

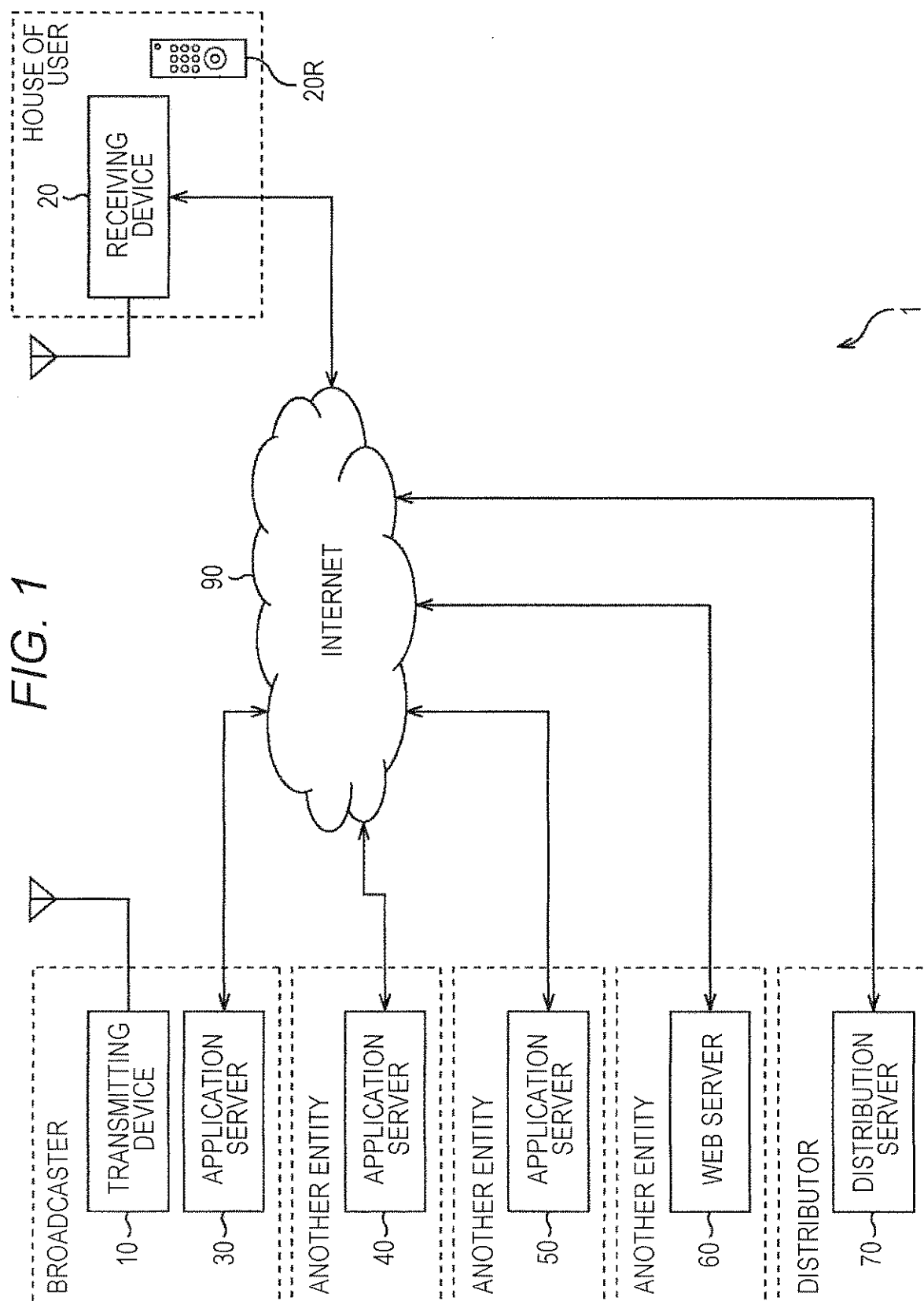


FIG. 2

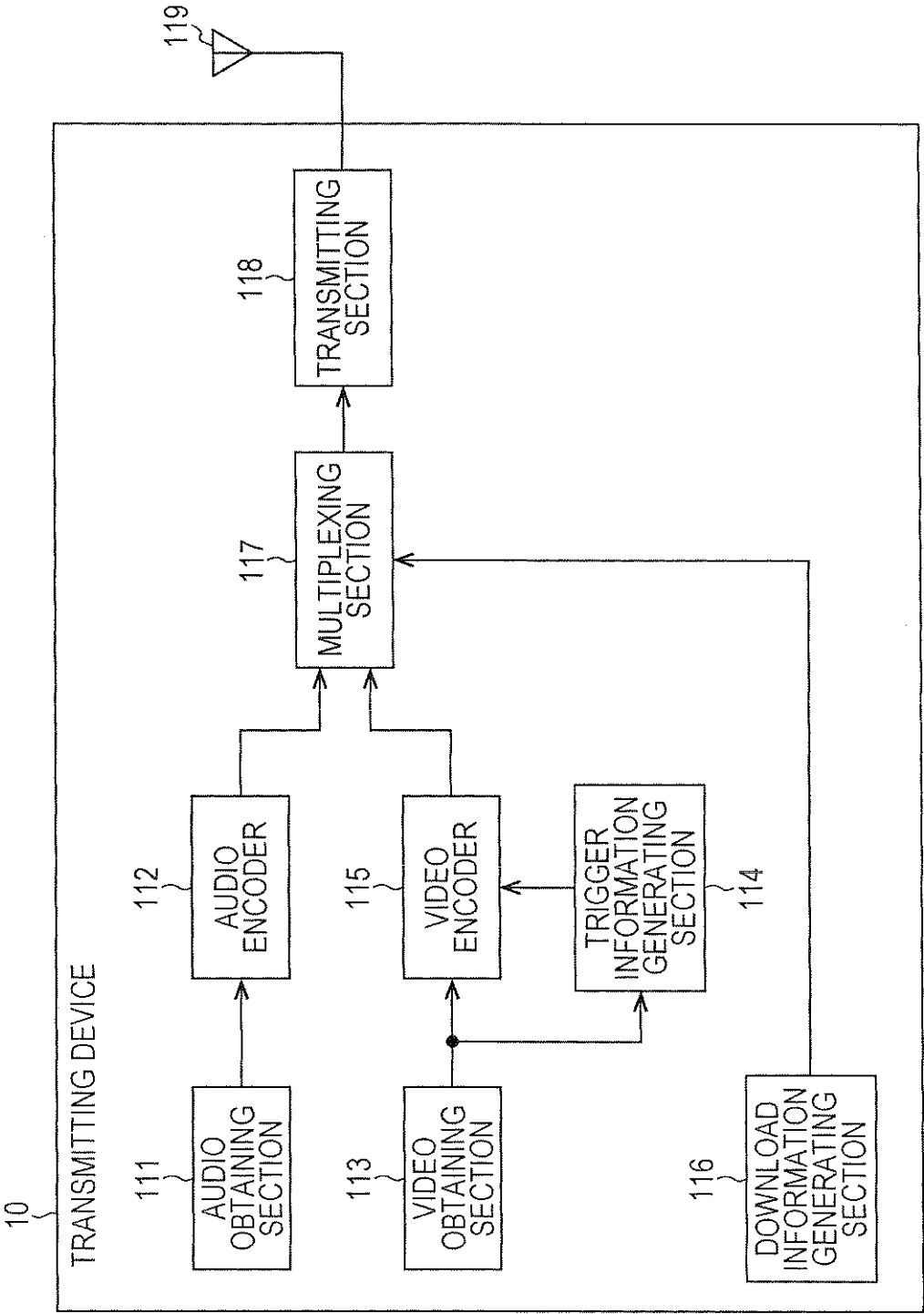


FIG. 3

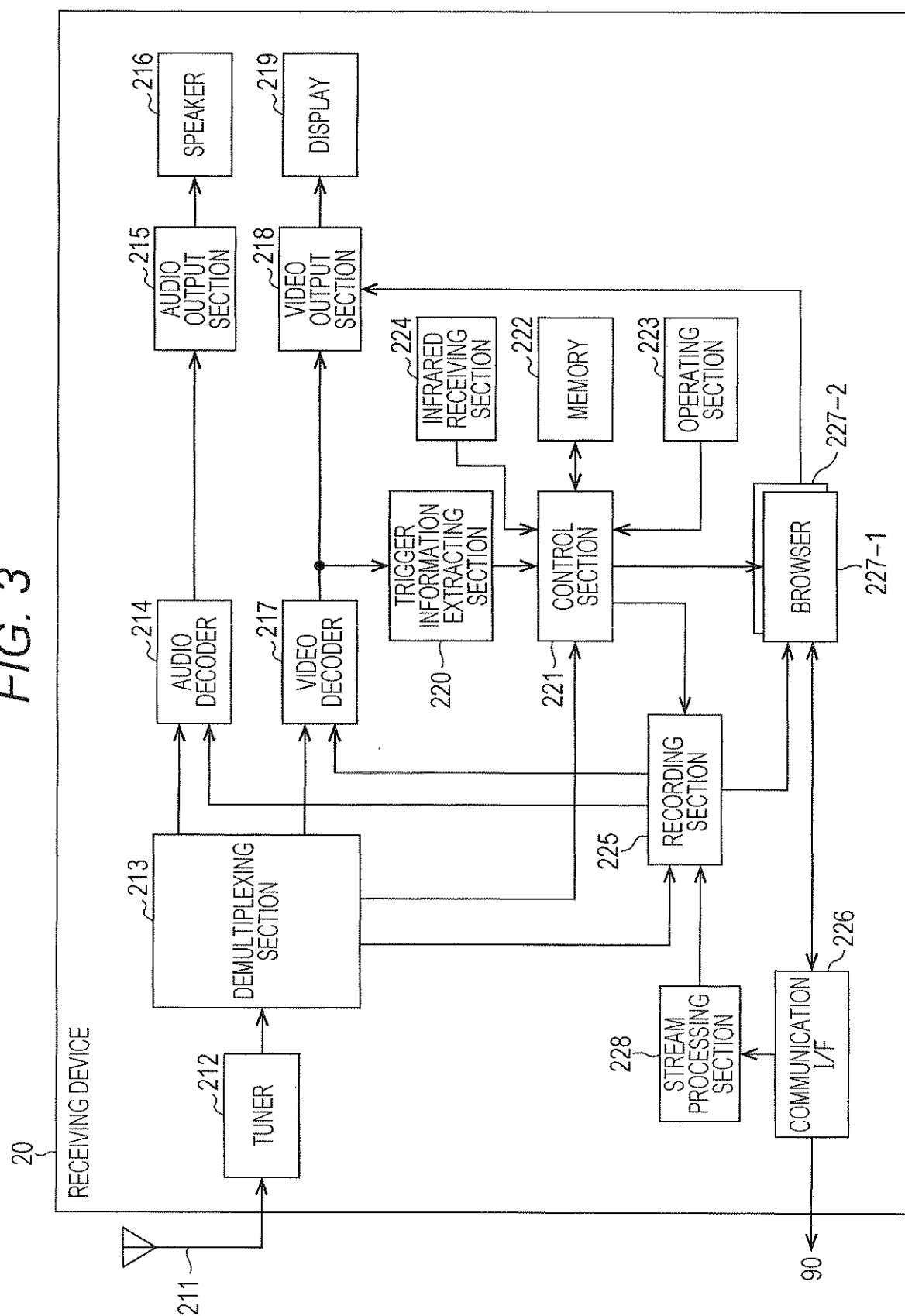
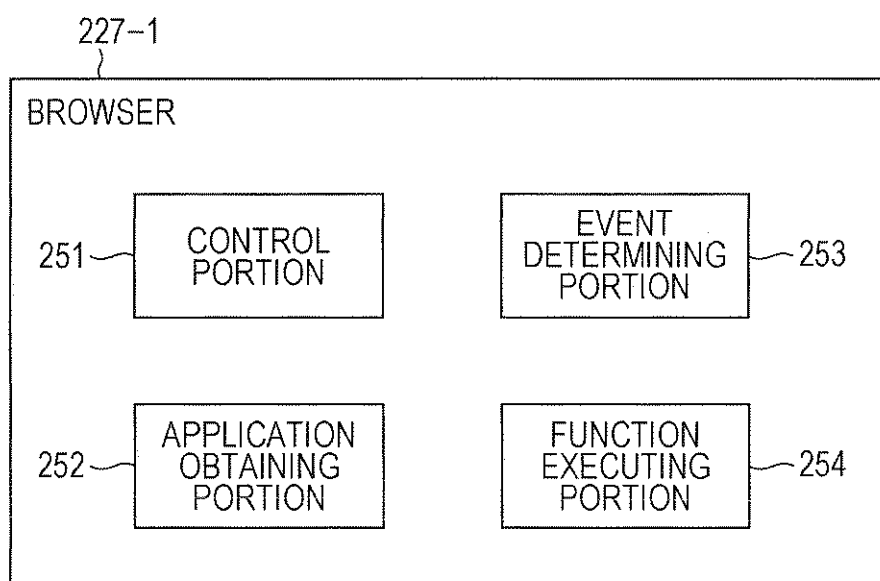
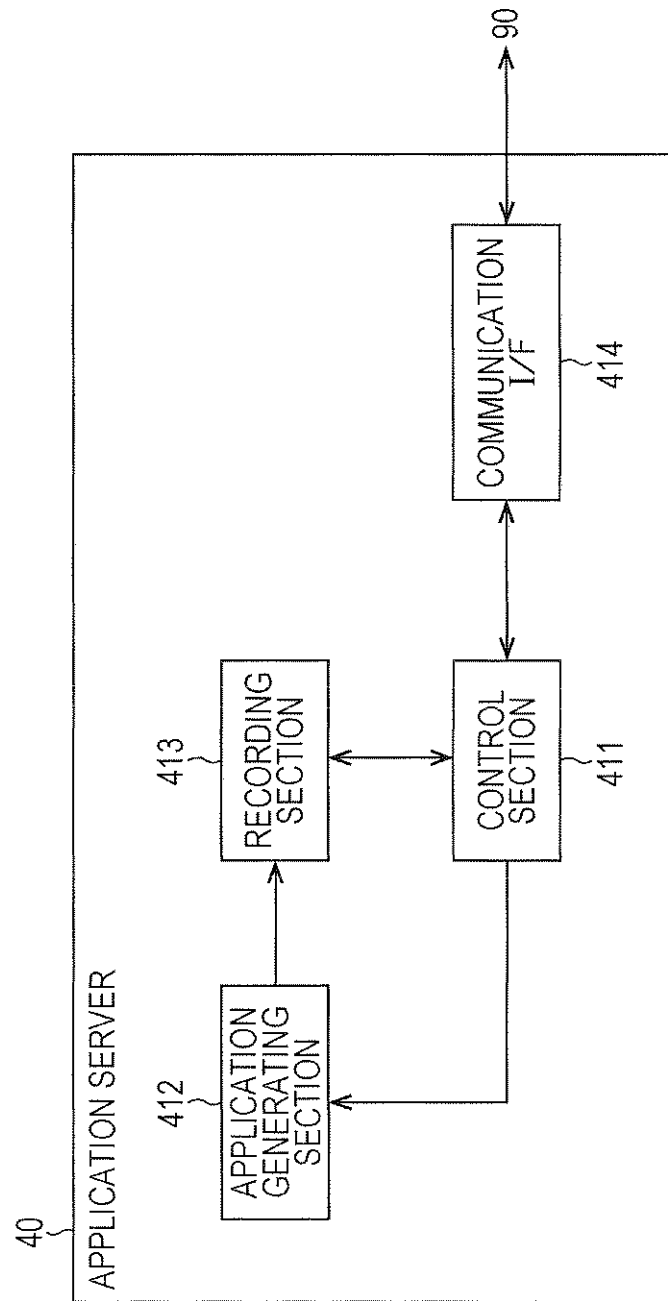


FIG. 4

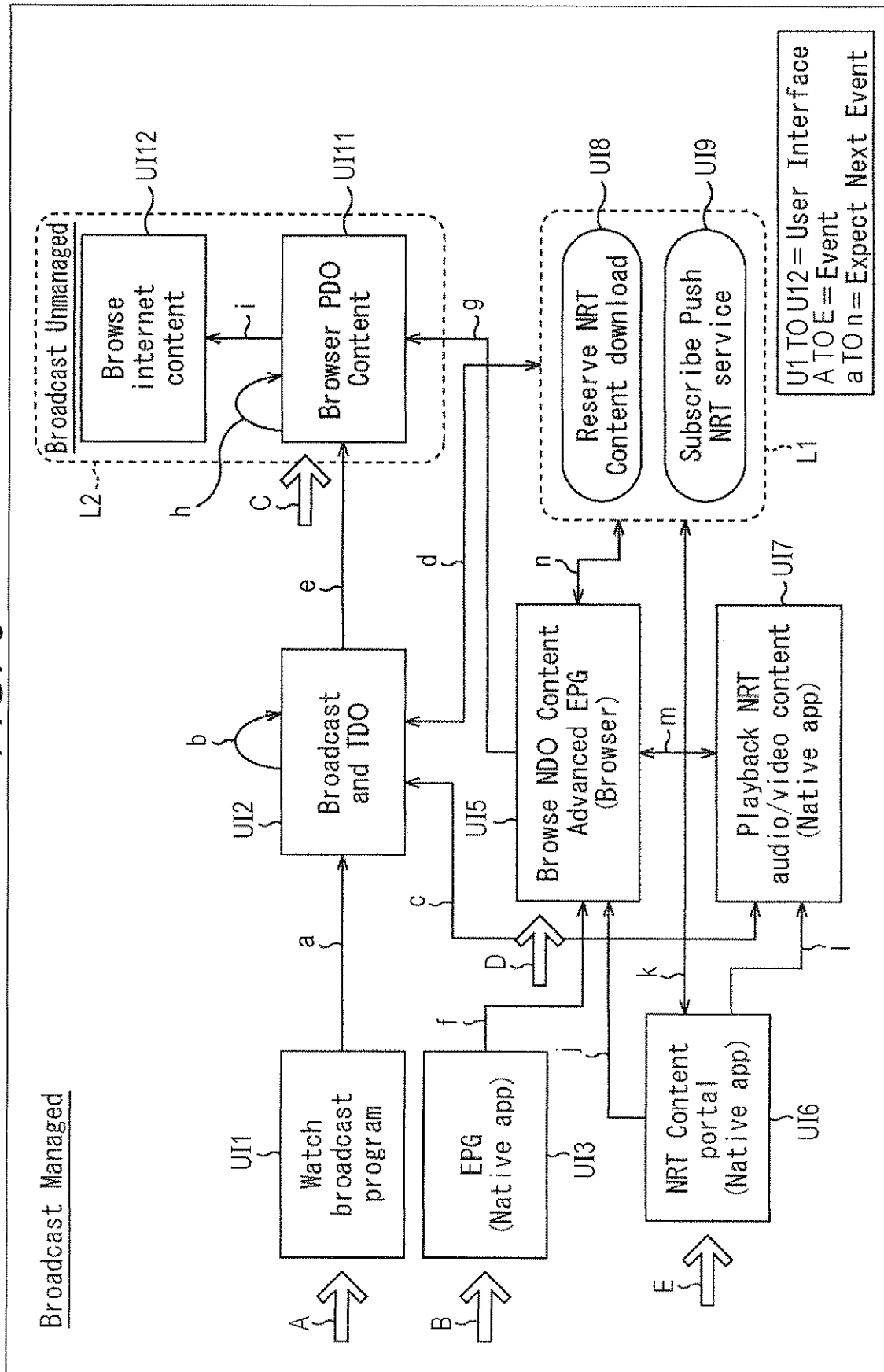
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FIG. 5



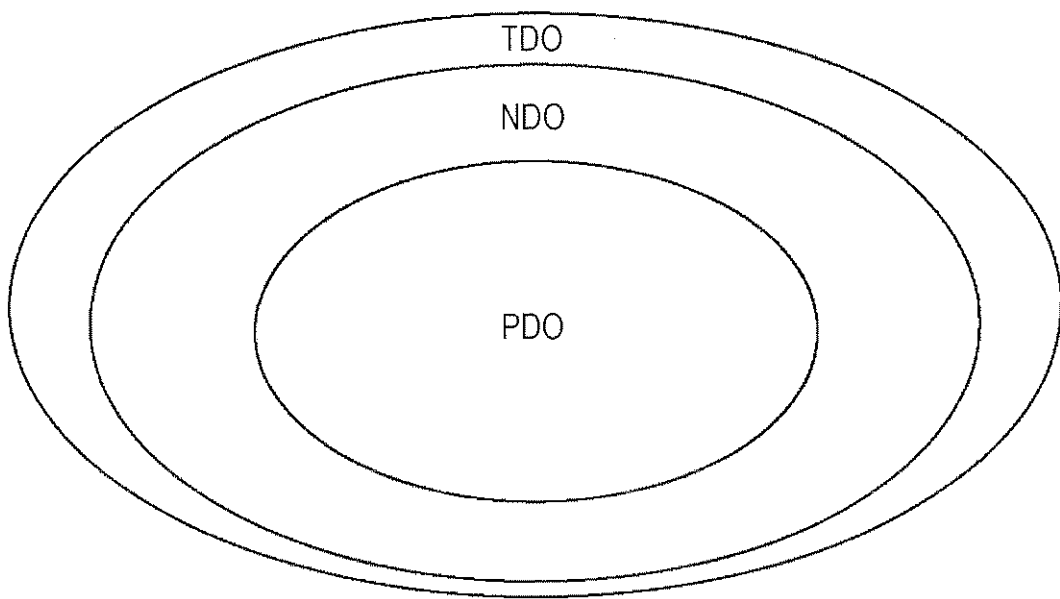
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FIG. 6



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FIG. 7



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FIG. 8

Event ID	Description
A	User tunes a receiver to broadcast program of a liner TV channel.
B	User selects the EPG button of remote controller and then displayed EPG by native application.
C	User tunes a receiver to broadcast program of a NRT channel with service category "portal".
D	User tunes a receiver to broadcast program of a NRT channel with service category "scripted".
E	User selects the NRT button of remote controller and then user interface displays NRT content portal by native application.

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FIG. 9

UI	Title	Expected next event
1	Watch broadcast program	a. Launch the TDO by receiving trigger while watching broadcast program.
2	Broadcast and TDO	b. TDO is updated when receiver receives new TDO and its trigger. c. User selects the NRT content to begin playback. e. User interface transit to "Browser PDO content" automatically.
3	EPG	f. User clicks a title where user wants to see the detail information, and then advanced EPG is displayed.
4	Advanced EPG	Deleted
5	Browse NDO content Advanced EPG	g. User selects PDO content. m. User selects to begin playback NRT audio/video content. n. User selects to reserve NRT content download or subscription of Push NRT service.
6	NRT content portal	j. User selects NDO content when watching NRT Content portal. k. User selects to reserve NRT content download or Push NRT service subscription. l. User selects to begin playback NRT audio/video content.
7	Playback NRT audio /video content	c. Native application transits to broadcast program and TDO when user selects to stop playback of the NRT content. l. User selects to stop playback. m. User selects to stop playback.
8	Reserve NRT content download	d, k, n This state indicates internal function to download the NRT content in background when user selects to reserve it.
9	Subscribe push NRT service	d, k, n This state indicates internal function to subscribe the Push NRT service in background when user selects to reserve it.
10	Playback NRT content and TDO	Deleted
11	Browse PDO Content	h. User selects to watch other PDO content. i. User selects to watch general internet content.
12	Browse internet content	out of scope

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*FIG. 10*reserveNRTContentDownload

DESCRIPTION : FUNCTION FOR RESERVING DOWNLOAD OF NRT CONTENTS.

ARGUMENT : Content linkage

RETURN VALUE : true, false, COMPLETION OF TENTATIVE RESERVATION

*FIG. 11*cancelNRTContentDownloadReservation

DESCRIPTION : FUNCTION FOR CANCELING RESERVATION FOR DOWNLOAD
OF NRT CONTENTS.

ARGUMENT : Content linkage

RETURN VALUE : true, false

*FIG. 12*getNRTContentDownloadStatus

DESCRIPTION : FUNCTION FOR OBTAINING STATE OF DOWNLOAD
OF NRT CONTENTS WHOSE DOWNLOAD IS RESERVED.

ARGUMENT : Content linkage

RETURN VALUE : status (YET TO BE STARTED, BEING PERFORMED, COMPLETED)

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*FIG. 13*executeNRTContentDownload

DESCRIPTION : FUNCTION FOR IMMEDIATELY DOWNLOADING NRT CONTENTS.

ARGUMENT : Content linkage

RETURN VALUE : true, false

*FIG. 14*cancelNRTContentDownloadDESCRIPTION : FUNCTION FOR STOPPING OR ENDING DOWNLOAD
OF NRT CONTENTS OF WHICH DOWNLOAD IS BEING PERFORMED.

ARGUMENT : Content linkage

RETURN VALUE : true, false

*FIG. 15*deleteNRTContentDESCRIPTION : FUNCTION FOR DELETING DOWNLOADED NRT CONTENTS
AND INFORMATION RELATED TO DOWNLOADED NRT CONTENTS.

ARGUMENT : Content linkage

RETURN VALUE : true, false

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*FIG. 16*getNRTContentInformation

DESCRIPTION : FUNCTION FOR OBTAINING DETAILED INFORMATION
ON DOWNLOADED NRT CONTENTS.

ARGUMENT : Content linkage

RETURN VALUE : Content info

*FIG. 17*getCurrentNRTIT

DESCRIPTION : FUNCTION FOR OBTAINING LATEST NRT-IT CURRENTLY
TRANSMITTED BY BROADCAST WAVES.

RETURN VALUE : true, false

*FIG. 18*getStorageInfo

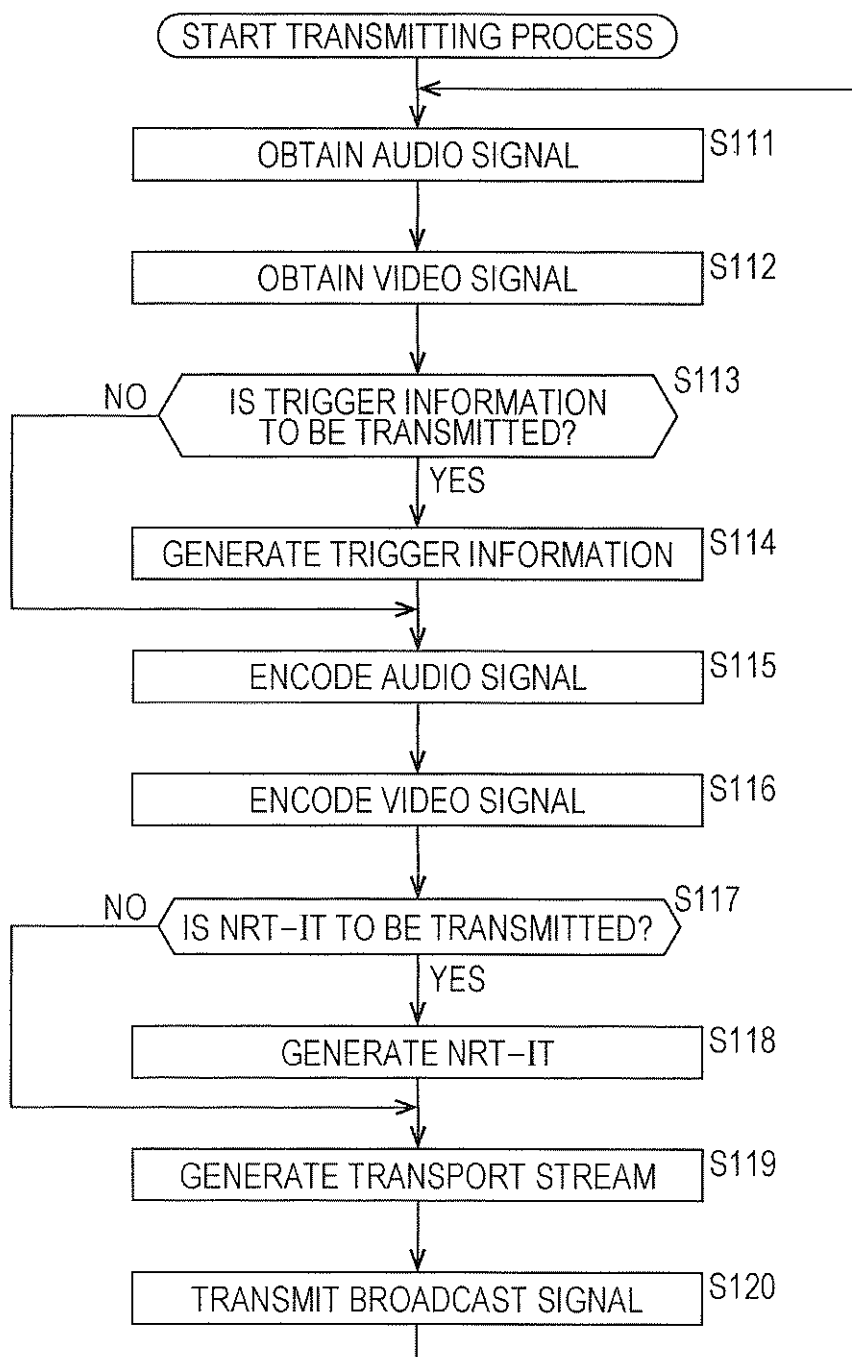
DESCRIPTION : FUNCTION FOR OBTAINING TOTAL SPACE AND AVAILABLE
SPACE OF RECORDING SECTION.

RETURN VALUE : storage info

FIG. 19

```
<html>
<head>
<title>page title</title>
<meta http-equiv="Content-Script-Type" content="text/javascript">
</head>
<body>
<SCRIPT LANGUAGE="JavaScript">
<!--
var storage = { "total_size" : "0", "used_size" : "0" };
result = storage.getStorageInfo(); //OBTAIN RECORDING SPACE INFORMATION
document.write( storage );        //DISPLAY RECORDING SPACE INFORMATION
//-->
</SCRIPT>
</body>
</html>
```

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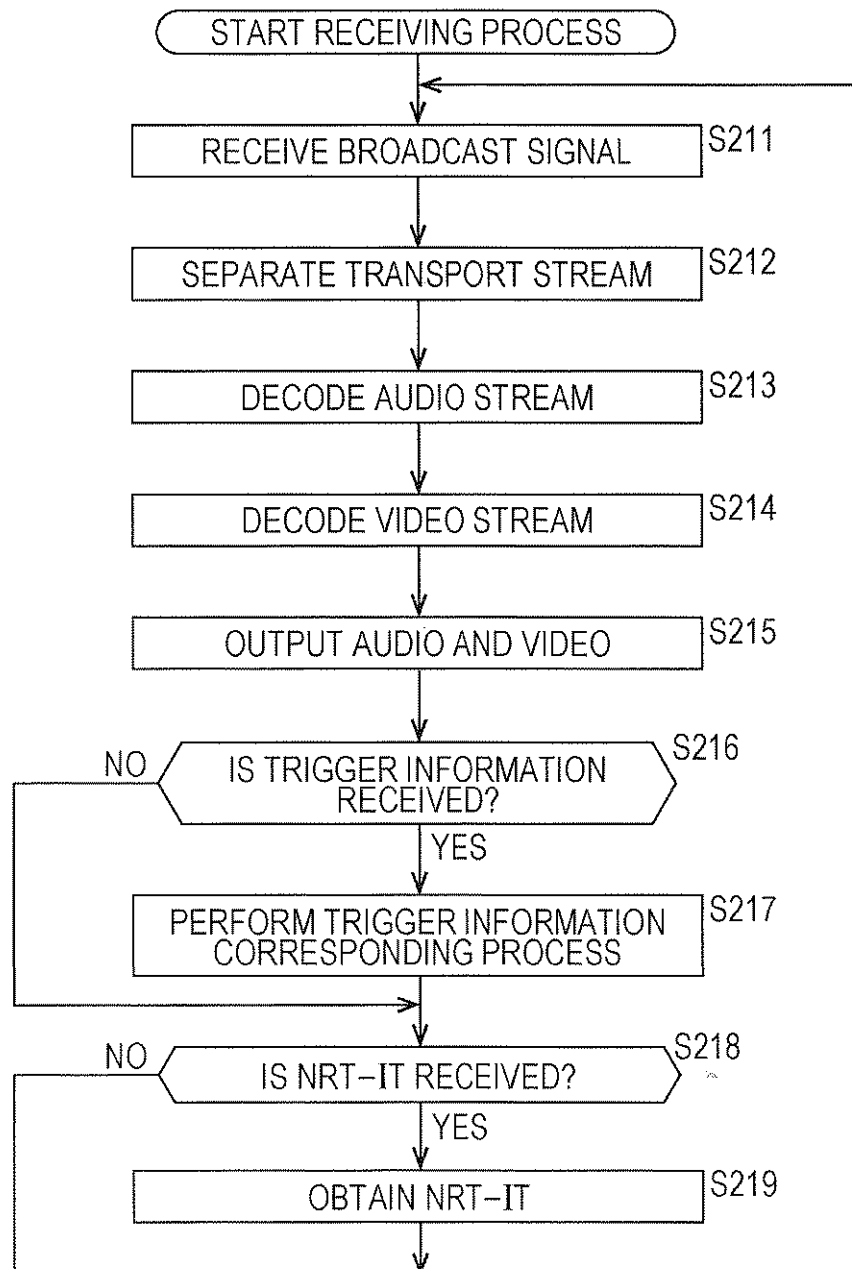
FIG. 20

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FIG. 21

NRT-IT	
Service ID: 0x0001	
[Time Slot]	
List of Content Items	
Content #1	
Content name	
Content linkage: id1	
Distribution start/end	
Content length	
Media Type	
Icon Content linkage: id2	
ISO-639 language	
AVC video info	
Caption service	
Content advisory	
Genre	
Internet Location	
Content #2	
...	

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FIG. 22

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FIG. 23

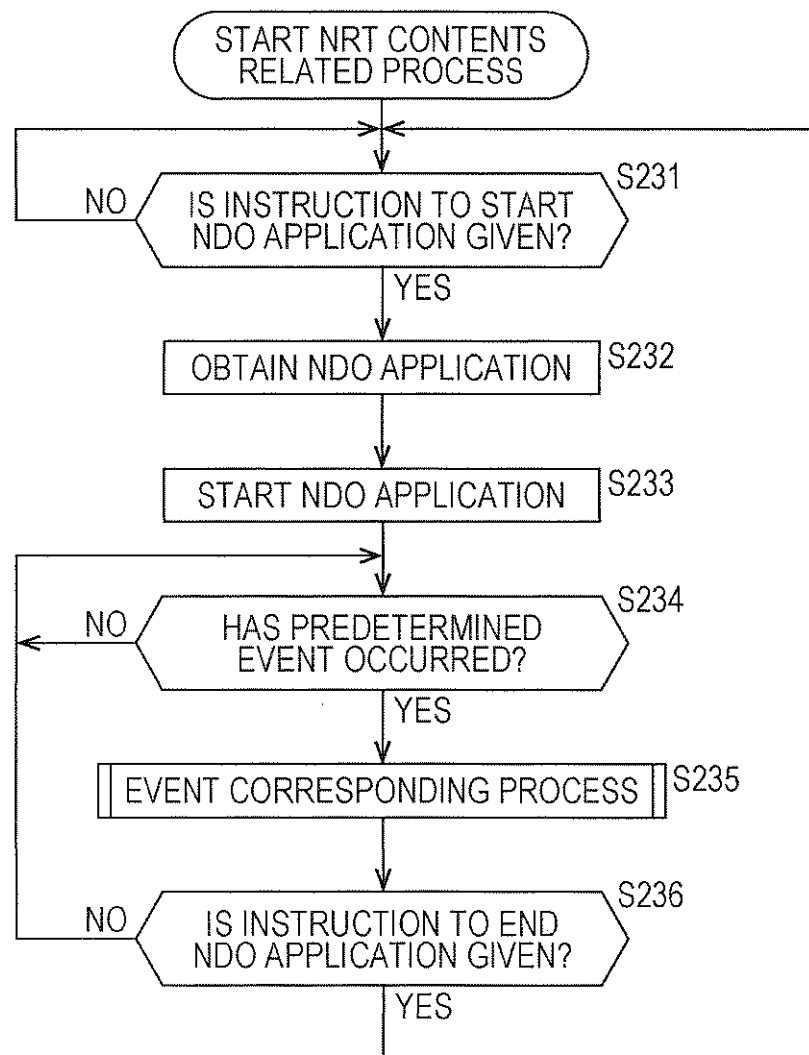
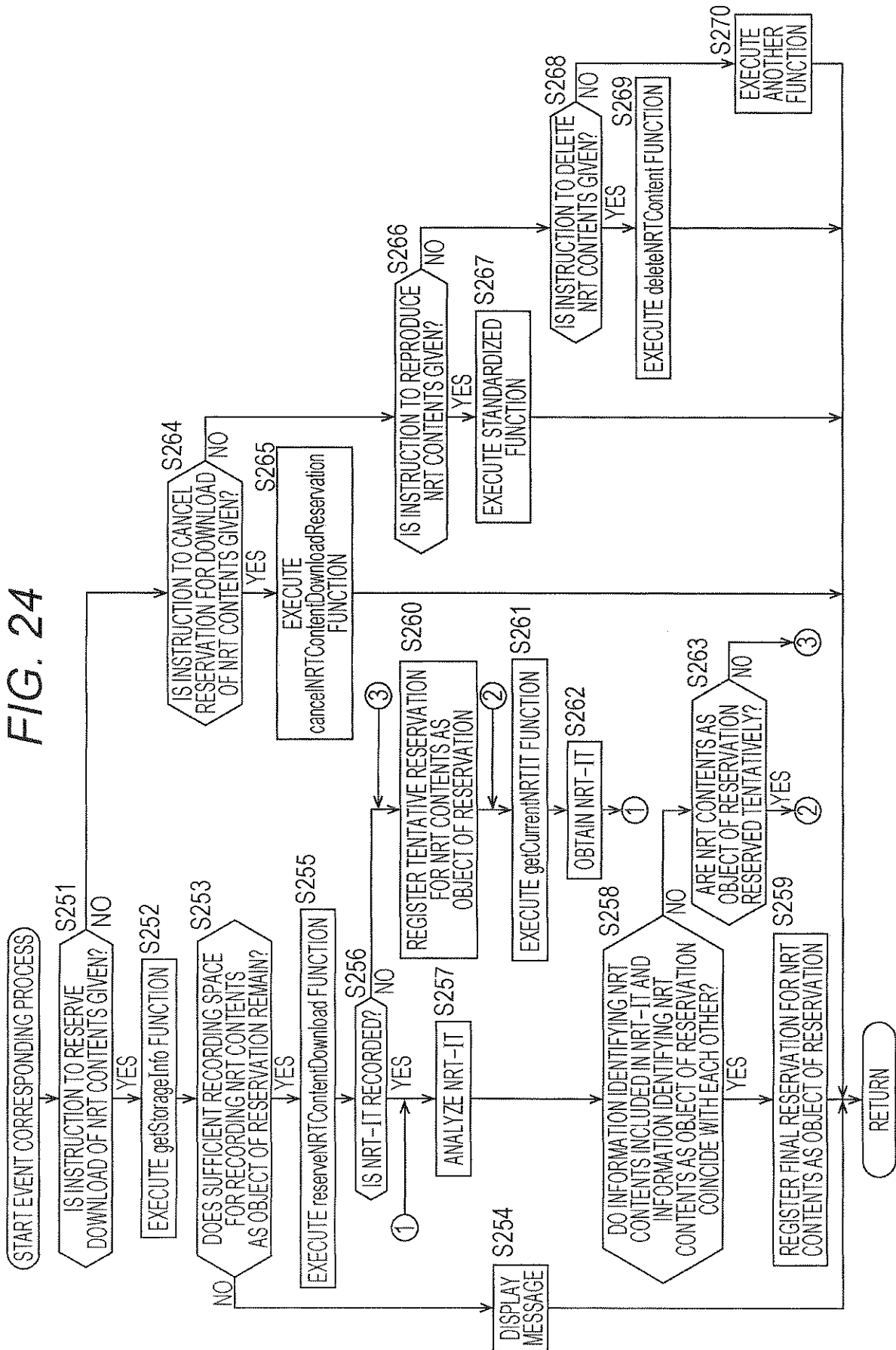
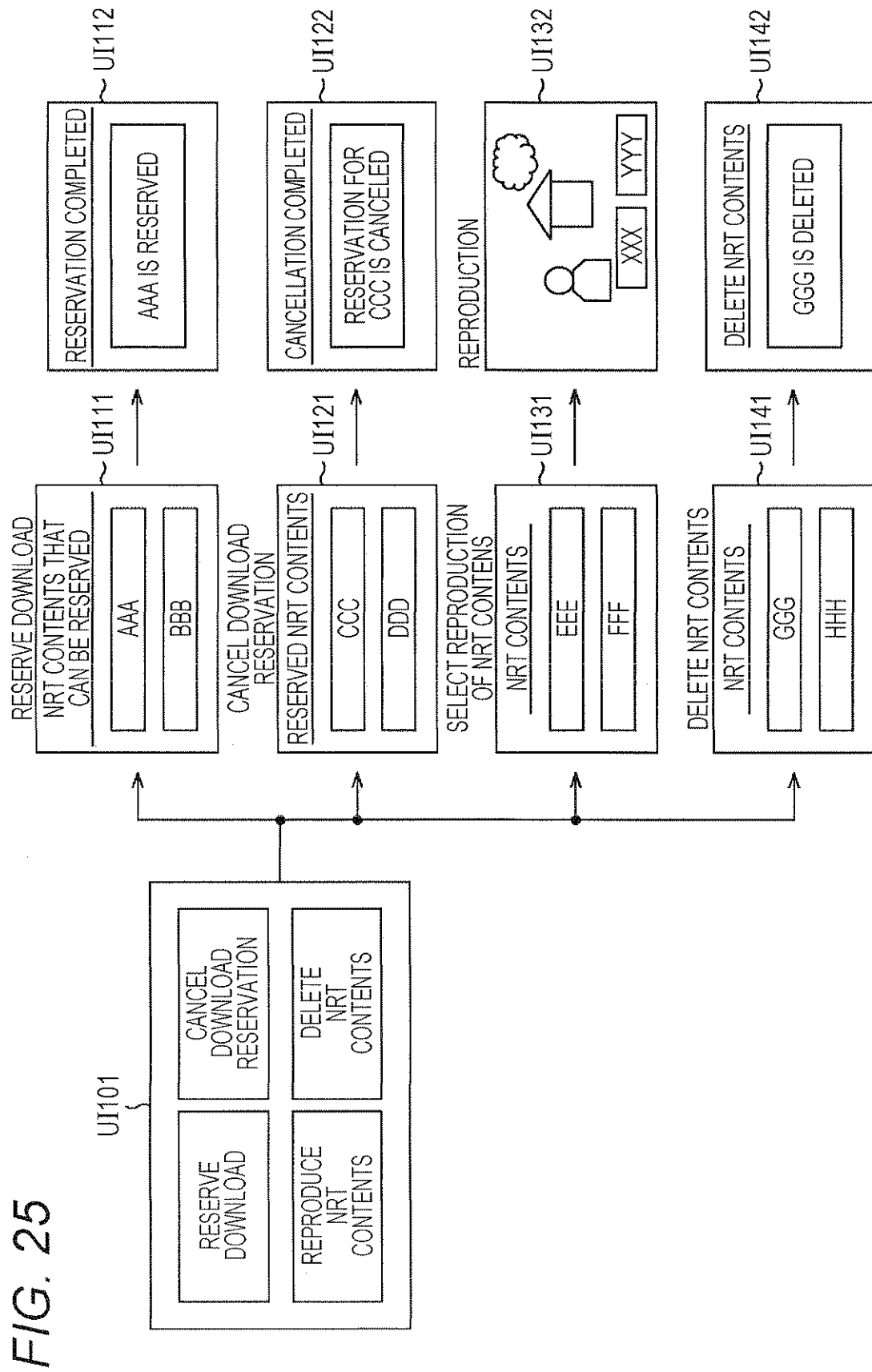


FIG. 24

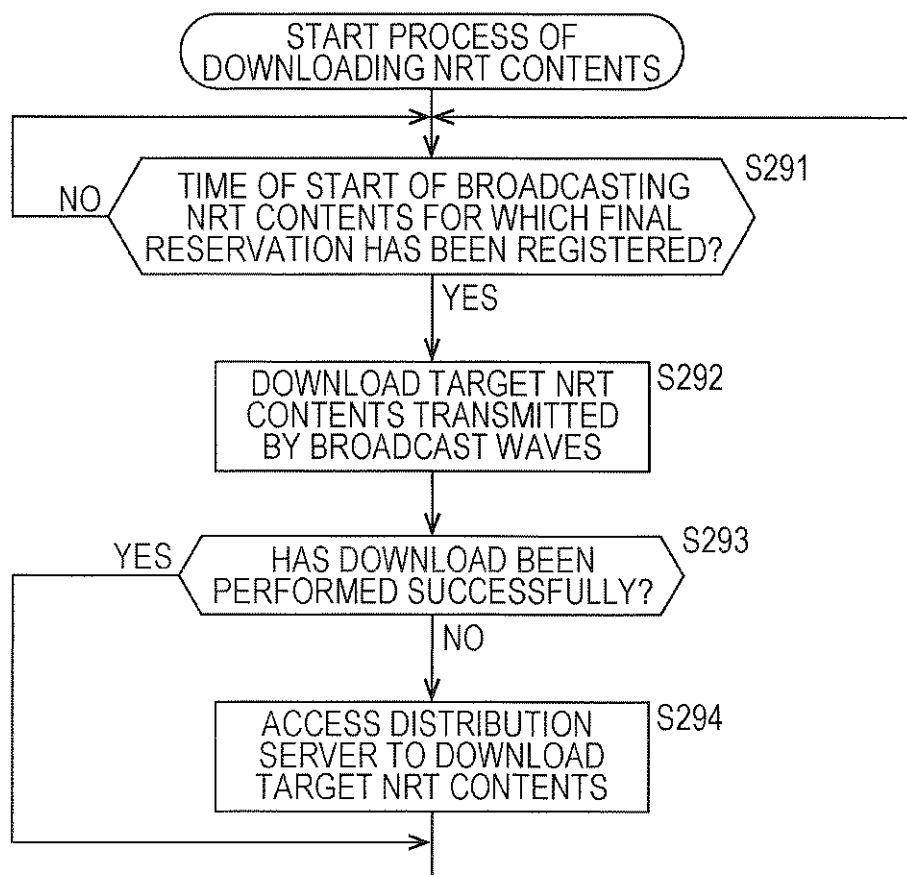


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FIG. 26



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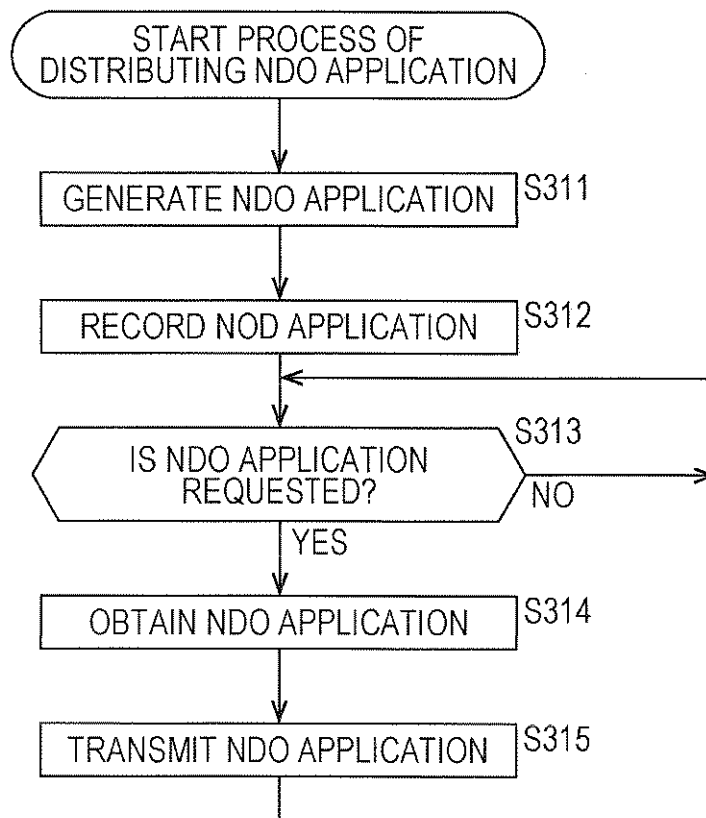
FIG. 27

FIG. 28

