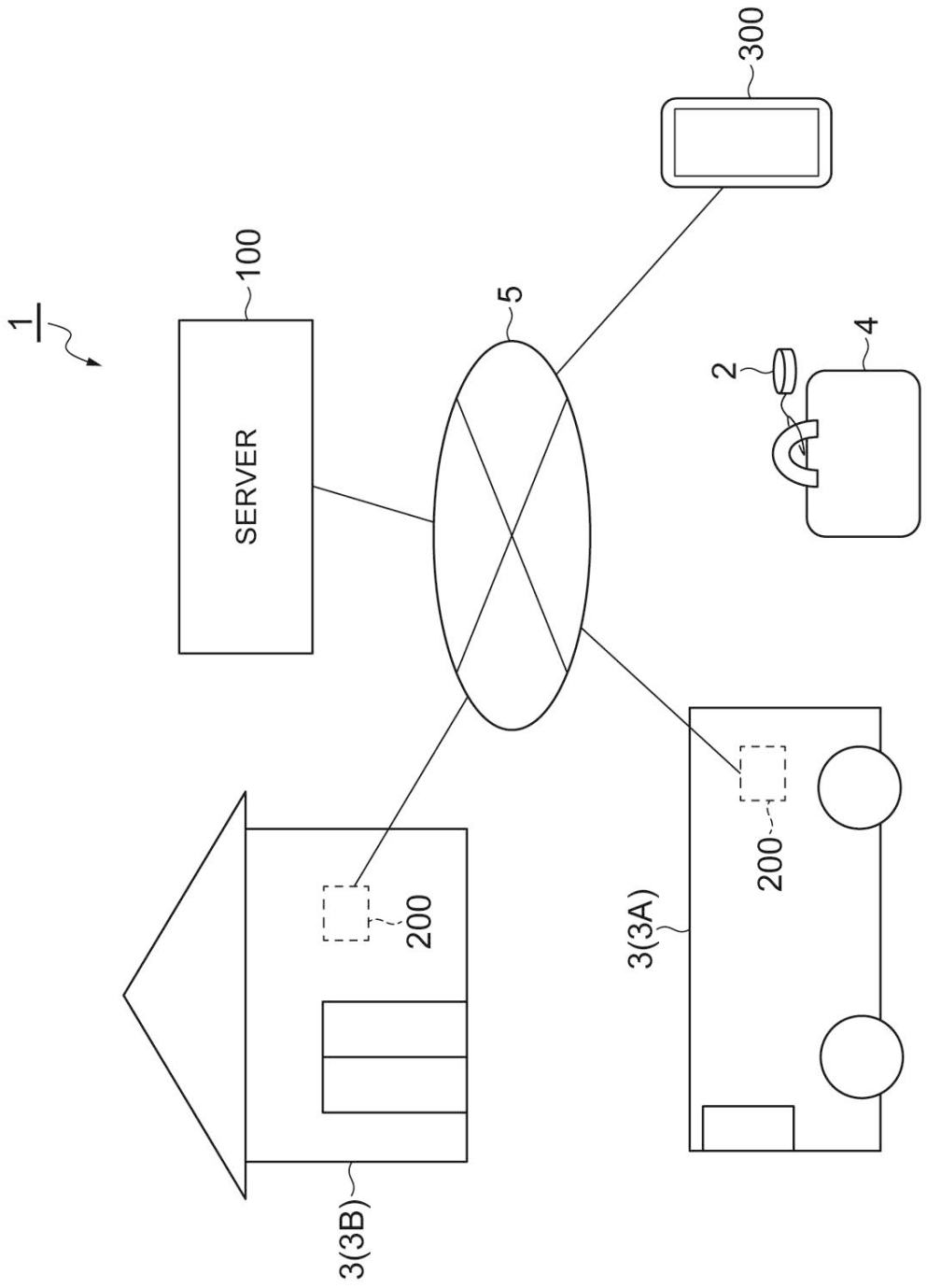



Fig.1

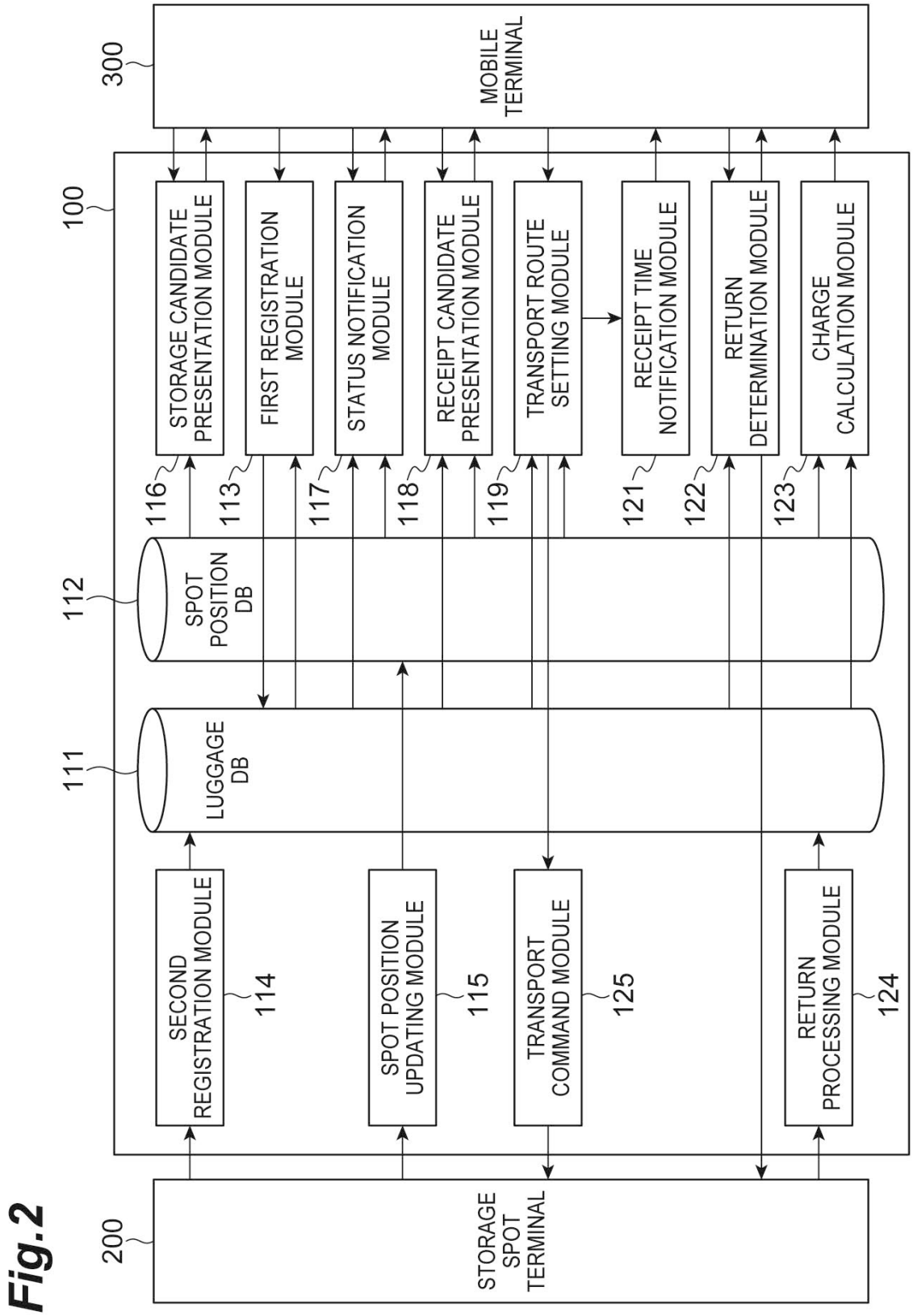

300
MOBILE TERMINAL
100
STORAGE CANDIDATE PRESENTATION MODULE
FIRST REGISTRATION MODULE
STATUS NOTIFICATION MODULE
RECEIPT CANDIDATE PRESENTATION MODULE
TRANSPORT ROUTE SETTING MODULE
RECEIPT TIME NOTIFICATION MODULE
RETURN DETERMINATION MODULE
CHARGE CALCULATION MODULE
116
113
117
118
119
121
122
123
112
SPOT POSITION DB
111
LUGGAGE DB
SECOND REGISTRATION MODULE
114
SPOT POSITION UPDATING MODULE
115
TRANSPORT COMMAND MODULE
125
RETURN PROCESSING MODULE
124
200
STORAGE SPOT TERMINAL

Fig.2

*Fig.3*

111

| TAG ID | USER ID | SPOT ID | START TIME | END TIME | COMPLETION FLAG |
|---|---|---|---|---|---|
| A1 | B1 | C1 | 13:15 | 14:15 | 1 |
| A1 | B1 | C2 | 14:15 | 16:00 | 1 |
| A1 | B1 | C3 | 16:00 | 19:00 | 0 |
| A2 | B15 | C3 | 14:00 | 19:00 | 0 |
| A3 | B20 | C5 | 10:00 | 12:10 | 1 |
| A3 | B20 | C15 | 12:10 | 18:00 | 1 |
| A3 | B20 | C20 | 18:00 | 19:00 | 0 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

***Fig.4***

112

| DATE | TIME | C1 | C2 | … | C10 | … |
|---|---|---|---|---|---|---|
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |
| … | … | …／… | …／… | …／… | …／… | …／… |

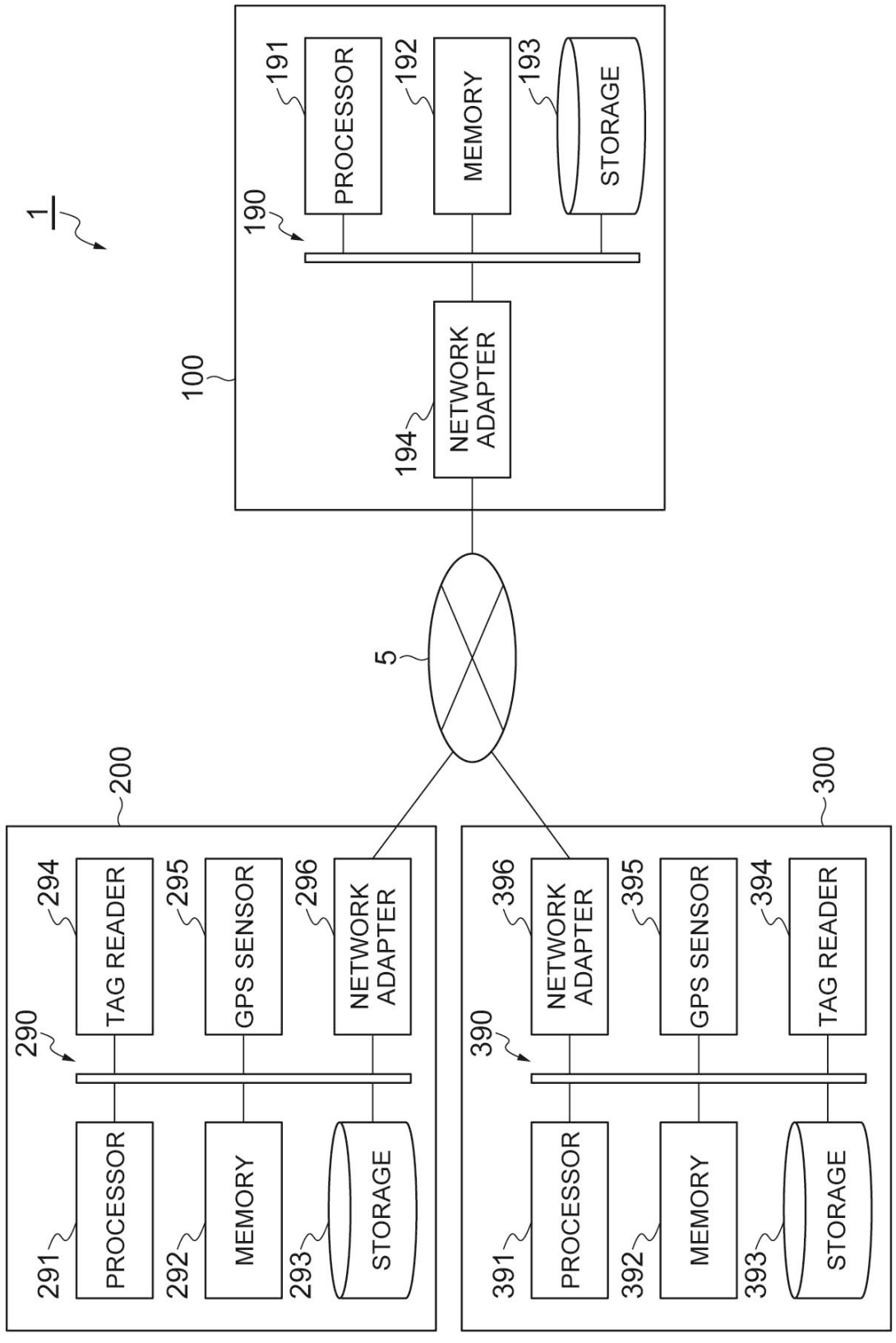

1
100
190
191
PROCESSOR
192
MEMORY
193
STORAGE
194
NETWORK ADAPTER
5
200
290
291
PROCESSOR
292
MEMORY
293
STORAGE
294
TAG READER
295
GPS SENSOR
296
NETWORK ADAPTER
300
390
391
PROCESSOR
392
MEMORY
393
STORAGE
394
TAG READER
395
GPS SENSOR
396
NETWORK ADAPTER

*Fig.5*

***Fig.6***

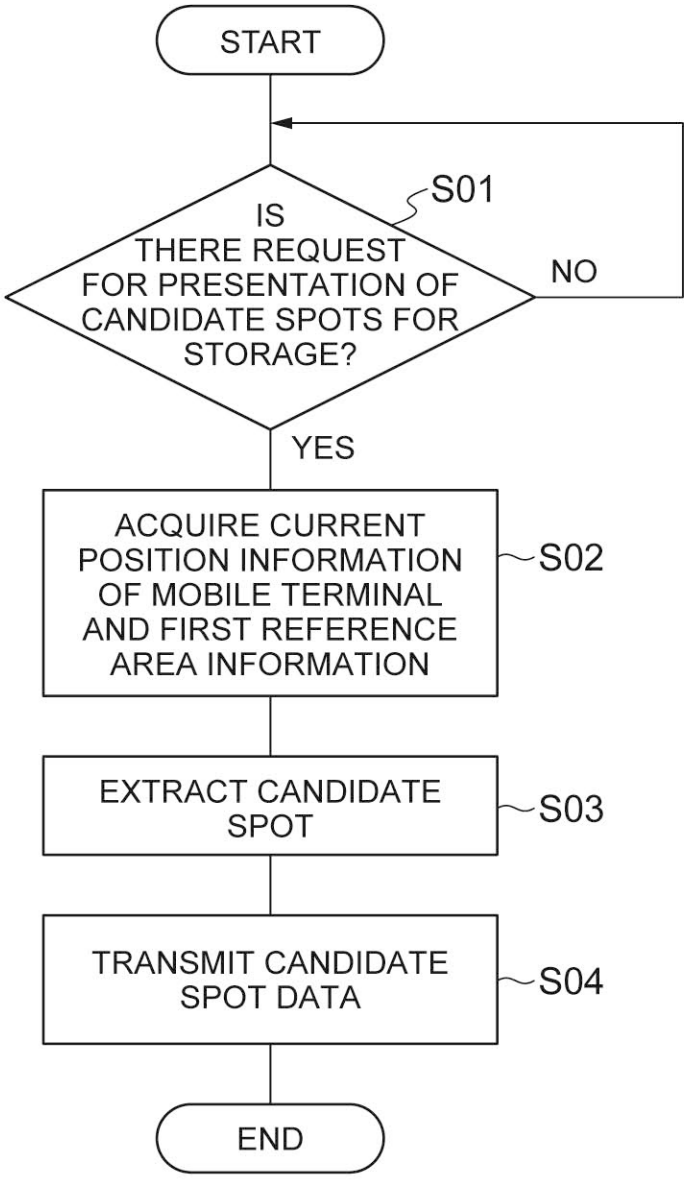

START
S01
IS THERE REQUEST FOR PRESENTATION OF CANDIDATE SPOTS FOR STORAGE?
NO
YES
ACQUIRE CURRENT POSITION INFORMATION OF MOBILE TERMINAL AND FIRST REFERENCE AREA INFORMATION
S02
EXTRACT CANDIDATE SPOT
S03
TRANSMIT CANDIDATE SPOT DATA
S04
END

*Fig.7*

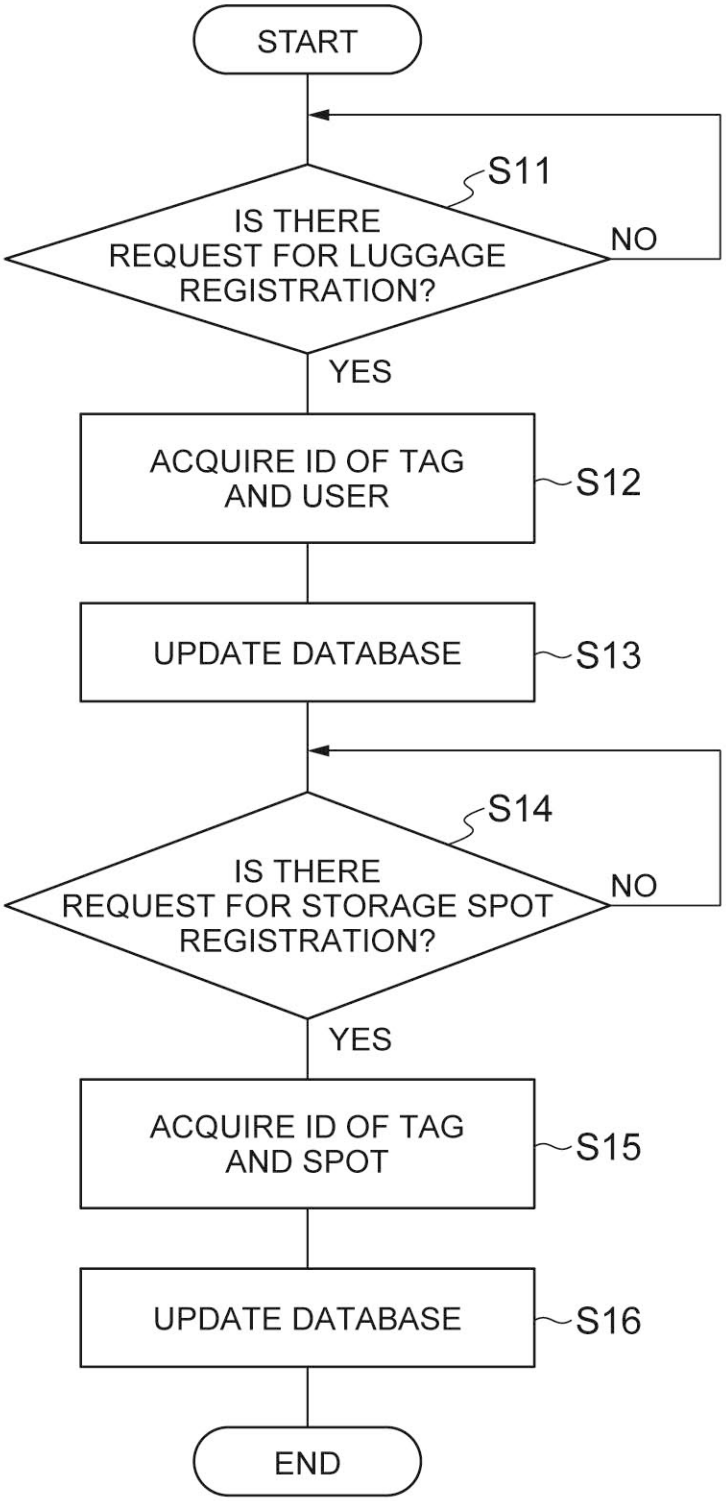

START
S11
IS THERE REQUEST FOR LUGGAGE REGISTRATION?
NO
YES
ACQUIRE ID OF TAG AND USER
S12
UPDATE DATABASE
S13
S14
IS THERE REQUEST FOR STORAGE SPOT REGISTRATION?
NO
YES
ACQUIRE ID OF TAG AND SPOT
S15
UPDATE DATABASE
S16
END

***Fig.8***

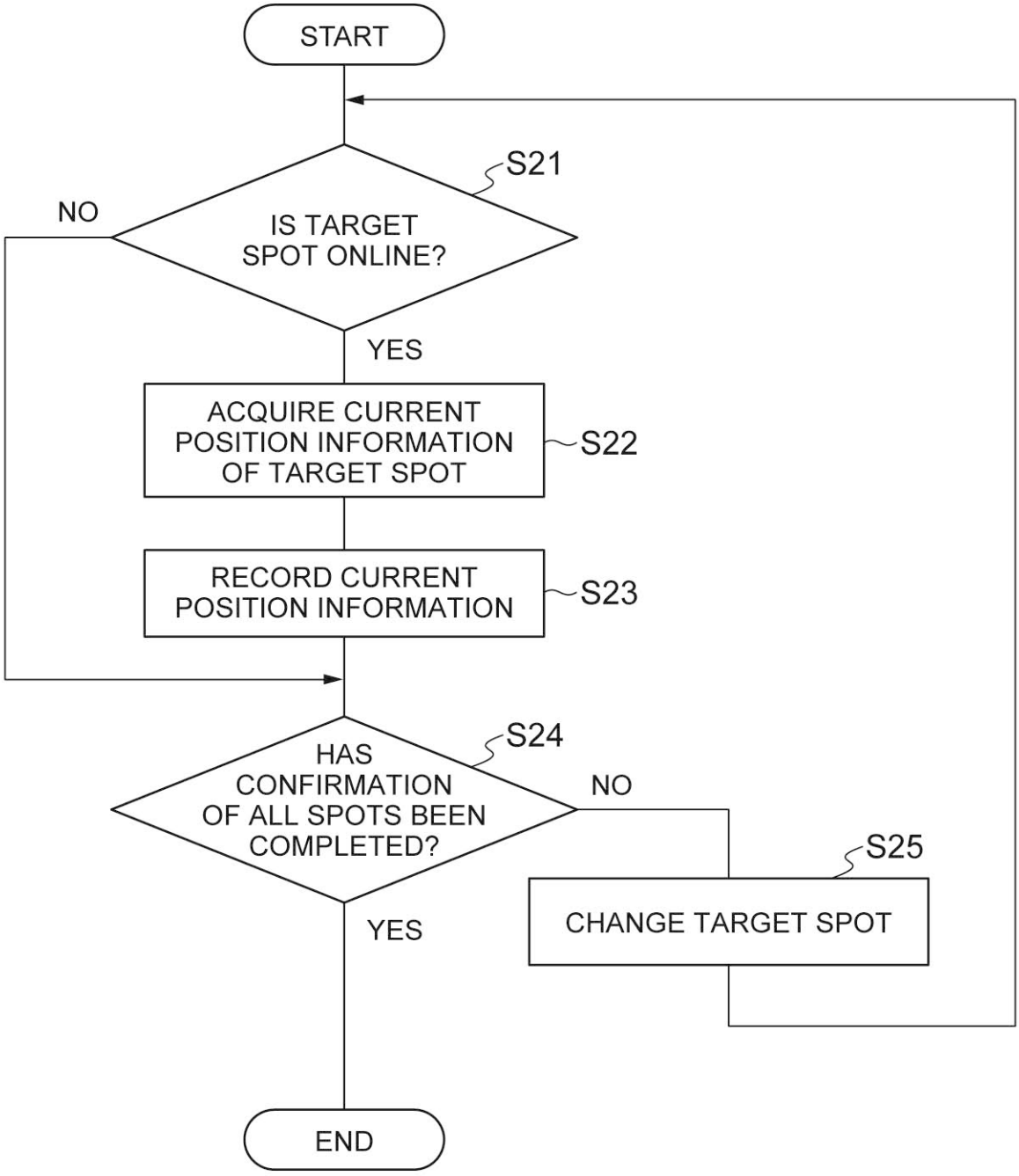

START
S21
IS TARGET SPOT ONLINE?
NO
YES
ACQUIRE CURRENT POSITION INFORMATION OF TARGET SPOT
S22
RECORD CURRENT POSITION INFORMATION
S23
S24
HAS CONFIRMATION OF ALL SPOTS BEEN COMPLETED?
NO
YES
S25
CHANGE TARGET SPOT
END

***Fig.9***

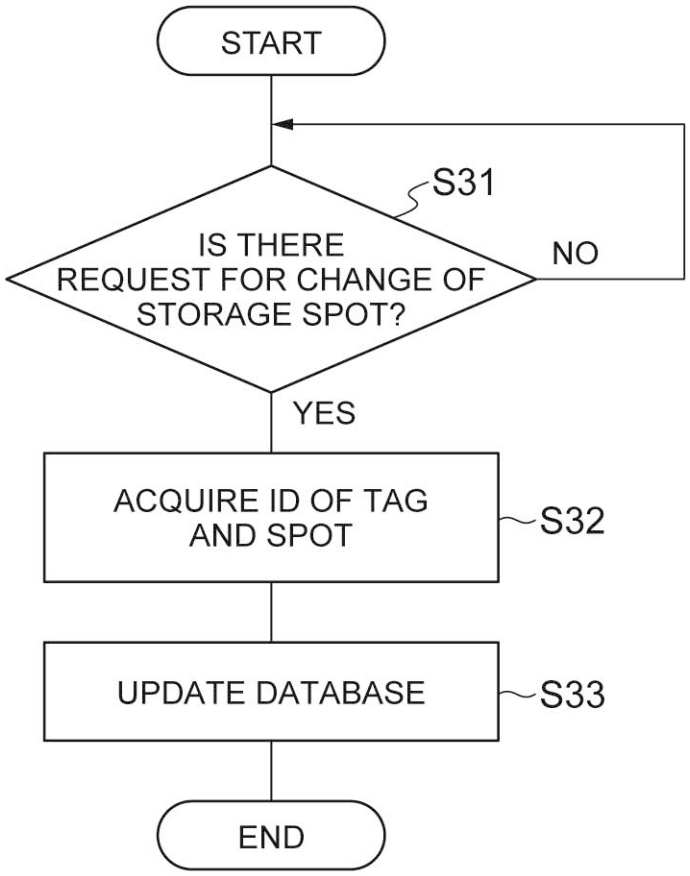

START
S31
IS THERE REQUEST FOR CHANGE OF STORAGE SPOT?
NO
YES
ACQUIRE ID OF TAG AND SPOT
S32
UPDATE DATABASE
S33
END

*Fig.10*

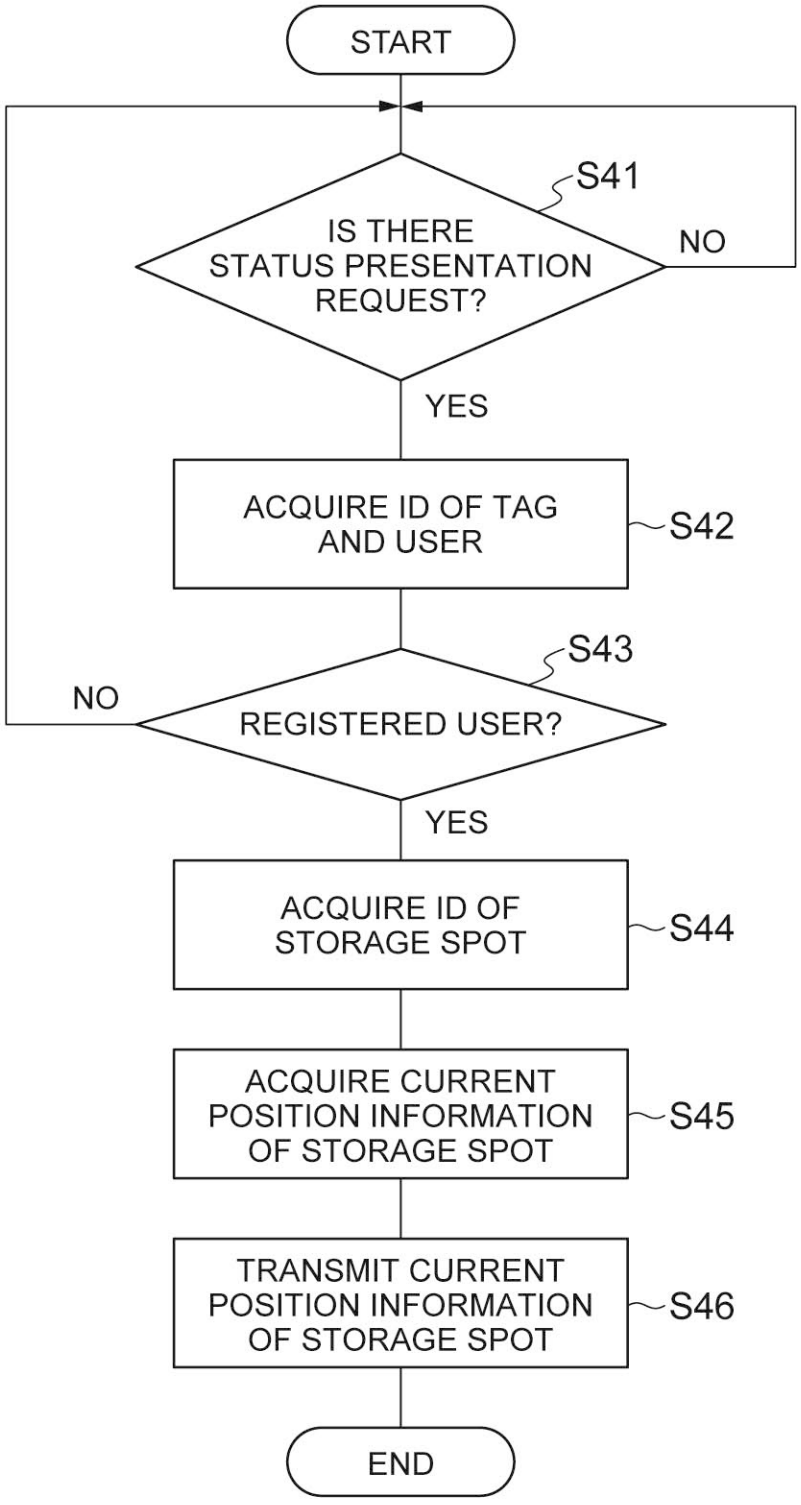

START
S41
IS THERE STATUS PRESENTATION REQUEST?
NO
YES
ACQUIRE ID OF TAG AND USER
S42
S43
NO
REGISTERED USER?
YES
ACQUIRE ID OF STORAGE SPOT
S44
ACQUIRE CURRENT POSITION INFORMATION OF STORAGE SPOT
S45
TRANSMIT CURRENT POSITION INFORMATION OF STORAGE SPOT
S46
END

***Fig.11***

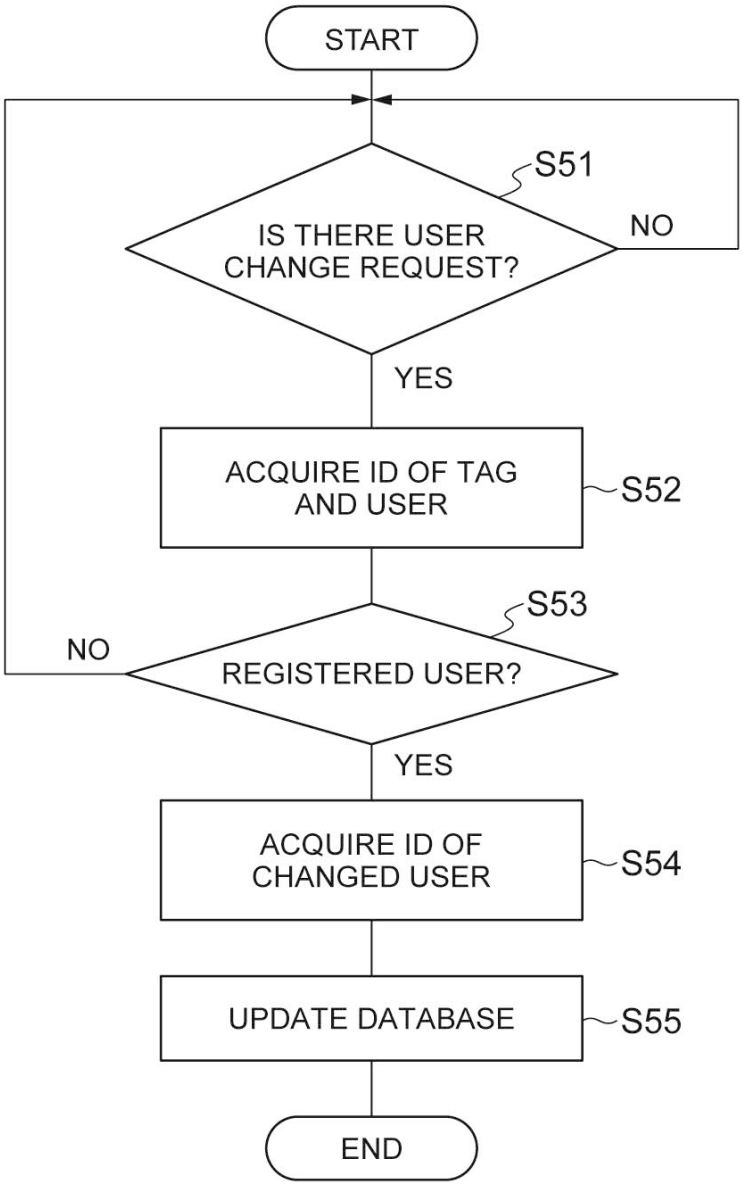

START
S51
IS THERE USER CHANGE REQUEST?
NO
YES
ACQUIRE ID OF TAG AND USER
S52
S53
NO
REGISTERED USER?
YES
ACQUIRE ID OF CHANGED USER
S54
UPDATE DATABASE
S55
END

*Fig.12*

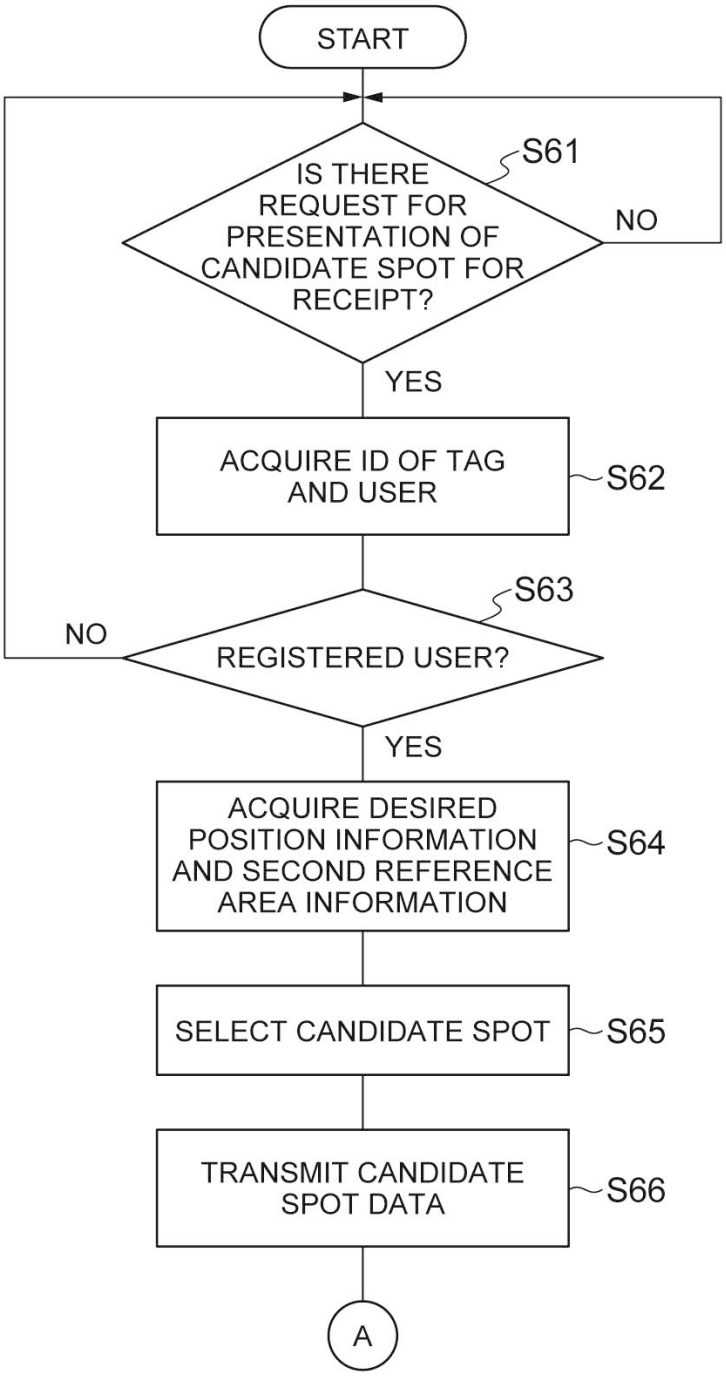

START
IS THERE REQUEST FOR PRESENTATION OF CANDIDATE SPOT FOR RECEIPT?
S61
NO
YES
ACQUIRE ID OF TAG AND USER
S62
REGISTERED USER?
S63
NO
YES
ACQUIRE DESIRED POSITION INFORMATION AND SECOND REFERENCE AREA INFORMATION
S64
SELECT CANDIDATE SPOT
S65
TRANSMIT CANDIDATE SPOT DATA
S66
A

*Fig.13*

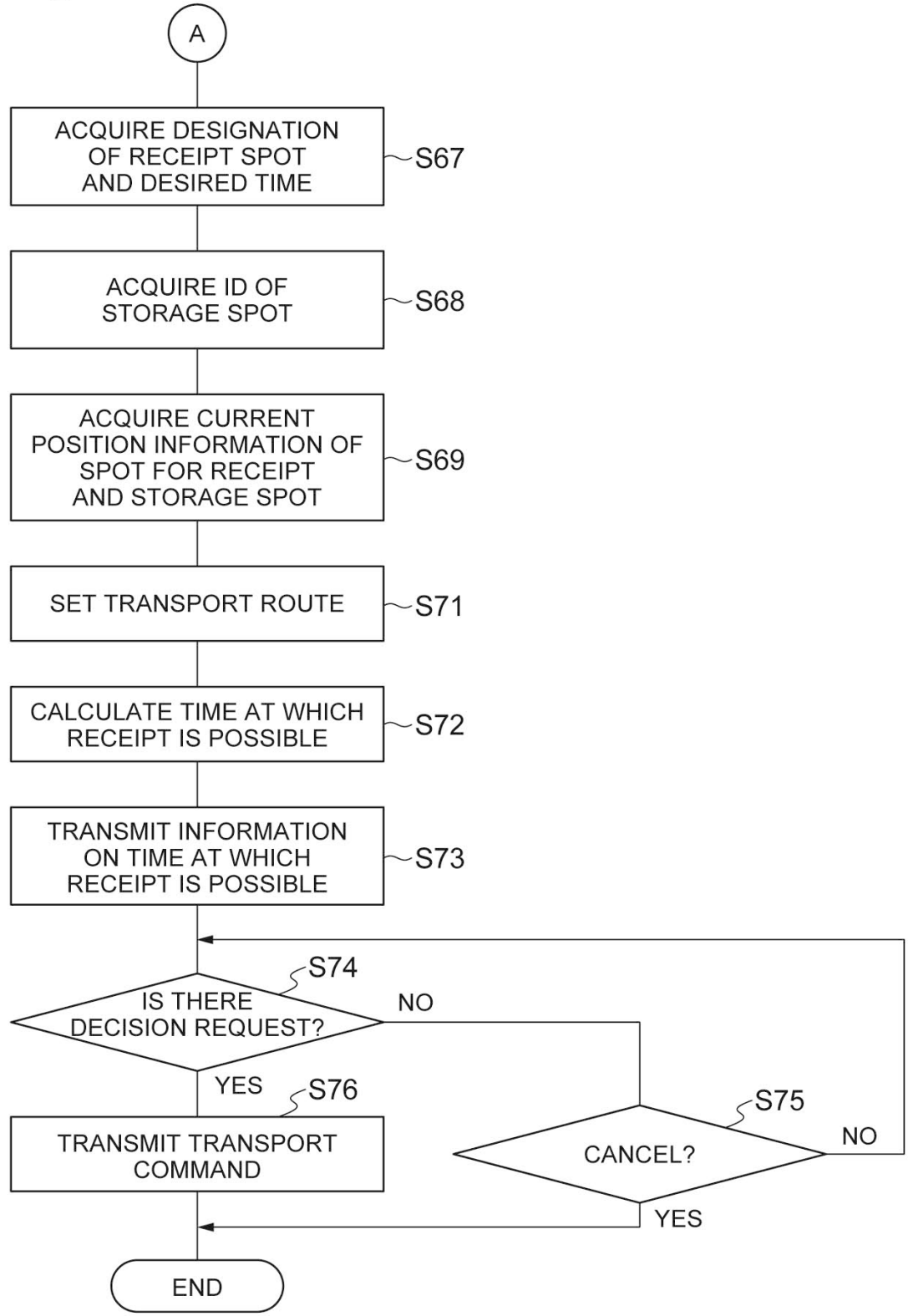
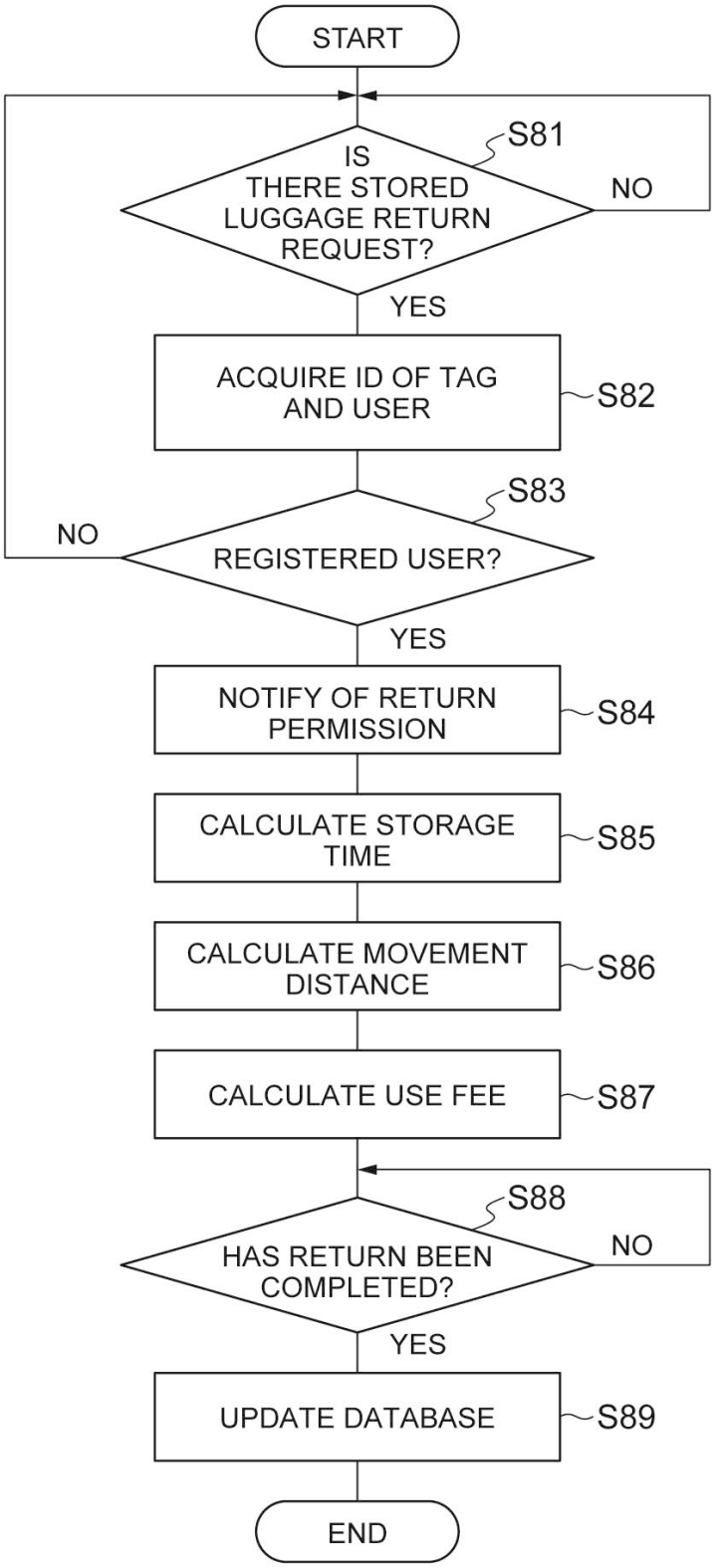

A
ACQUIRE DESIGNATION OF RECEIPT SPOT AND DESIRED TIME
S67
ACQUIRE ID OF STORAGE SPOT
S68
ACQUIRE CURRENT POSITION INFORMATION OF SPOT FOR RECEIPT AND STORAGE SPOT
S69
SET TRANSPORT ROUTE
S71
CALCULATE TIME AT WHICH RECEIPT IS POSSIBLE
S72
TRANSMIT INFORMATION ON TIME AT WHICH RECEIPT IS POSSIBLE
S73
S74
IS THERE DECISION REQUEST?
NO
YES
S76
TRANSMIT TRANSPORT COMMAND
S75
CANCEL?
NO
YES
END

*Fig.14*


START
S81
IS THERE STORED LUGGAGE RETURN REQUEST?
NO
YES
ACQUIRE ID OF TAG AND USER
S82
S83
NO
REGISTERED USER?
YES
NOTIFY OF RETURN PERMISSION
S84
CALCULATE STORAGE TIME
S85
CALCULATE MOVEMENT DISTANCE
S86
CALCULATE USE FEE
S87
S88
HAS RETURN BEEN COMPLETED?
NO
YES
UPDATE DATABASE
S89
END