FIG.10

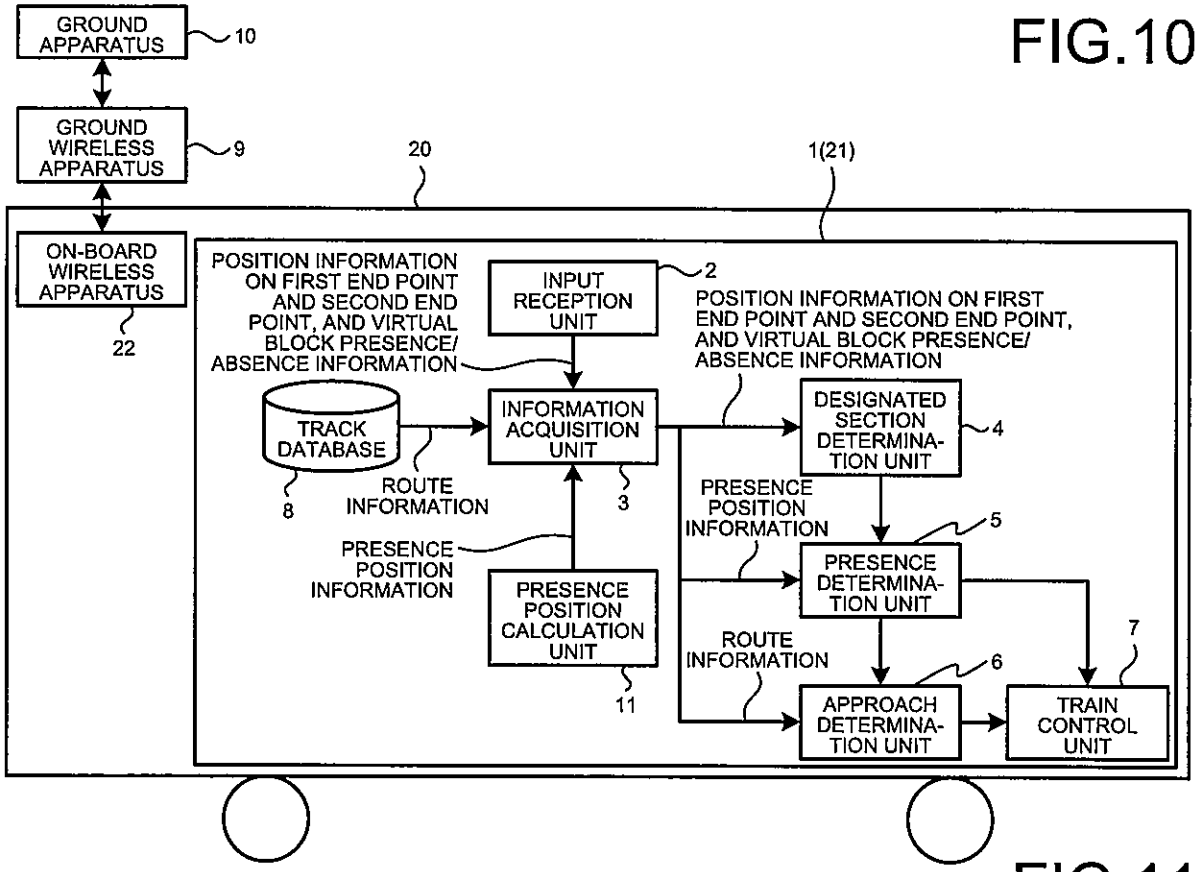

GROUND APPARATUS
10
GROUND WIRELESS APPARATUS
9
20
1(21)
ON-BOARD WIRELESS APPARATUS
22
POSITION INFORMATION ON FIRST END POINT AND SECOND END POINT, AND VIRTUAL BLOCK PRESENCE/ ABSENCE INFORMATION
INPUT RECEPTION UNIT
2
POSITION INFORMATION ON FIRST END POINT AND SECOND END POINT, AND VIRTUAL BLOCK PRESENCE/ ABSENCE INFORMATION
TRACK DATABASE
8
INFORMATION ACQUISITION UNIT
3
DESIGNATED SECTION DETERMINA- TION UNIT
4
ROUTE INFORMATION
PRESENCE POSITION INFORMATION
5
PRESENCE POSITION INFORMATION
PRESENCE DETERMINA- TION UNIT
PRESENCE POSITION CALCULATION UNIT
11
ROUTE INFORMATION
6
7
APPROACH DETERMINA- TION UNIT
TRAIN CONTROL UNIT

FIG.11

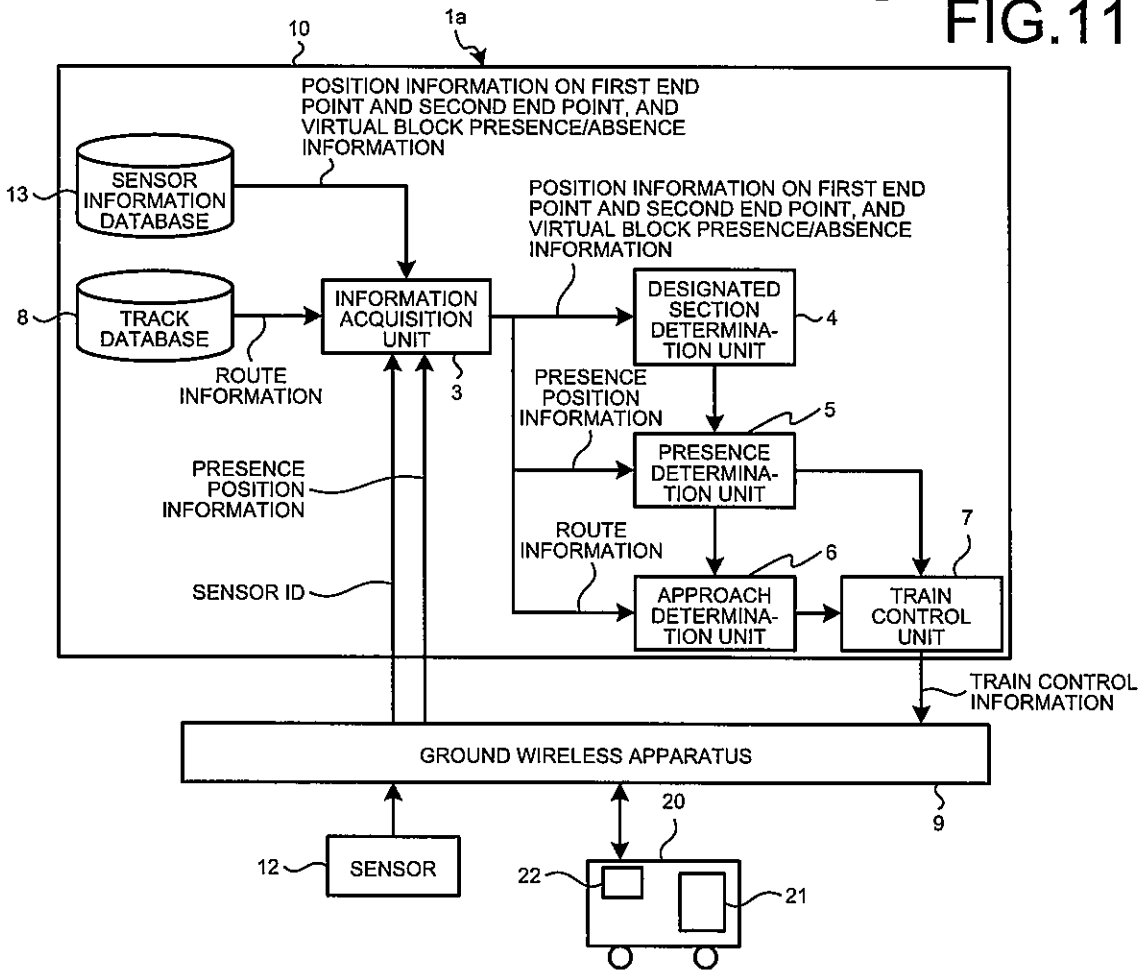

10
1a
POSITION INFORMATION ON FIRST END POINT AND SECOND END POINT, AND VIRTUAL BLOCK PRESENCE/ABSENCE INFORMATION
13
SENSOR INFORMATION DATABASE
POSITION INFORMATION ON FIRST END POINT AND SECOND END POINT, AND VIRTUAL BLOCK PRESENCE/ABSENCE INFORMATION
8
TRACK DATABASE
INFORMATION ACQUISITION UNIT
3
DESIGNATED SECTION DETERMINA- TION UNIT
4
ROUTE INFORMATION
PRESENCE POSITION INFORMATION
5
PRESENCE POSITION INFORMATION
PRESENCE DETERMINA- TION UNIT
SENSOR ID
ROUTE INFORMATION
6
7
APPROACH DETERMINA- TION UNIT
TRAIN CONTROL UNIT
TRAIN CONTROL INFORMATION
GROUND WIRELESS APPARATUS
9
20
12
SENSOR
22
21

FIG.12

SENSOR ID	XXXX	YYYY	ZZZZ
POSITION INFORMATION ON FIRST END POINT P1	240	···	···
POSITION INFORMATION ON SECOND END POINT P2	800	···	···
VIRTUAL BLOCK PRESENCE/ABSENCE INFORMATION	INCLUDED	···	···

FIG.13

