FIG.1

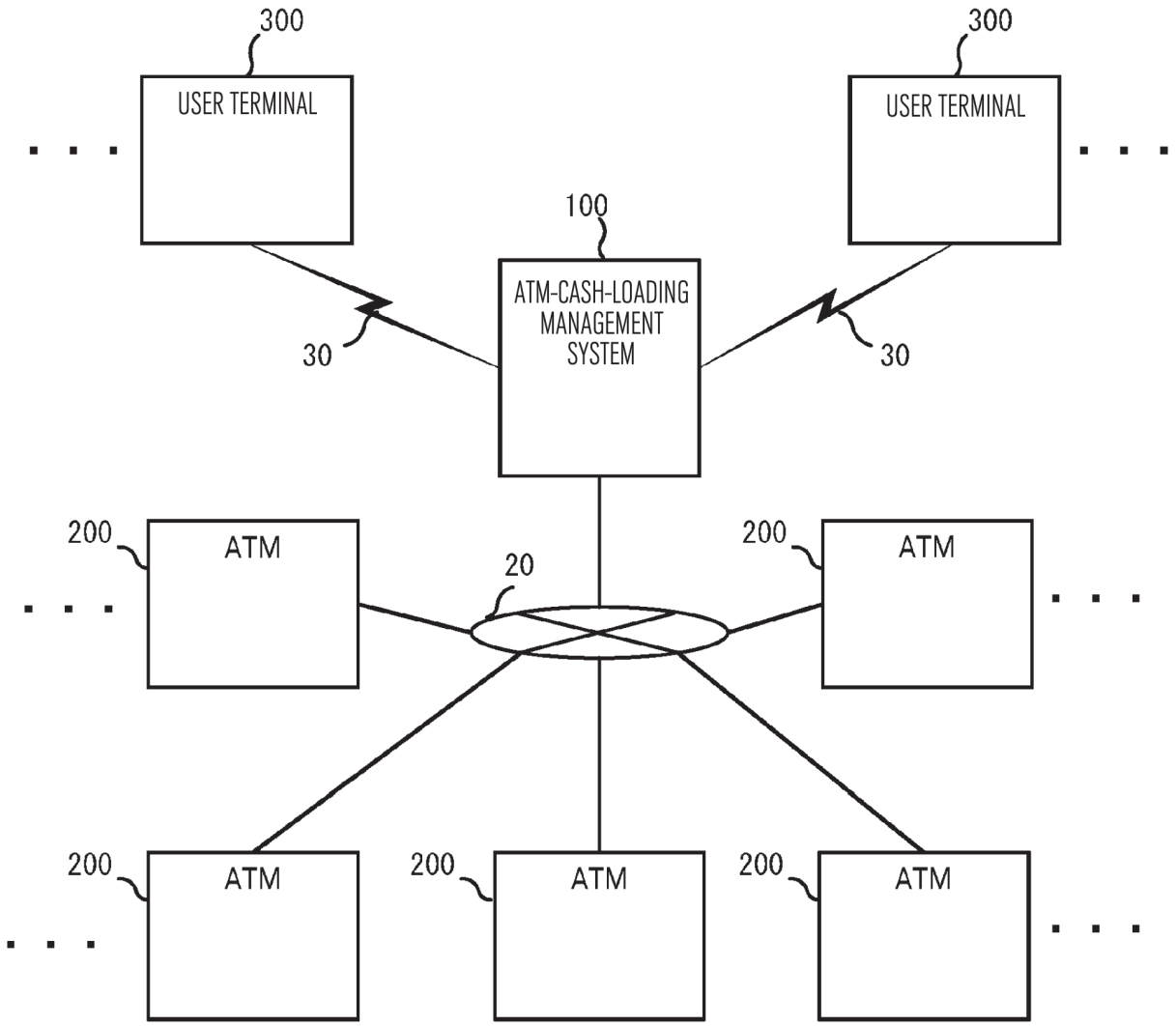

300
USER TERMINAL
300
USER TERMINAL
100
ATM-CASH-LOADING MANAGEMENT SYSTEM
30
30
200
ATM
20
200
ATM
200
ATM
200
ATM
200
ATM

FIG.2

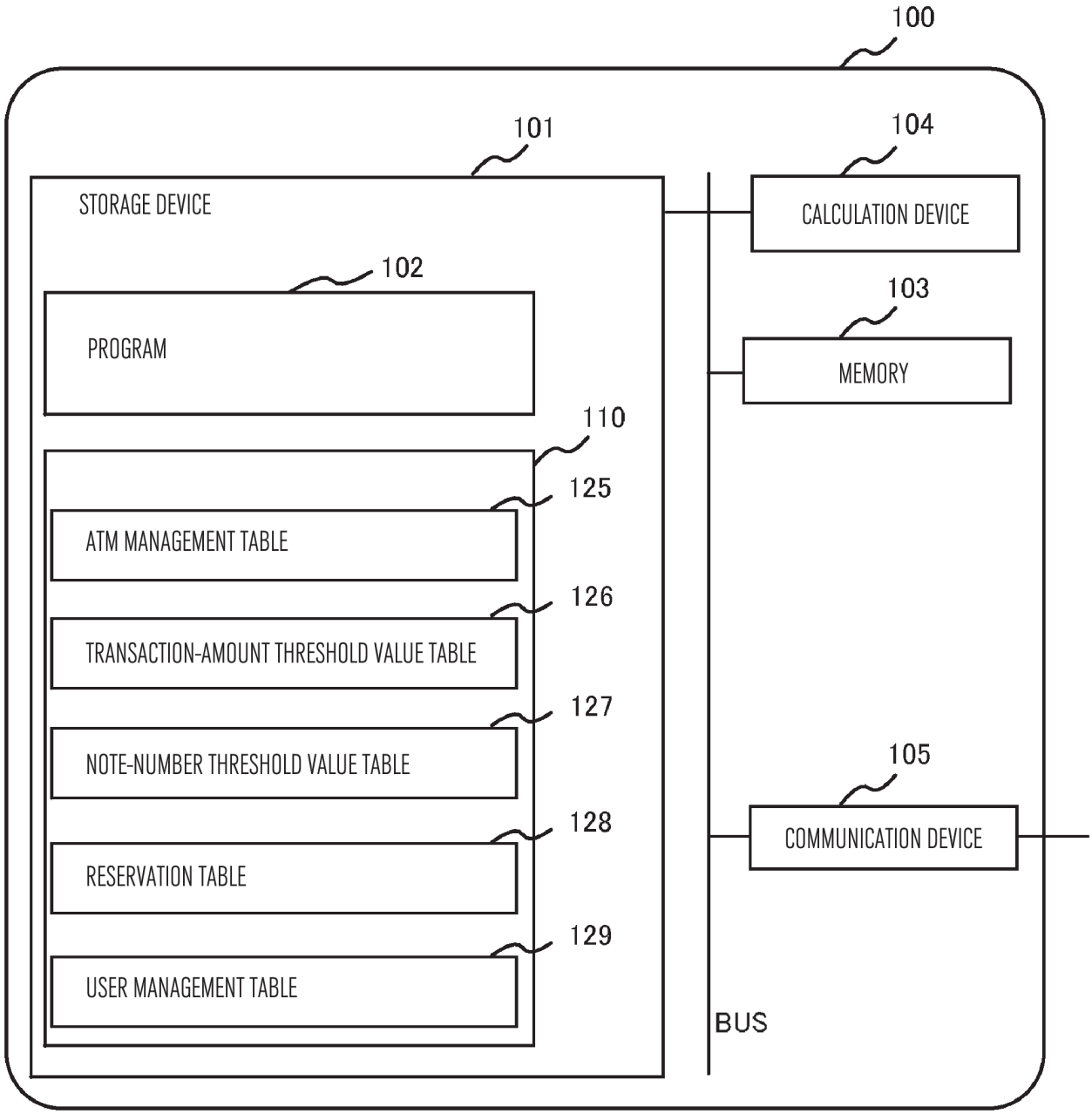

100
101
STORAGE DEVICE
102
PROGRAM
110
125
ATM MANAGEMENT TABLE
126
TRANSACTION-AMOUNT THRESHOLD VALUE TABLE
127
NOTE-NUMBER THRESHOLD VALUE TABLE
128
RESERVATION TABLE
129
USER MANAGEMENT TABLE
104
CALCULATION DEVICE
103
MEMORY
105
COMMUNICATION DEVICE
BUS

FIG.3

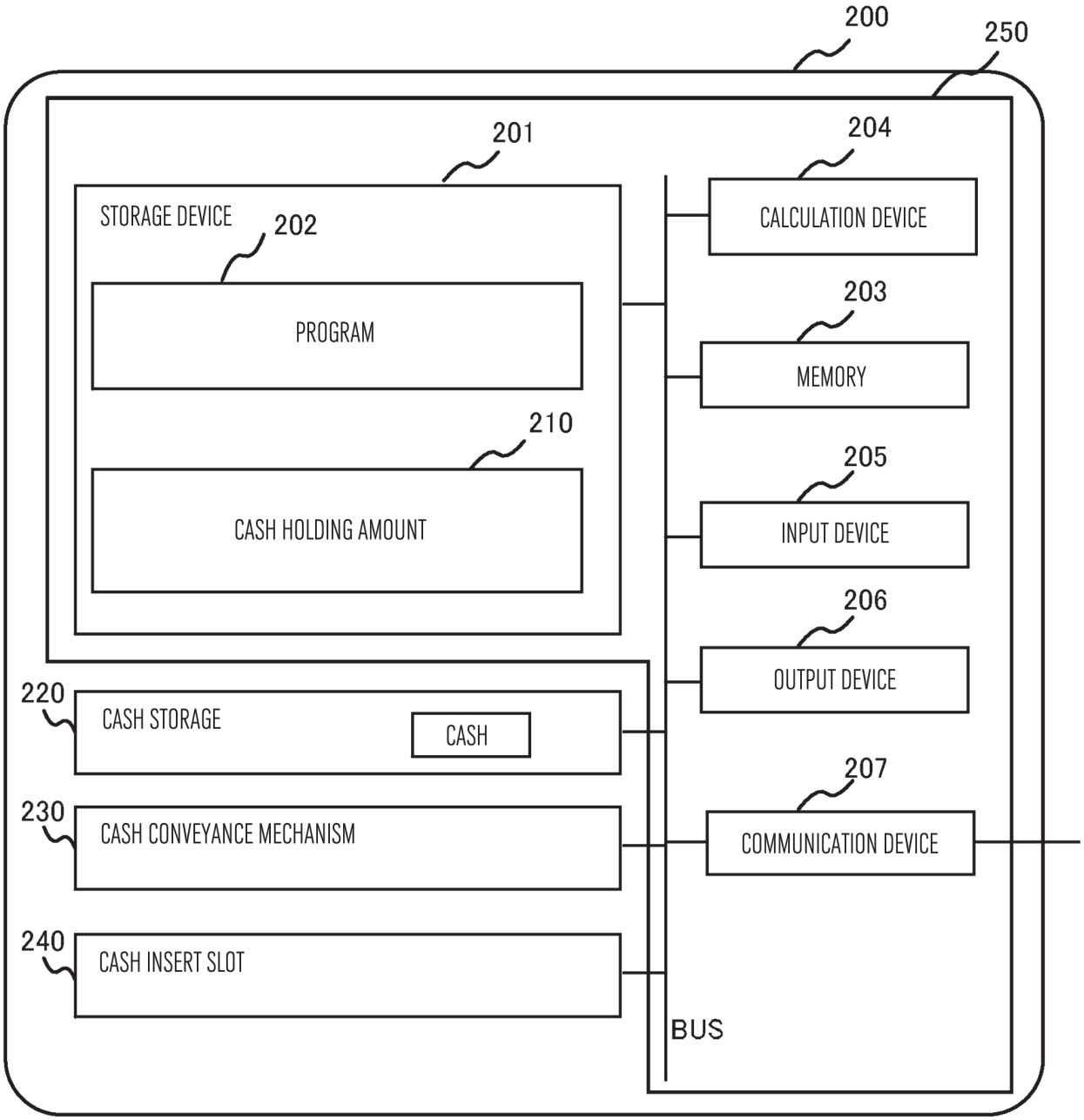

200
250
201
204
STORAGE DEVICE
202
CALCULATION DEVICE
PROGRAM
203
MEMORY
210
205
CASH HOLDING AMOUNT
INPUT DEVICE
206
OUTPUT DEVICE
220
CASH STORAGE
CASH
207
230
CASH CONVEYANCE MECHANISM
COMMUNICATION DEVICE
240
CASH INSERT SLOT
BUS

FIG.4

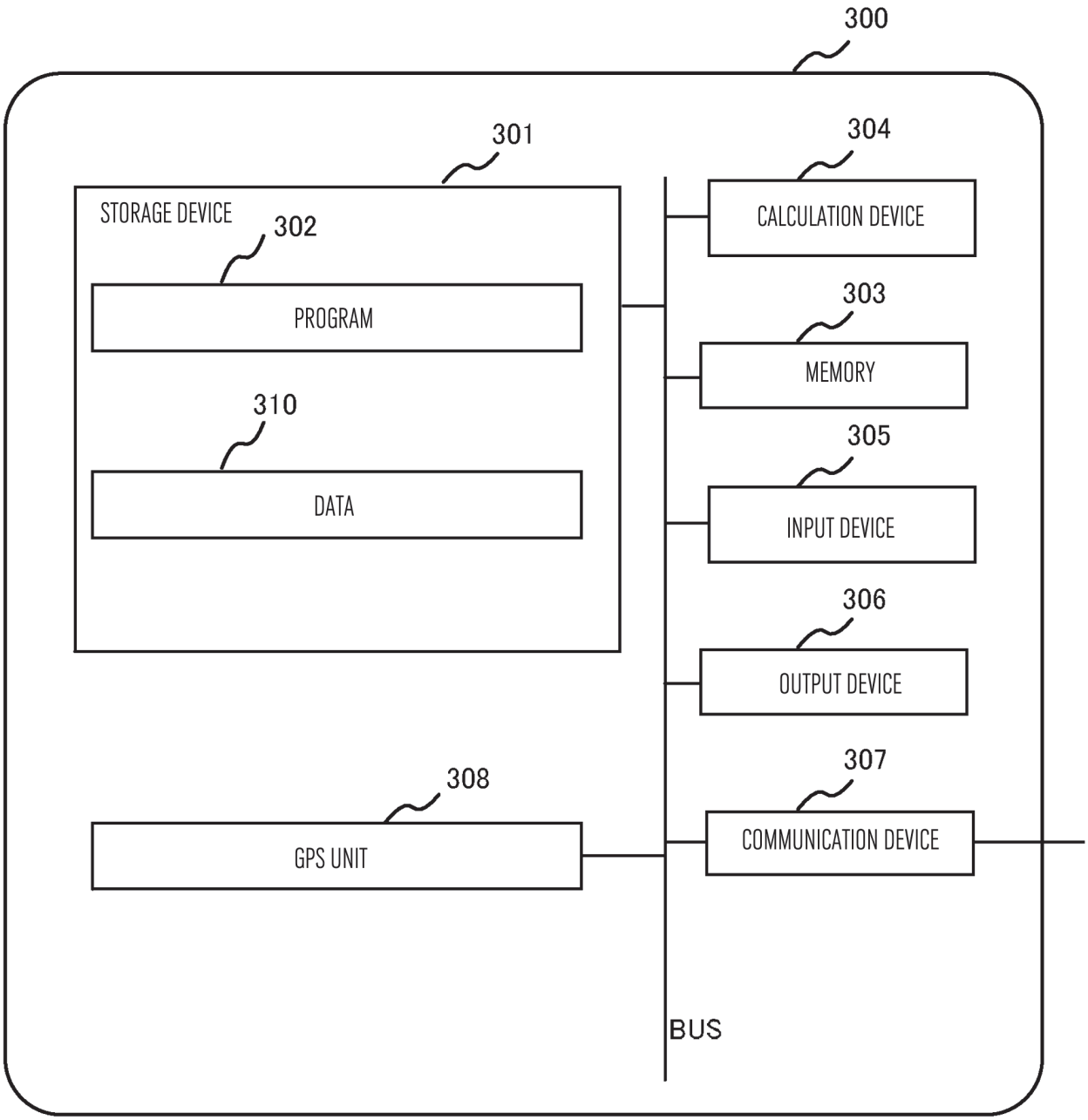

300
301
STORAGE DEVICE
302
PROGRAM
310
DATA
304
CALCULATION DEVICE
303
MEMORY
305
INPUT DEVICE
306
OUTPUT DEVICE
307
COMMUNICATION DEVICE
308
GPS UNIT
BUS

FIG.5

ATM MANAGEMENT TABLE

125

ATM MACHINE NUMBER	INSTALLATION PLACE	CASH BALANCE (JPY)	TYPE-SPECIFIC NUMBER OF NOTES	SCHEDULED BALANCE (JPY)	TYPE-SPECIFIC SCHEDULED NUMBER OF NOTES	DEPOSIT POINT	WITHDRAWAL POINT
xxx-10001	IN X STATION, SHIBUYA WARD X-Y-Z, TOKYO	9,200,000	JPY1000 / 500 JPY2000 / 500 JPY5000 / 500 JPY10000 / 520	9,130,000	JPY1000 / 500 JPY2000 / 500 JPY5000 / 500 JPY10000 / 513	0pt	5pt/JPY1000 NOTES 7pt/JPY2000 NOTES 12pt/JPY5000 NOTES 20pt/JPY10000 NOTES
yyy-10003	OMIYA CITY X-Y-Z, SAITAMA PREF.	400,000	JPY1000 / 10 JPY2000 / 0 JPY5000 / 60 JPY10000 / 9	450,000	JPY1000 / 10 JPY2000 / 0 JPY5000 / 60 JPY10000 / 14	20pt/JPY1000 NOTES 24pt/JPY10000 NOTES	0pt
zzz-10005	CHIBA CITY X-Y-Z, CHIBA PREF.	80,000	JPY1000 / 5 JPY2000 / 0 JPY5000 / 5 JPY10000 / 5	130,000	JPY1000 / 15 JPY2000 / 0 JPY5000 / 5 JPY10000 / 9	20pt/JPY1000 NOTES 15pt/JPY5000 NOTES 24pt/JPY10000 NOTES	0pt
...	...	...	...	...	...	...	...

FIG.6

TRANSACTION-AMOUNT THRESHOLD VALUE TABLE

126

	DEPOSIT		WITHDRAWAL	
	BALANCE	POINT	BALANCE	POINT
1ST THRESHOLD	JPY1,000,000 OR LESS	1pt/JPY1000	JPY9,000,000 OR MORE	1pt/JPY1000
2ND THRESHOLD	JPY500,000 OR LESS	5pt/JPY1000	JPY9,500,000 OR MORE	5pt/JPY1000
3RD THRESHOLD	JPY100,000 OR LESS	10pt/JPY1000	JPY9,900,000 OR MORE	10pt/JPY1000

FIG.7

127

NOTE-NUMBER THRESHOLD VALUE TABLE

	DEPOSIT					WITHDRAWAL				
	NOTE TYPE / REMAINING NUMBER OF NOTES	JPY10000 NOTES	JPY5000 NOTES	JPY2000 NOTES	JPY1000 NOTES	NOTE TYPE / REMAINING NUMBER OF NOTES	JPY10000 NOTES	JPY5000 NOTES	JPY2000 NOTES	JPY1000 NOTES
1ST THRESHOLD	50 NOTES OR LESS	—	—	—	7pt/ ONE NOTE	400 NOTES OR MORE	20pt/ ONE NOTE	12pt/ ONE NOTE	7pt/ ONE NOTE	5pt/ ONE NOTE
2ND THRESHOLD	30 NOTES OR LESS	12pt/ ONE NOTE	7pt/ ONE NOTE	—	10pt/ ONE NOTE	300 NOTES OR MORE	10pt/ ONE NOTE	5pt/ ONE NOTE	1pt/ ONE NOTE	—
3RD THRESHOLD	20 NOTES OR LESS	24pt/ ONE NOTE	15pt/ ONE NOTE	—	20pt/ ONE NOTE	200 NOTES OR MORE	5pt/ ONE NOTE	—	—	—

FIG.8

129

USER MANAGEMENT TABLE

USER ID	EMAIL ADDRESS	OBTAINED POINT	・・・
900001	XXX@YYY.ne.jp	10,00pt	・・・
900002	YYY@ZZZ.ne.jp	100pt	・・・
900003	ZZZ@AAA.ne.jp	0pt	・・・
・・・	・・・	・・・	・・・

FIG.9

128

RESERVATION TABLE

RESERVATION ID	USER ID	USER'S SCHEDULED ATM MACHINE NUMBER	RESERVATION DATE AND TIME	DEADLINE DATE AND TIME (EXPIRE ON)	TRANS-ACTION	AMOUNT	BREAKDOWN	SCHEDULED POINT
1111111	900001	xxx-10001	2014/11/05/ 11:02:31	2014/11/05/ 11:32:30	WITH-DRAWAL	70000JPY	JPY10000 NOTES	140pt
1234567	900599	yyy-10003	2014/11/05/ 11:03:20	2014/11/05/ 11:33:19	DEPOSIT	50000JPY	JPY10000 NOTES	120pt
7654321	900002	zzz-10005	2014/11/05/ 11:02:46	2014/11/05/ 11:33:45	DEPOSIT	50000JPY	JPY10000 NOTE: 4 NOTES JPY1000 NOTE: 10 NOTES	296pt
...	...	...	...	...	...	...	...	...

FIG.10

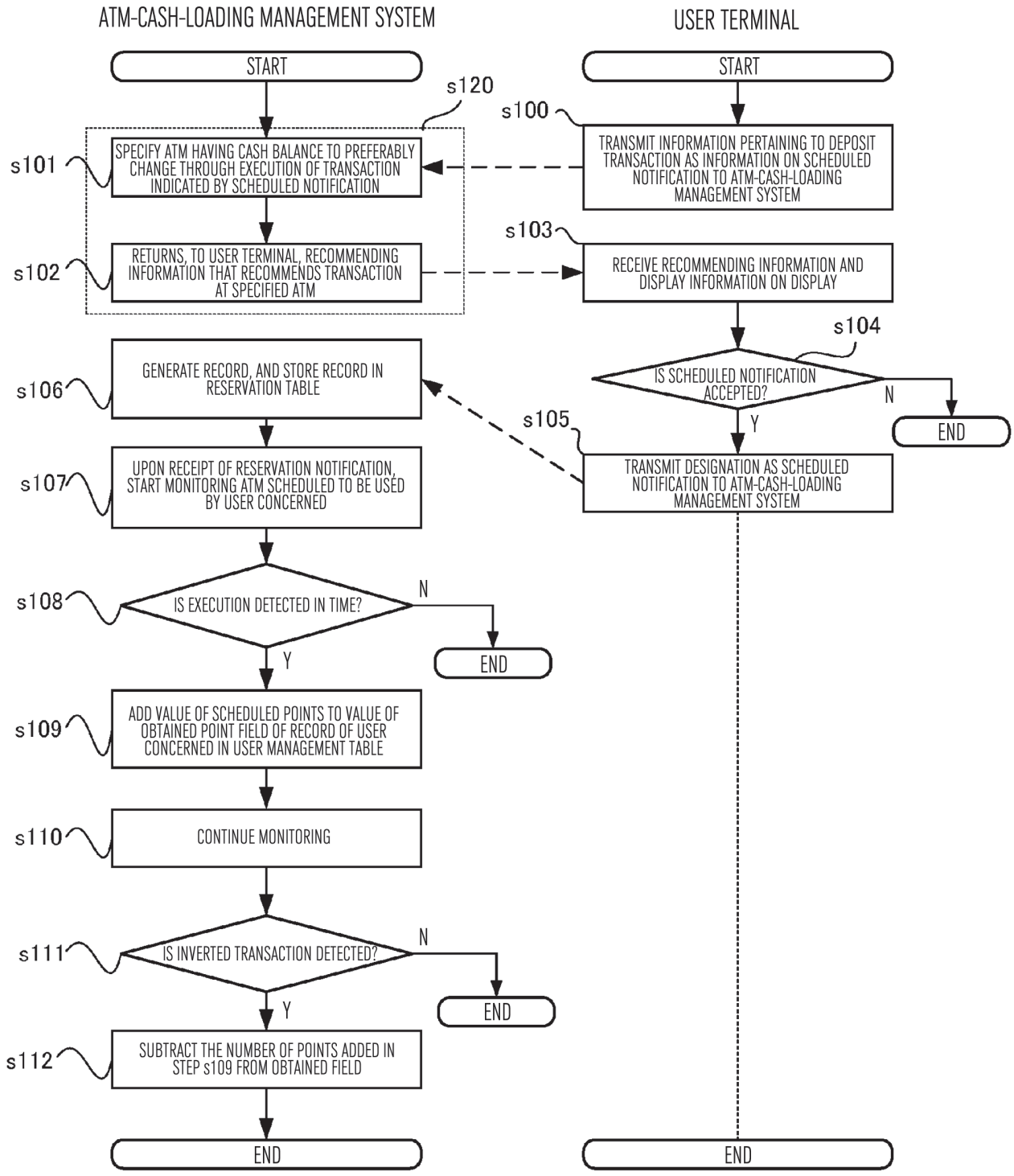

ATM-CASH-LOADING MANAGEMENT SYSTEM
USER TERMINAL
START
START
s120
s100
s101
SPECIFY ATM HAVING CASH BALANCE TO PREFERABLY CHANGE THROUGH EXECUTION OF TRANSACTION INDICATED BY SCHEDULED NOTIFICATION
TRANSMIT INFORMATION PERTAINING TO DEPOSIT TRANSACTION AS INFORMATION ON SCHEDULED NOTIFICATION TO ATM-CASH-LOADING MANAGEMENT SYSTEM
s102
RETURNS, TO USER TERMINAL, RECOMMENDING INFORMATION THAT RECOMMENDS TRANSACTION AT SPECIFIED ATM
s103
RECEIVE RECOMMENDING INFORMATION AND DISPLAY INFORMATION ON DISPLAY
s104
IS SCHEDULED NOTIFICATION ACCEPTED?
N
END
Y
s106
GENERATE RECORD, AND STORE RECORD IN RESERVATION TABLE
s105
TRANSMIT DESIGNATION AS SCHEDULED NOTIFICATION TO ATM-CASH-LOADING MANAGEMENT SYSTEM
s107
UPON RECEIPT OF RESERVATION NOTIFICATION, START MONITORING ATM SCHEDULED TO BE USED BY USER CONCERNED
s108
IS EXECUTION DETECTED IN TIME?
N
END
Y
s109
ADD VALUE OF SCHEDULED POINTS TO VALUE OF OBTAINED POINT FIELD OF RECORD OF USER CONCERNED IN USER MANAGEMENT TABLE
s110
CONTINUE MONITORING
s111
IS INVERTED TRANSACTION DETECTED?
N
END
Y
s112
SUBTRACT THE NUMBER OF POINTS ADDED IN STEP s109 FROM OBTAINED FIELD
END
END

FIG.11

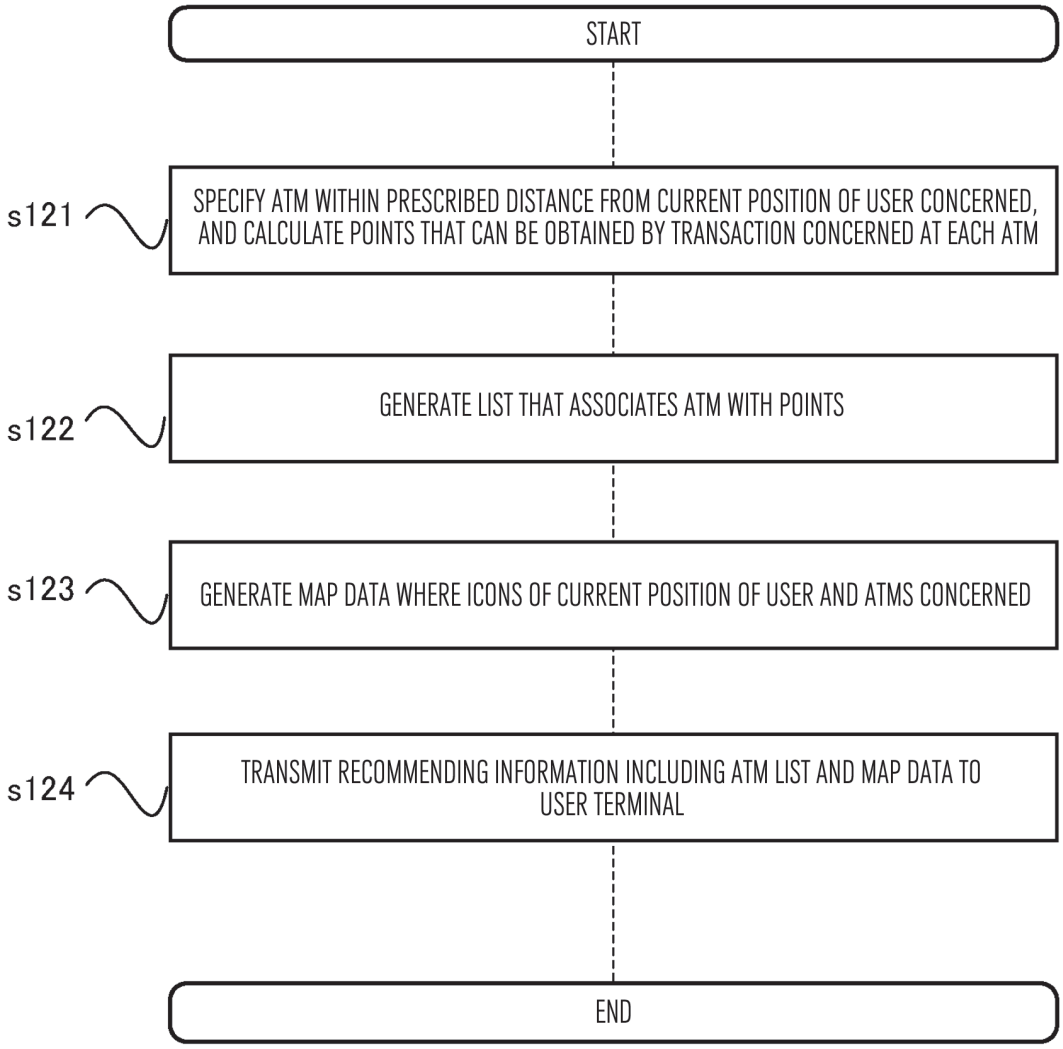

START
s121
SPECIFY ATM WITHIN PRESCRIBED DISTANCE FROM CURRENT POSITION OF USER CONCERNED, AND CALCULATE POINTS THAT CAN BE OBTAINED BY TRANSACTION CONCERNED AT EACH ATM
s122
GENERATE LIST THAT ASSOCIATES ATM WITH POINTS
s123
GENERATE MAP DATA WHERE ICONS OF CURRENT POSITION OF USER AND ATMS CONCERNED
s124
TRANSMIT RECOMMENDING INFORMATION INCLUDING ATM LIST AND MAP DATA TO USER TERMINAL
END

FIG.12

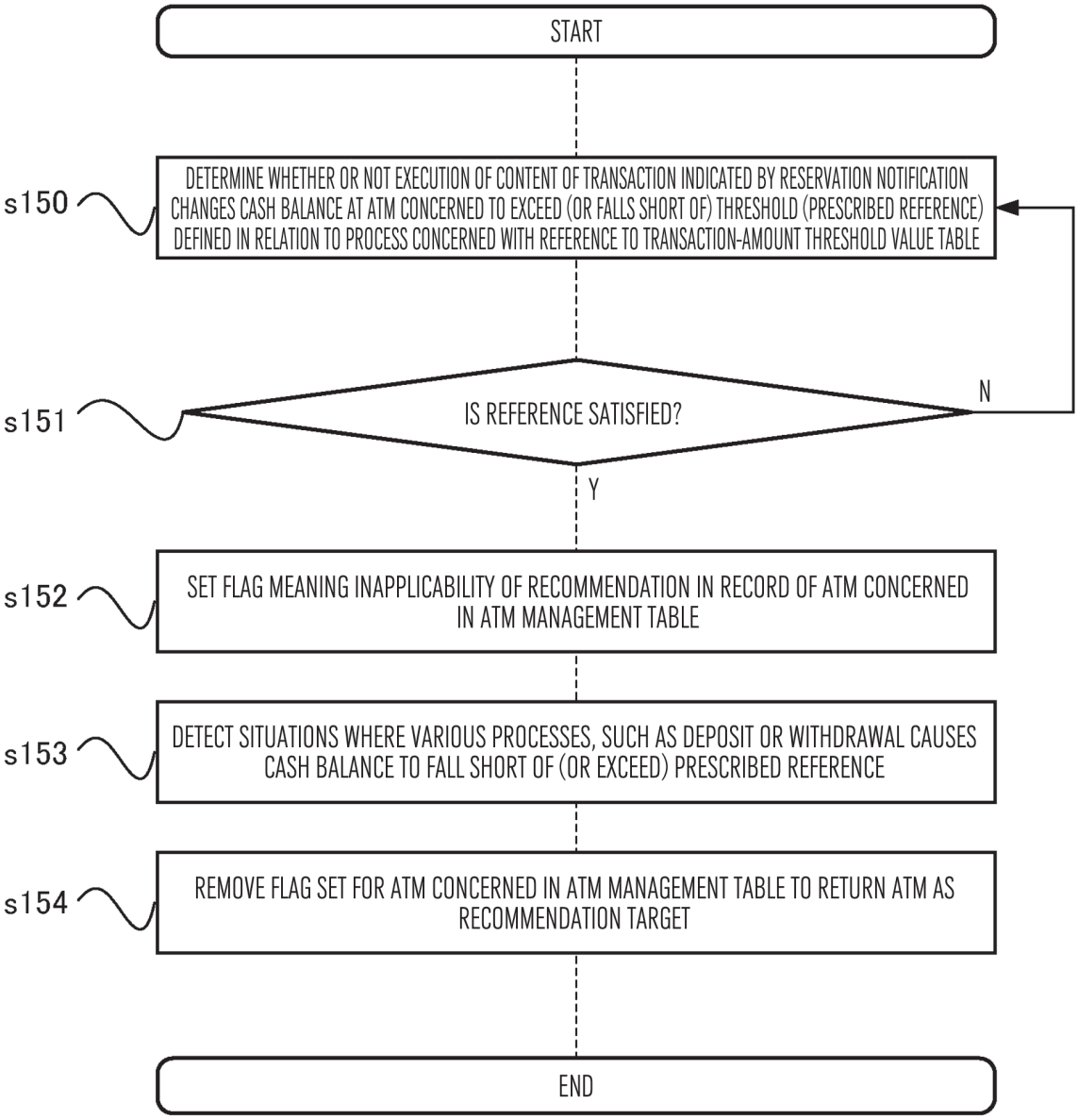

START
s150
DETERMINE WHETHER OR NOT EXECUTION OF CONTENT OF TRANSACTION INDICATED BY RESERVATION NOTIFICATION CHANGES CASH BALANCE AT ATM CONCERNED TO EXCEED (OR FALLS SHORT OF) THRESHOLD (PRESCRIBED REFERENCE) DEFINED IN RELATION TO PROCESS CONCERNED WITH REFERENCE TO TRANSACTION-AMOUNT THRESHOLD VALUE TABLE
s151
IS REFERENCE SATISFIED?
N
Y
s152
SET FLAG MEANING INAPPLICABILITY OF RECOMMENDATION IN RECORD OF ATM CONCERNED IN ATM MANAGEMENT TABLE
s153
DETECT SITUATIONS WHERE VARIOUS PROCESSES, SUCH AS DEPOSIT OR WITHDRAWAL CAUSES CASH BALANCE TO FALL SHORT OF (OR EXCEED) PRESCRIBED REFERENCE
s154
REMOVE FLAG SET FOR ATM CONCERNED IN ATM MANAGEMENT TABLE TO RETURN ATM AS RECOMMENDATION TARGET
END

FIG.13

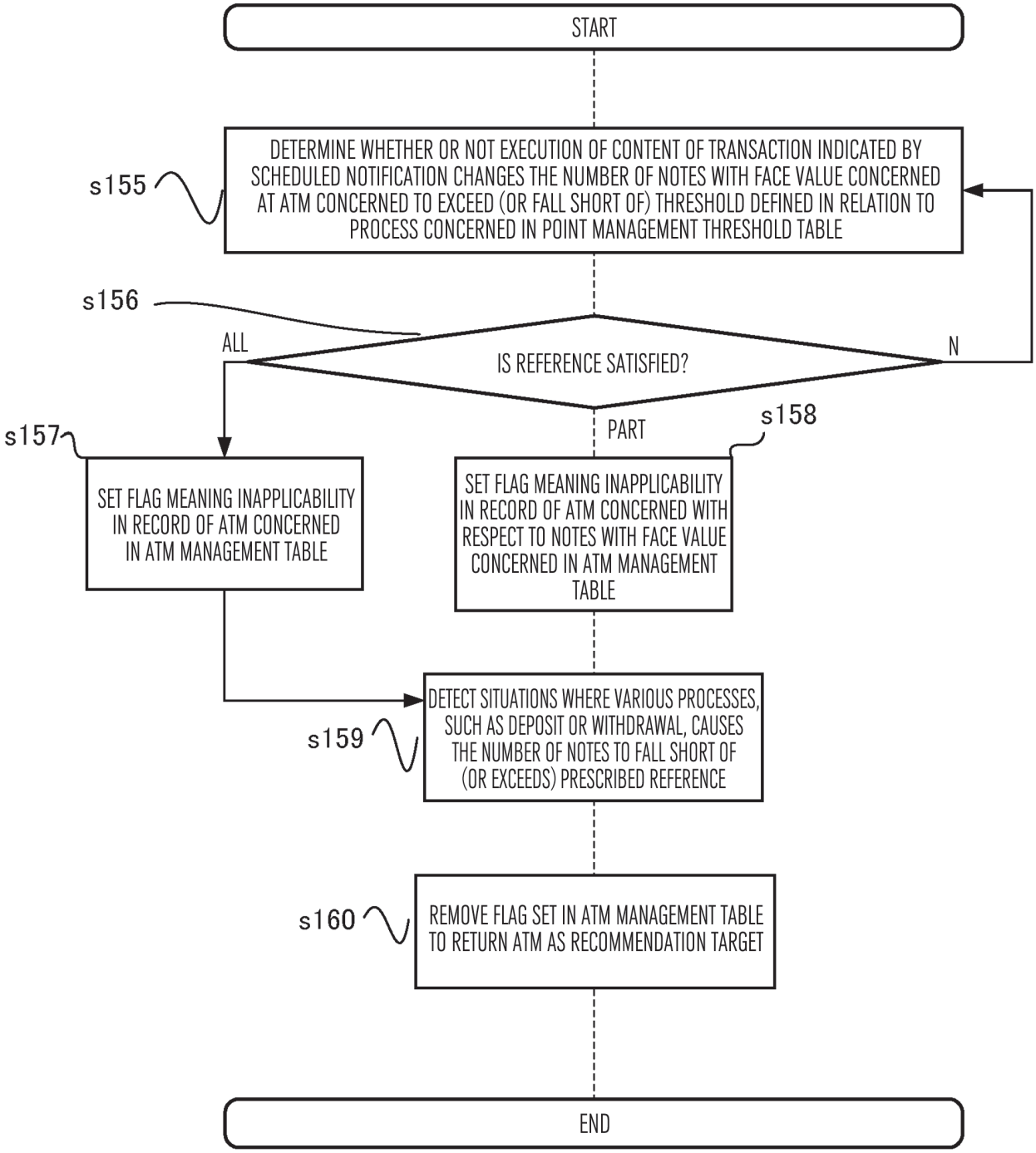

START
s155
DETERMINE WHETHER OR NOT EXECUTION OF CONTENT OF TRANSACTION INDICATED BY SCHEDULED NOTIFICATION CHANGES THE NUMBER OF NOTES WITH FACE VALUE CONCERNED AT ATM CONCERNED TO EXCEED (OR FALL SHORT OF) THRESHOLD DEFINED IN RELATION TO PROCESS CONCERNED IN POINT MANAGEMENT THRESHOLD TABLE
s156
IS REFERENCE SATISFIED?
ALL
N
PART
s157
SET FLAG MEANING INAPPLICABILITY IN RECORD OF ATM CONCERNED IN ATM MANAGEMENT TABLE
s158
SET FLAG MEANING INAPPLICABILITY IN RECORD OF ATM CONCERNED WITH RESPECT TO NOTES WITH FACE VALUE CONCERNED IN ATM MANAGEMENT TABLE
s159
DETECT SITUATIONS WHERE VARIOUS PROCESSES, SUCH AS DEPOSIT OR WITHDRAWAL, CAUSES THE NUMBER OF NOTES TO FALL SHORT OF (OR EXCEEDS) PRESCRIBED REFERENCE
s160
REMOVE FLAG SET IN ATM MANAGEMENT TABLE TO RETURN ATM AS RECOMMENDATION TARGET
END

FIG.14

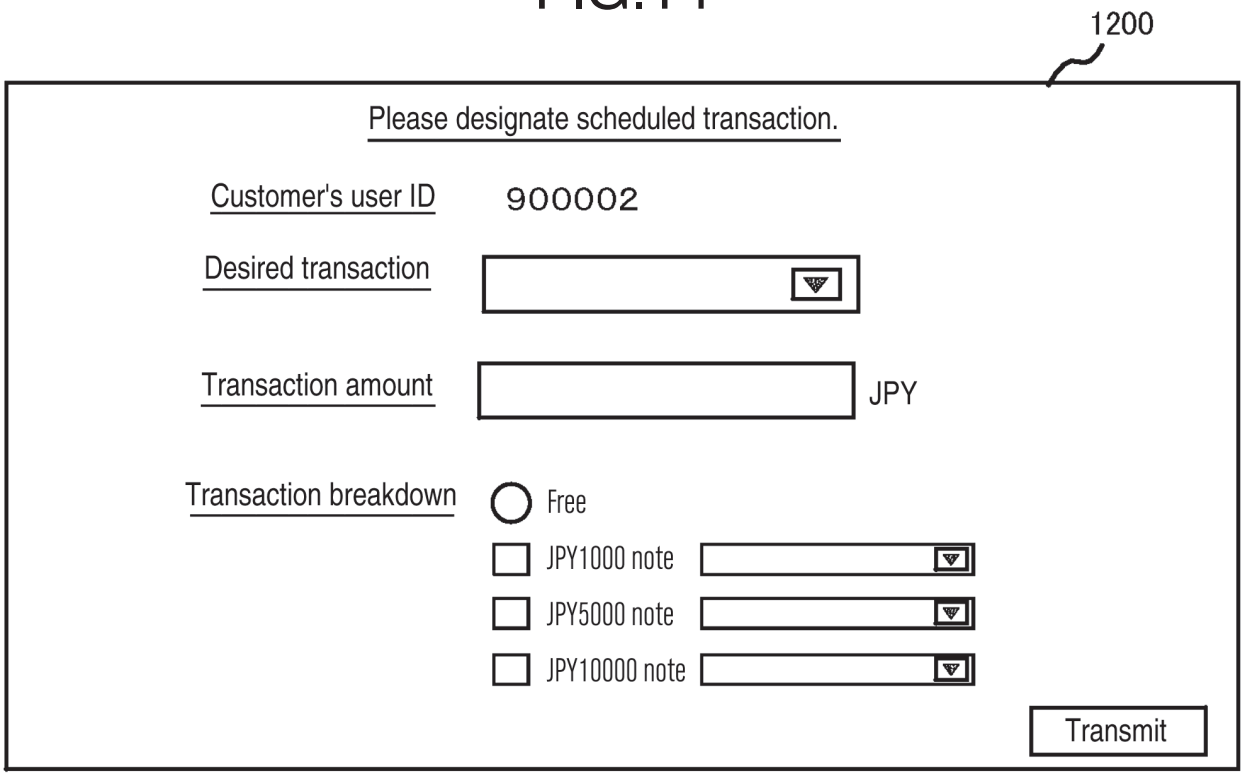

1200
Please designate scheduled transaction.
Customer's user ID
900002
Desired transaction
Transaction amount
JPY
Transaction breakdown
Free
JPY1000 note
JPY5000 note
JPY10000 note
Transmit

FIG.15

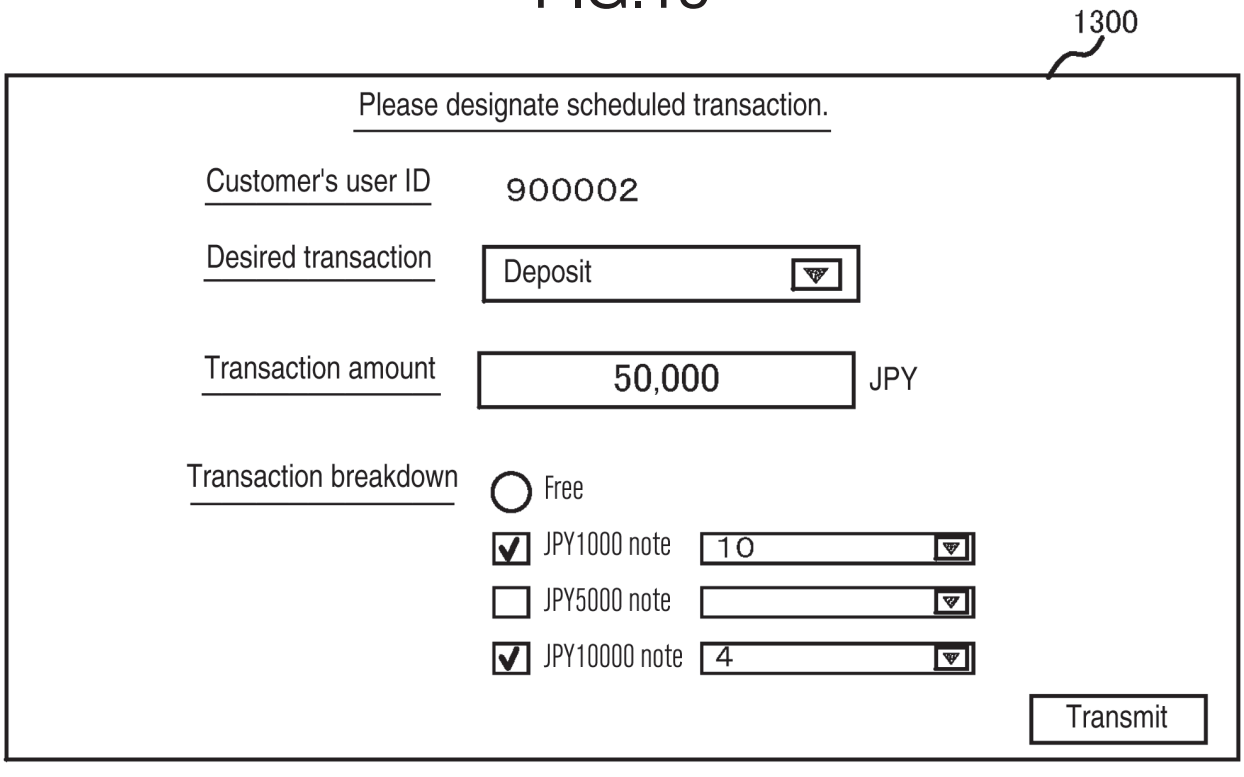

1300
Please designate scheduled transaction.
Customer's user ID
900002
Desired transaction
Deposit
Transaction amount
50,000
JPY
Transaction breakdown
Free
JPY1000 note
10
JPY5000 note
JPY10000 note
4
Transmit

FIG.16

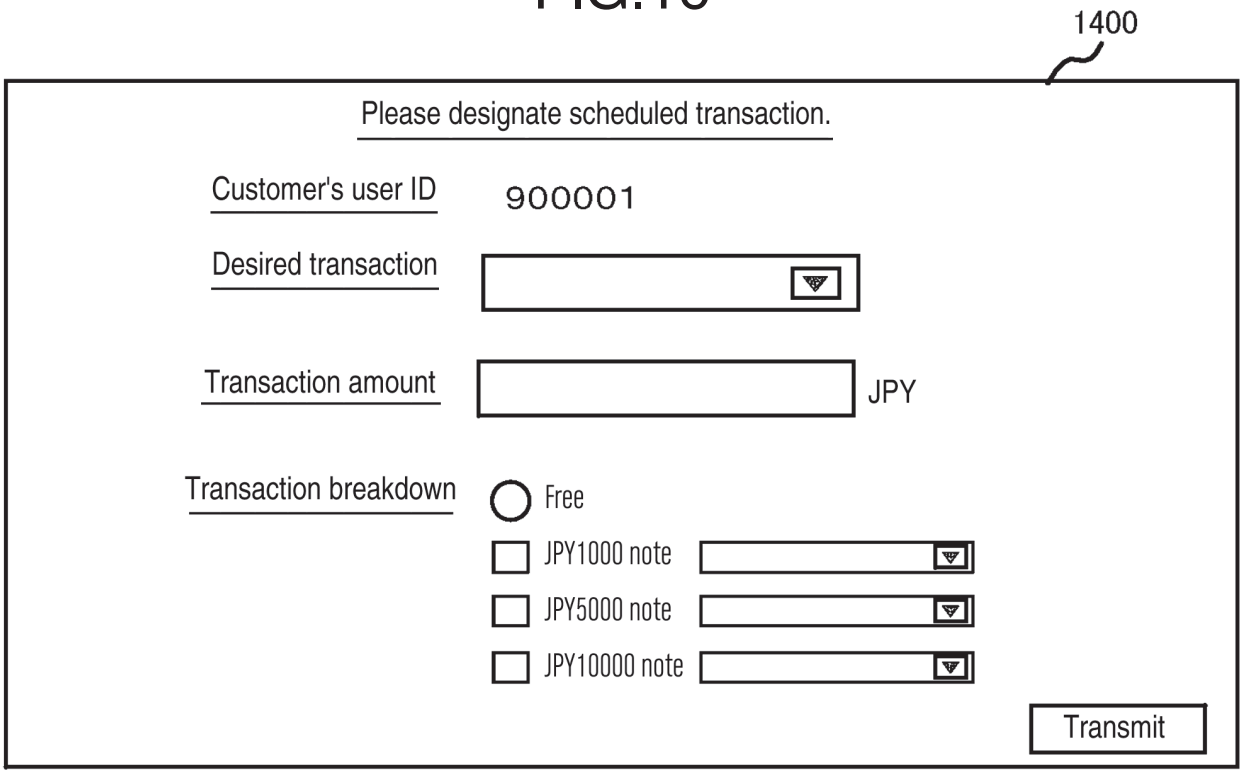

1400
Please designate scheduled transaction.
Customer's user ID
900001
Desired transaction
Transaction amount
JPY
Transaction breakdown
Free
JPY1000 note
JPY5000 note
JPY10000 note
Transmit

FIG.17

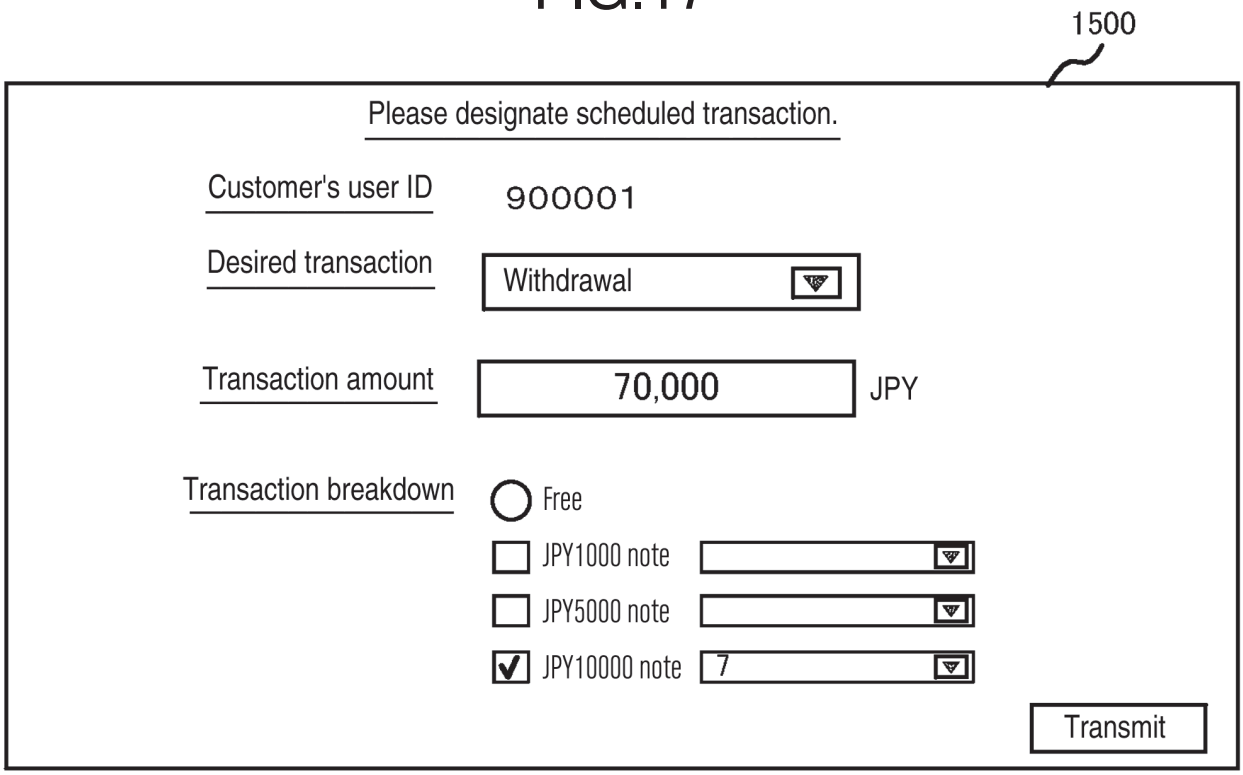

1500
Please designate scheduled transaction.
Customer's user ID
900001
Desired transaction
Withdrawal
Transaction amount
70,000
JPY
Transaction breakdown
Free
JPY1000 note
JPY5000 note
JPY10000 note
7
Transmit

FIG.18

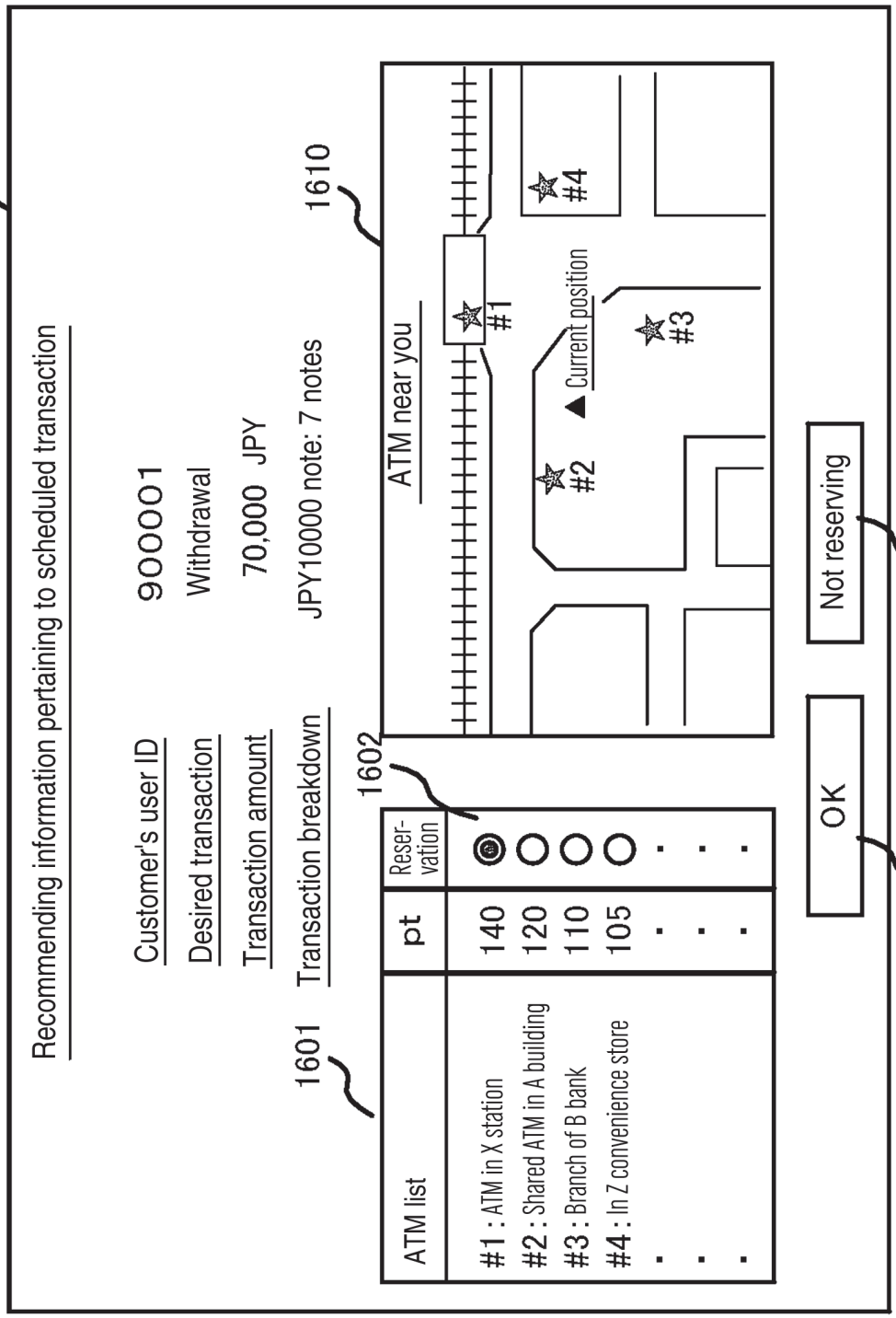

1600
Recommending information pertaining to scheduled transaction
Customer's user ID
900001
Desired transaction
Withdrawal
Transaction amount
70,000 JPY
Transaction breakdown
JPY10000 note: 7 notes
1601
1602
1610
ATM list
pt
Reser-vation
#1 : ATM in X station
140
#2 : Shared ATM in A building
120
#3 : Branch of B bank
110
#4 : In Z convenience store
105
ATM near you
#1
#2
Current position
#3
#4
OK
Not reserving
1603
1604

FIG.19

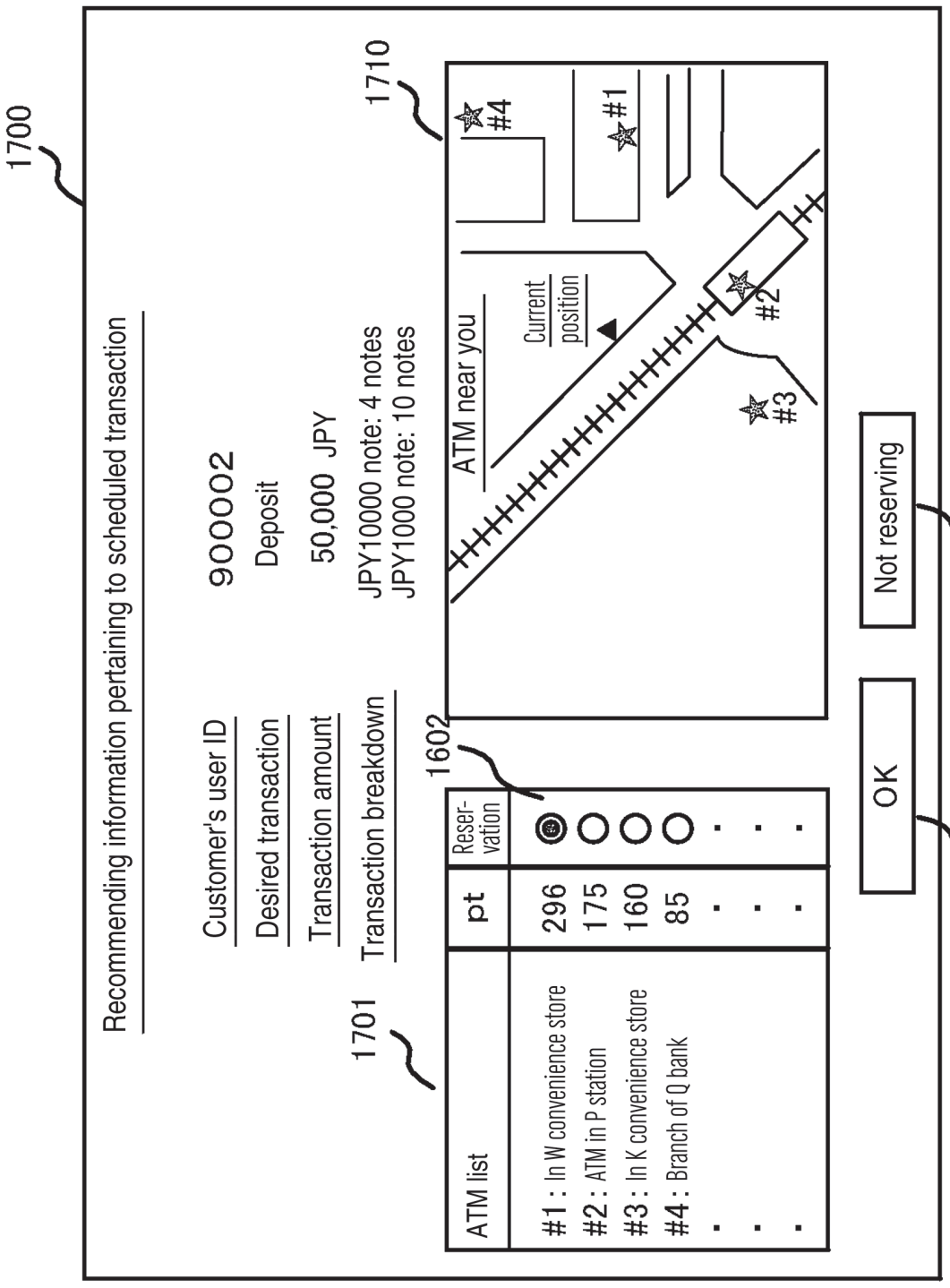

1700
Recommending information pertaining to scheduled transaction
Customer's user ID
900002
Desired transaction
Deposit
Transaction amount
50,000 JPY
Transaction breakdown
JPY10000 note: 4 notes
JPY1000 note: 10 notes
1710
ATM near you
Current position
#1
#2
#3
#4
1701
1602
ATM list
pt
Reser-vation
#1 : In W convenience store 296
#2 : ATM in P station 175
#3 : In K convenience store 160
#4 : Branch of Q bank 85
OK
Not reserving
1703
1704

FIG.20

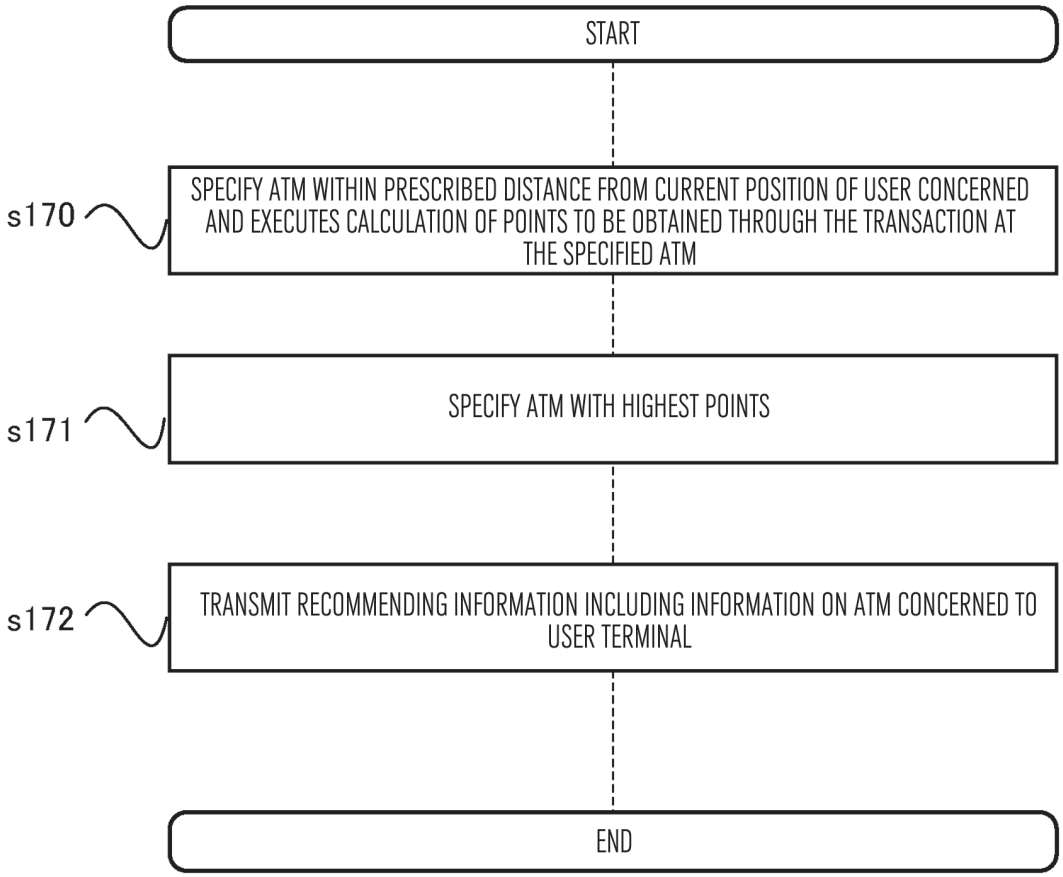

START
s170
SPECIFY ATM WITHIN PRESCRIBED DISTANCE FROM CURRENT POSITION OF USER CONCERNED AND EXECUTES CALCULATION OF POINTS TO BE OBTAINED THROUGH THE TRANSACTION AT THE SPECIFIED ATM
s171
SPECIFY ATM WITH HIGHEST POINTS
s172
TRANSMIT RECOMMENDING INFORMATION INCLUDING INFORMATION ON ATM CONCERNED TO USER TERMINAL
END

FIG.21

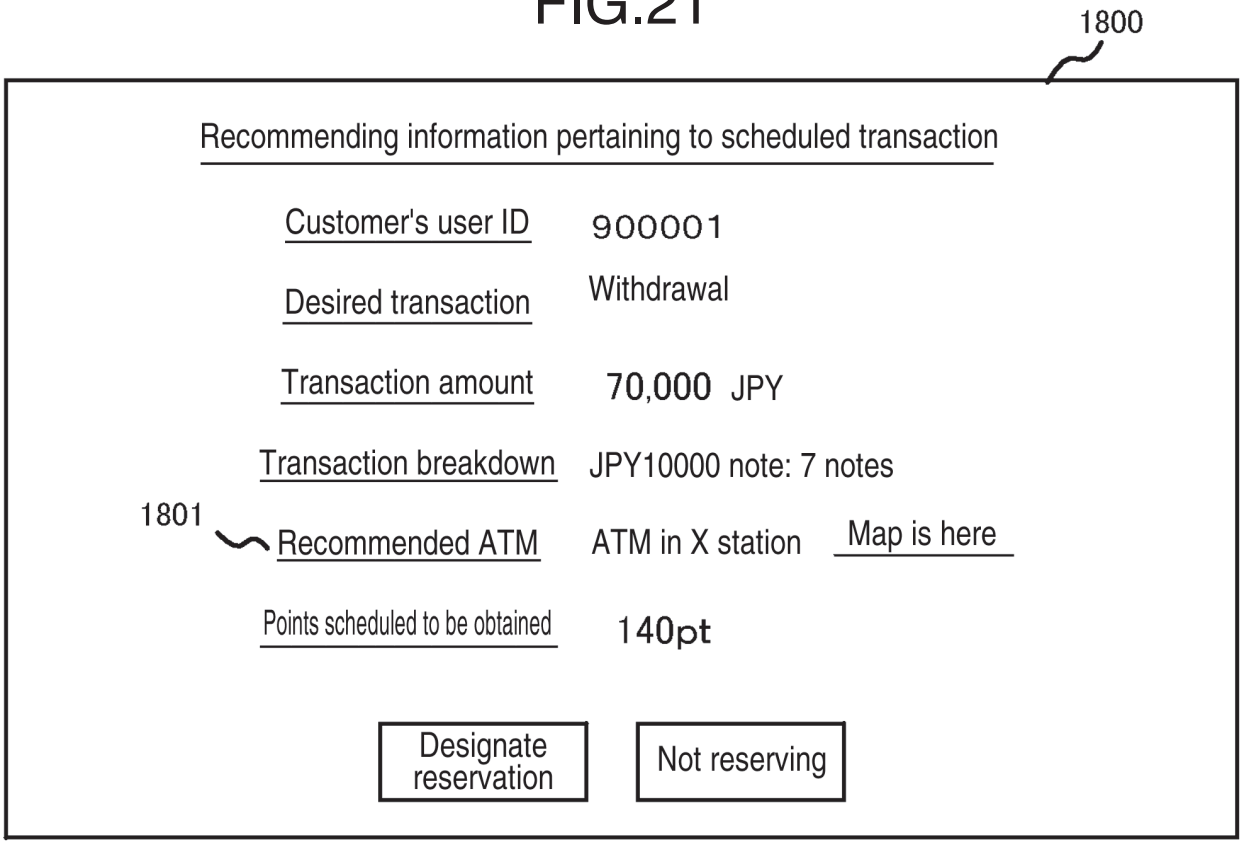
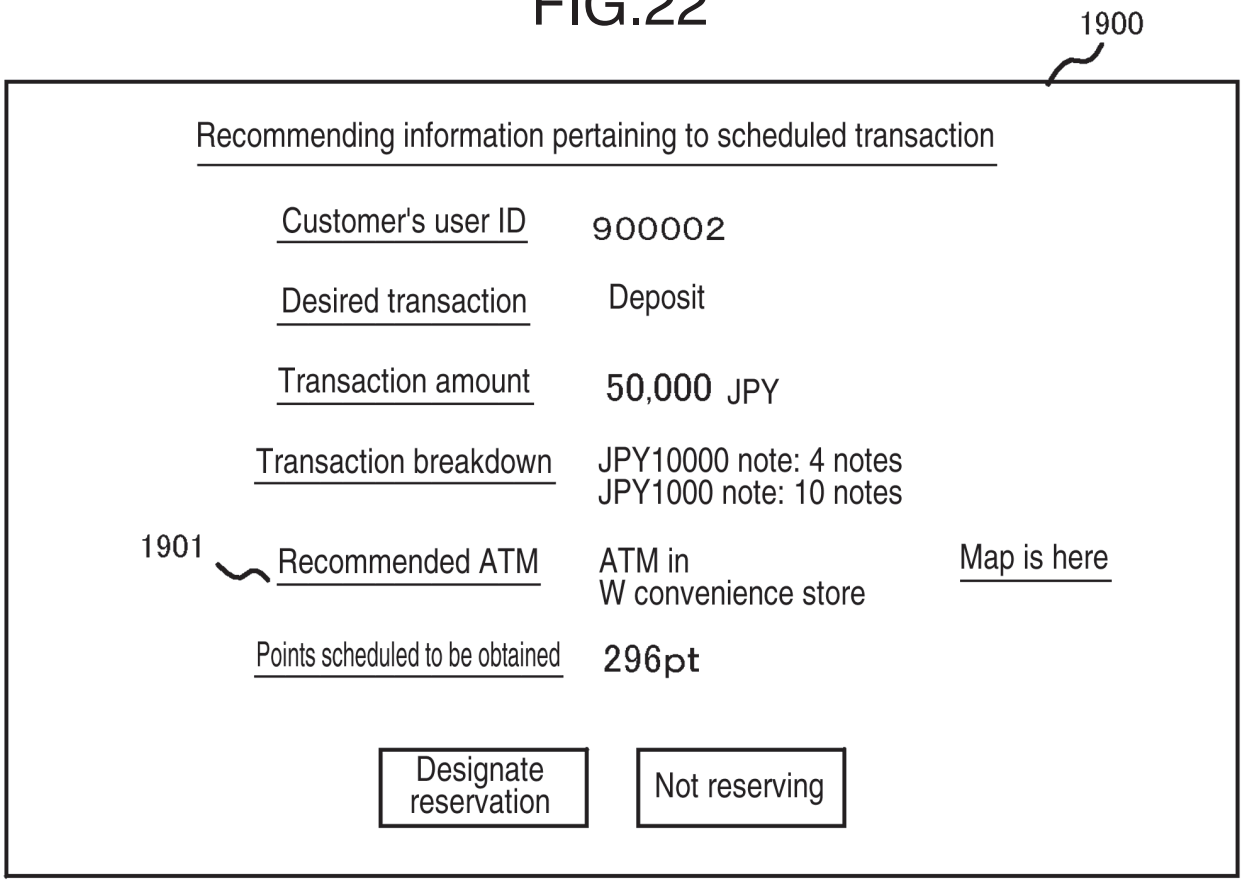

1800
Recommending information pertaining to scheduled transaction
Customer's user ID
900001
Desired transaction
Withdrawal
Transaction amount
70,000 JPY
Transaction breakdown
JPY10000 note: 7 notes
1801
Recommended ATM
ATM in X station
Map is here
Points scheduled to be obtained
140pt
Designate reservation
Not reserving

FIG.22


1900
Recommending information pertaining to scheduled transaction
Customer's user ID
900002
Desired transaction
Deposit
Transaction amount
50,000 JPY
Transaction breakdown
JPY10000 note: 4 notes
JPY1000 note: 10 notes
1901
Recommended ATM
ATM in
W convenience store
Map is here
Points scheduled to be obtained
296pt
Designate reservation
Not reserving