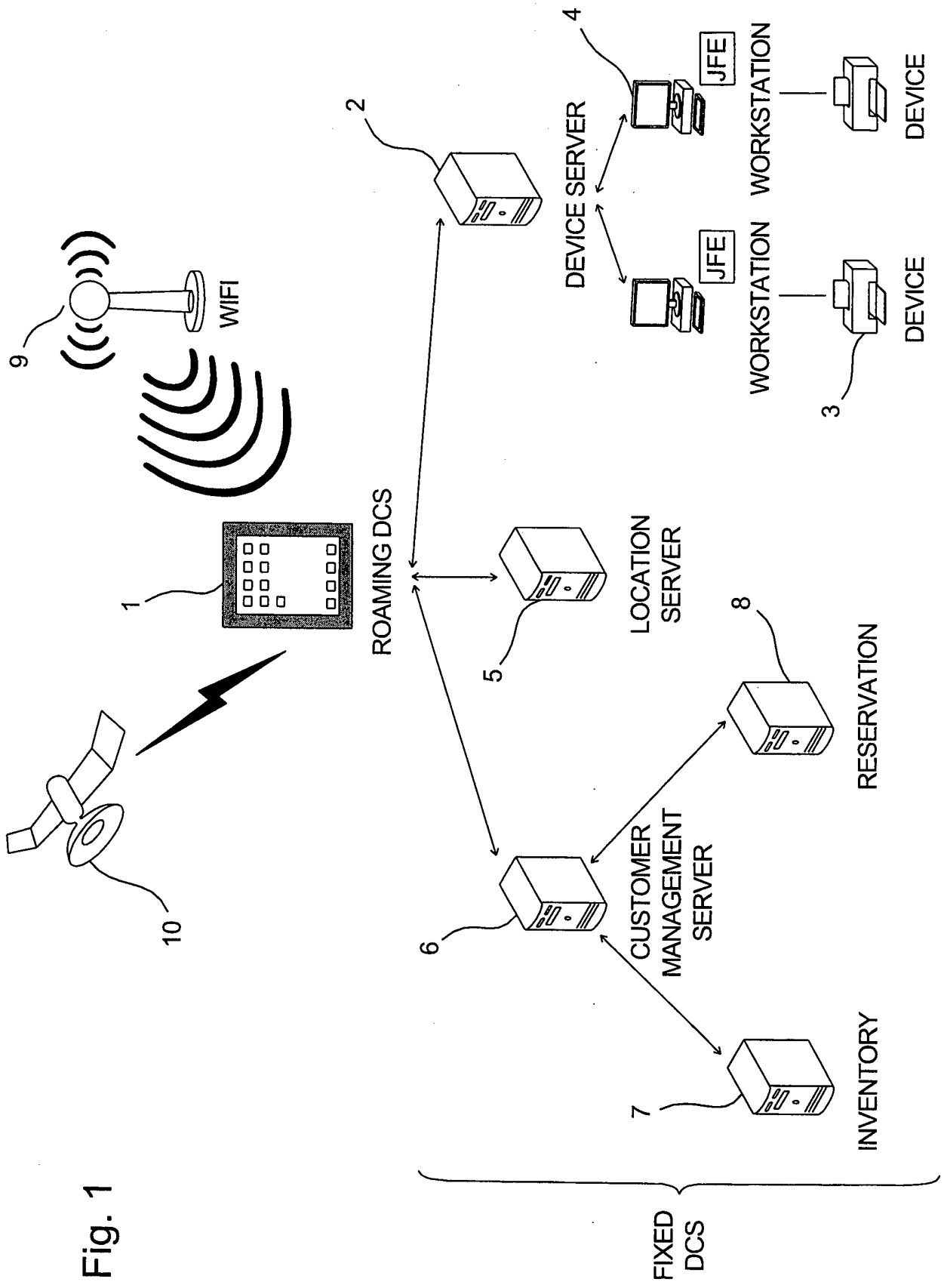

9
WIFI
1
10
2
ROAMING DCS
4
DEVICE SERVER
JFE
JFE
WORKSTATION
WORKSTATION
DEVICE
DEVICE
3
5
LOCATION SERVER
8
RESERVATION
6
CUSTOMER MANAGEMENT SERVER
7
INVENTORY
FIXED DCS

Fig. 1

Fig. 2a

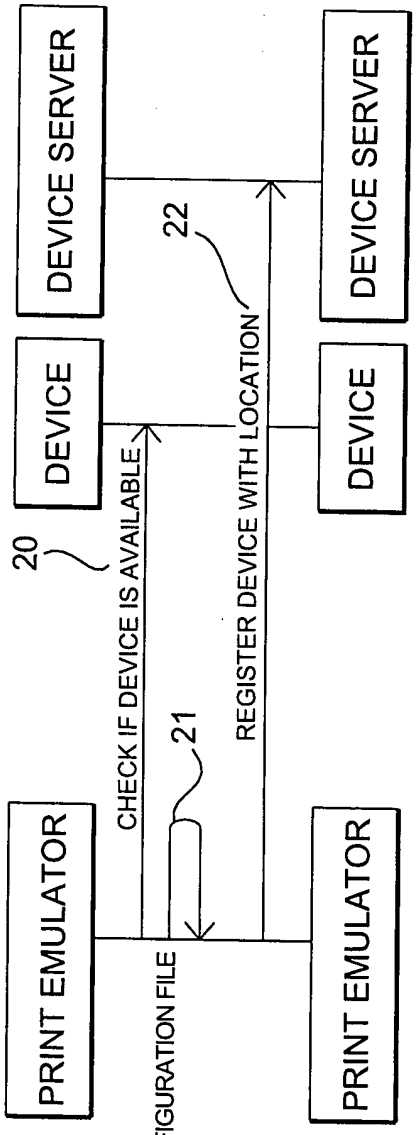
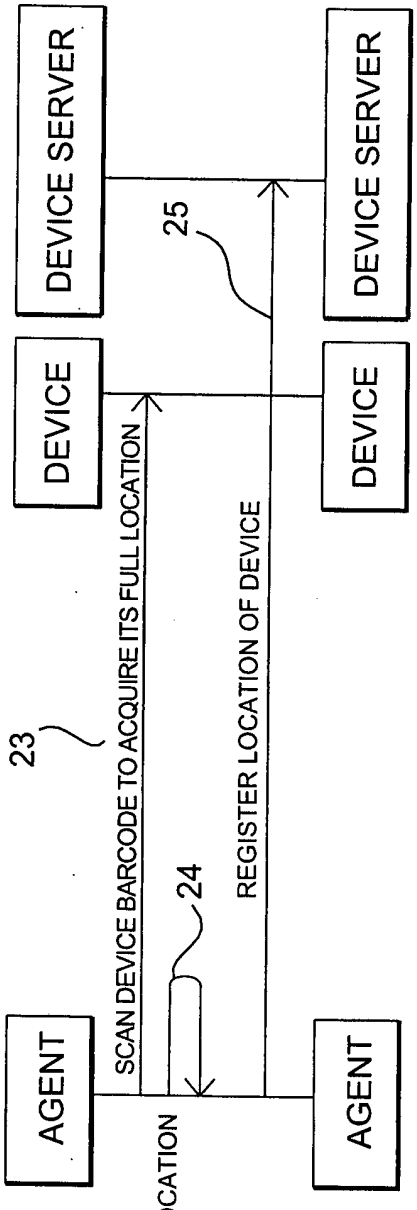

PRINT EMULATOR
DEVICE
DEVICE SERVER
PRINT EMULATOR
DEVICE
DEVICE SERVER
READ WORKSTATION ID AND LOCATION FROM CONFIGURATION FILE
20
CHECK IF DEVICE IS AVAILABLE
21
REGISTER DEVICE WITH LOCATION
22

Fig. 2b


AGENT
DEVICE
DEVICE SERVER
AGENT
DEVICE
DEVICE SERVER
GET CURRENT LOCATION
23
SCAN DEVICE BARCODE TO ACQUIRE ITS FULL LOCATION
24
REGISTER LOCATION OF DEVICE
25

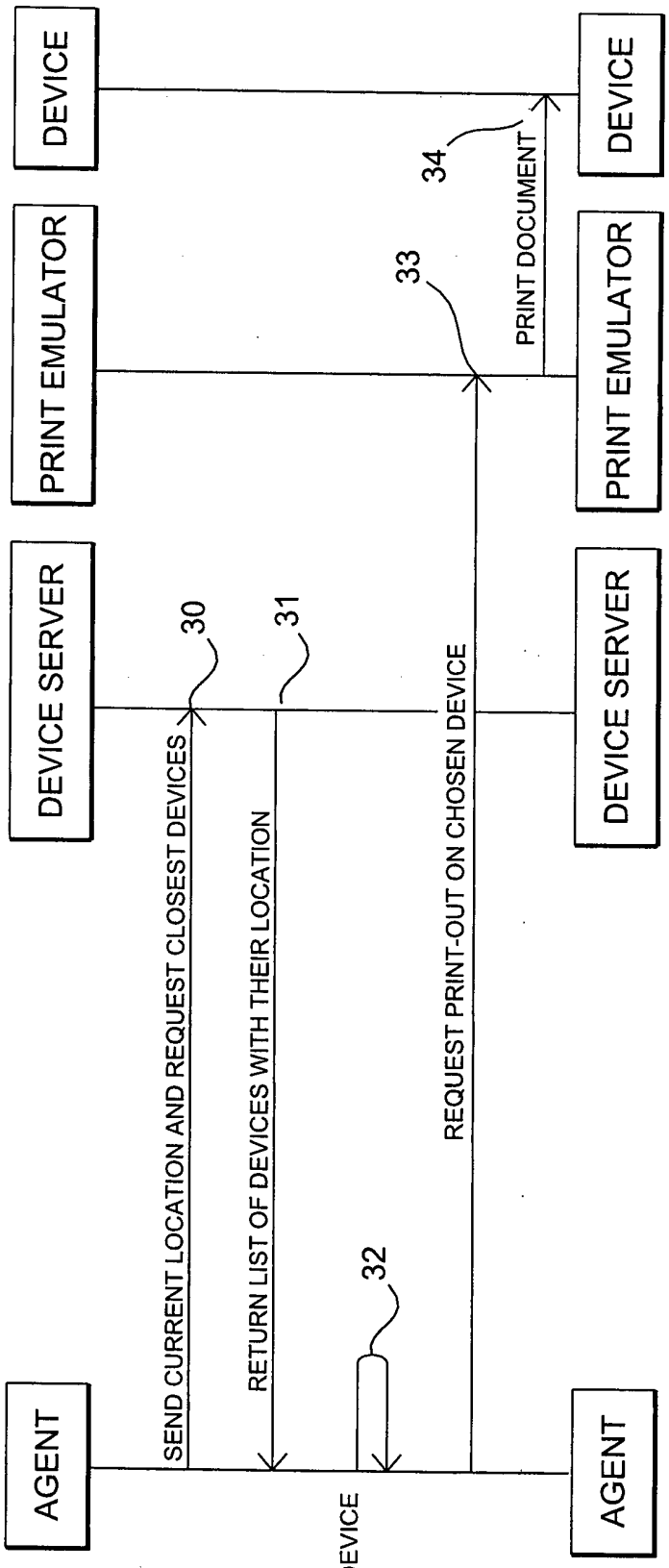

DEVICE
PRINT EMULATOR
DEVICE SERVER
AGENT
DEVICE
PRINT EMULATOR
DEVICE SERVER
AGENT
30
31
32
33
34
SEND CURRENT LOCATION AND REQUEST CLOSEST DEVICES
RETURN LIST OF DEVICES WITH THEIR LOCATION
CHOOSE DEVICE
REQUEST PRINT-OUT ON CHOSEN DEVICE
PRINT DOCUMENT

Fig. 3

Fig. 4

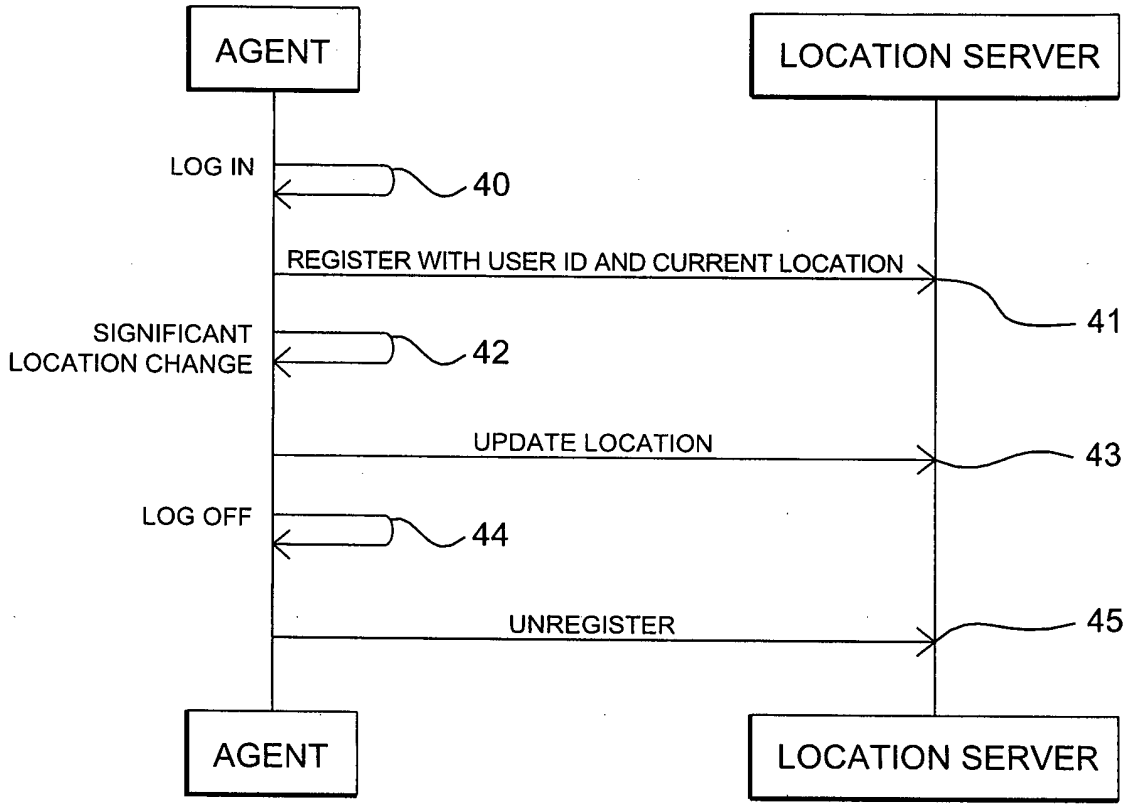
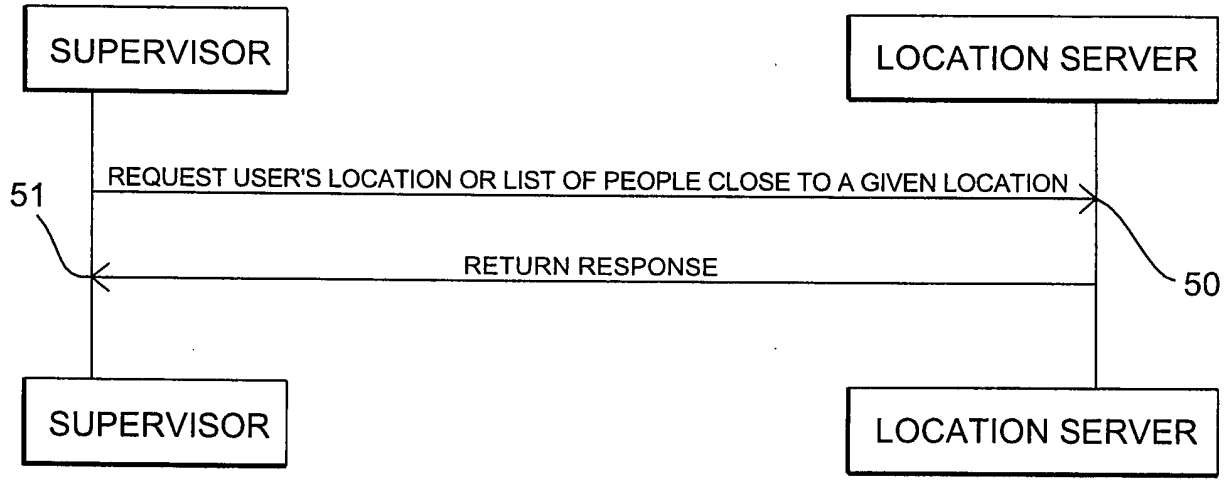

AGENT
LOCATION SERVER
LOG IN
40
REGISTER WITH USER ID AND CURRENT LOCATION
41
SIGNIFICANT LOCATION CHANGE
42
UPDATE LOCATION
43
LOG OFF
44
UNREGISTER
45
AGENT
LOCATION SERVER

Fig. 5


SUPERVISOR
LOCATION SERVER
51
REQUEST USER'S LOCATION OR LIST OF PEOPLE CLOSE TO A GIVEN LOCATION
RETURN RESPONSE
50
SUPERVISOR
LOCATION SERVER

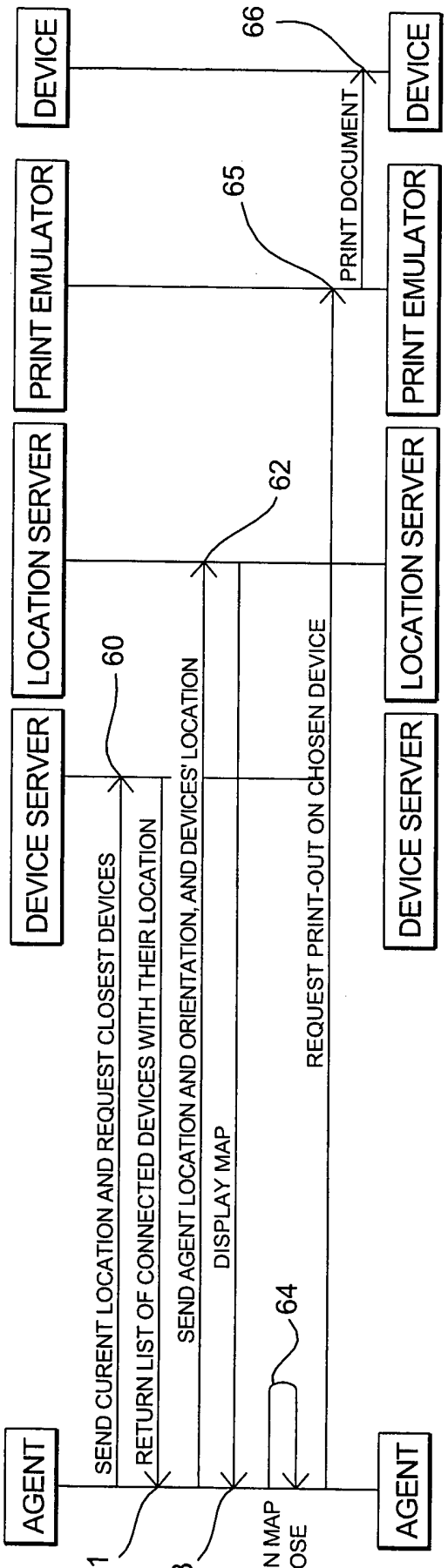

AGENT
DEVICE SERVER
LOCATION SERVER
PRINT EMULATOR
DEVICE
SEND CURENT LOCATION AND REQUEST CLOSEST DEVICES
RETURN LIST OF CONNECTED DEVICES WITH THEIR LOCATION
SEND AGENT LOCATION AND ORIENTATION, AND DEVICES' LOCATION
DISPLAY MAP
CLICK ON MAP TO CHOOSE DEVICE
REQUEST PRINT-OUT ON CHOSEN DEVICE
PRINT DOCUMENT
60
61
62
63
64
65
66

Fig. 6a

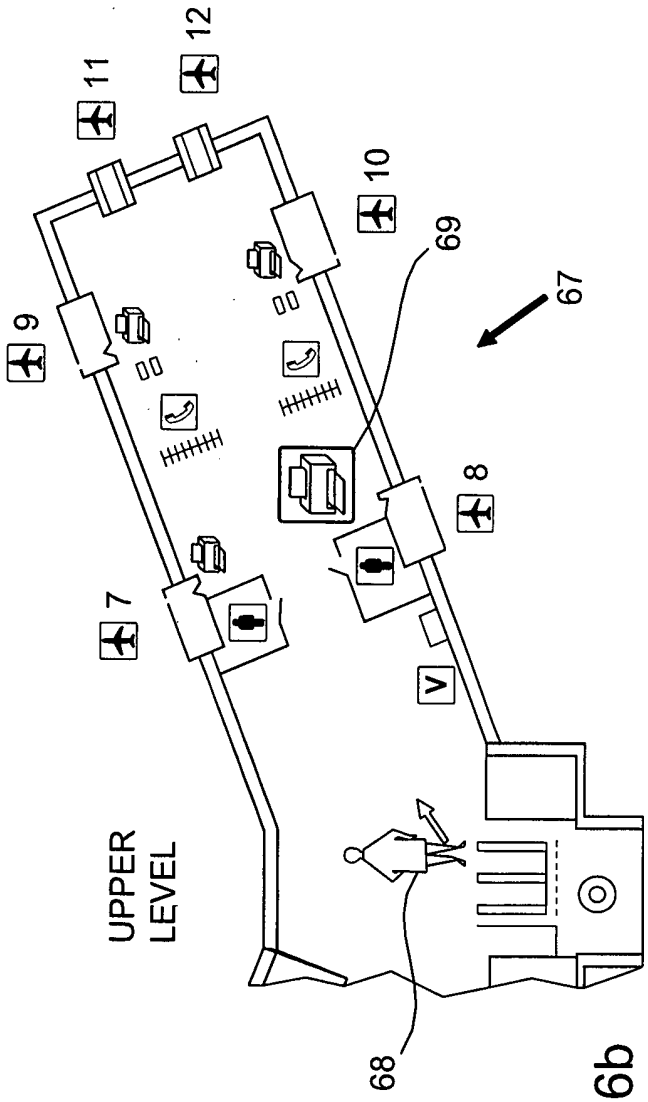

UPPER LEVEL
7
8
9
10
11
12
67
68
69

Fig. 6b

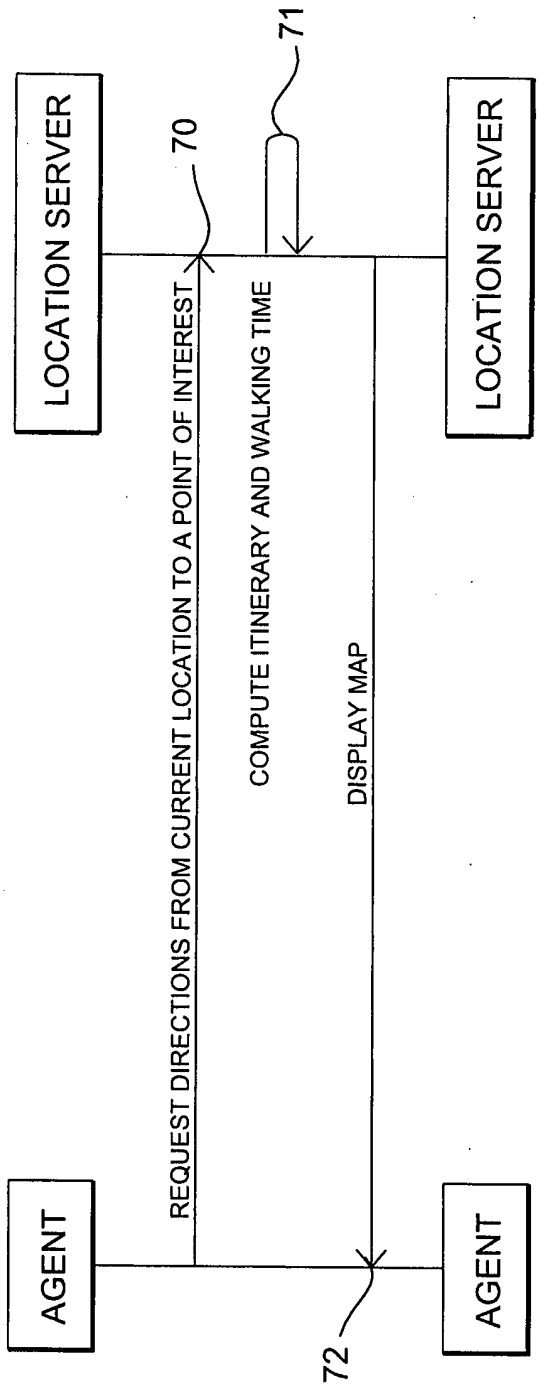

LOCATION SERVER
LOCATION SERVER
AGENT
AGENT
70
71
72
REQUEST DIRECTIONS FROM CURRENT LOCATION TO A POINT OF INTEREST
COMPUTE ITINERARY AND WALKING TIME
DISPLAY MAP

Fig. 7

Fig. 8a

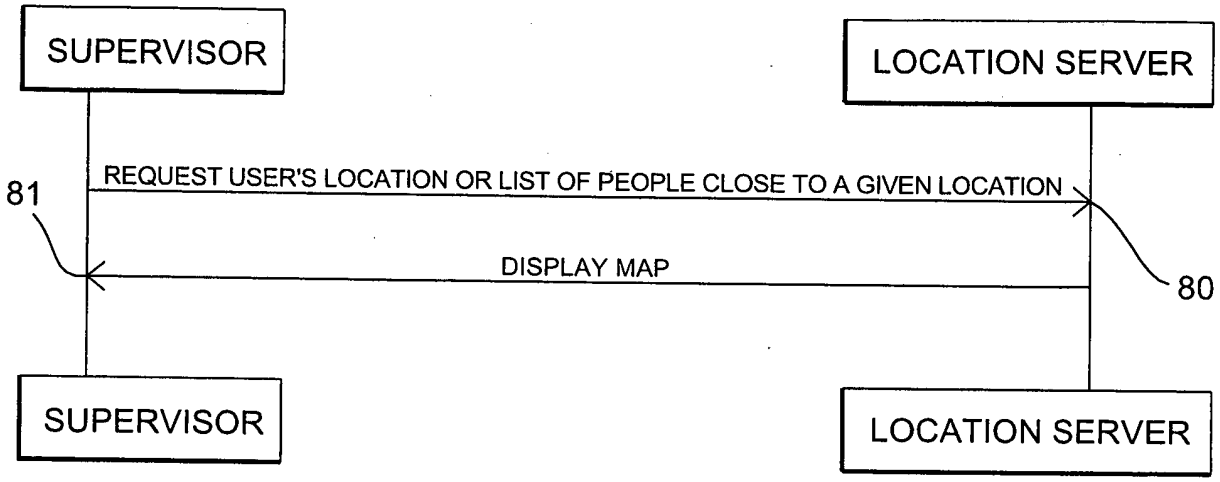

SUPERVISOR
LOCATION SERVER
REQUEST USER'S LOCATION OR LIST OF PEOPLE CLOSE TO A GIVEN LOCATION
81
DISPLAY MAP
80
SUPERVISOR
LOCATION SERVER

Fig. 8b

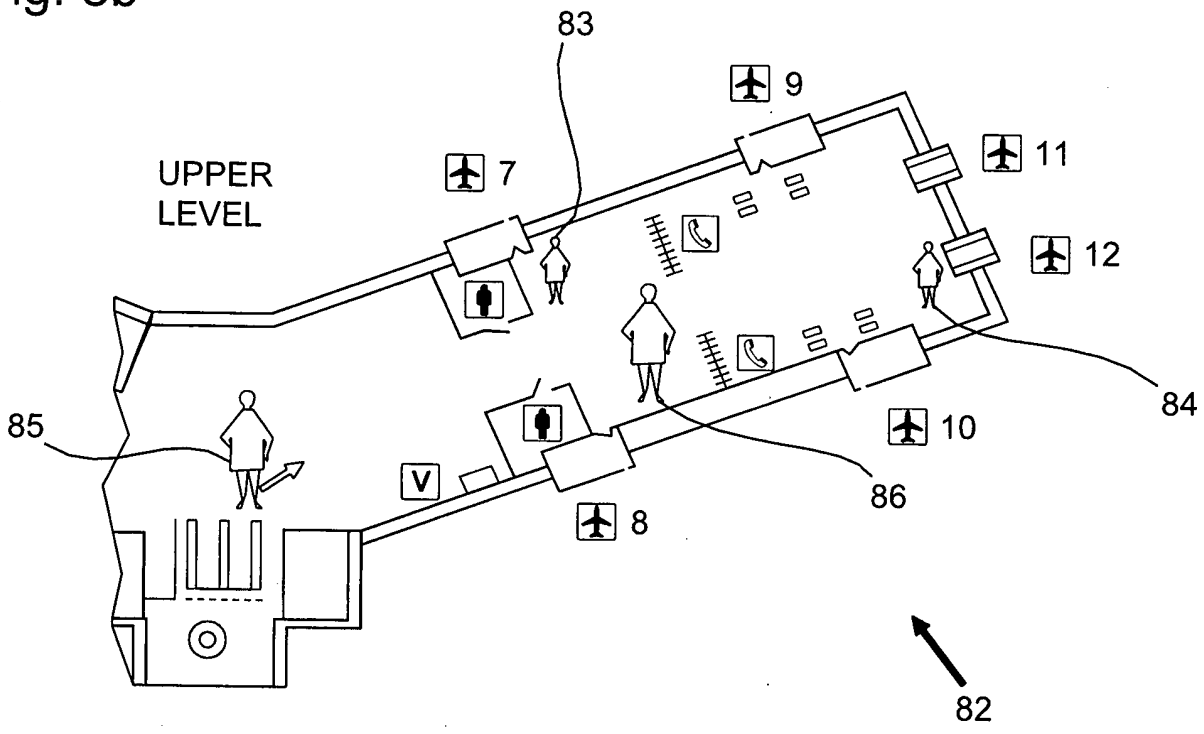

83
9
UPPER
LEVEL
7
11
12
84
85
10
86
8
82

Fig. 9a

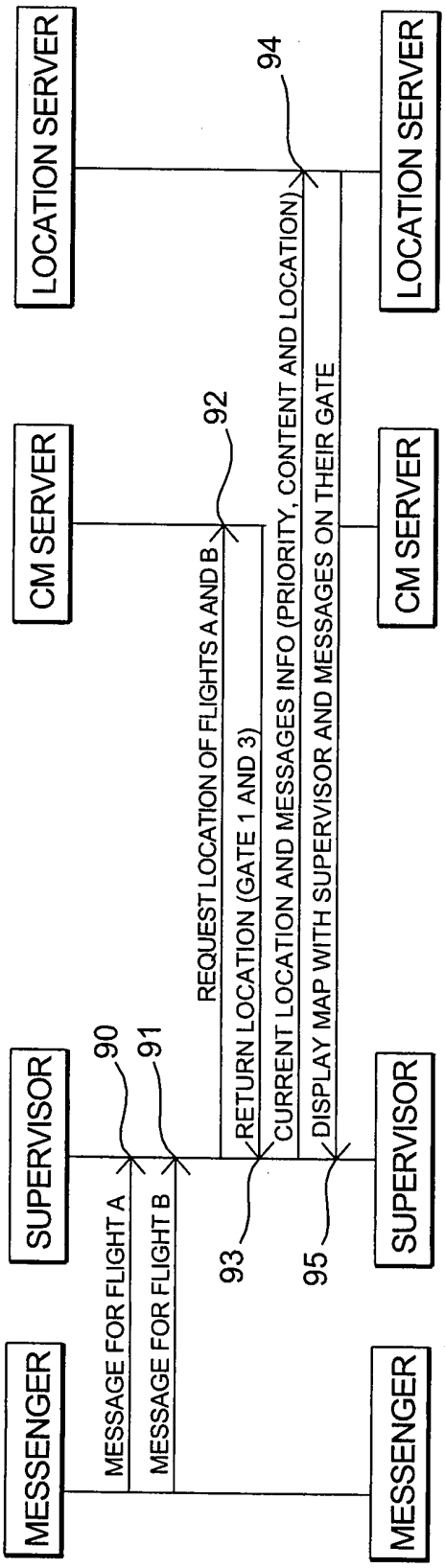

LOCATION SERVER
CM SERVER
SUPERVISOR
MESSENGER
LOCATION SERVER
CM SERVER
SUPERVISOR
MESSENGER
90
91
92
93
94
95
MESSAGE FOR FLIGHT A
MESSAGE FOR FLIGHT B
REQUEST LOCATION OF FLIGHTS A AND B
RETURN LOCATION (GATE 1 AND 3)
CURRENT LOCATION AND MESSAGES INFO (PRIORITY, CONTENT AND LOCATION)
DISPLAY MAP WITH SUPERVISOR AND MESSAGES ON THEIR GATE

Fig. 9b

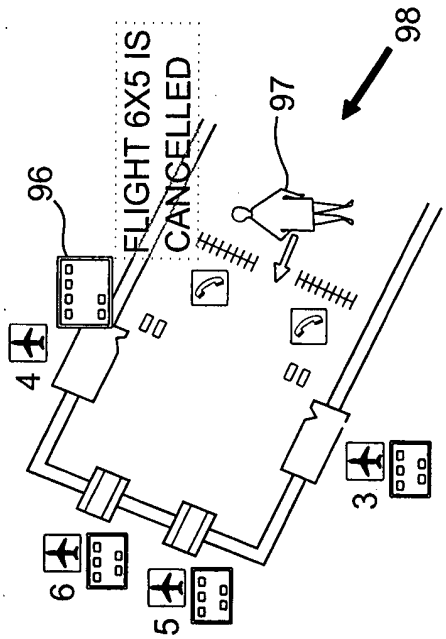

FLIGHT 6X5 IS CANCELLED
96
97
98
4
3
6
5

Fig. 10a

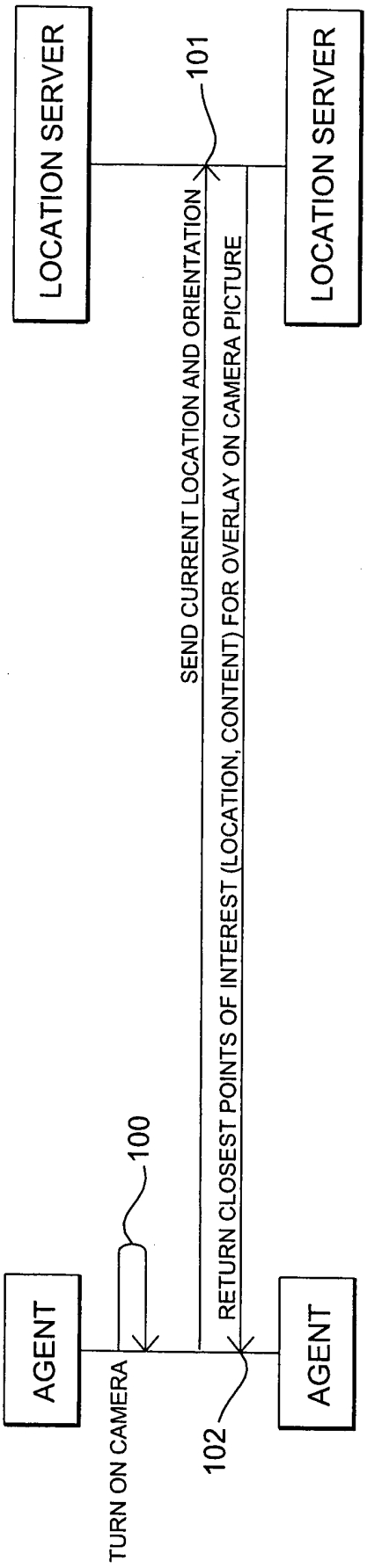


Fig. 10b

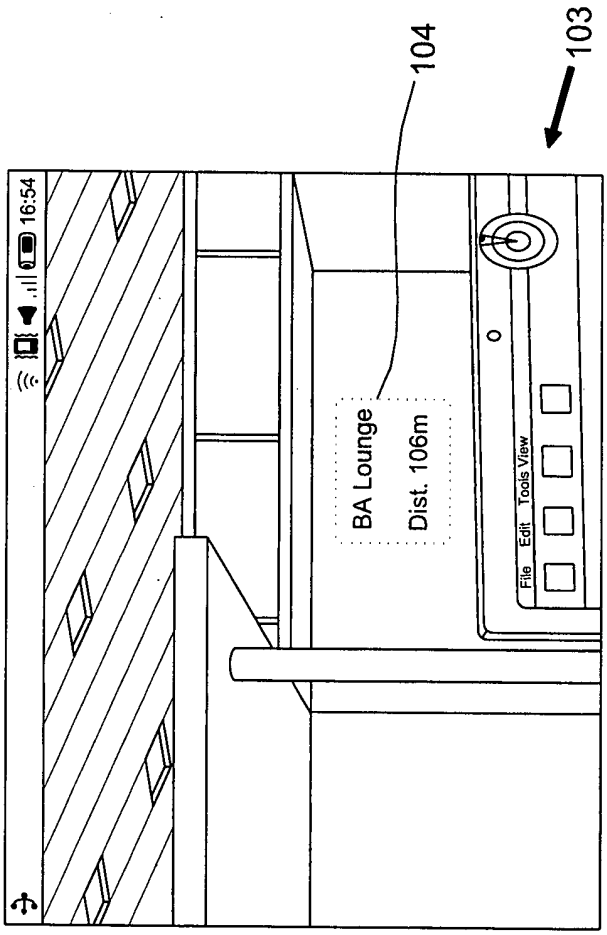


Fig. 11a

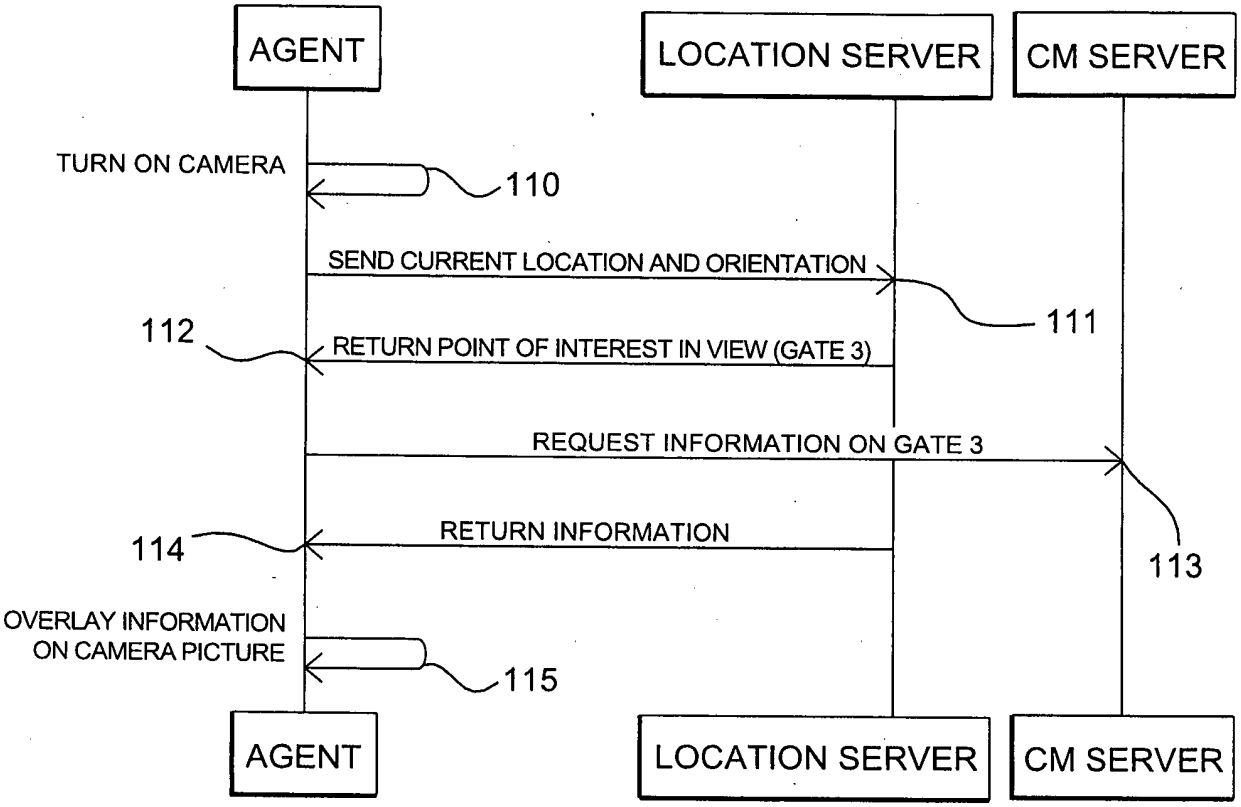


Fig. 11b

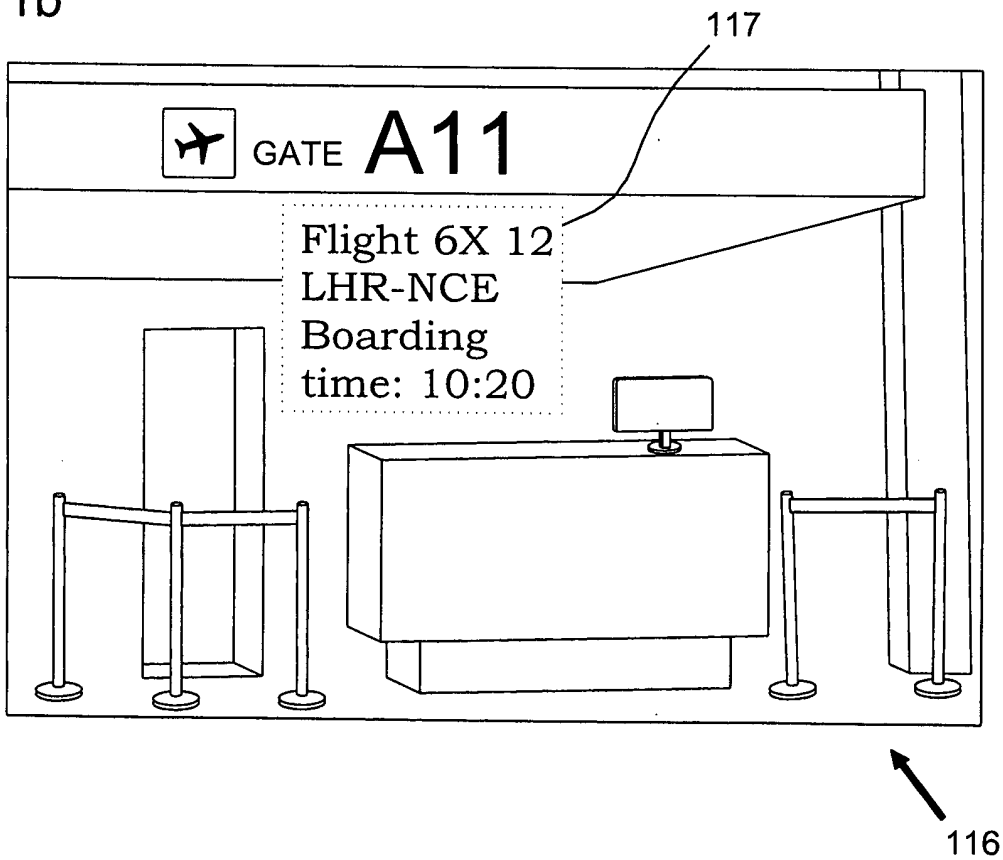
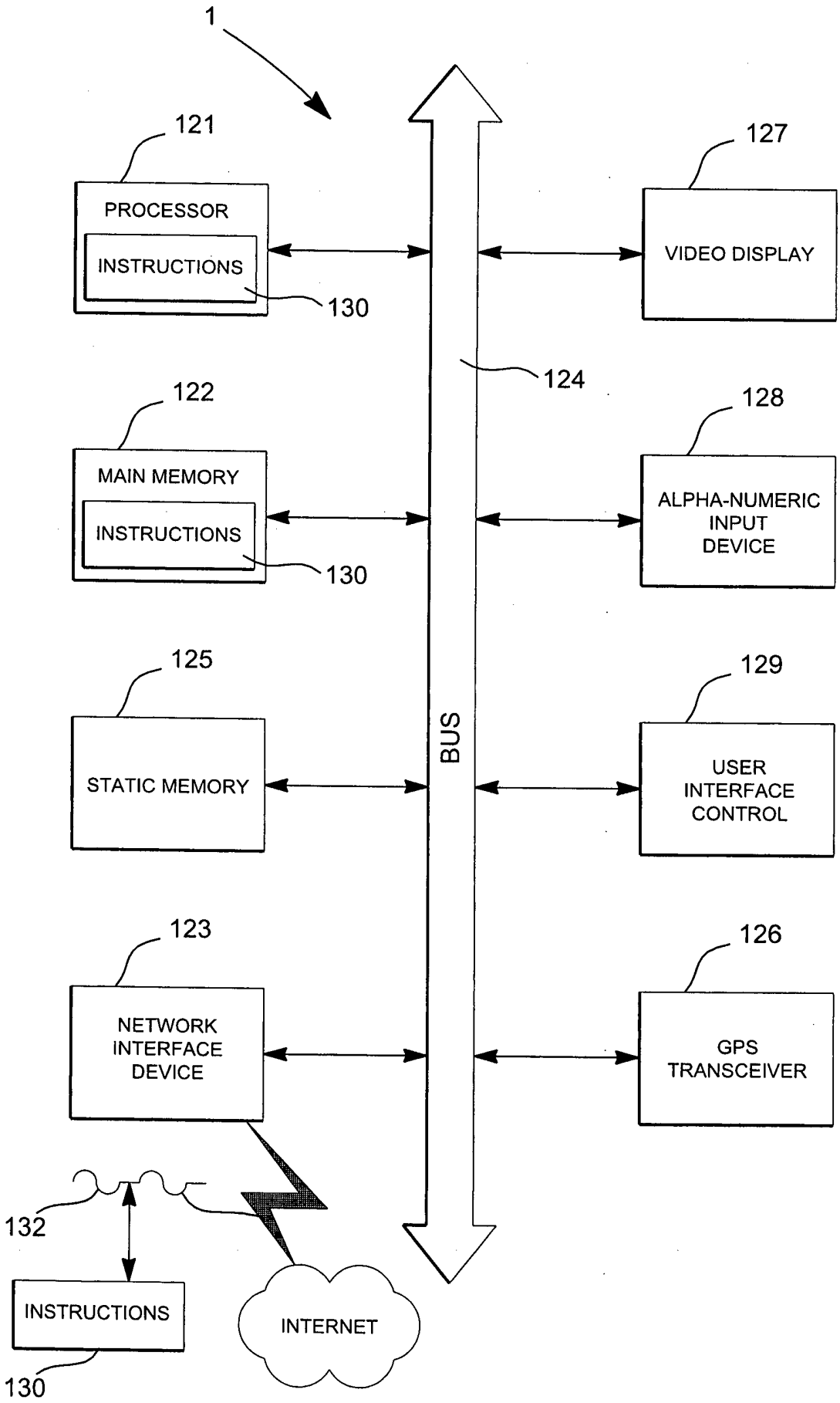


Fig. 12


1
121
PROCESSOR
INSTRUCTIONS
130
122
MAIN MEMORY
INSTRUCTIONS
130
125
STATIC MEMORY
123
NETWORK INTERFACE DEVICE
132
INSTRUCTIONS
130
INTERNET
BUS
124
127
VIDEO DISPLAY
128
ALPHA-NUMERIC INPUT DEVICE
129
USER INTERFACE CONTROL
126
GPS TRANSCEIVER