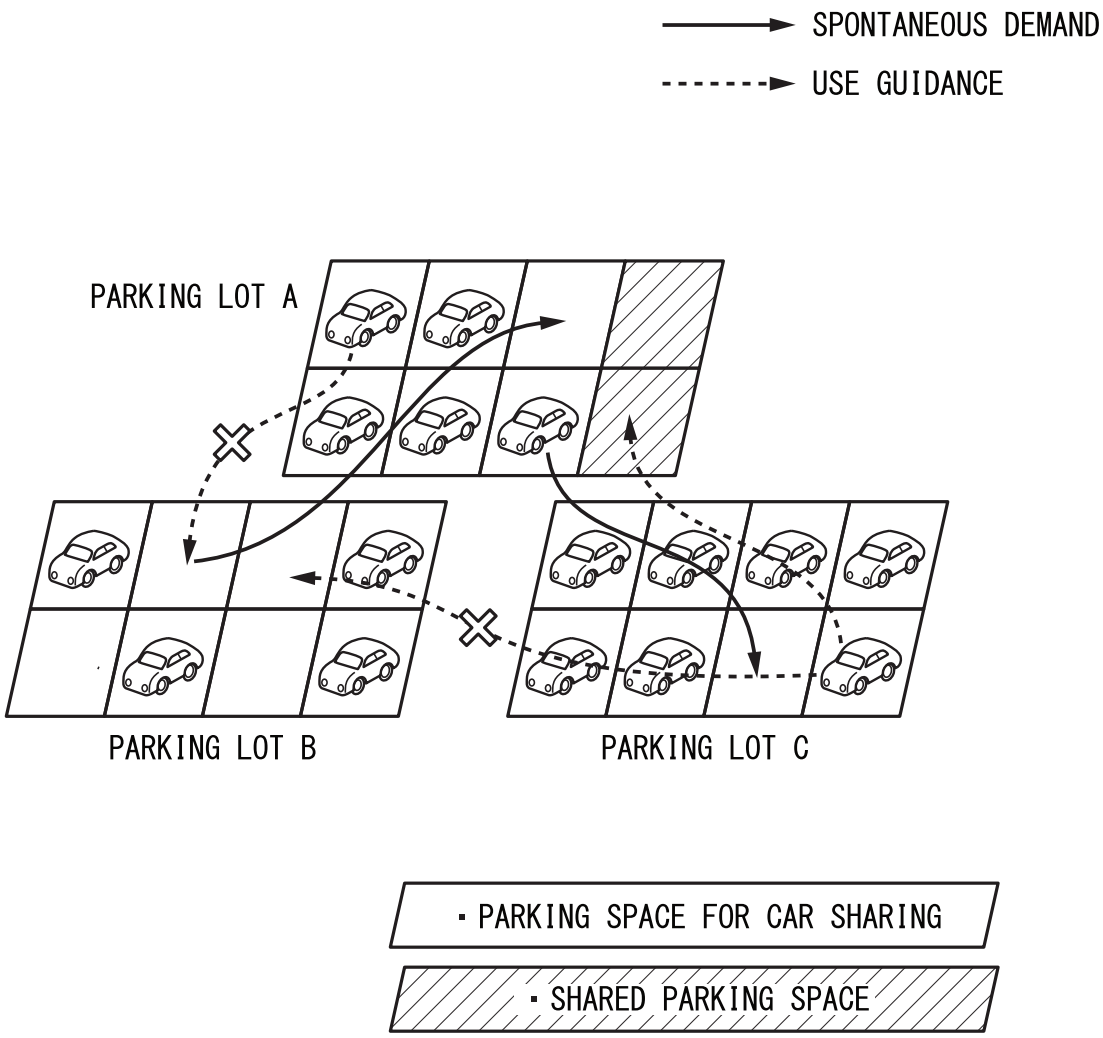

AREA X
PARKING LOT A
PARKING LOT B
PARKING LOT C
AREA Y
PARKING LOT D
AREA Z
PARKING LOT E
PARKING LOT F
SPONTANEOUS DEMAND
USE GUIDANCE

FIG. 14


SPONTANEOUS DEMAND
USE GUIDANCE
PARKING LOT A
PARKING LOT B
PARKING LOT C
・PARKING SPACE FOR CAR SHARING
・SHARED PARKING SPACE