FIG. 1

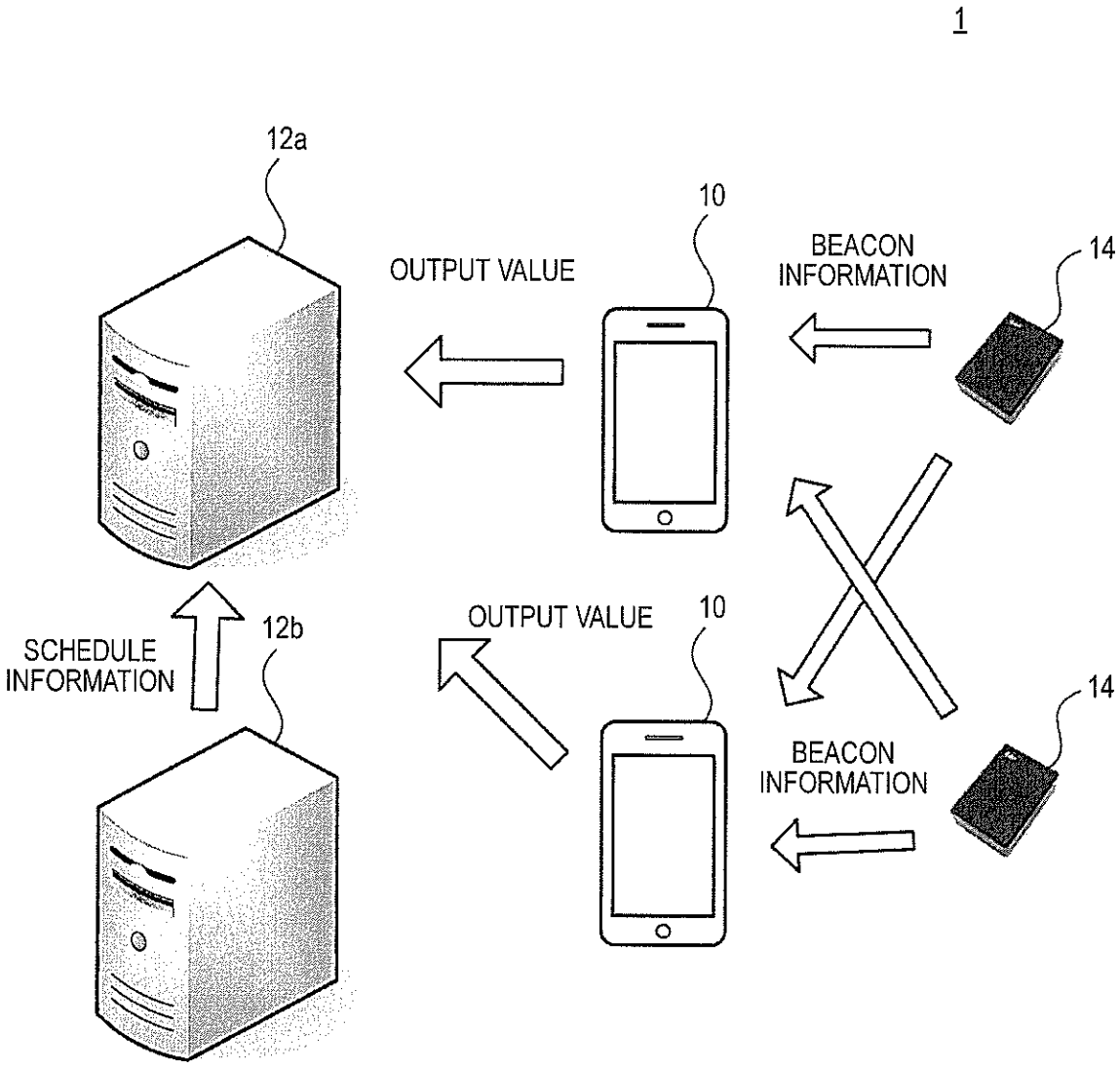
1
12a
10
OUTPUT VALUE
BEACON INFORMATION
14
SCHEDULE INFORMATION
12b
OUTPUT VALUE
10
14
BEACON INFORMATION

FIG. 2

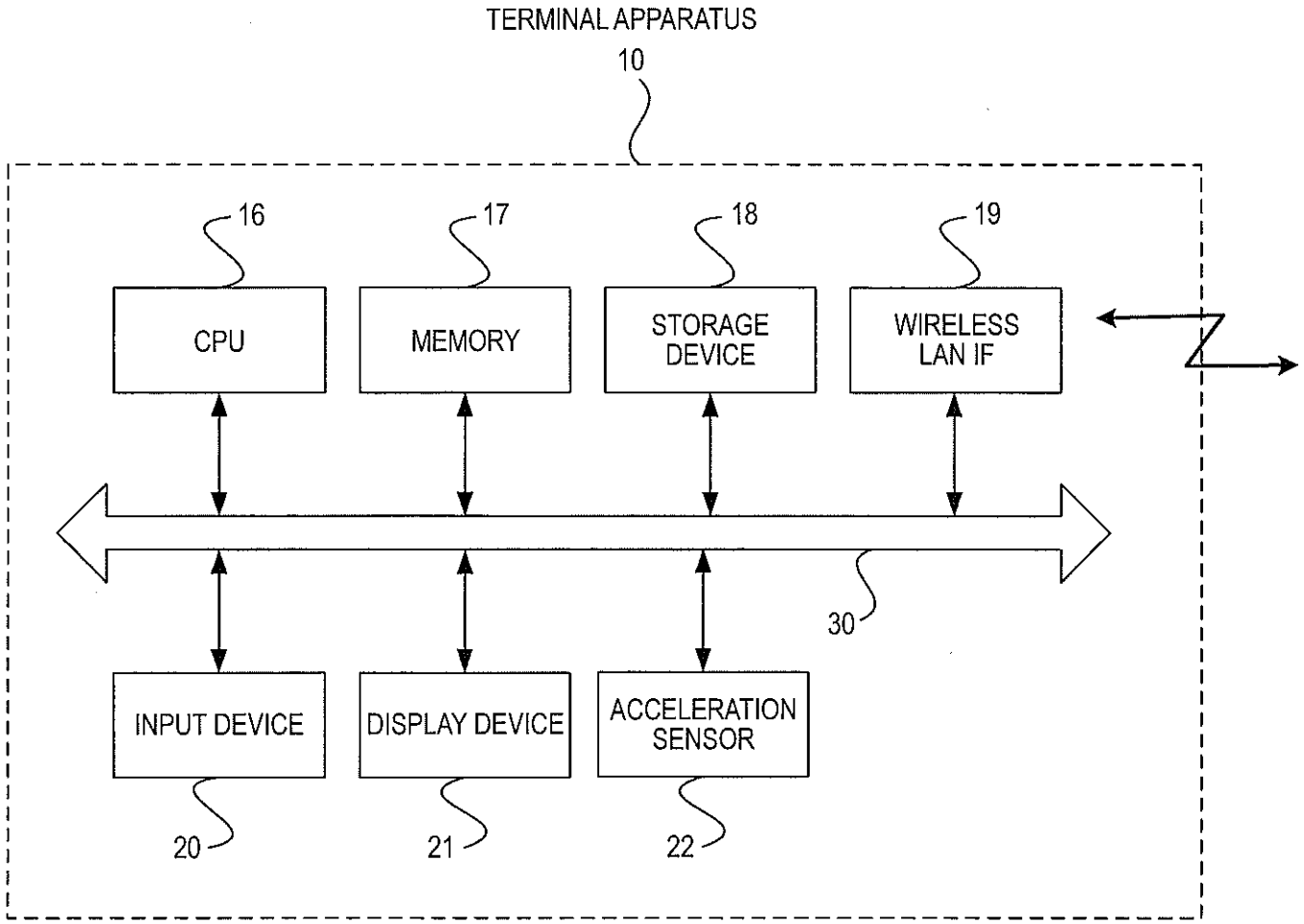
TERMINAL APPARATUS
10
16
17
18
19
CPU
MEMORY
STORAGE DEVICE
WIRELESS LAN IF
30
INPUT DEVICE
DISPLAY DEVICE
ACCELERATION SENSOR
20
21
22

FIG. 3

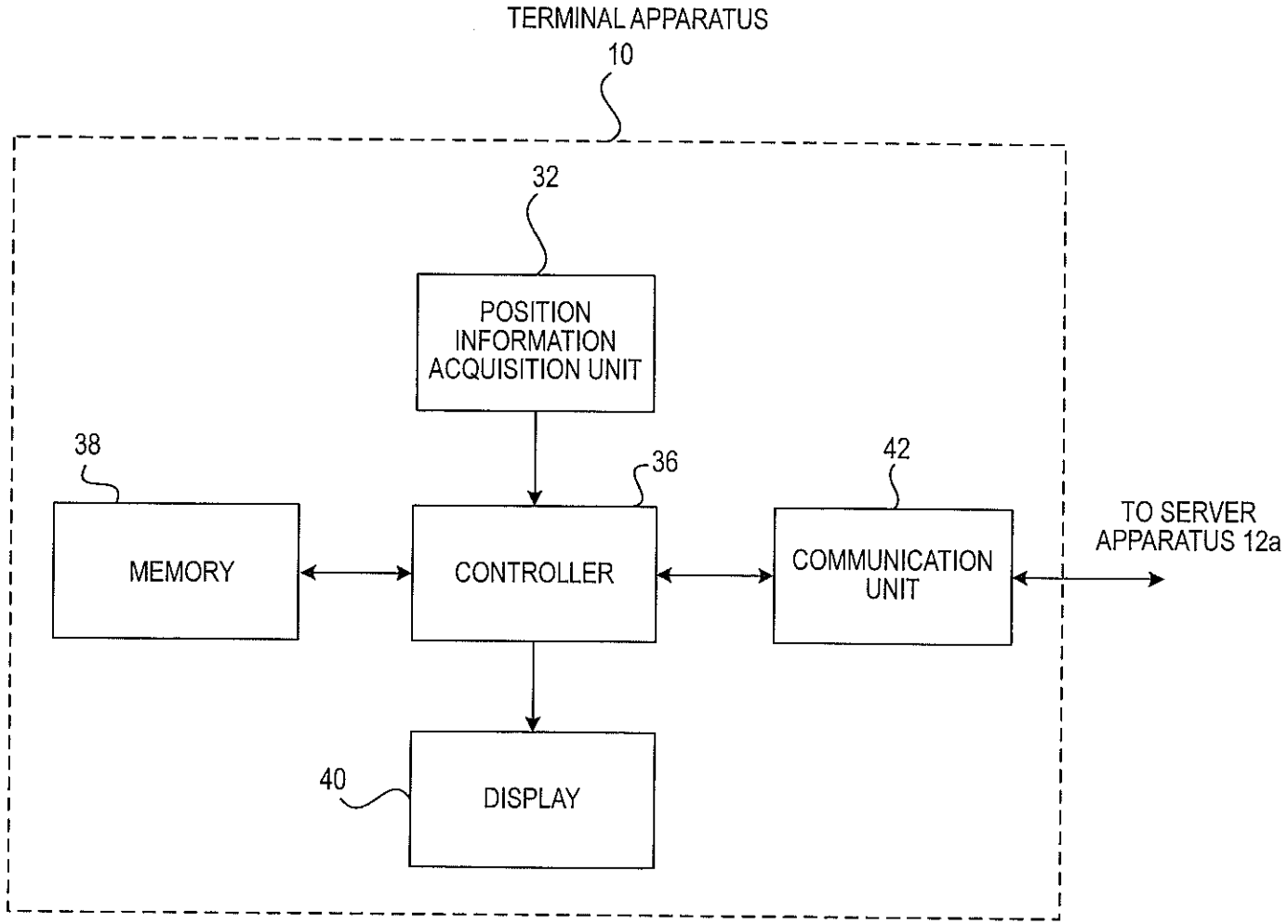
TERMINAL APPARATUS
10
32
POSITION INFORMATION ACQUISITION UNIT
38
MEMORY
36
CONTROLLER
42
COMMUNICATION UNIT
TO SERVER APPARATUS 12a
40
DISPLAY

FIG. 4

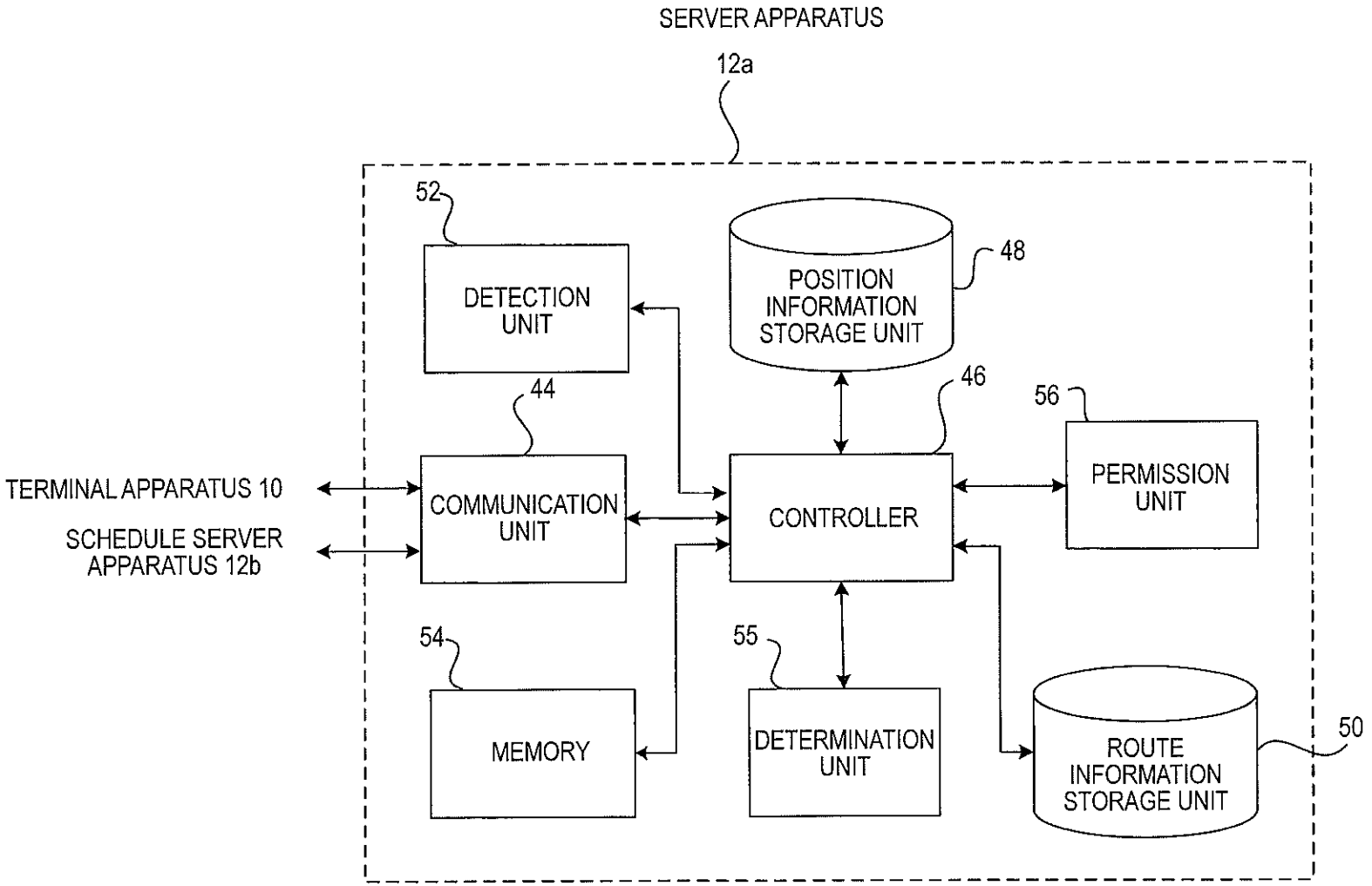
SERVER APPARATUS
12a
52
DETECTION UNIT
POSITION INFORMATION STORAGE UNIT
48
44
46
56
TERMINAL APPARATUS 10
SCHEDULE SERVER APPARATUS 12b
COMMUNICATION UNIT
CONTROLLER
PERMISSION UNIT
54
55
MEMORY
DETERMINATION UNIT
ROUTE INFORMATION STORAGE UNIT
50

FIG. 5

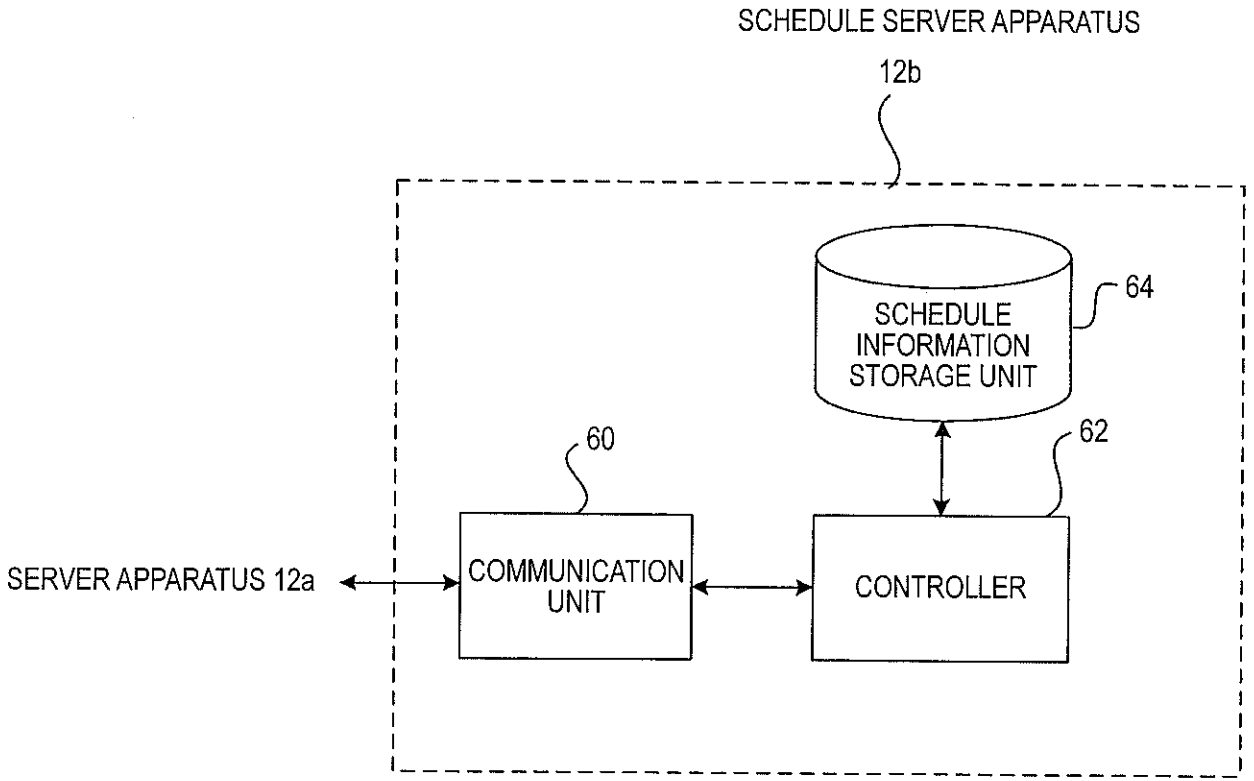
SCHEDULE SERVER APPARATUS
12b
64
SCHEDULE INFORMATION STORAGE UNIT
60
62
SERVER APPARATUS 12a
COMMUNICATION UNIT
CONTROLLER

FIG. 6

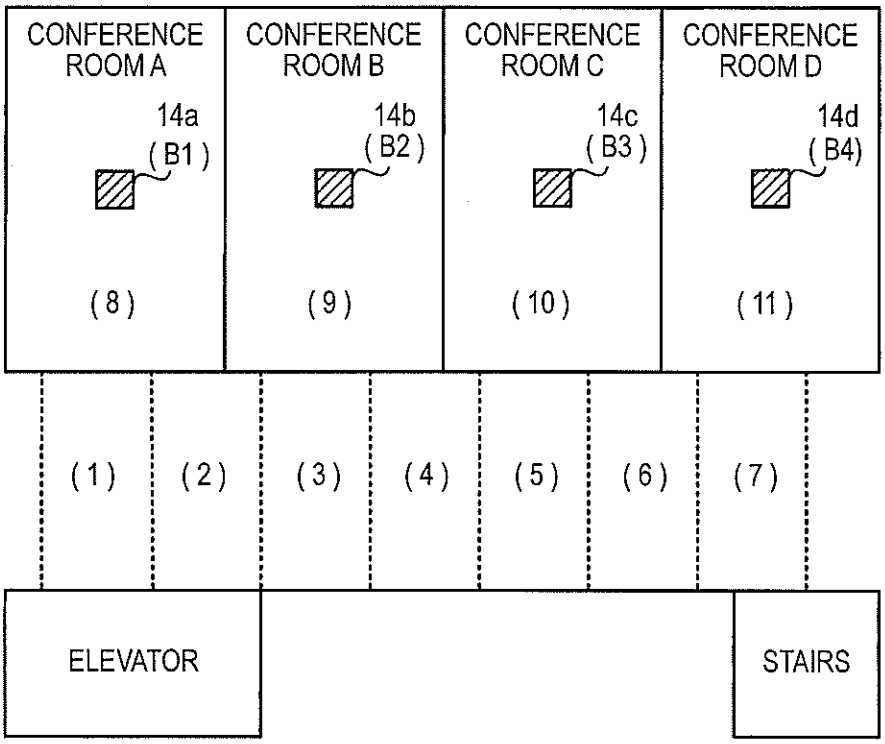
CONFERENCE ROOM A
CONFERENCE ROOM B
CONFERENCE ROOM C
CONFERENCE ROOM D
14a (B1)
14b (B2)
14c (B3)
14d (B4)
(8)
(9)
(10)
(11)
(1)
(2)
(3)
(4)
(5)
(6)
(7)
ELEVATOR
STAIRS

FIG. 7

POSITION \ BEACON ID	B1	B2	B3	B4
(1)	5–20	0–10	0–5	0–5
(2)	0–15	0–15	0–8	0–5
(3)	0–10	5–20	0–10	0–5
(4)	0–8	0–15	0–15	0–8
(5)	0–5	0–10	5–20	0–10
⋮	⋮	⋮	⋮	⋮
(10)	0–3	0–8	10–40	0–8
(11)	0–3	0–5	0–8	10–40

FIG. 8

CONFERENCE ROOM	ROUTE INFORMATION
CONFERENCE ROOM A	(1)(8)
CONFERENCE ROOM A	(7)(6)(5)(4)(3)(2)(1)(8)
CONFERENCE ROOM B	(1)(2)(3)(9)
CONFERENCE ROOM B	(7)(6)(5)(4)(3)(9)
CONFERENCE ROOM C	(1)(2)(3)(4)(5)(10)
CONFERENCE ROOM C	(7)(6)(5)(10)
⋮	⋮

FIG. 9

DATES AND TIMES	PLACES	PARTICIPANTS	MANDATORY PARTICIPANTS
2015/12/24 15:00-16:00	CONFERENCE ROOM C	USER 1, USER 2, USER 3, USER 4	USER 1, USER 2
2015/12/25 10:00-12:00	CONFERENCE ROOM A	USER 5, USER 6, USER 7, USER 8	USER 5, USER 6, USER 7
2015/12/25 10:00-12:00	CONFERENCE ROOM D	USER 3, USER 4	ALL
2015/12/25 13:00-14:00	CONFERENCE ROOM B	USER 1, USER 3, USER 9, USER 10	USER 1, USER 9, USER 10
2015/12/25 13:00-15:00	CONFERENCE ROOM C	USER 2, USER 5, USER 6, USER 8, USER 11	USER 2, USER 11

FIG. 10

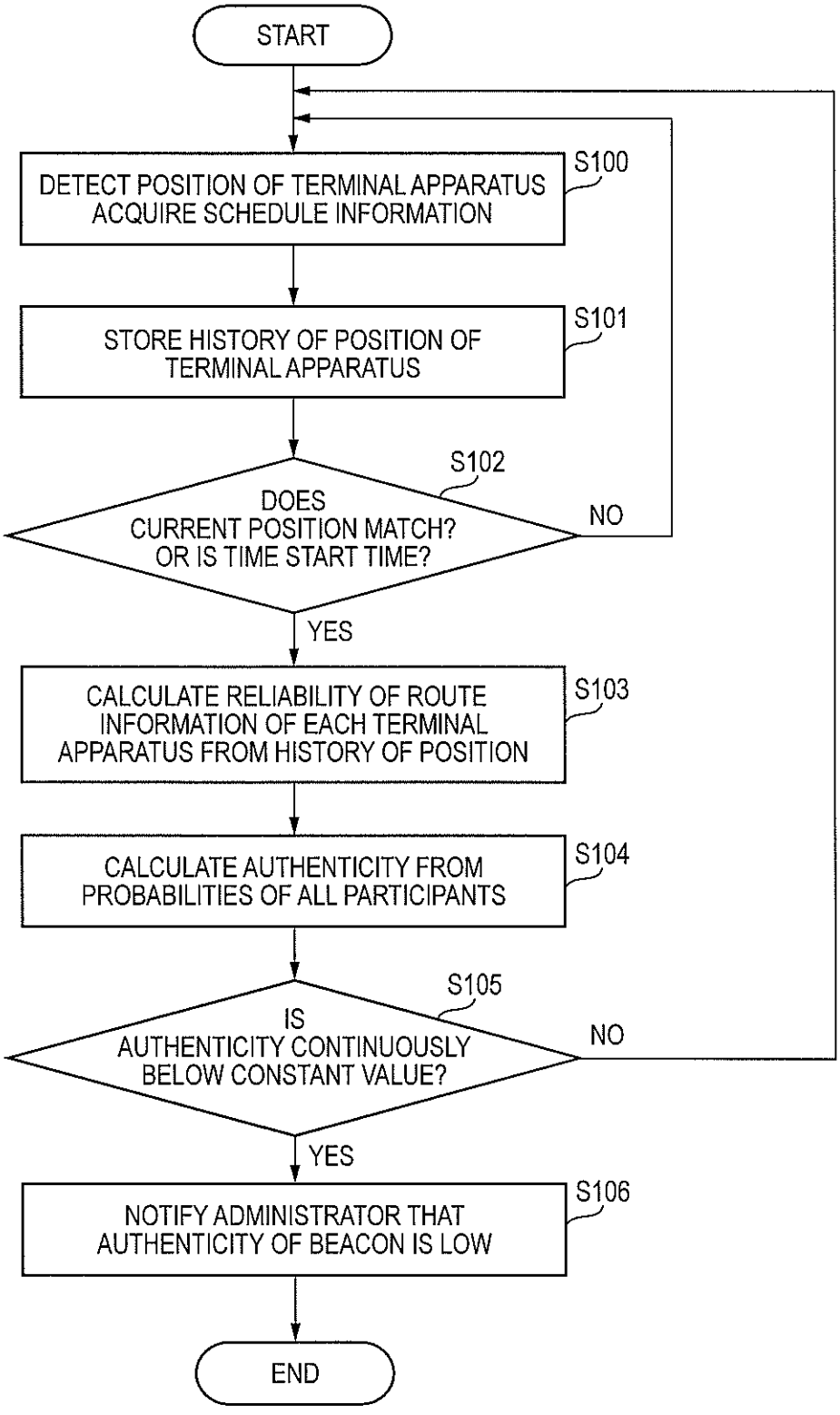
START
DETECT POSITION OF TERMINAL APPARATUS
ACQUIRE SCHEDULE INFORMATION
S100
STORE HISTORY OF POSITION OF
TERMINAL APPARATUS
S101
S102
DOES
CURRENT POSITION MATCH?
OR IS TIME START TIME?
NO
YES
CALCULATE RELIABILITY OF ROUTE
INFORMATION OF EACH TERMINAL
APPARATUS FROM HISTORY OF POSITION
S103
CALCULATE AUTHENTICITY FROM
PROBABILITIES OF ALL PARTICIPANTS
S104
S105
IS
AUTHENTICITY CONTINUOUSLY
BELOW CONSTANT VALUE?
NO
YES
NOTIFY ADMINISTRATOR THAT
AUTHENTICITY OF BEACON IS LOW
S106
END

FIG. 11

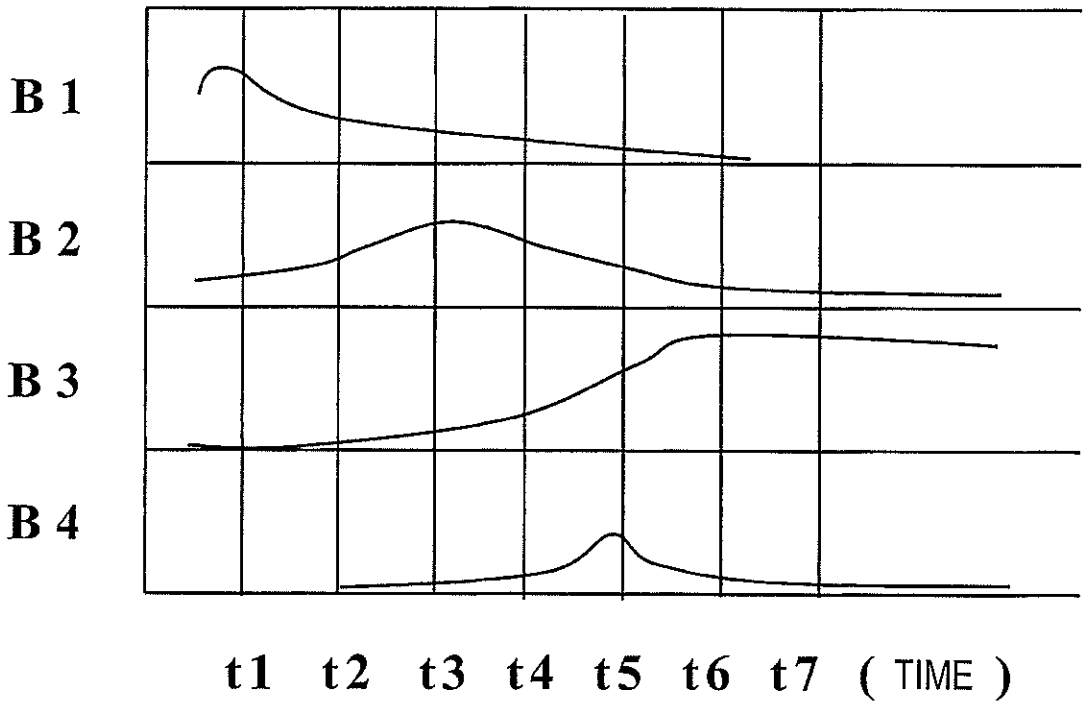

FIG. 12

TIME	BEACON INFORMATION FROM TERMINAL	SERVER POSITION DETERMINATION	ROUTE INFORMATION STORAGE	CONFERENCE ROOM DETERMINATION
t1	B1:10, B2:5	(1)	(1)	—
t2	B1:5, B2:5	(2)	(1)(2)	—
t3	B1:2, B2:10, B3:3	(3)	(1)(2)(3)	—
t4	B2:5, B3:5	(4)	(1)(2)(3)(4)	—
t5	B2:2, B3:10, B4:3	(5)	(1)(2)(3)(4)(5)	—
t6	B2:2, B3:25, B4:2	(10)	(1)(2)(3)(4)(5)(10)	CONFERENCE ROOM C
t7	B2:1, B3:35, B4:3	(10)	(1)(2)(3)(4)(5)(10)(10)	CONFERENCE ROOM C

FIG. 13

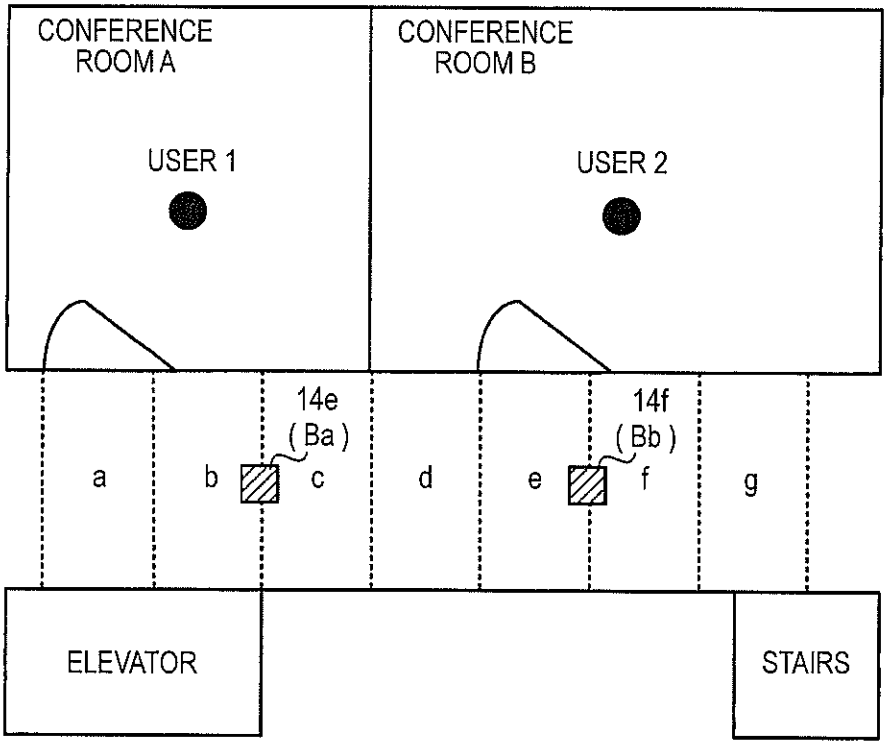
CONFERENCE ROOM A
CONFERENCE ROOM B
USER 1
USER 2
14e
(Ba)
14f
(Bb)
a
b
c
d
e
f
g
ELEVATOR
STAIRS

FIG. 14

POSITION \ BEACON ID	Ba	Bb
a	5–10	0–5
b	5–20	5–15
c	5–15	5–20
d	5–15	5–20
e	0–5	5–15
⋮	⋮	⋮

FIG. 15

USER	DESTINATION	ROUTE INFORMATION
USER 1	ELEVATOR	a
USER 1	STAIRS	a, b, c, d, e, f, g
USER 2	ELEVATOR	e, d, c, b, a
USER 2	STAIRS	e, f, g
⋮	⋮	⋮