FIG. 1A

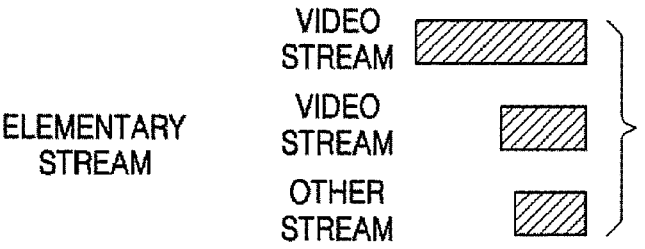


FIG. 1B

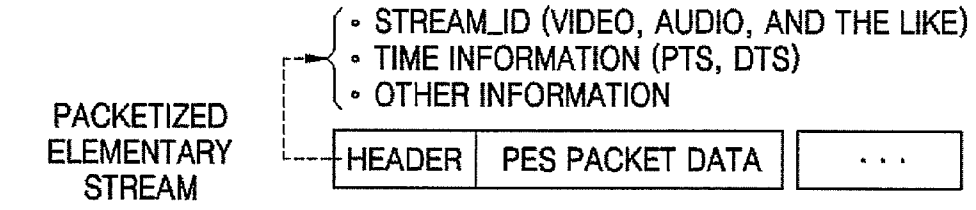


FIG. 1C

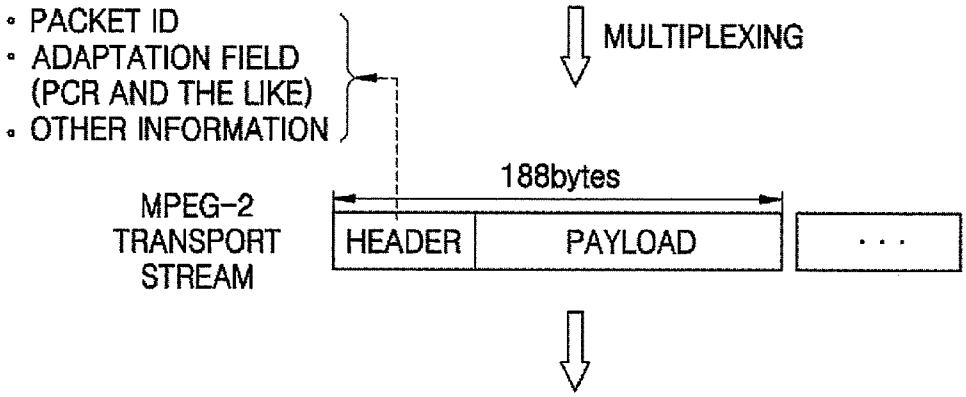


FIG. 1D

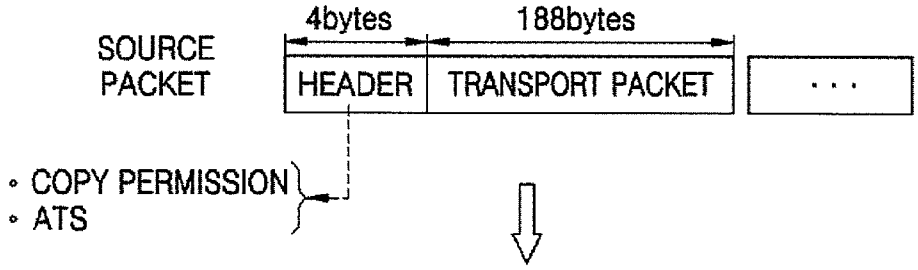


FIG. 1E

FIG. 2

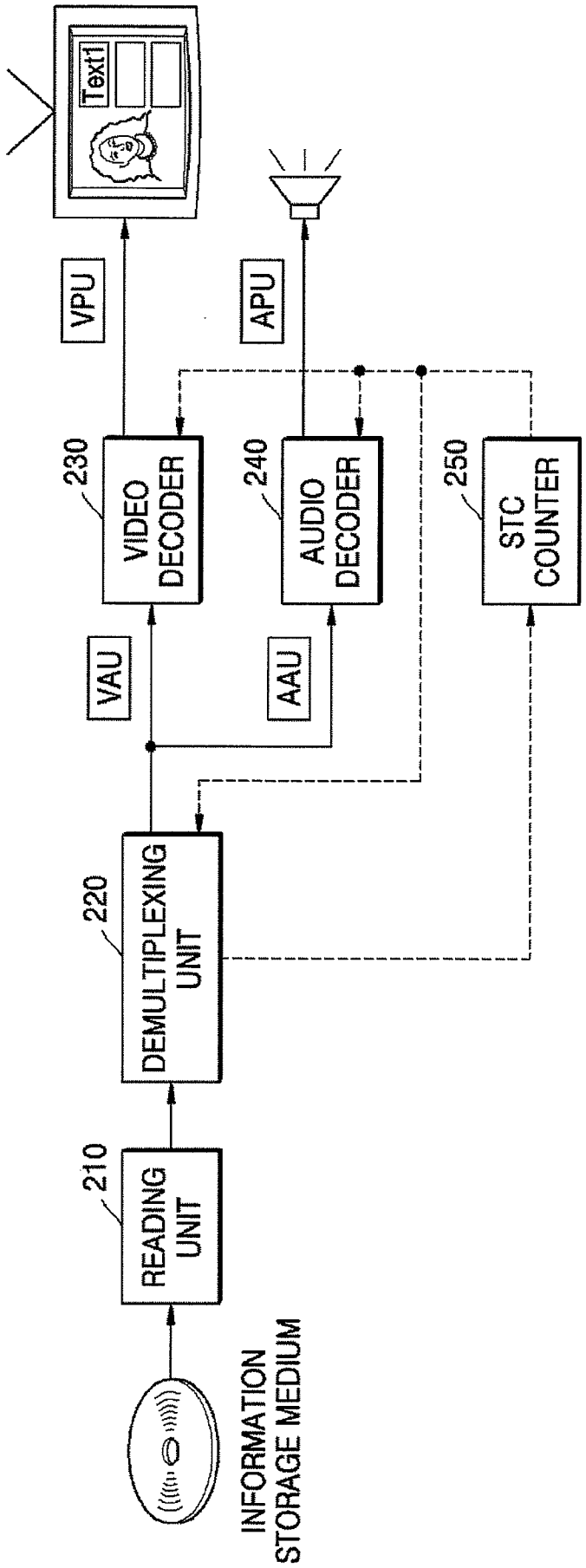

INFORMATION STORAGE MEDIUM
210
READING UNIT
220
DEMULTIPLEXING UNIT
VAU
AAU
230
VIDEO DECODER
240
AUDIO DECODER
250
STC COUNTER
VPU
APU
Text1

FIG. 3A

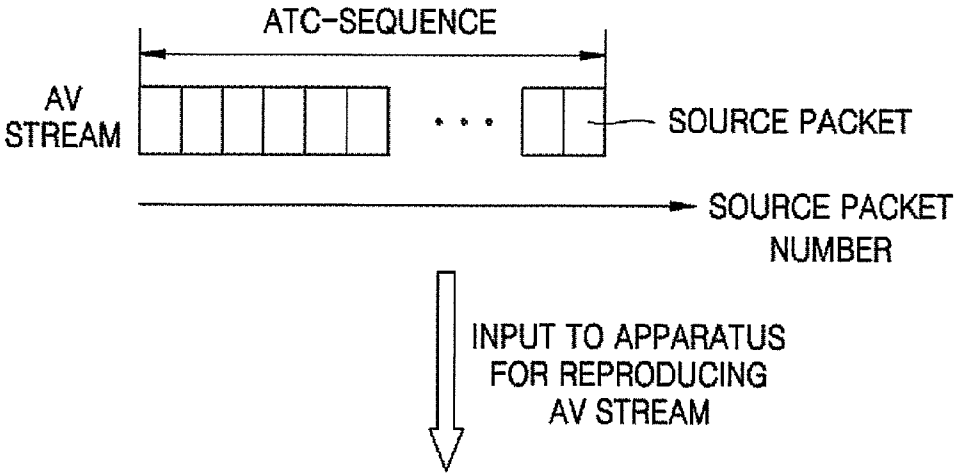
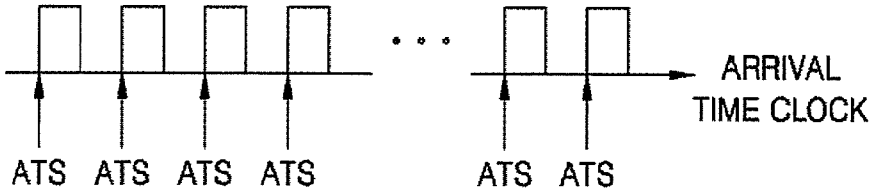

ATC-SEQUENCE
AV STREAM
SOURCE PACKET
SOURCE PACKET NUMBER
INPUT TO APPARATUS FOR REPRODUCING AV STREAM

FIG. 3B


ATS
ATS
ATS
ATS
ATS
ATS
ARRIVAL TIME CLOCK

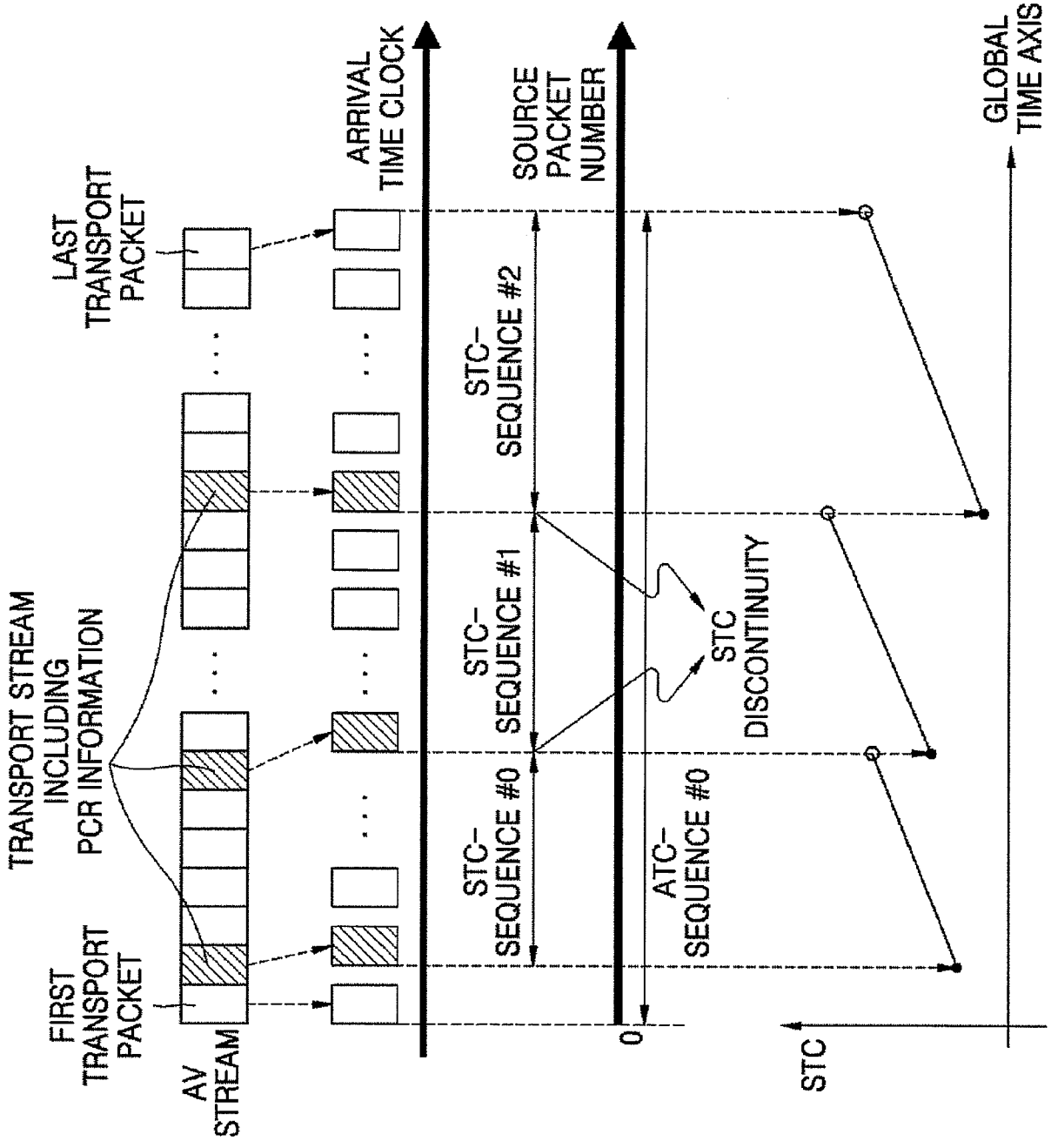


FIG. 4A

FIG. 4B

FIG. 4C

FIG. 5

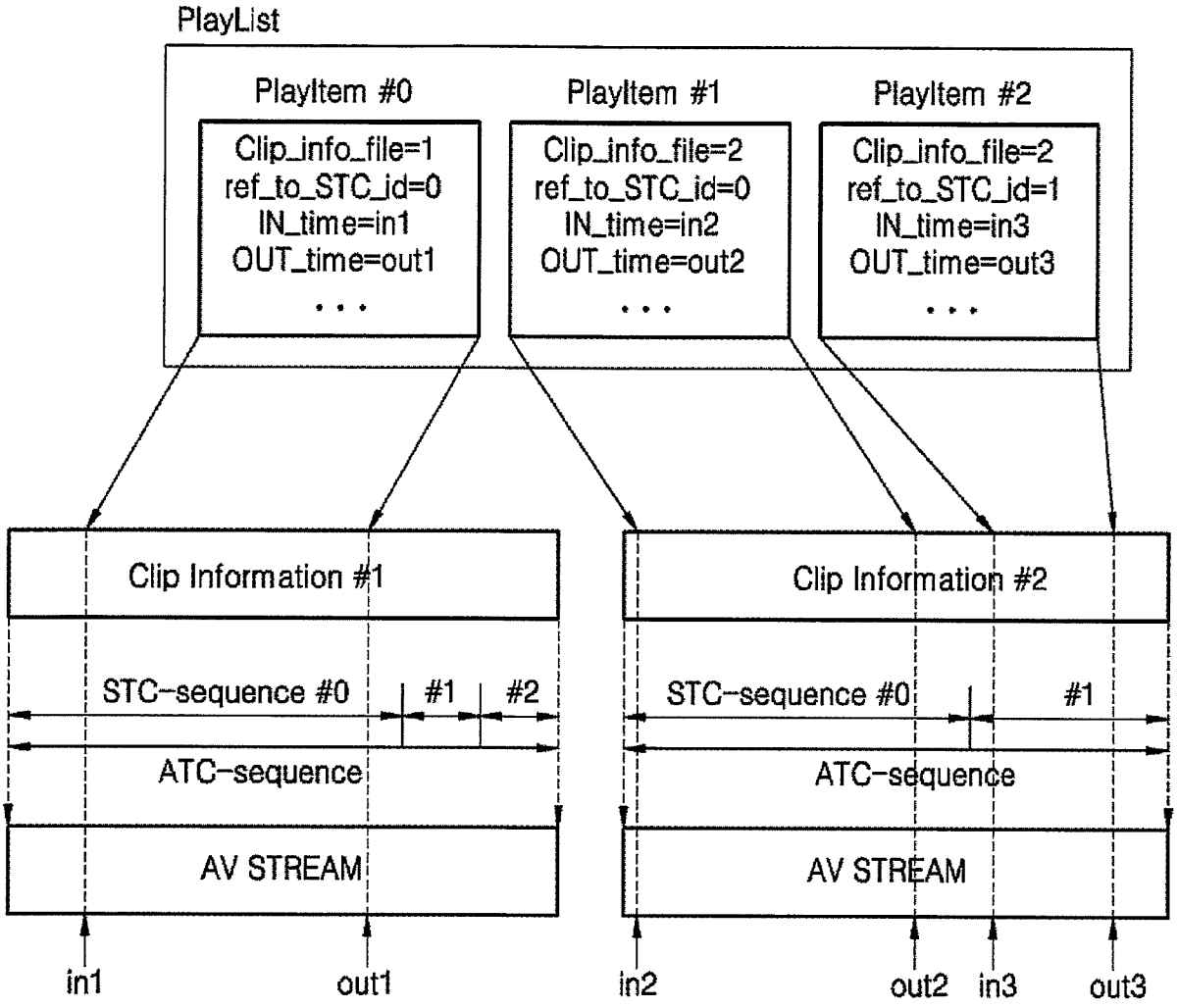

PlayList
PlayItem #0
Clip_info_file=1
ref_to_STC_id=0
IN_time=in1
OUT_time=out1
PlayItem #1
Clip_info_file=2
ref_to_STC_id=0
IN_time=in2
OUT_time=out2
PlayItem #2
Clip_info_file=2
ref_to_STC_id=1
IN_time=in3
OUT_time=out3
Clip Information #1
Clip Information #2
STC-sequence #0
#1
#2
STC-sequence #0
#1
ATC-sequence
ATC-sequence
AV STREAM
AV STREAM
in1
out1
in2
out2
in3
out3

FIG. 6A

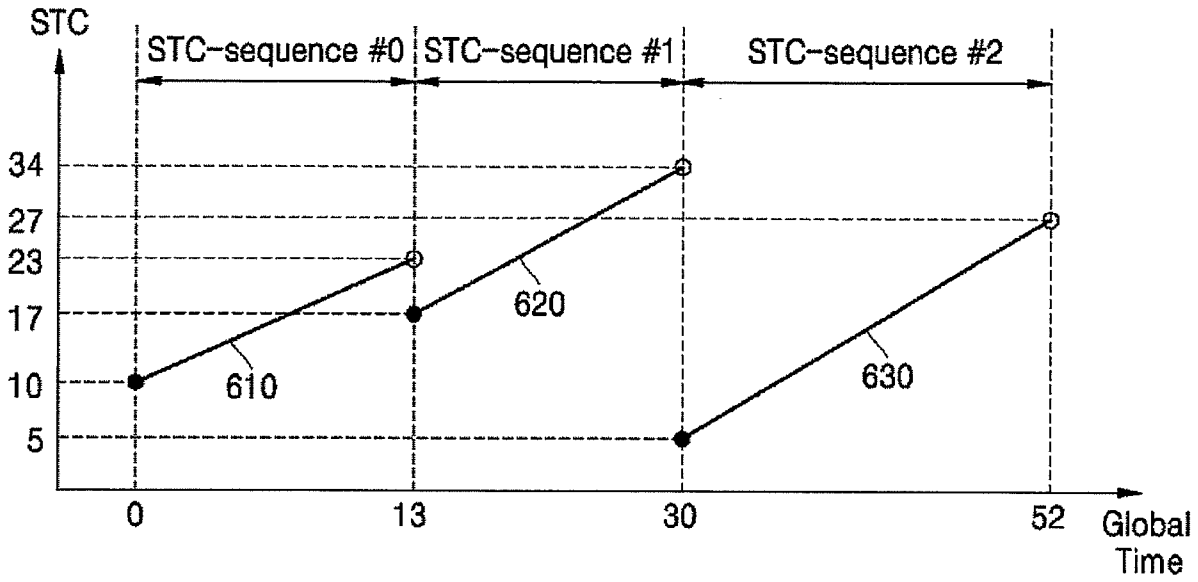

STC
STC-sequence #0
STC-sequence #1
STC-sequence #2
34
27
23
17
10
5
610
620
630
0
13
30
52
Global Time

FIG. 6B

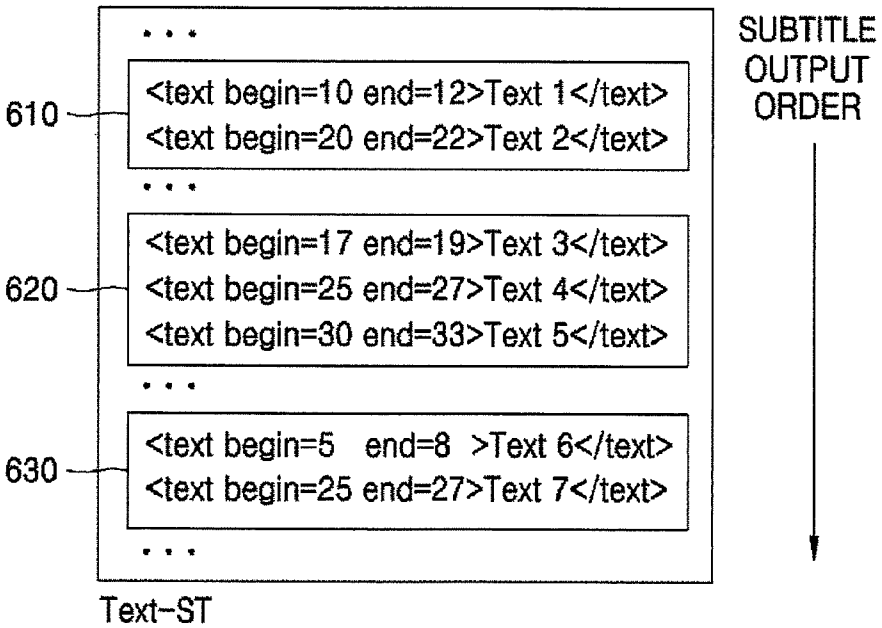

610
620
630
<text begin=10 end=12>Text 1</text>
<text begin=20 end=22>Text 2</text>
<text begin=17 end=19>Text 3</text>
<text begin=25 end=27>Text 4</text>
<text begin=30 end=33>Text 5</text>
<text begin=5 end=8 >Text 6</text>
<text begin=25 end=27>Text 7</text>
SUBTITLE OUTPUT ORDER
Text-ST

FIG. 7A

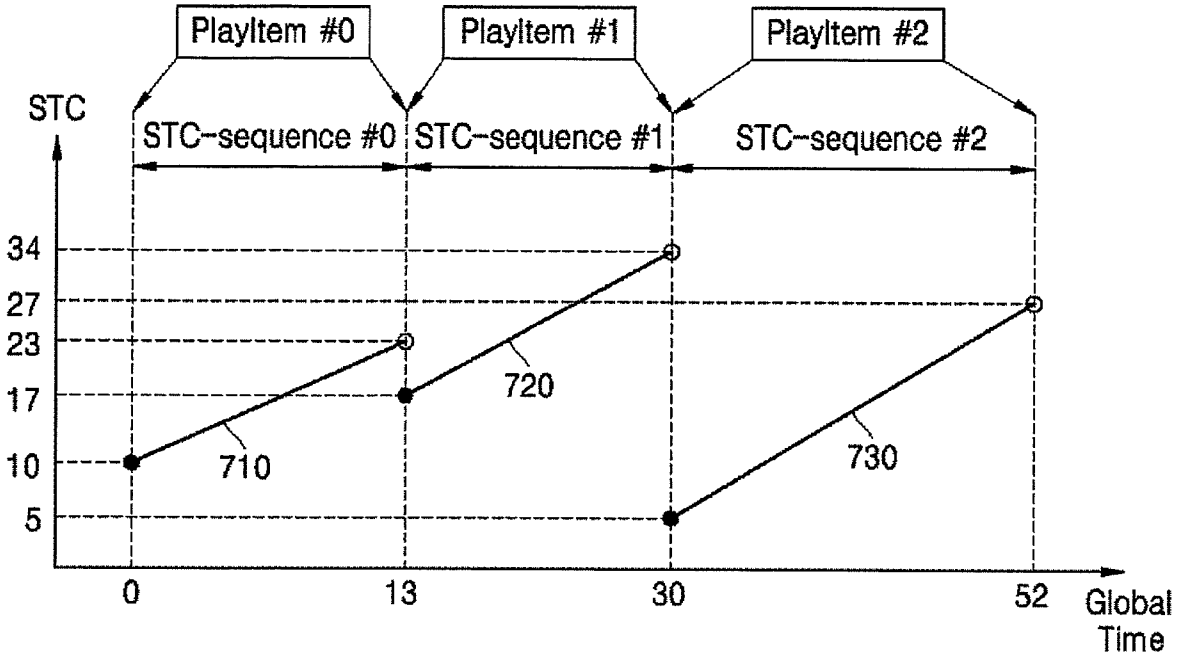

PlayItem #0
PlayItem #1
PlayItem #2
STC
STC-sequence #0
STC-sequence #1
STC-sequence #2
34
27
23
17
10
5
710
720
730
0
13
30
52
Global Time

FIG. 7B

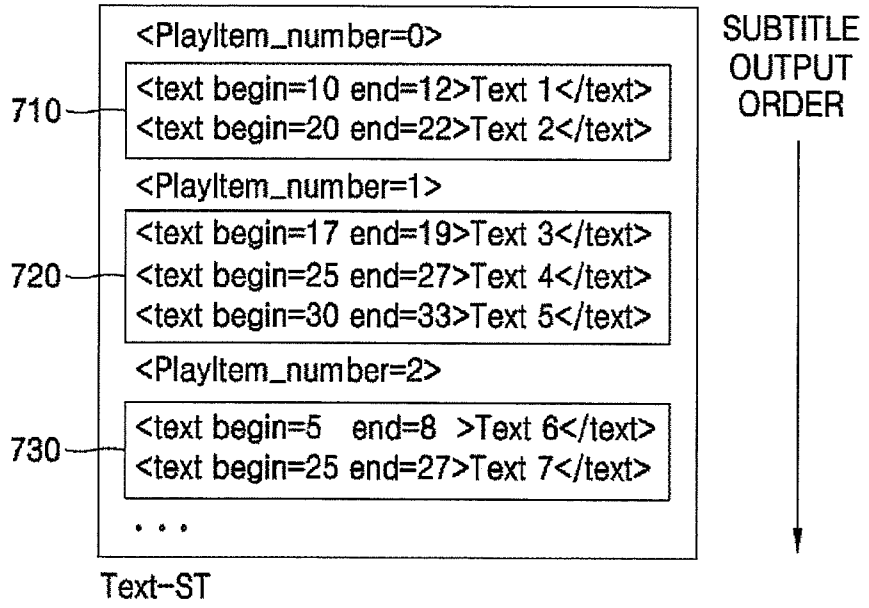

<PlayItem_number=0>
<text begin=10 end=12>Text 1</text>
<text begin=20 end=22>Text 2</text>
<PlayItem_number=1>
<text begin=17 end=19>Text 3</text>
<text begin=25 end=27>Text 4</text>
<text begin=30 end=33>Text 5</text>
<PlayItem_number=2>
<text begin=5 end=8 >Text 6</text>
<text begin=25 end=27>Text 7</text>
710
720
730
SUBTITLE OUTPUT ORDER
Text-ST

FIG. 8A

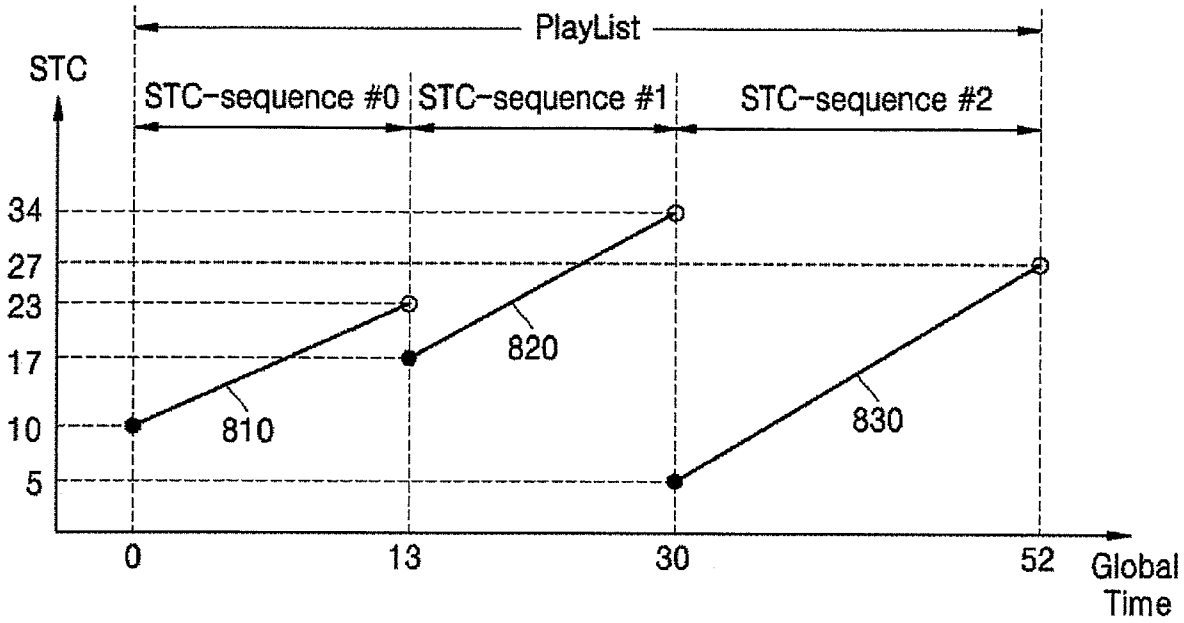

PlayList
STC
STC-sequence #0
STC-sequence #1
STC-sequence #2
34
27
23
17
10
5
810
820
830
0
13
30
52
Global Time

FIG. 8B

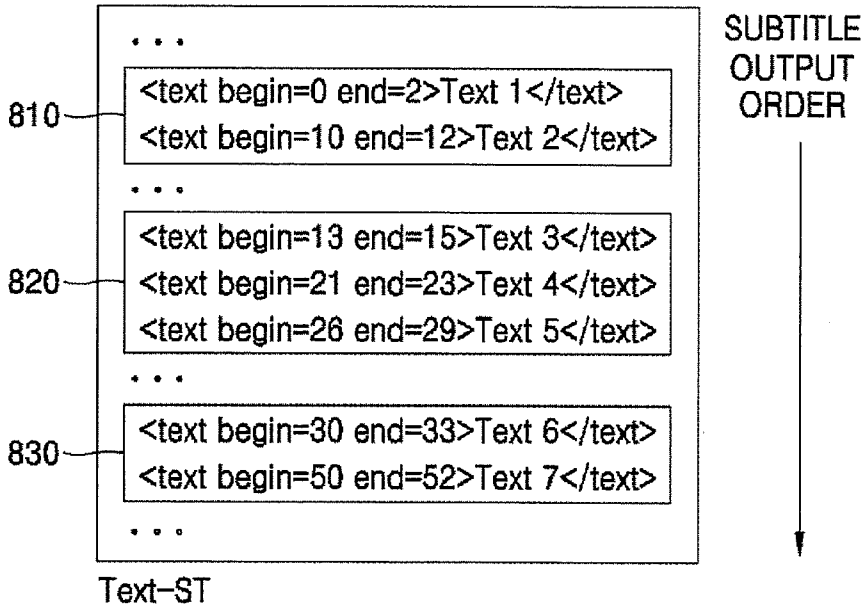

SUBTITLE OUTPUT ORDER
810
820
830
<text begin=0 end=2>Text 1</text>
<text begin=10 end=12>Text 2</text>
<text begin=13 end=15>Text 3</text>
<text begin=21 end=23>Text 4</text>
<text begin=26 end=29>Text 5</text>
<text begin=30 end=33>Text 6</text>
<text begin=50 end=52>Text 7</text>
Text-ST

FIG. 9

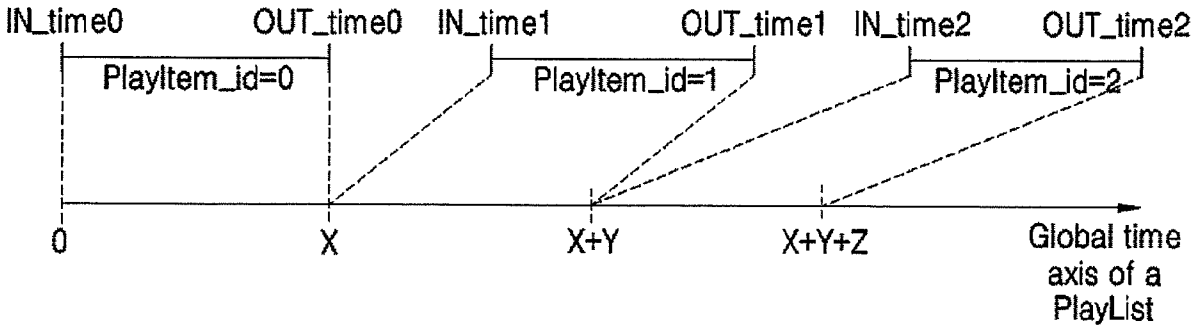
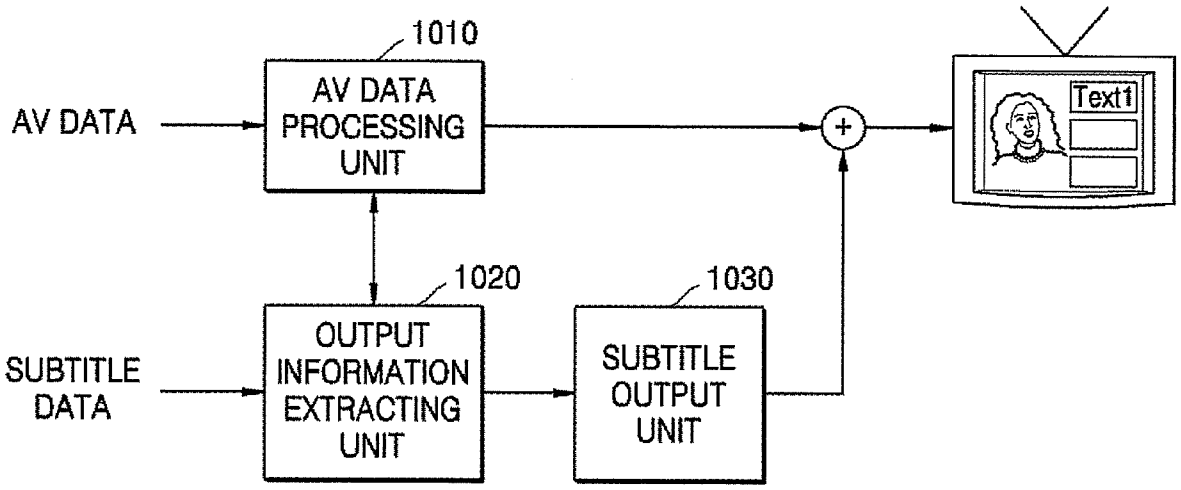

IN_time0
OUT_time0
IN_time1
OUT_time1
IN_time2
OUT_time2
PlayItem_id=0
PlayItem_id=1
PlayItem_id=2
0
X
X+Y
X+Y+Z
Global time axis of a PlayList

FIG. 10


1010
AV DATA
AV DATA PROCESSING UNIT
Text1
1020
1030
SUBTITLE DATA
OUTPUT INFORMATION EXTRACTING UNIT
SUBTITLE OUTPUT UNIT