FIG.1

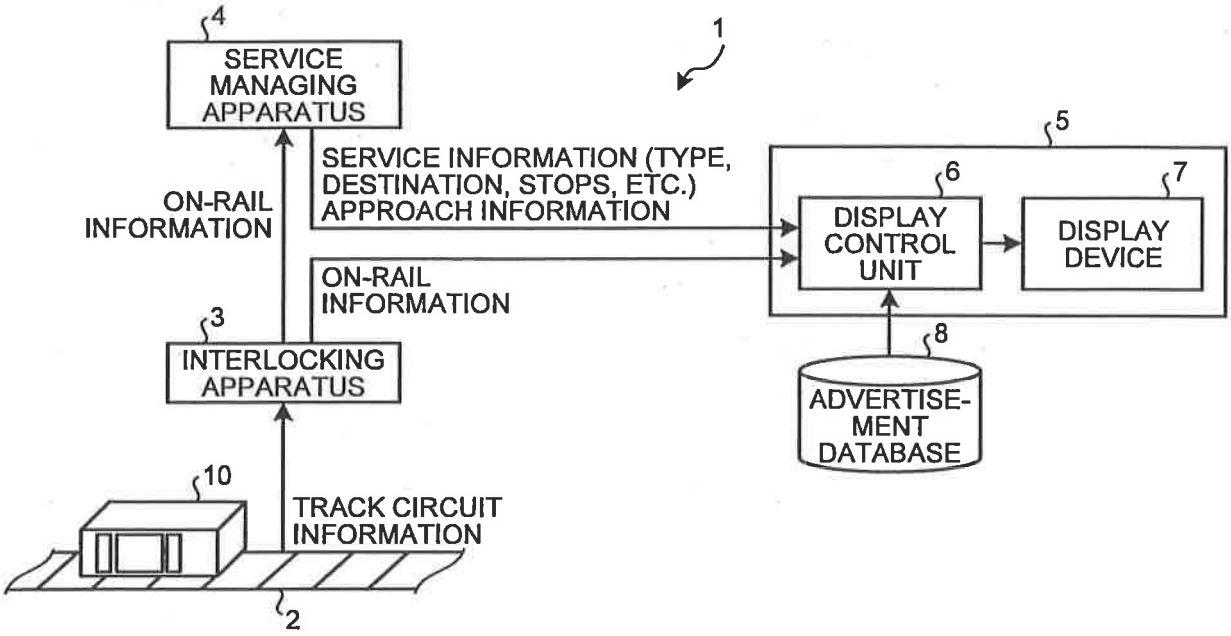

4
SERVICE MANAGING APPARATUS
1
5
SERVICE INFORMATION (TYPE, DESTINATION, STOPS, ETC.) APPROACH INFORMATION
ON-RAIL INFORMATION
6
7
DISPLAY CONTROL UNIT
DISPLAY DEVICE
ON-RAIL INFORMATION
3
INTERLOCKING APPARATUS
8
ADVERTISE-MENT DATABASE
10
TRACK CIRCUIT INFORMATION
2

FIG.2

RAPID	ADVERTISE-MENT C1
	ADVERTISE-MENT C2
LOCAL	ADVERTISE-MENT C3
	ADVERTISE-MENT C4

(a)

DESTINATION D1	ADVERTISE-MENT F1
	ADVERTISE-MENT F2
DESTINATION D2	ADVERTISE-MENT F3
	ADVERTISE-MENT F4

(b)

STOP S1	ADVERTISE-MENT G1
	ADVERTISE-MENT G2
STOP S2	ADVERTISE-MENT G1
	ADVERTISE-MENT G2
STOP S3	ADVERTISE-MENT G3
	ADVERTISE-MENT G4

(c)

RAPID	
COMMON	ADVERTISE-MENT C1
	ADVERTISE-MENT C2
STOP S1	ADVERTISE-MENT G1
	ADVERTISE-MENT G2
STOP S2	ADVERTISE-MENT G1
	ADVERTISE-MENT G2
STOP S3 (DESTINATION)	ADVERTISE-MENT F1

(d)

RAPID			
COMMON	ADVERTISE-MENT C1_S	ADVERTISE-MENT C1_M	ADVERTISE-MENT C1_L
	ADVERTISE-MENT C2_S	ADVERTISE-MENT C2_M	ADVERTISE-MENT C2_L
STOP S1	ADVERTISE-MENT G1_S	ADVERTISE-MENT G1_M	ADVERTISE-MENT G1_L
	ADVERTISE-MENT G2_S	ADVERTISE-MENT G2_M	ADVERTISE-MENT G2_L
STOP S2	ADVERTISE-MENT G1_S	ADVERTISE-MENT G1_M	ADVERTISE-MENT G1_L
	ADVERTISE-MENT G2_S	ADVERTISE-MENT G2_M	ADVERTISE-MENT G2_L
STOP S3 (DESTINATION)	ADVERTISE-MENT F1_S	ADVERTISE-MENT F1_M	ADVERTISE-MENT F1_L

(e)

FIG.3

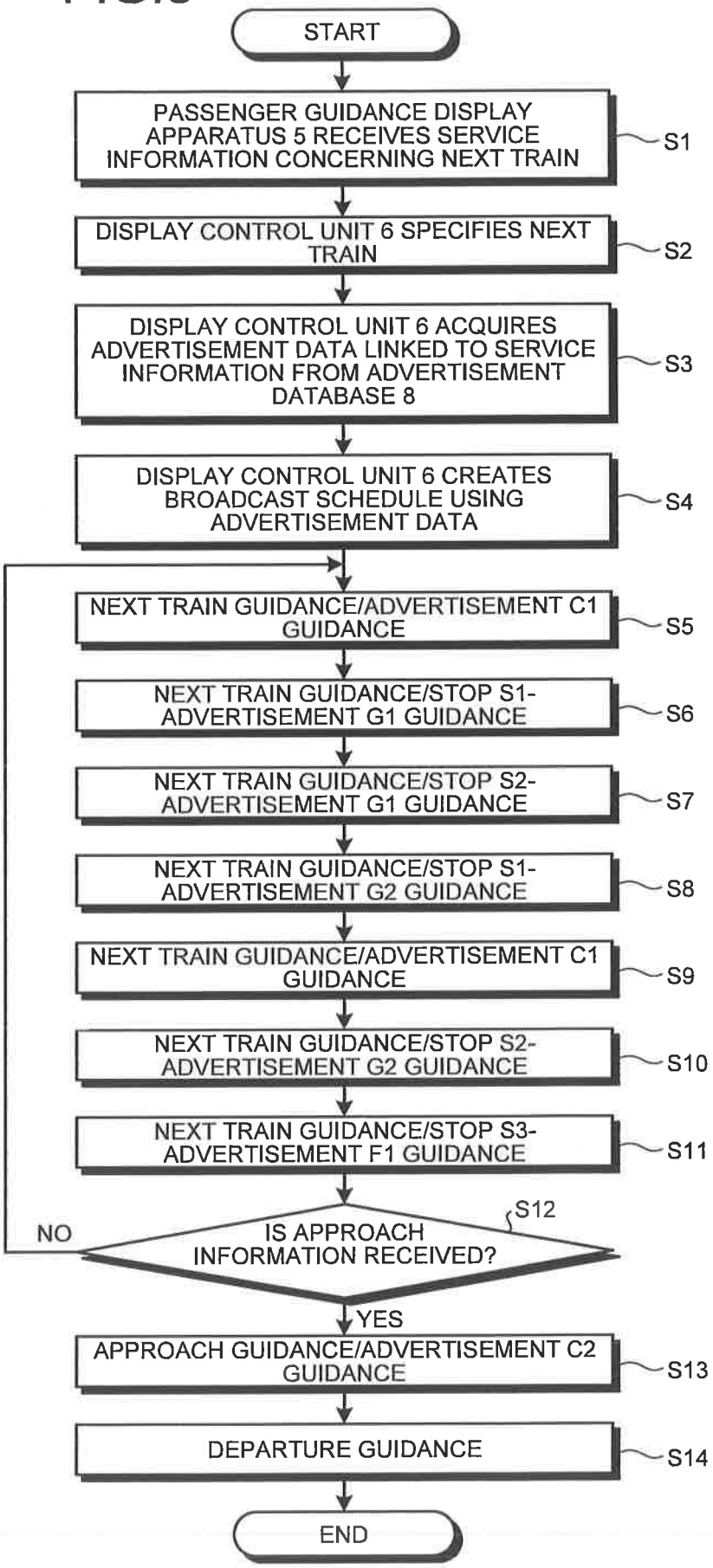

START
PASSENGER GUIDANCE DISPLAY APPARATUS 5 RECEIVES SERVICE INFORMATION CONCERNING NEXT TRAIN
S1
DISPLAY CONTROL UNIT 6 SPECIFIES NEXT TRAIN
S2
DISPLAY CONTROL UNIT 6 ACQUIRES ADVERTISEMENT DATA LINKED TO SERVICE INFORMATION FROM ADVERTISEMENT DATABASE 8
S3
DISPLAY CONTROL UNIT 6 CREATES BROADCAST SCHEDULE USING ADVERTISEMENT DATA
S4
NEXT TRAIN GUIDANCE/ADVERTISEMENT C1 GUIDANCE
S5
NEXT TRAIN GUIDANCE/STOP S1-ADVERTISEMENT G1 GUIDANCE
S6
NEXT TRAIN GUIDANCE/STOP S2-ADVERTISEMENT G1 GUIDANCE
S7
NEXT TRAIN GUIDANCE/STOP S1-ADVERTISEMENT G2 GUIDANCE
S8
NEXT TRAIN GUIDANCE/ADVERTISEMENT C1 GUIDANCE
S9
NEXT TRAIN GUIDANCE/STOP S2-ADVERTISEMENT G2 GUIDANCE
S10
NEXT TRAIN GUIDANCE/STOP S3-ADVERTISEMENT F1 GUIDANCE
S11
S12
IS APPROACH INFORMATION RECEIVED?
NO
YES
APPROACH GUIDANCE/ADVERTISEMENT C2 GUIDANCE
S13
DEPARTURE GUIDANCE
S14
END

FIG.4

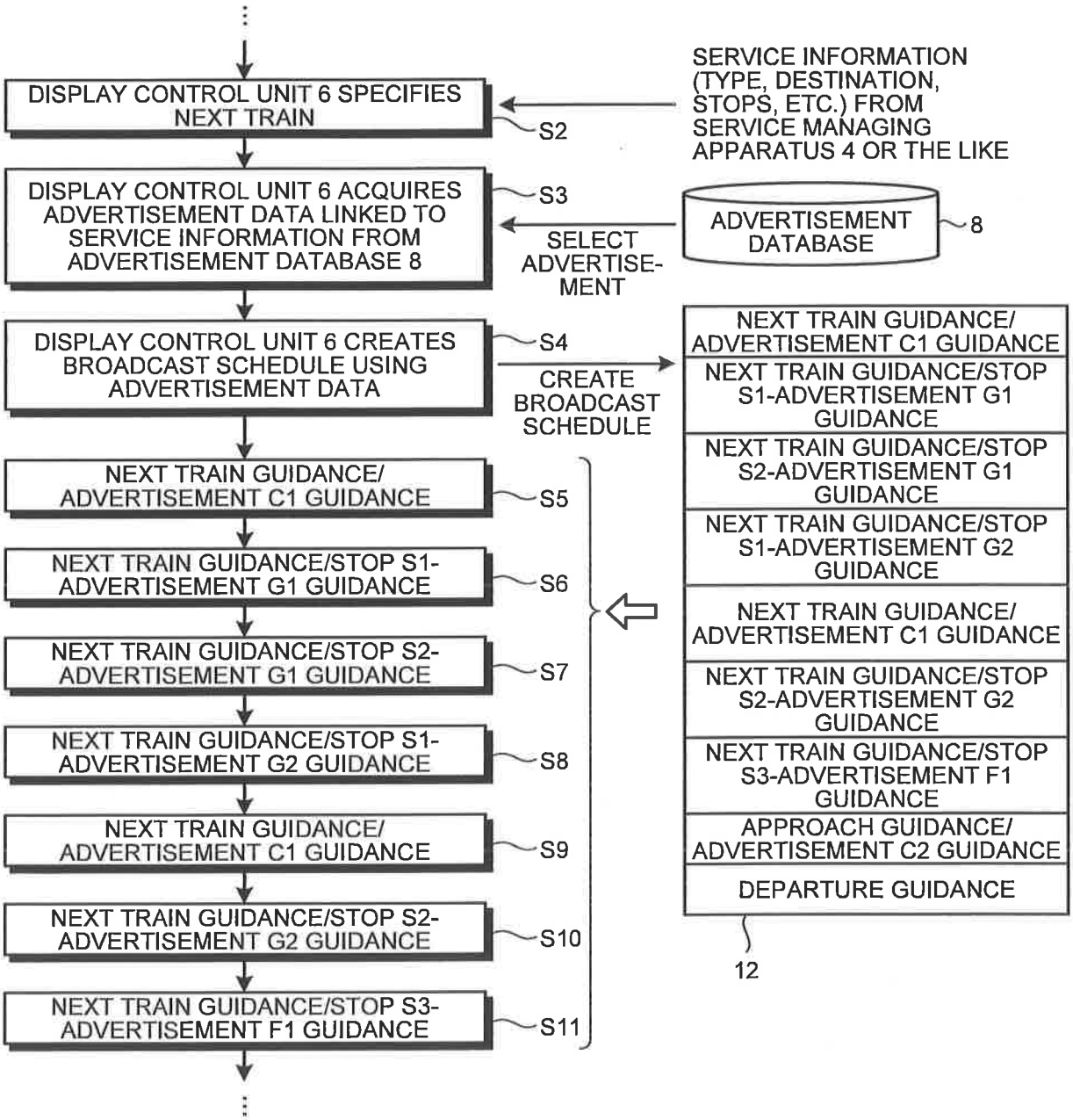
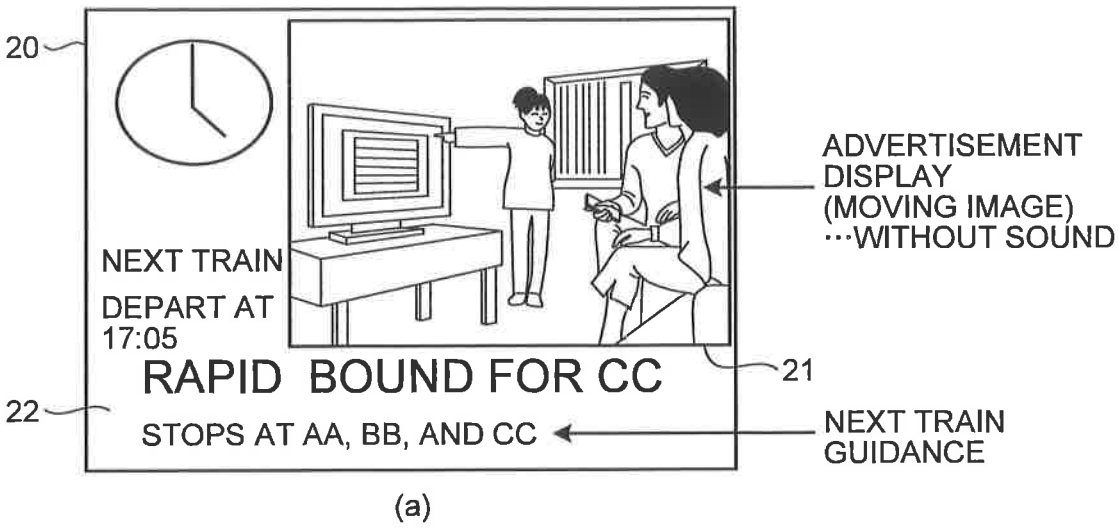
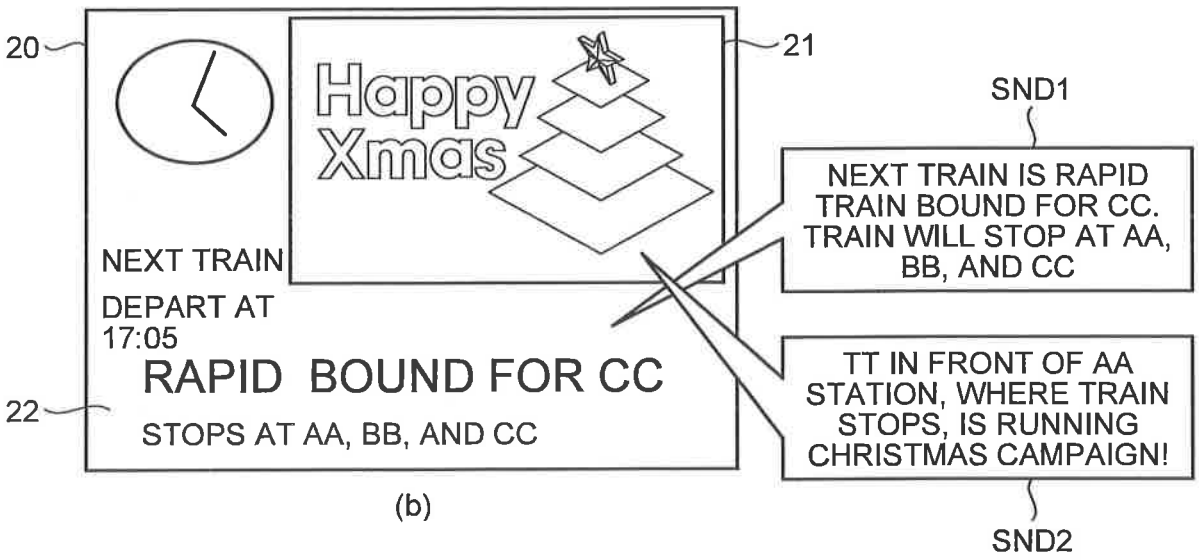

DISPLAY CONTROL UNIT 6 SPECIFIES NEXT TRAIN
S2
SERVICE INFORMATION (TYPE, DESTINATION, STOPS, ETC.) FROM SERVICE MANAGING APPARATUS 4 OR THE LIKE
DISPLAY CONTROL UNIT 6 ACQUIRES ADVERTISEMENT DATA LINKED TO SERVICE INFORMATION FROM ADVERTISEMENT DATABASE 8
S3
SELECT ADVERTISE-MENT
ADVERTISEMENT DATABASE
8
DISPLAY CONTROL UNIT 6 CREATES BROADCAST SCHEDULE USING ADVERTISEMENT DATA
S4
CREATE BROADCAST SCHEDULE
NEXT TRAIN GUIDANCE/ ADVERTISEMENT C1 GUIDANCE
NEXT TRAIN GUIDANCE/STOP S1-ADVERTISEMENT G1 GUIDANCE
NEXT TRAIN GUIDANCE/STOP S2-ADVERTISEMENT G1 GUIDANCE
NEXT TRAIN GUIDANCE/STOP S1-ADVERTISEMENT G2 GUIDANCE
NEXT TRAIN GUIDANCE/ ADVERTISEMENT C1 GUIDANCE
NEXT TRAIN GUIDANCE/STOP S2-ADVERTISEMENT G2 GUIDANCE
NEXT TRAIN GUIDANCE/STOP S3-ADVERTISEMENT F1 GUIDANCE
APPROACH GUIDANCE/ ADVERTISEMENT C2 GUIDANCE
DEPARTURE GUIDANCE
12
NEXT TRAIN GUIDANCE/ ADVERTISEMENT C1 GUIDANCE
S5
NEXT TRAIN GUIDANCE/STOP S1-ADVERTISEMENT G1 GUIDANCE
S6
NEXT TRAIN GUIDANCE/STOP S2-ADVERTISEMENT G1 GUIDANCE
S7
NEXT TRAIN GUIDANCE/STOP S1-ADVERTISEMENT G2 GUIDANCE
S8
NEXT TRAIN GUIDANCE/ ADVERTISEMENT C1 GUIDANCE
S9
NEXT TRAIN GUIDANCE/STOP S2-ADVERTISEMENT G2 GUIDANCE
S10
NEXT TRAIN GUIDANCE/STOP S3-ADVERTISEMENT F1 GUIDANCE
S11

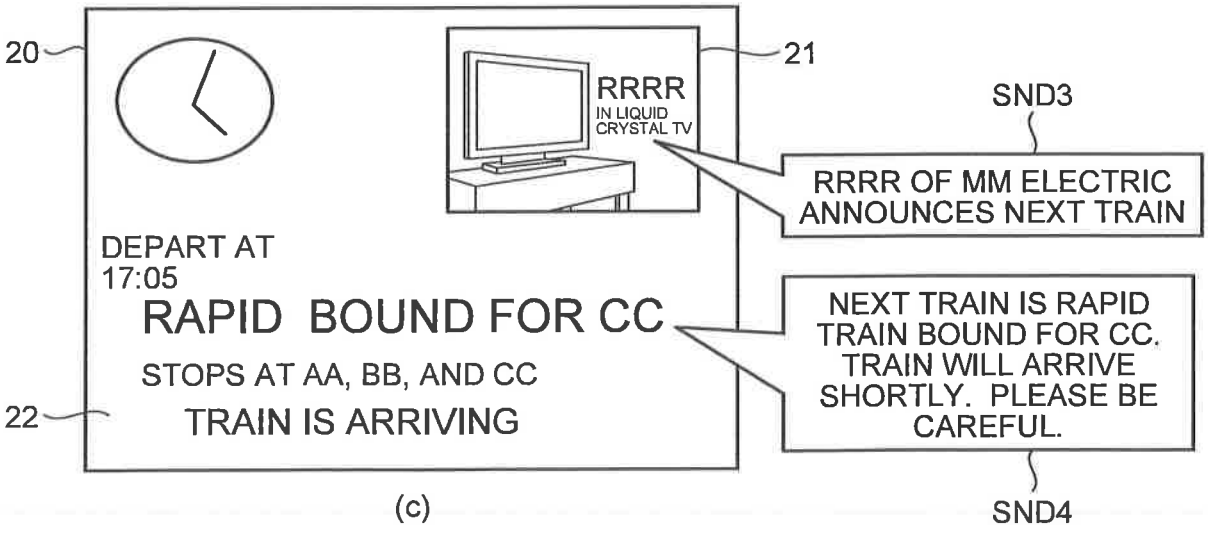
FIG.5


20
NEXT TRAIN
DEPART AT
17:05
RAPID BOUND FOR CC
22
STOPS AT AA, BB, AND CC
21
ADVERTISEMENT
DISPLAY
(MOVING IMAGE)
···WITHOUT SOUND
NEXT TRAIN
GUIDANCE

(a)


20
Happy
Xmas
21
NEXT TRAIN
DEPART AT
17:05
RAPID BOUND FOR CC
22
STOPS AT AA, BB, AND CC
SND1
NEXT TRAIN IS RAPID TRAIN BOUND FOR CC. TRAIN WILL STOP AT AA, BB, AND CC
TT IN FRONT OF AA STATION, WHERE TRAIN STOPS, IS RUNNING CHRISTMAS CAMPAIGN!
SND2

(b)


20
RRRR
IN LIQUID
CRYSTAL TV
21
DEPART AT
17:05
RAPID BOUND FOR CC
STOPS AT AA, BB, AND CC
22
TRAIN IS ARRIVING
SND3
RRRR OF MM ELECTRIC ANNOUNCES NEXT TRAIN
NEXT TRAIN IS RAPID TRAIN BOUND FOR CC. TRAIN WILL ARRIVE SHORTLY. PLEASE BE CAREFUL.
SND4

(c)

FIG.6

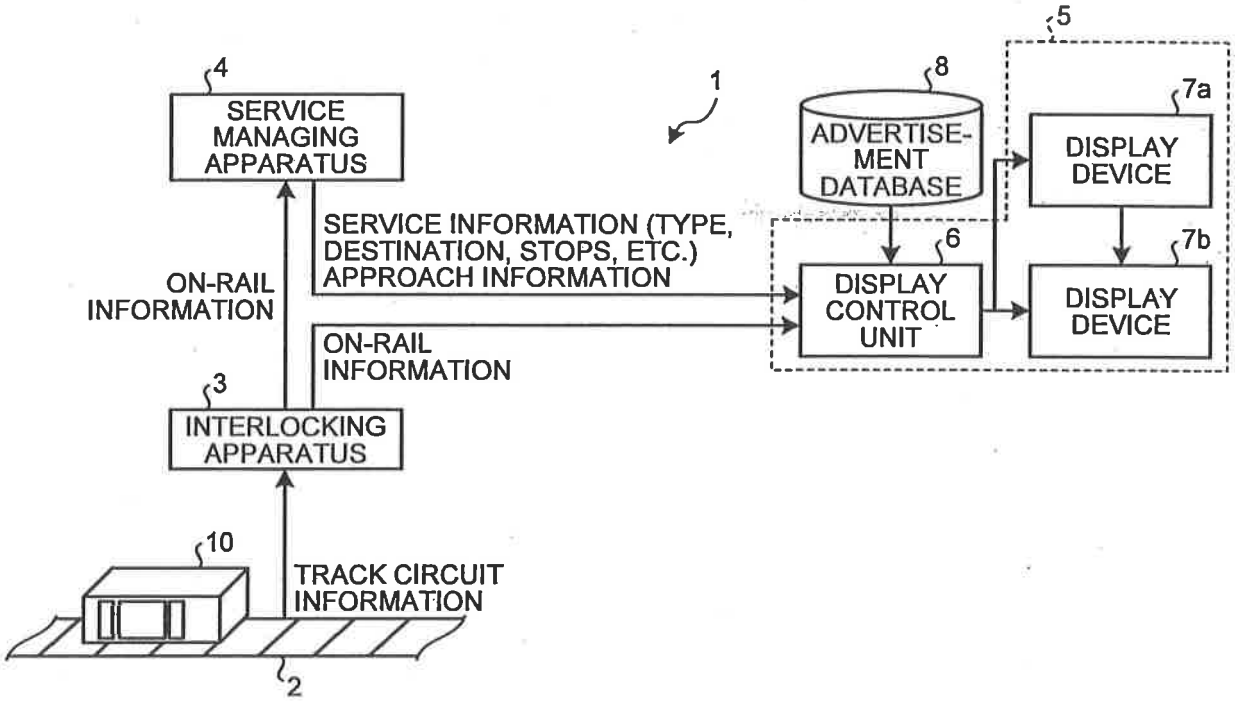
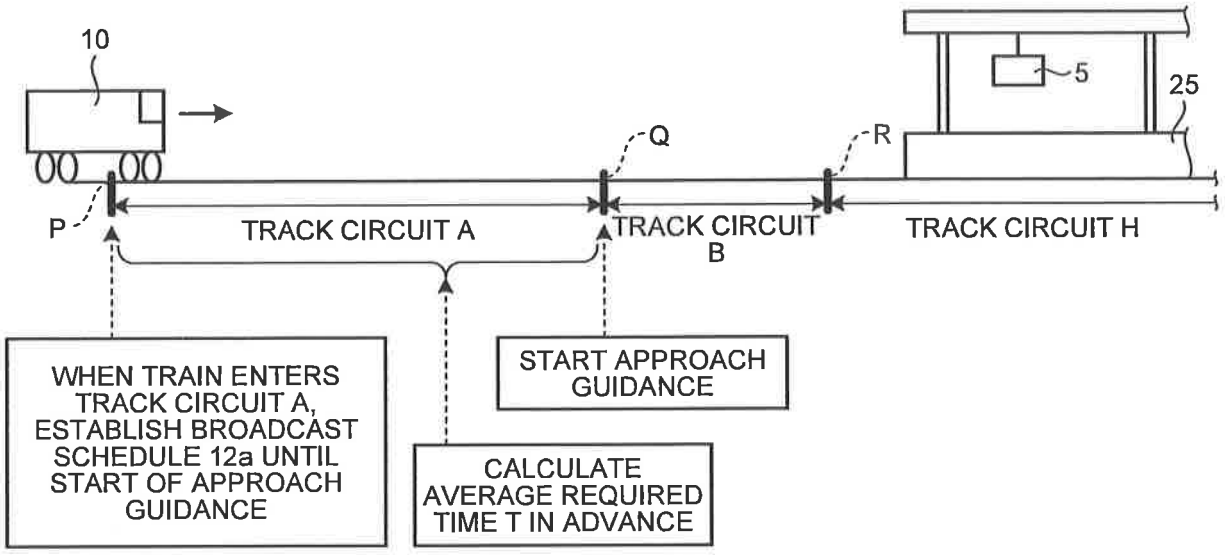
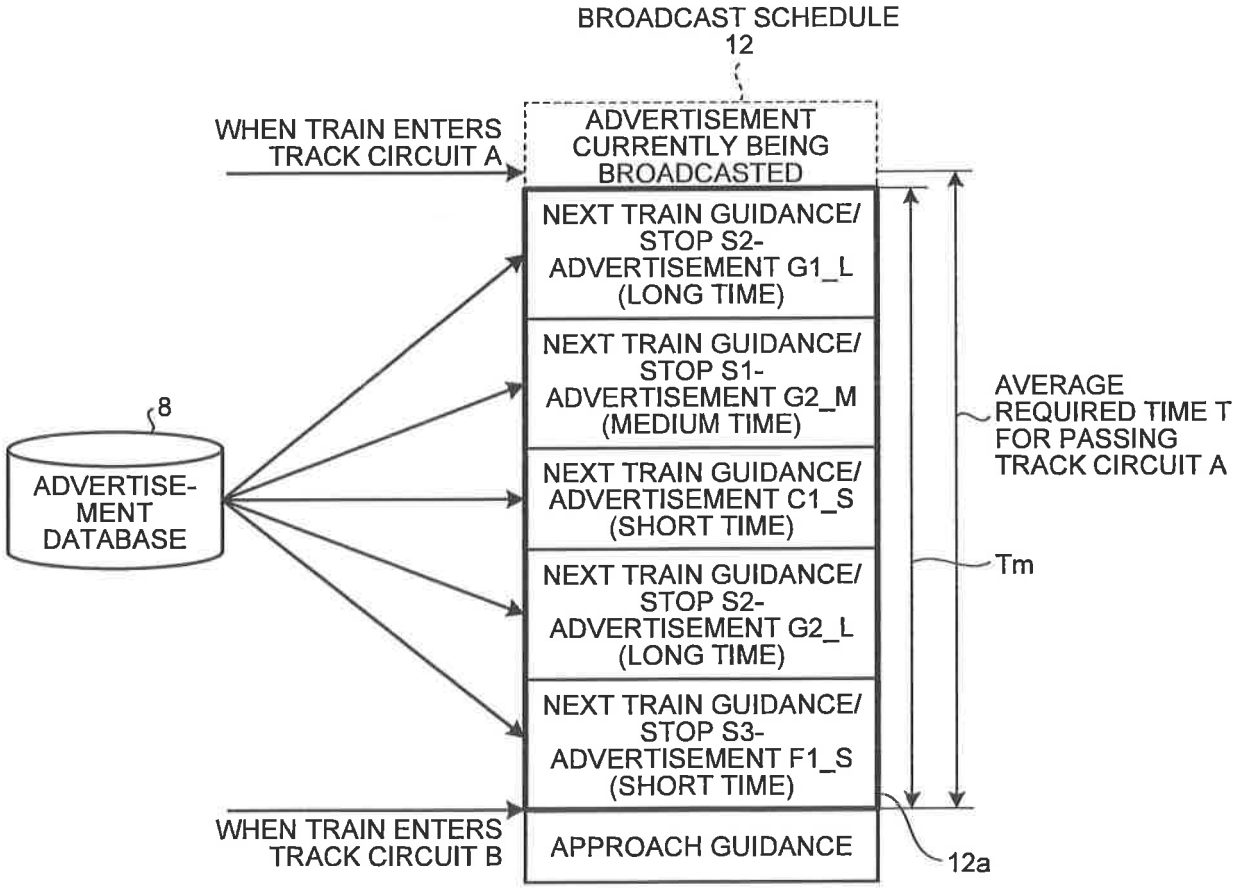

5
4
SERVICE MANAGING APPARATUS
1
8
ADVERTISE-MENT DATABASE
7a
DISPLAY DEVICE
SERVICE INFORMATION (TYPE, DESTINATION, STOPS, ETC.) APPROACH INFORMATION
6
7b
ON-RAIL INFORMATION
DISPLAY CONTROL UNIT
DISPLAY DEVICE
ON-RAIL INFORMATION
3
INTERLOCKING APPARATUS
10
TRACK CIRCUIT INFORMATION
2

FIG.7


10
5
25
Q
R
P
TRACK CIRCUIT A
TRACK CIRCUIT B
TRACK CIRCUIT H
WHEN TRAIN ENTERS TRACK CIRCUIT A, ESTABLISH BROADCAST SCHEDULE 12a UNTIL START OF APPROACH GUIDANCE
START APPROACH GUIDANCE
CALCULATE AVERAGE REQUIRED TIME T IN ADVANCE

(a)


BROADCAST SCHEDULE
12
WHEN TRAIN ENTERS TRACK CIRCUIT A
ADVERTISEMENT CURRENTLY BEING BROADCASTED
NEXT TRAIN GUIDANCE/ STOP S2- ADVERTISEMENT G1_L (LONG TIME)
NEXT TRAIN GUIDANCE/ STOP S1- ADVERTISEMENT G2_M (MEDIUM TIME)
NEXT TRAIN GUIDANCE/ ADVERTISEMENT C1_S (SHORT TIME)
NEXT TRAIN GUIDANCE/ STOP S2- ADVERTISEMENT G2_L (LONG TIME)
NEXT TRAIN GUIDANCE/ STOP S3- ADVERTISEMENT F1_S (SHORT TIME)
WHEN TRAIN ENTERS TRACK CIRCUIT B
APPROACH GUIDANCE
8
ADVERTISE-MENT DATABASE
AVERAGE REQUIRED TIME T FOR PASSING TRACK CIRCUIT A
Tm
12a

(b)