

FIG. 1

```

VUI parameters syntax
vui_parameters() {
...
    nal_hrd_parameters_present_flag
    if( nal_hrd_parameters_present_flag )
        hrd_parameters()
    vcl_hrd_parameters_present_flag
    if( vcl_hrd_parameters_present_flag )
        hrd_parameters()
    if( nal_hrd_parameters_present_flag || vcl_hrd_parameters_present_flag )
        sub_pic_cpb_flag
        if( sub_pic_cpb_flag != 0 ) {
            variable_sub_pic_removal_period_flag
            if( variable_sub_pic_removal_period_flag == 0 ) {
                num_ctbs_in_subpicture_minus1
                removal_time_offset_length
                picture_interval
            }
        }
        low_delay_hrd_flag
        bitstream_restriction_flag
...
}

```

FIG. 2

Picture timing SEI message syntax

```
pic_timing( payloadSize ) {  
    if( CpbDpbDelaysPresentFlag ) {  
        if( sub_pic_cpb_flag && variable_sub_pic_removal_period_flag )  
            num_decoding_units_minus1  
        for( i = 0; i <= num_decoding_units_minus1; i++ )  
            cpb_removal_delay[ i ]  
        dpb_output_delay  
    }  
}
```

FIG. 3

```

VUI parameters syntax
vui_parameters() {
...
    nal_hrd_parameters_present_flag
    if( nal_hrd_parameters_present_flag )
        hrd_parameters()
    vcl_hrd_parameters_present_flag
    if( vcl_hrd_parameters_present_flag )
        hrd_parameters()
    if( nal_hrd_parameters_present_flag || vcl_hrd_parameters_present_flag )
        sub_pic_cpb_flag
        if( sub_pic_cpb_flag != 0 ) {
            num_ctbs_in_subpicture_minus1
            removal_time_offset_length
            picture_interval
        }
        low_delay_hrd_flag
        bitstream_restriction_flag
...
}

```

They define the interval of
cpb_removal_delay in decoding
units in the common-interval mode.

FIG. 4

Buffering period SEI message syntax

```

buffering_period( payloadSize ) {
    seq_parameter_set_id
    if( sub_pic_cpb_flag != 0 ) {
        variable_sub_pic_removal_period_flag
    }
    if( NalHrdBpPresentFlag ) {
        for( SchedSelIdx = 0; SchedSelIdx <= cpb_cnt_minus1; SchedSelIdx++ ) {
            initial_cpb_removal_delay[ SchedSelIdx ]
            initial_cpb_removal_delay_offset[ SchedSelIdx ]
        }
    }
    ...
}

```

FIG. 5

Picture timing SEI message syntax

```

pic_timing( payloadSize ) {
    if( CpbDpbDelaysPresentFlag ) {
        if( sub_pic_cpb_flag && variable_sub_pic_removal_period_flag )
            num_decoding_units_minus1
        for( i = 0; i <= num_decoding_units_minus1; i++ )
            cpb_removal_delay[ i ]
        dpb_output_delay
    }
}

```

FIG. 6A

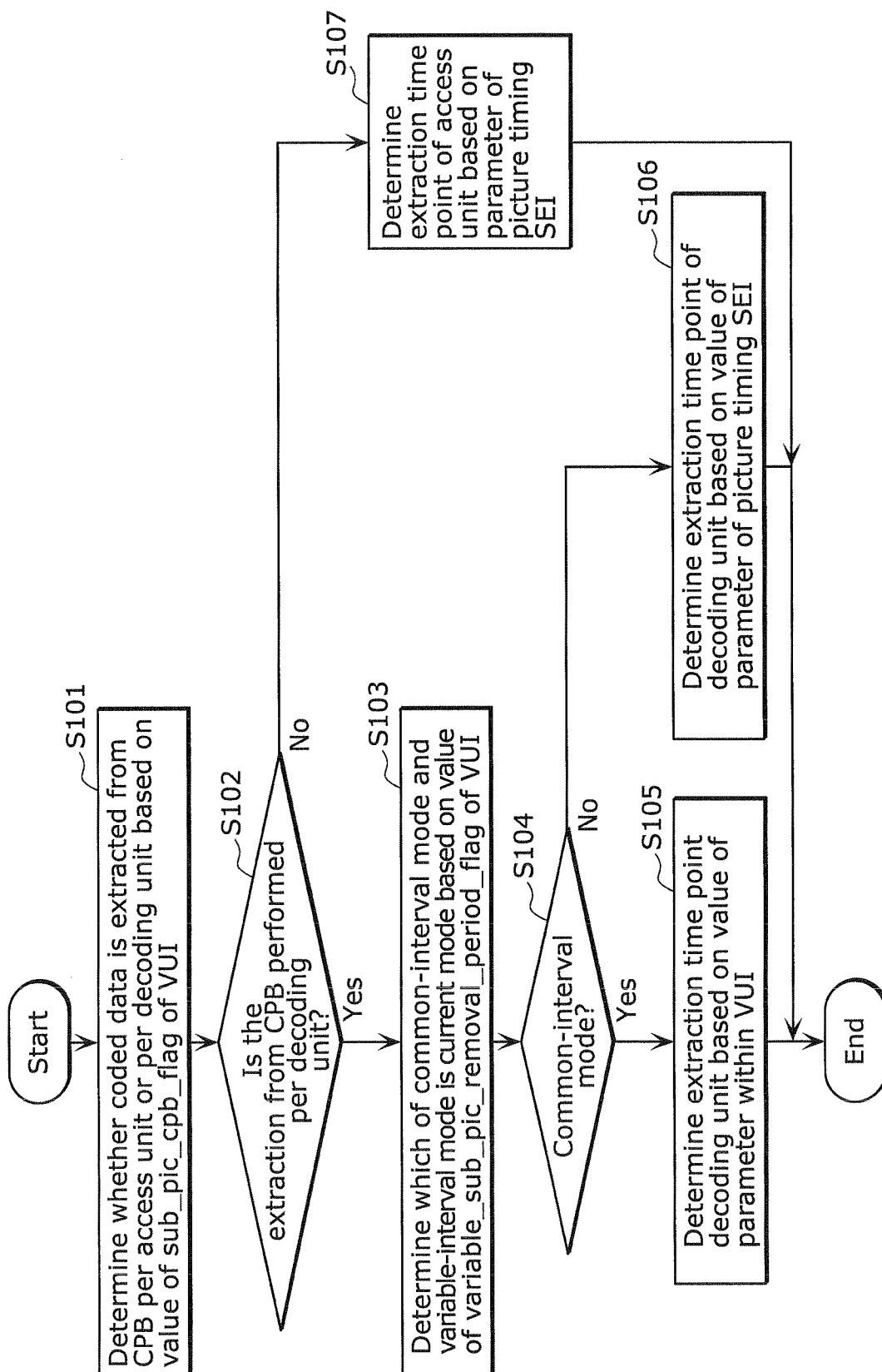


FIG. 6B

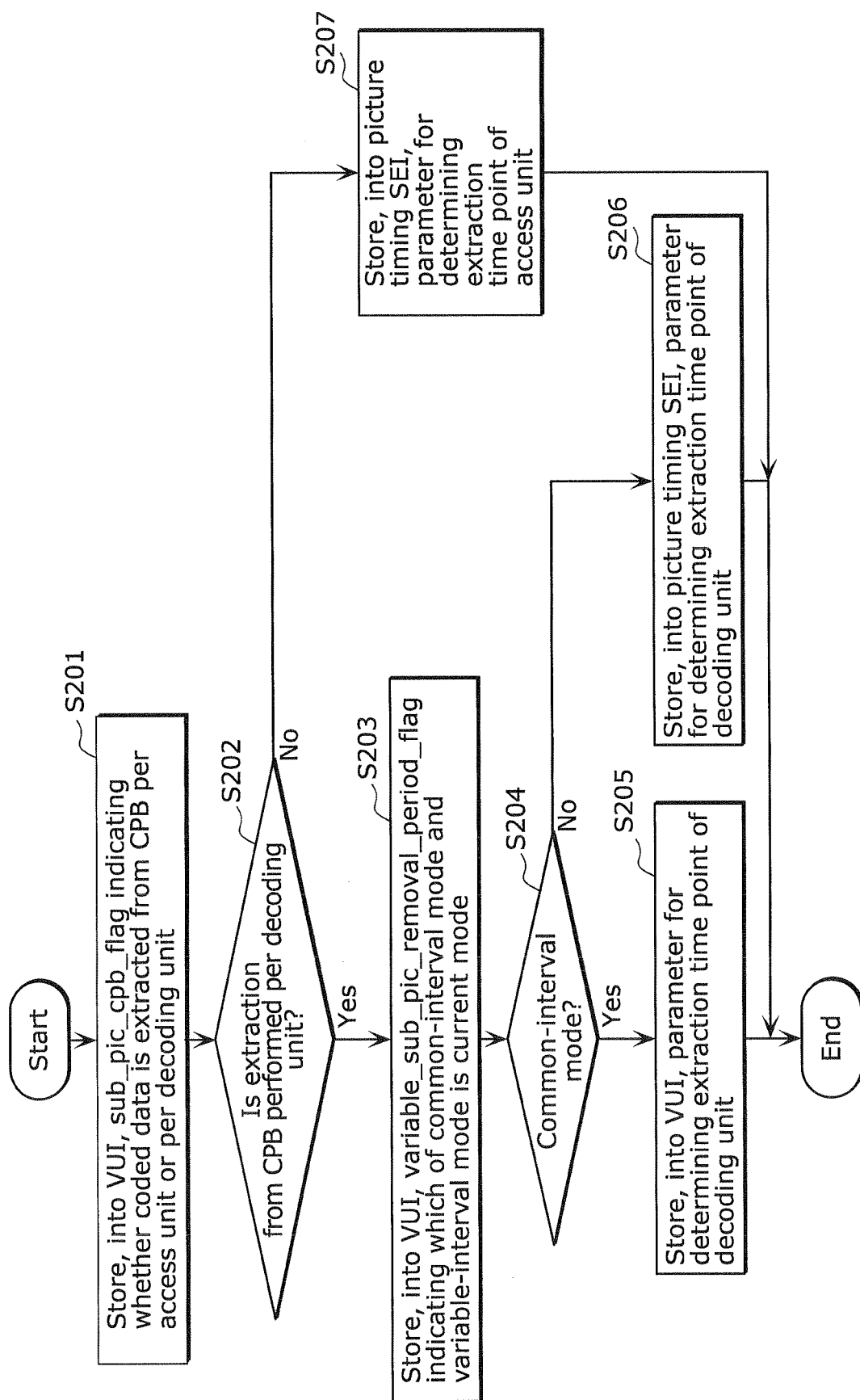


FIG. 7A

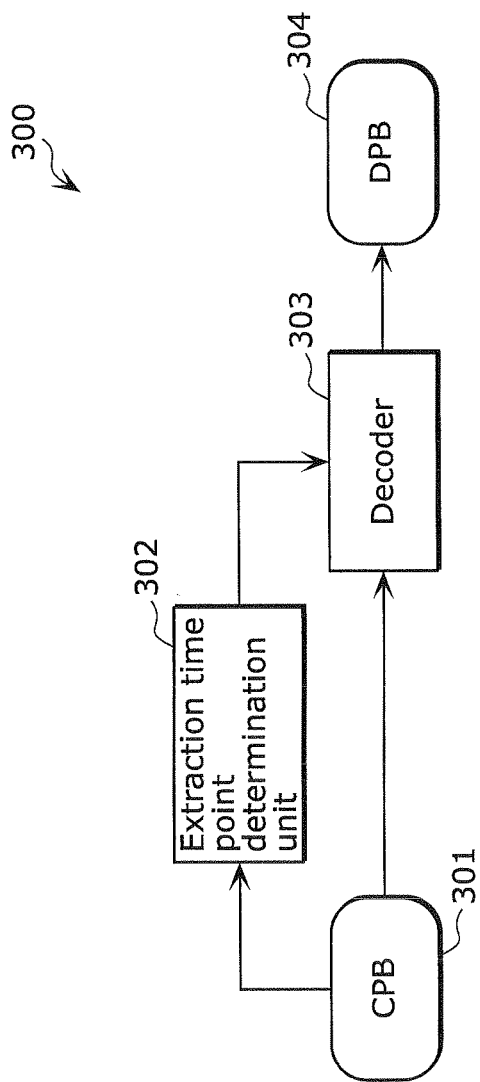


FIG. 7B

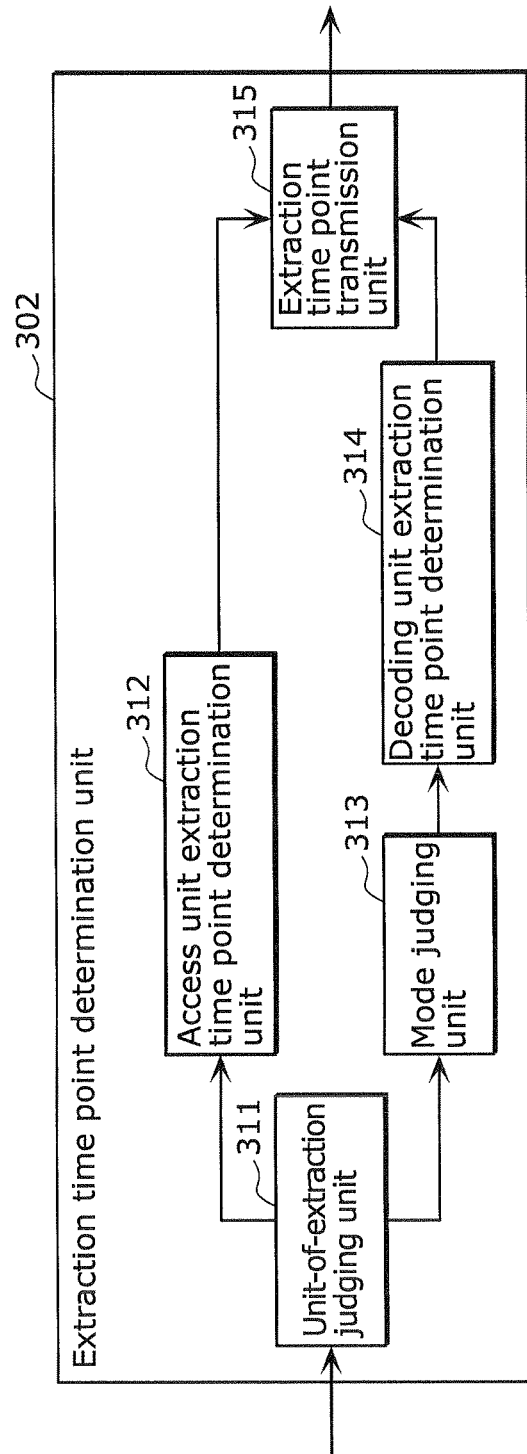


FIG. 8A

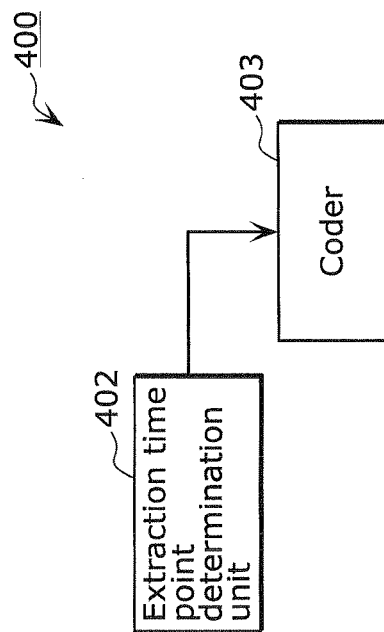


FIG. 8B

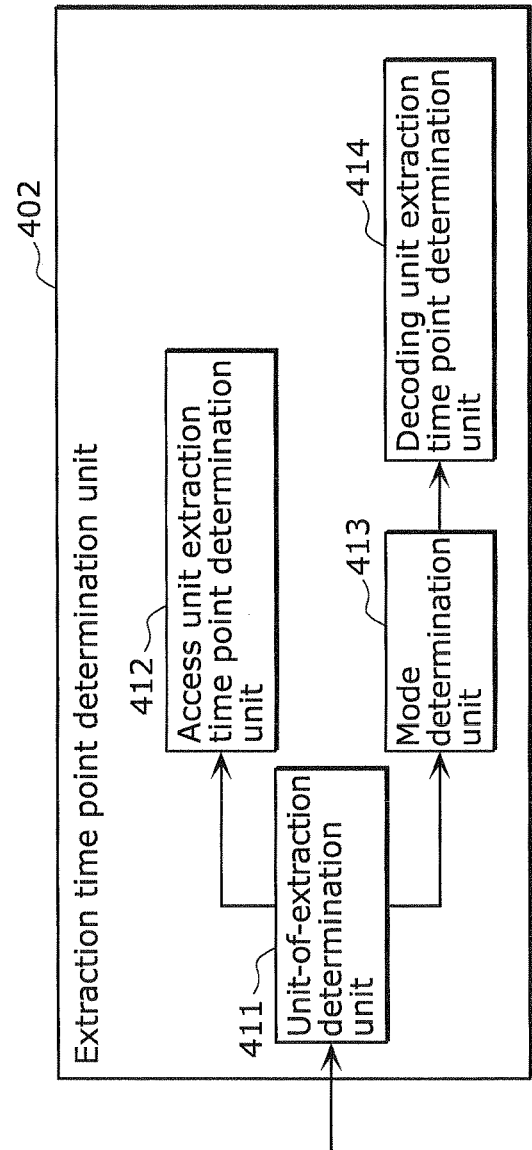


FIG. 9

Decoding Unit CPB delay SEI message syntax

```
du_cpb_delay( payloadSize ) {  
    du_cpb_removal_delay  
}  
}
```

FIG. 10

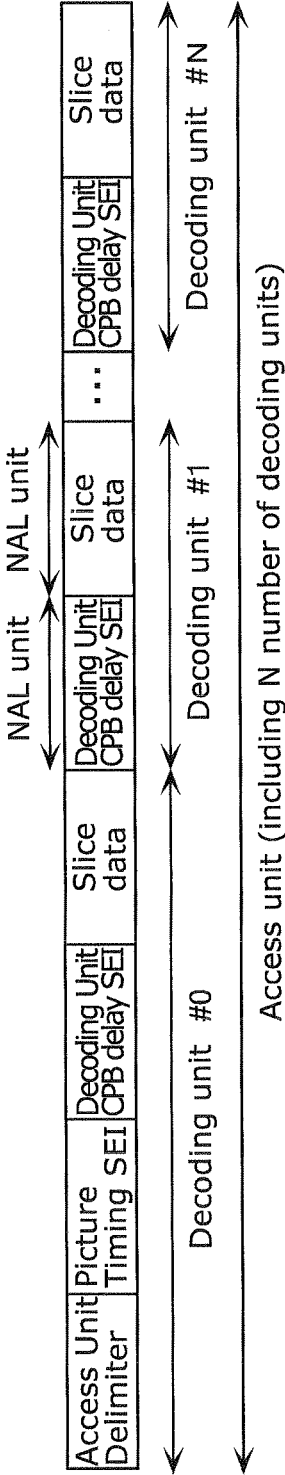


FIG. 11

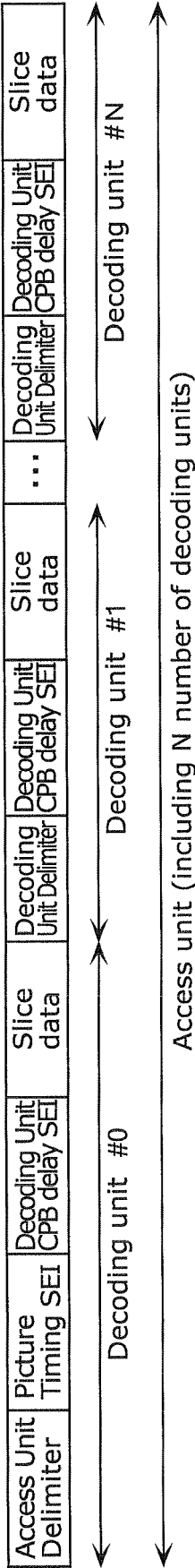


FIG. 12

```
HEVC_descriptor() {  
    descriptor_tag  
    descriptor_length  
    profile_idc  
    reserved_zero_8bits  
    level_idc  
    sub_pic_cpb_removal_flag  
    if( sub_pic_cpb_removal_flag )  
        variable_sub_pic_removal_period_flag  
        if( !variable_sub_pic_removal_period_flag )  
            sub_pic_removal_period  
}
```

FIG. 13

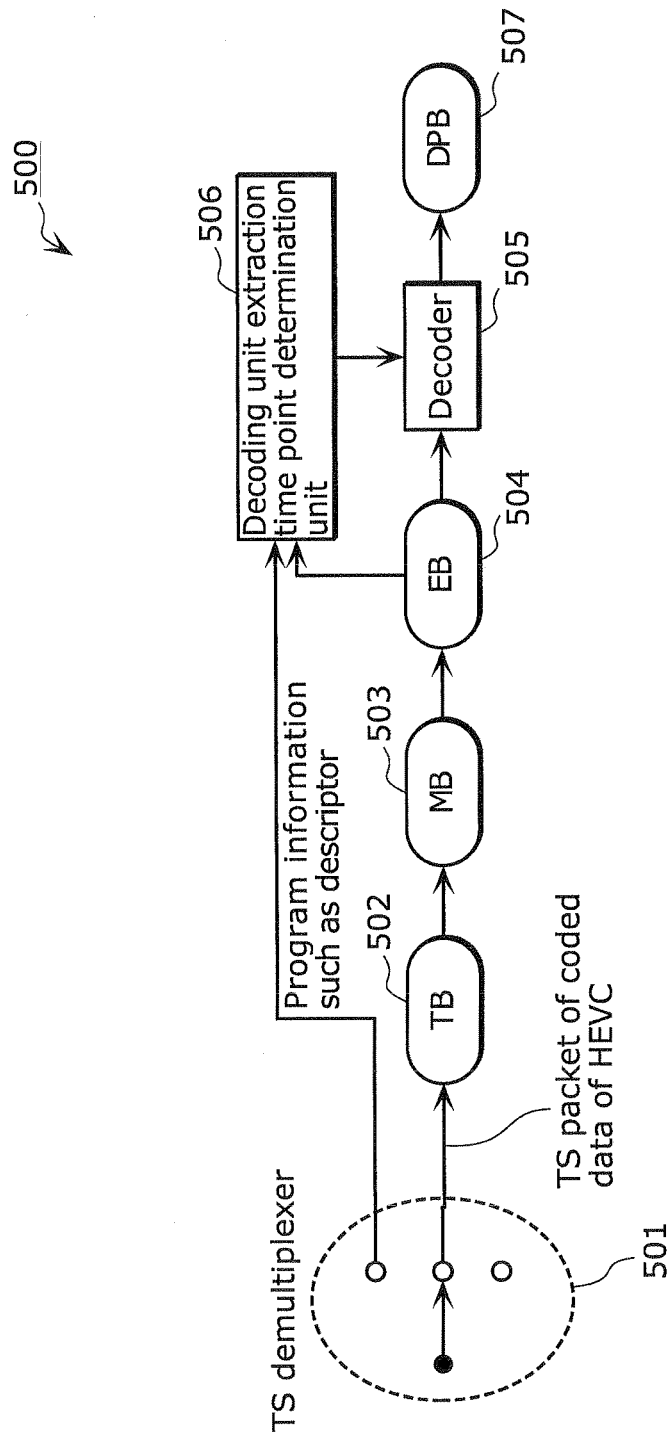


FIG. 14A

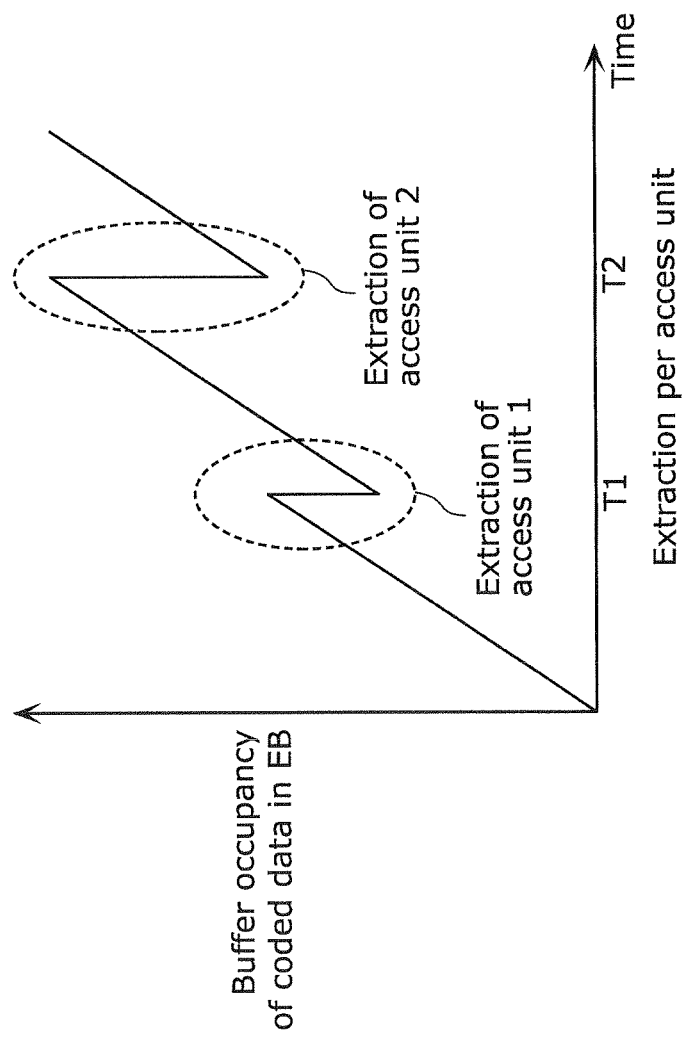


FIG. 14B

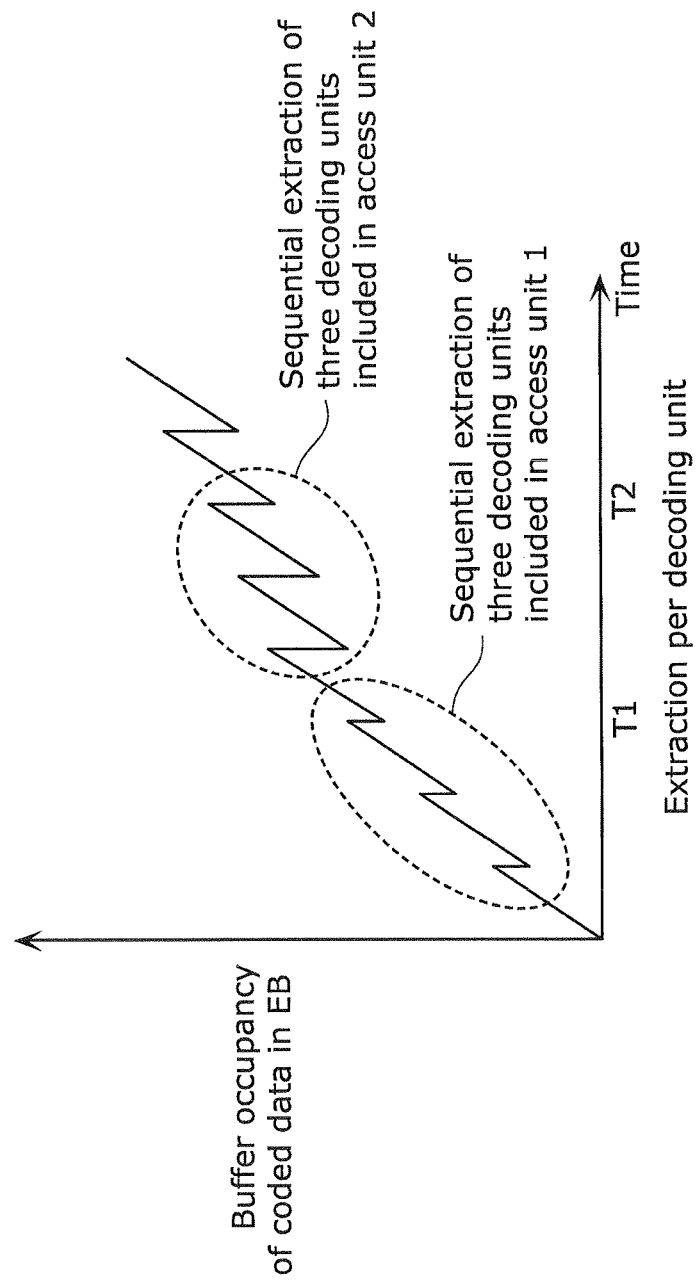


FIG. 15

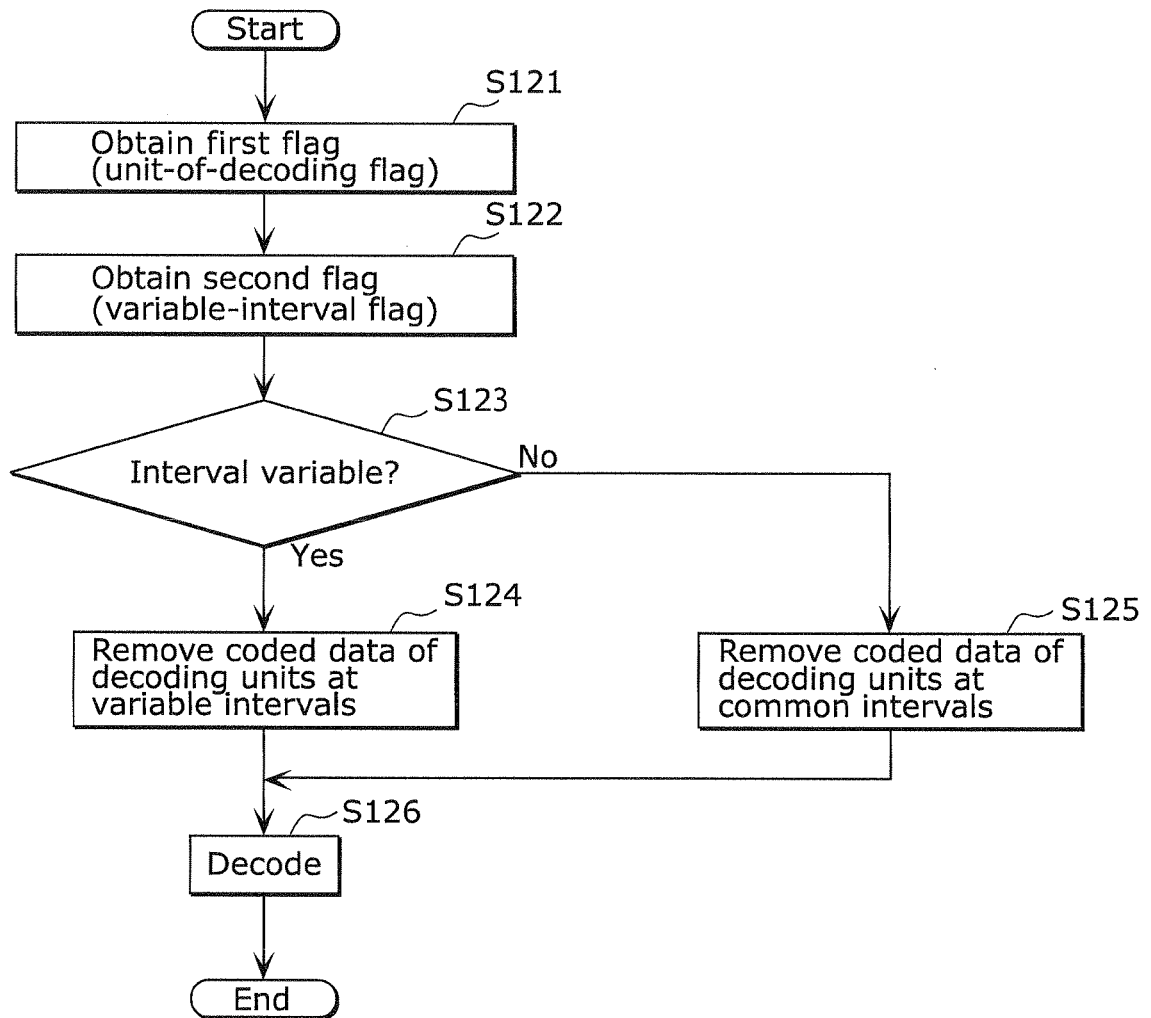


FIG. 16

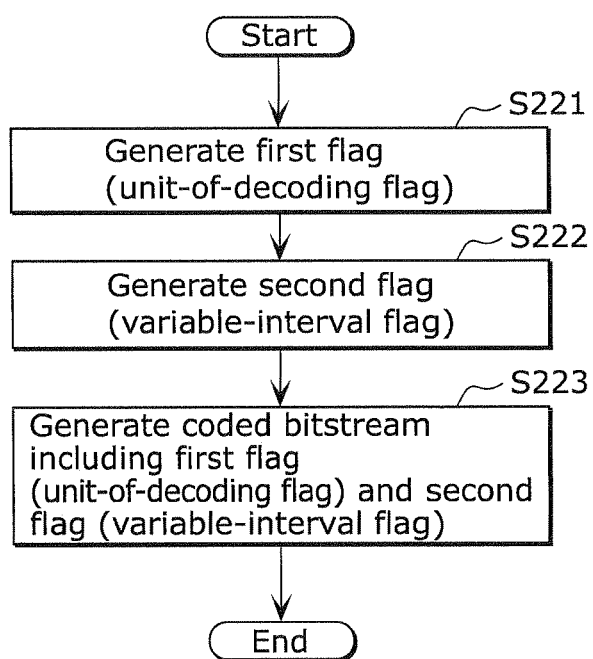


FIG. 17

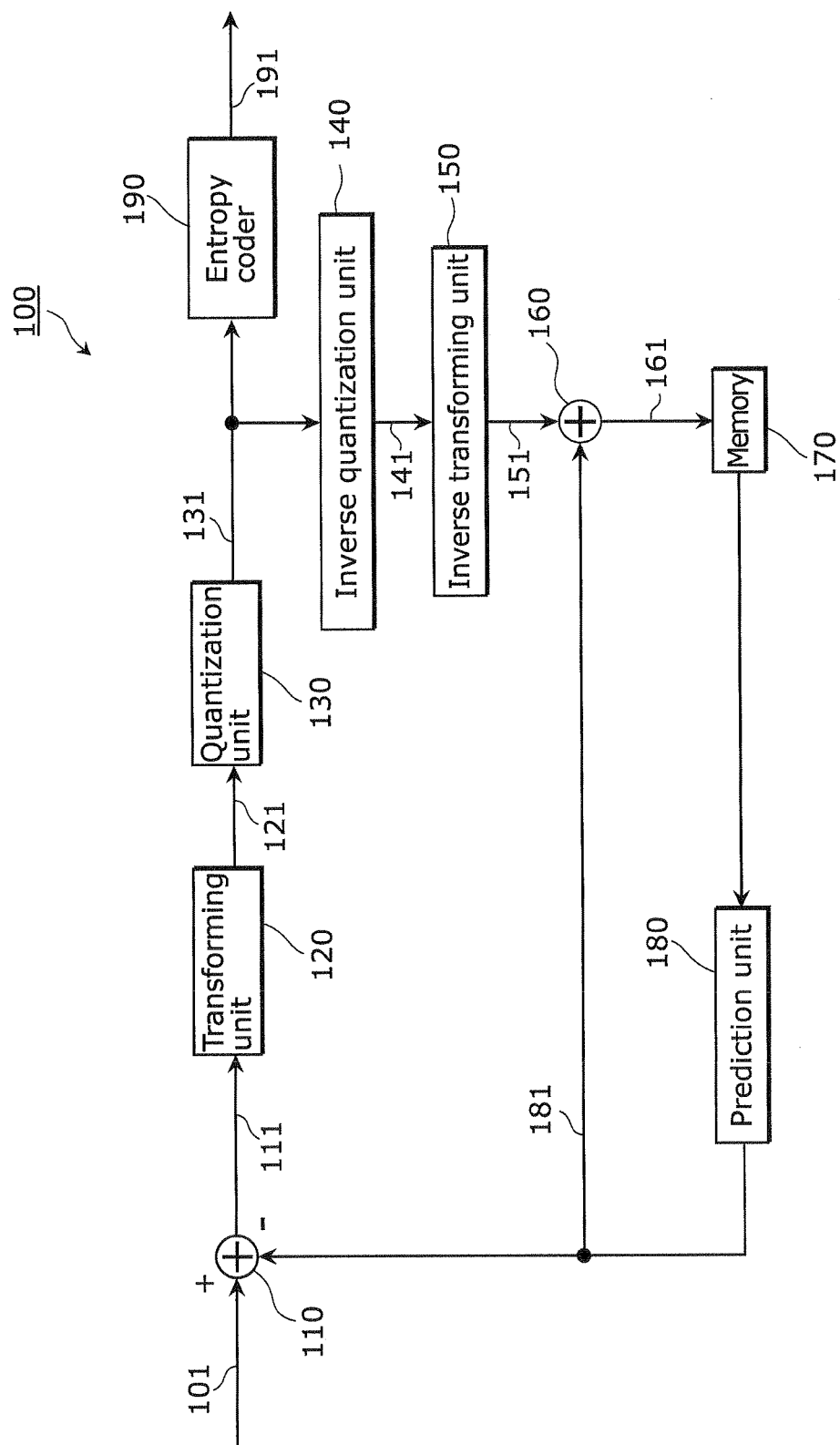


FIG. 18

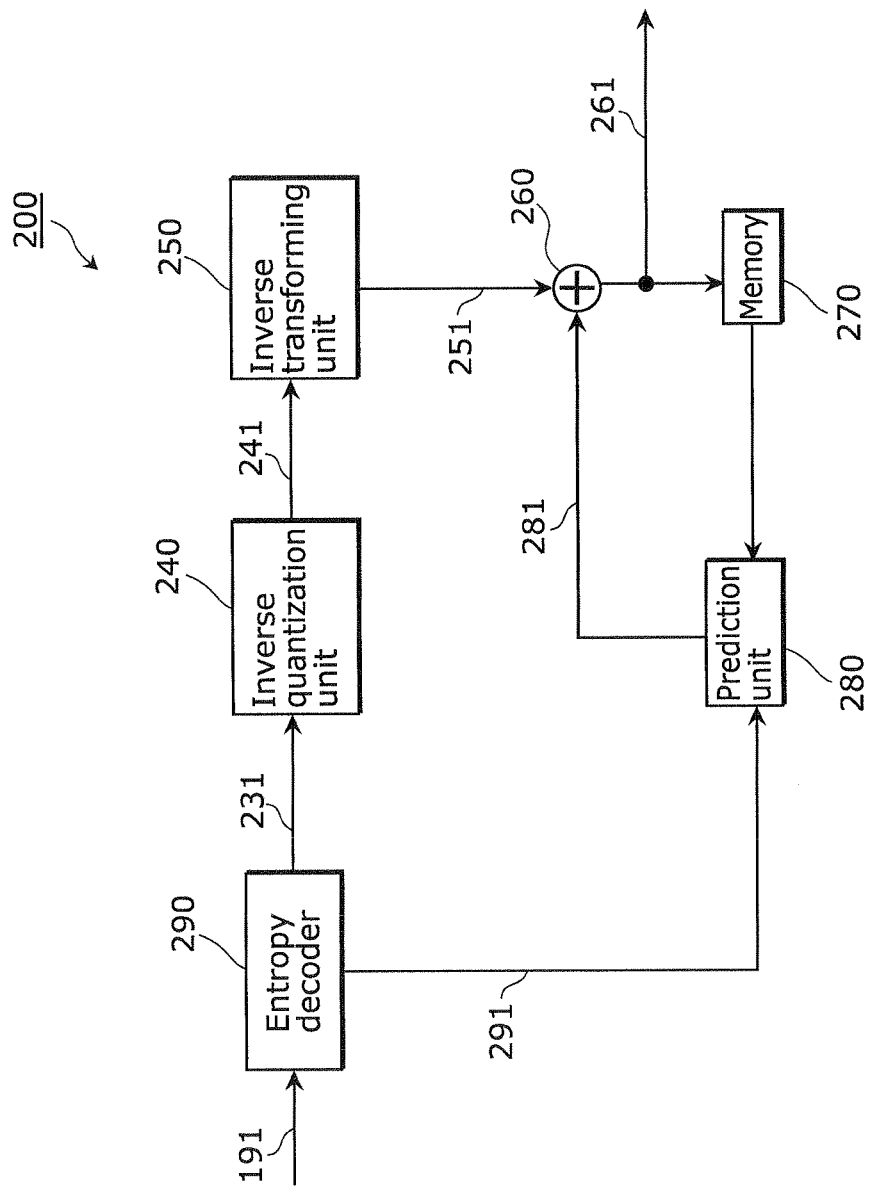


FIG. 19

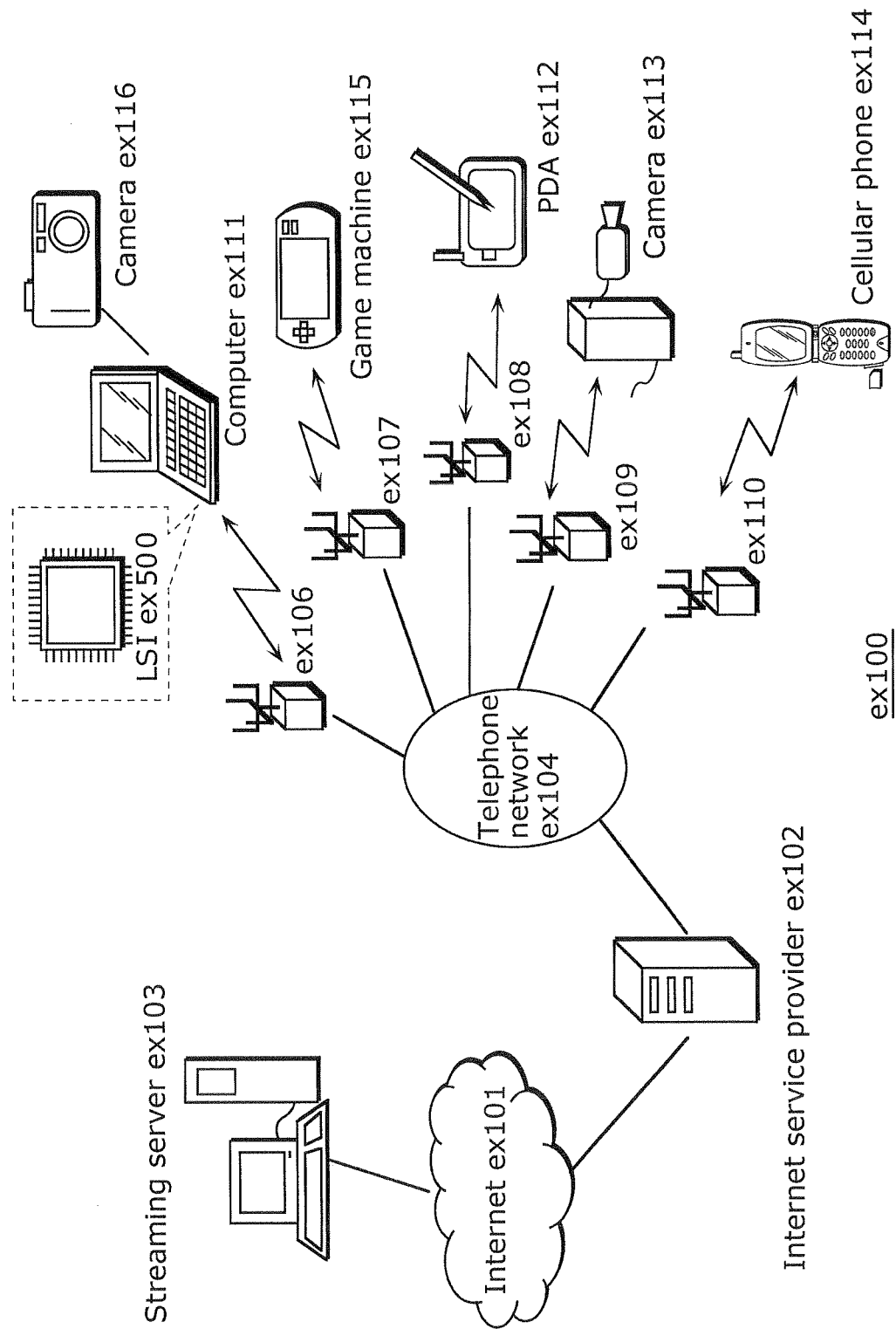


FIG. 20

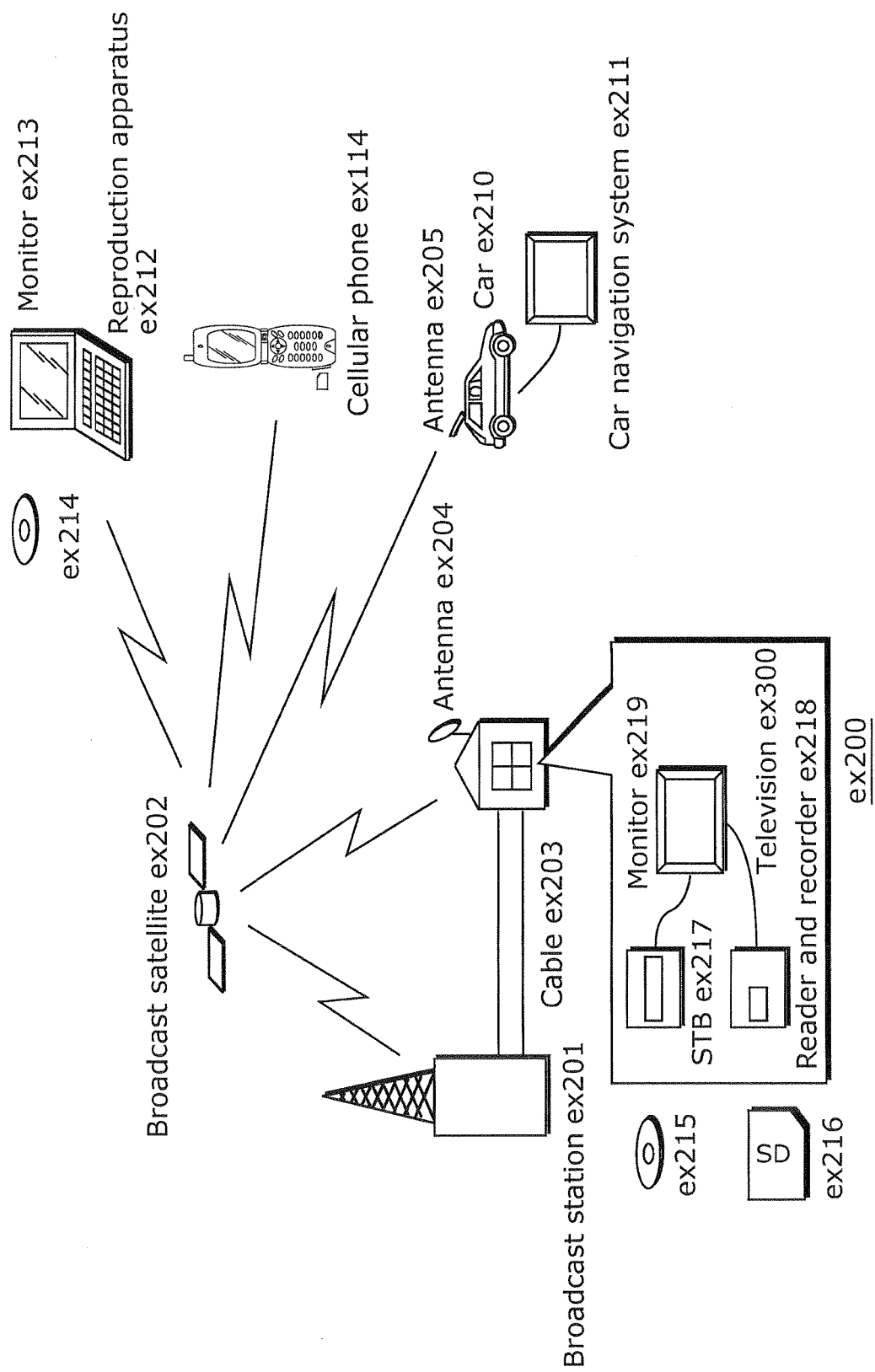


FIG. 21

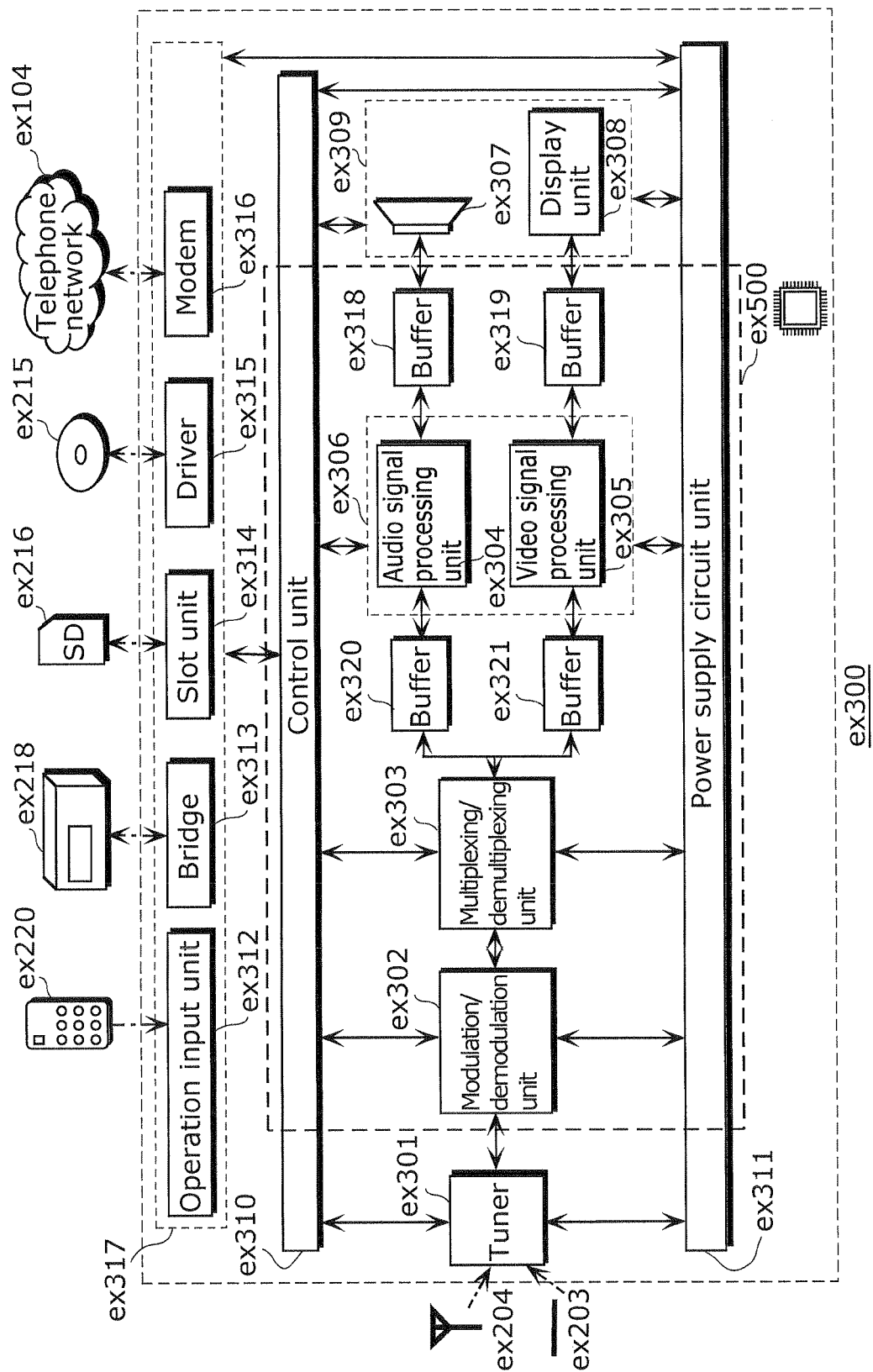
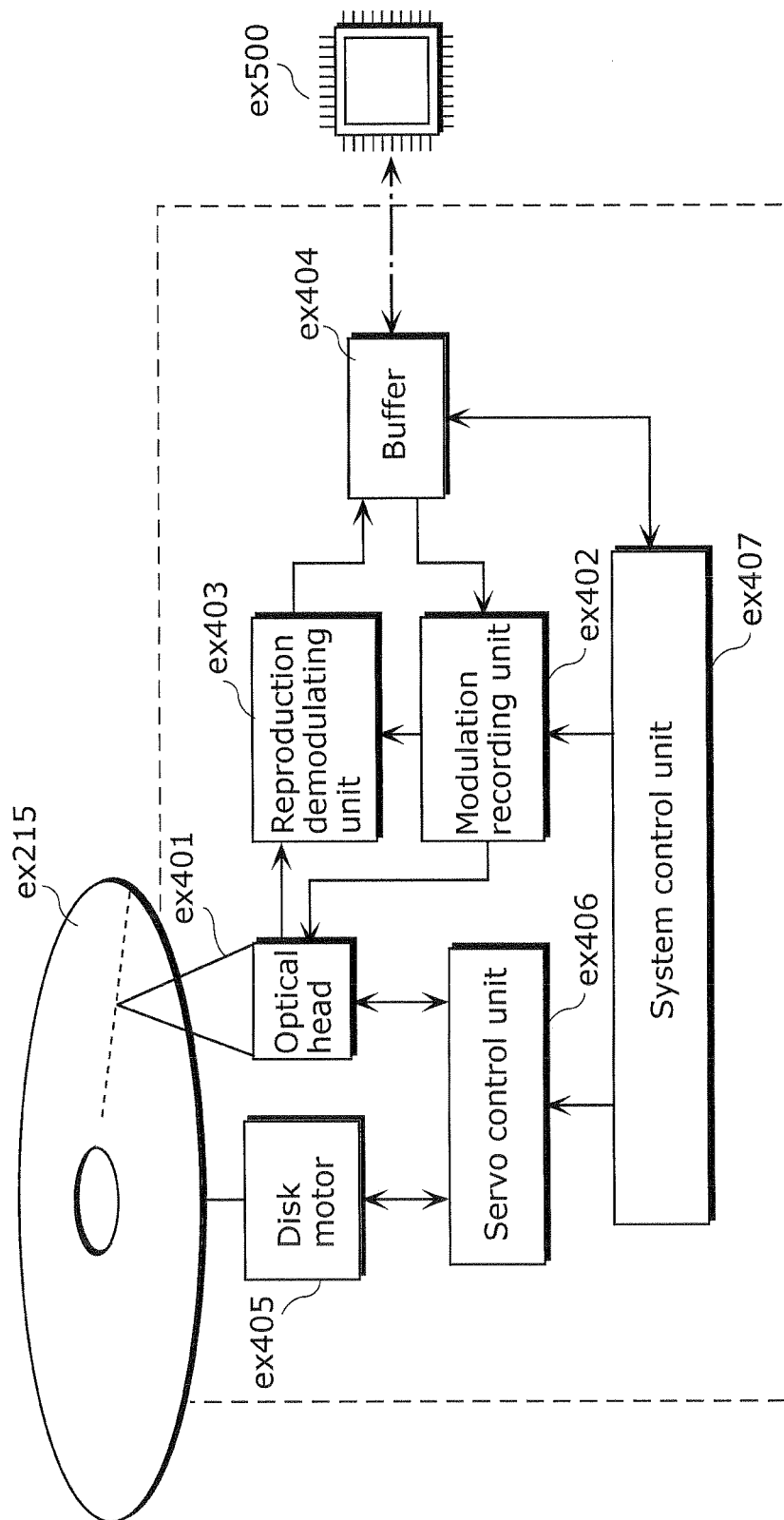


FIG. 22



ex400

FIG. 23

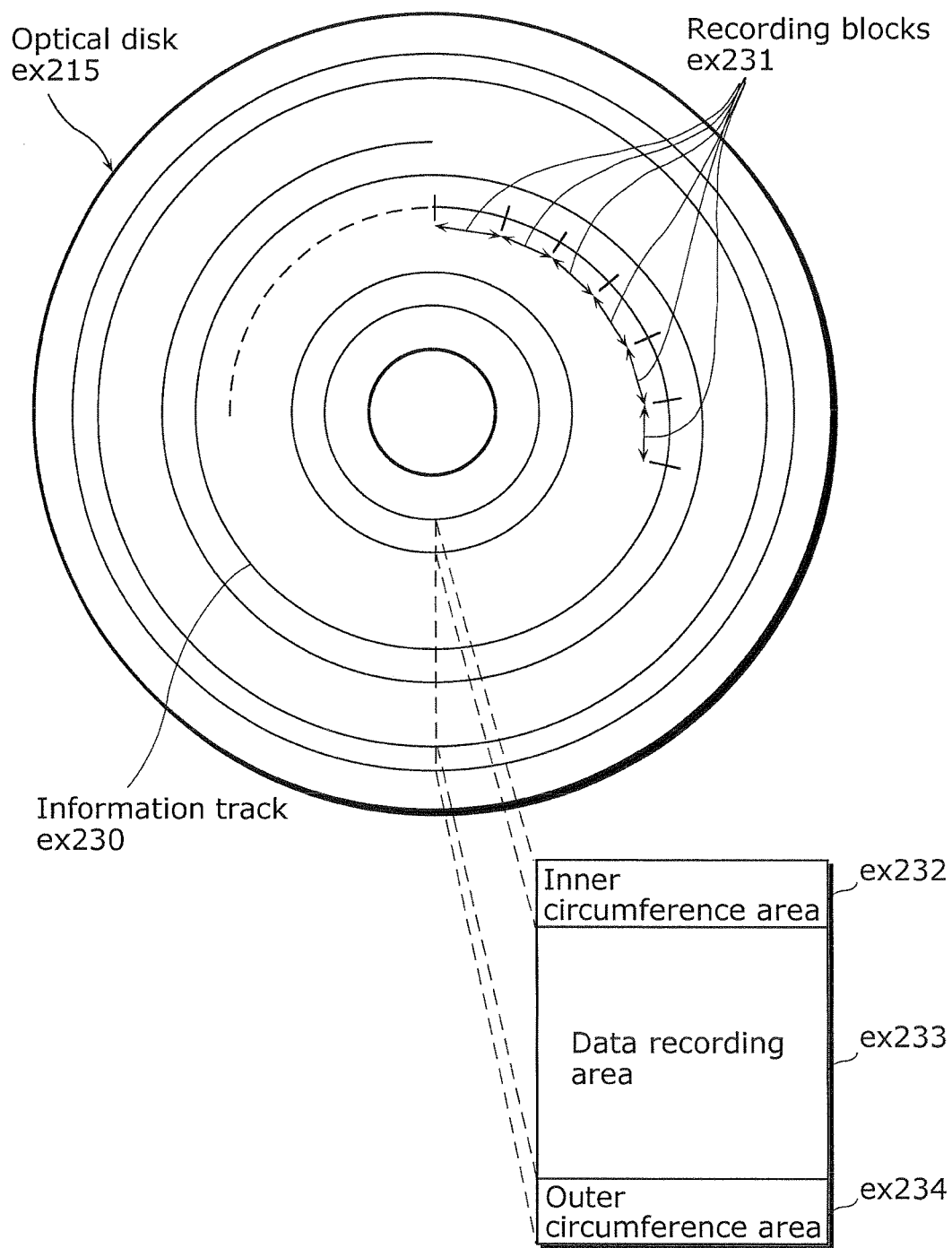


FIG. 24A

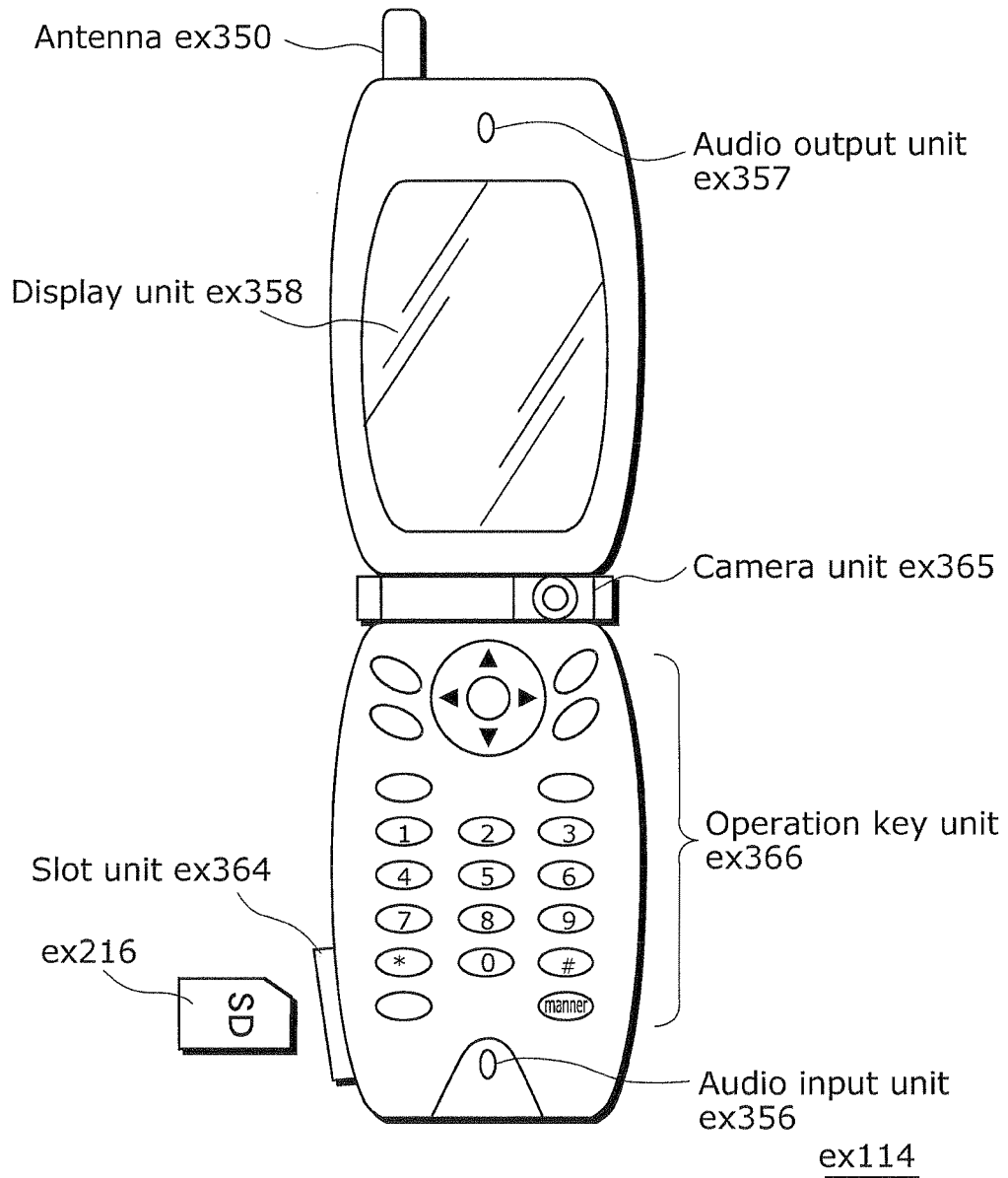


FIG. 24B

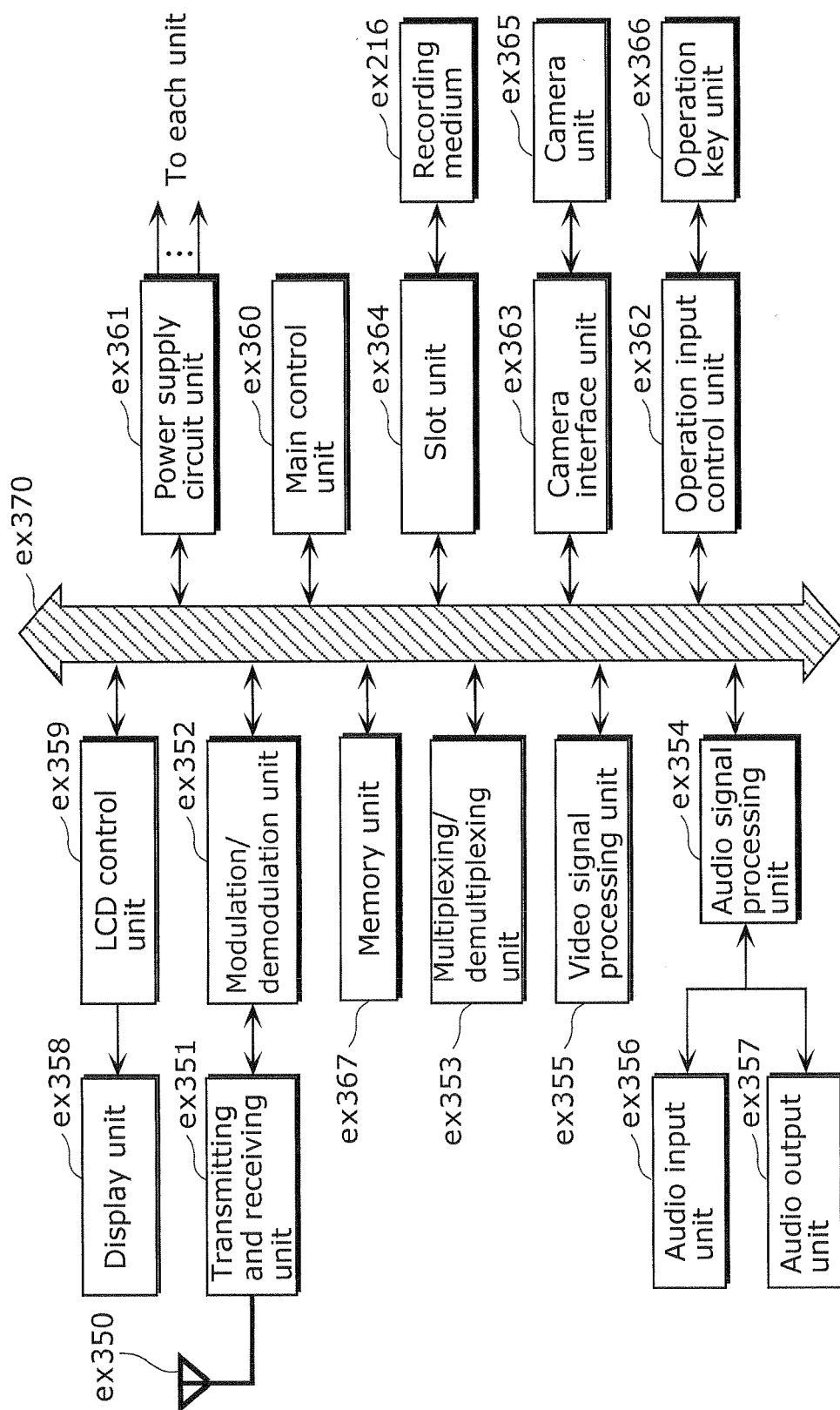


FIG. 25

Video stream (PID=0x1011, Primary video)
Audio stream (PID=0x1100)
Audio stream (PID=0x1101)
Presentation graphics stream (PID=0x1200)
Presentation graphics stream (PID=0x1201)
Interactive graphics stream (PID=0x1400)
Video stream (PID=0x1B00, Secondary video)
Video stream (PID=0x1B01, Secondary video)

FIG. 26

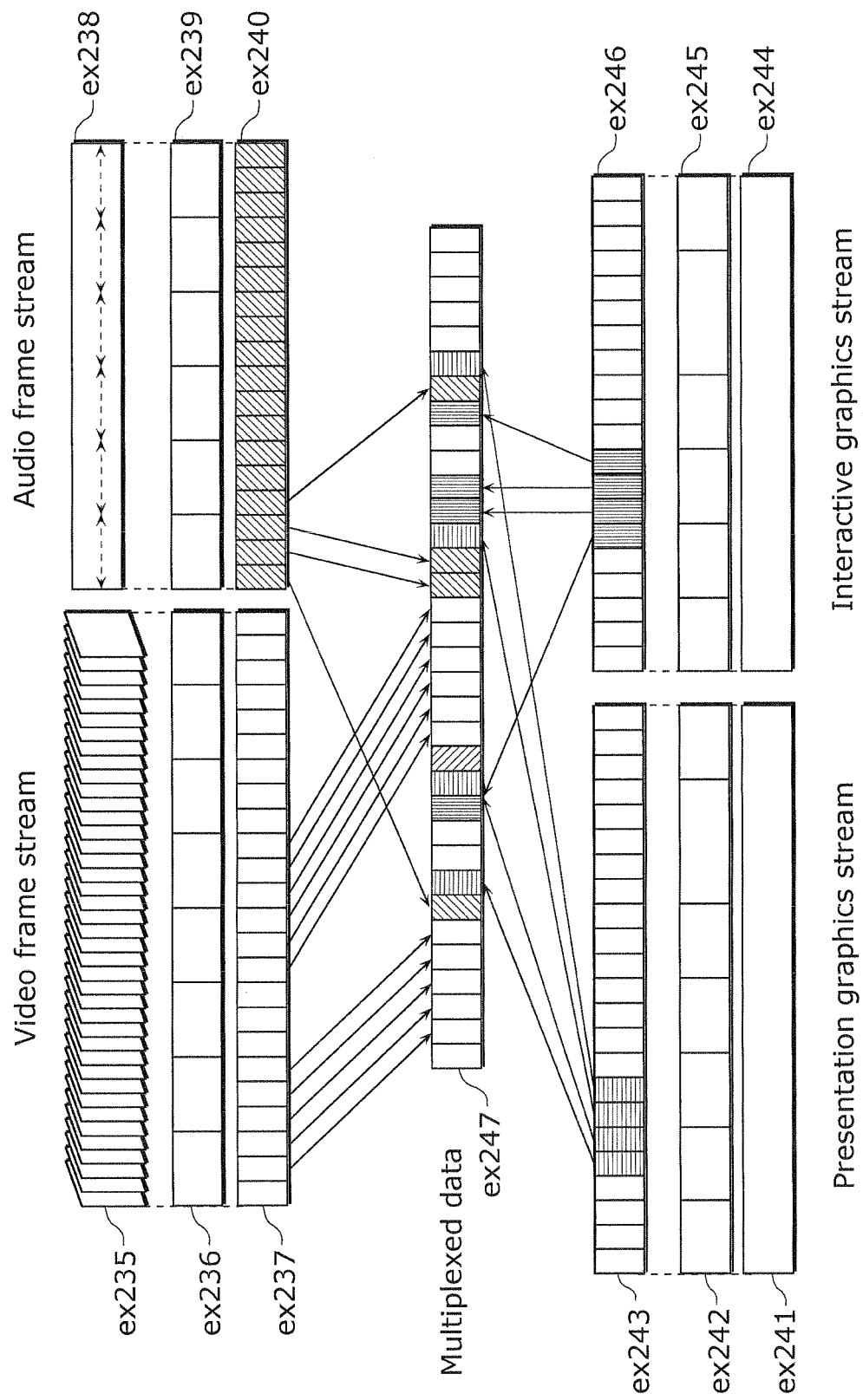


FIG. 27

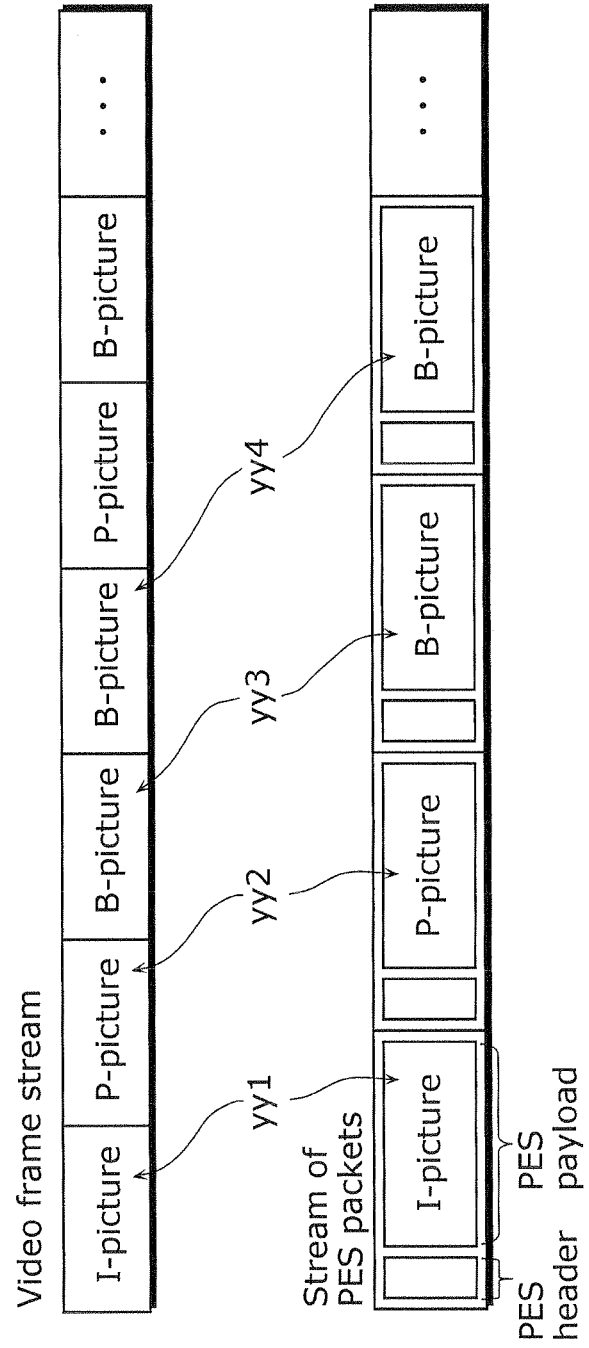
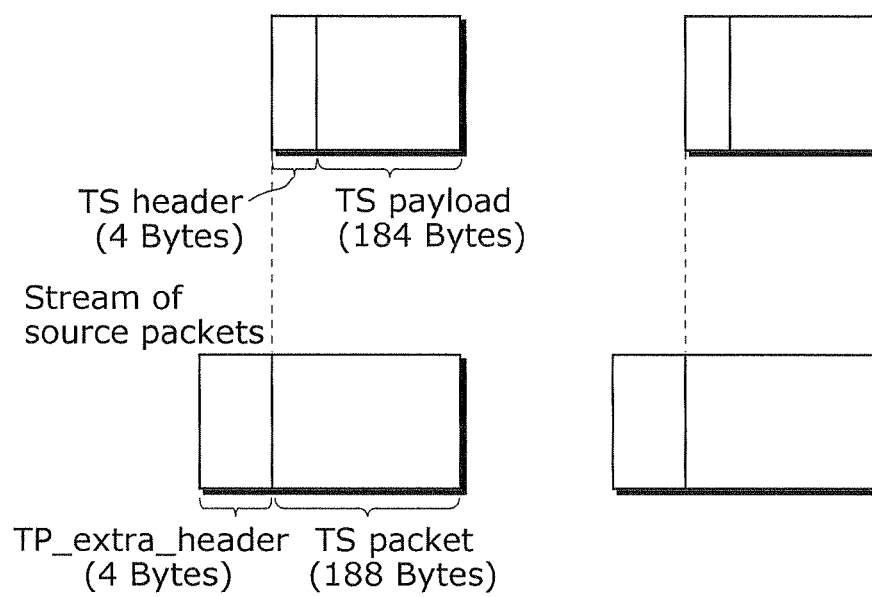


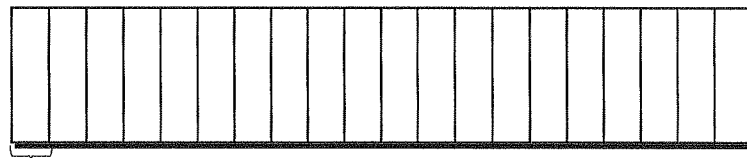
FIG. 28

Stream of TS packets



Multiplexed data

SPN 0 1 2 3 4 5 6 7 ...



Source packet

FIG. 29

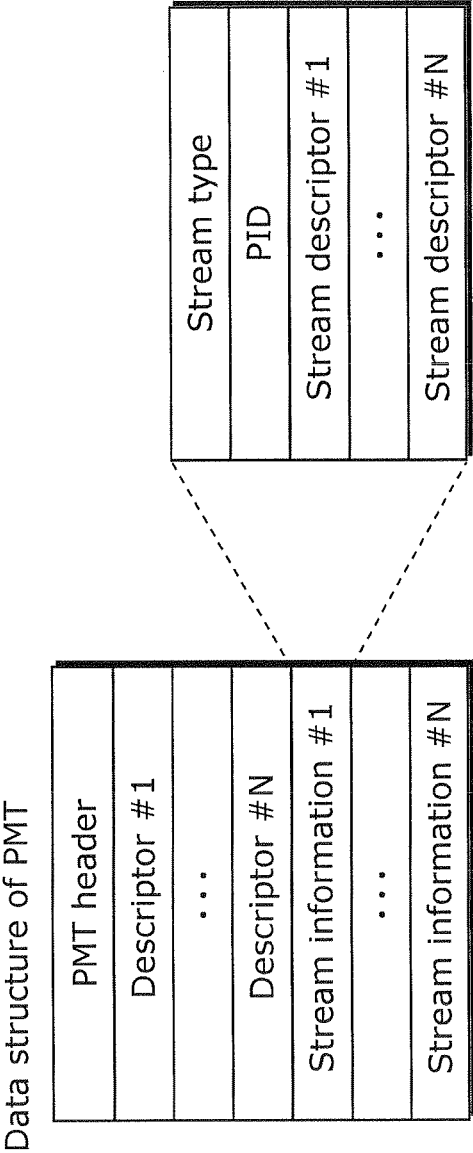


FIG. 30

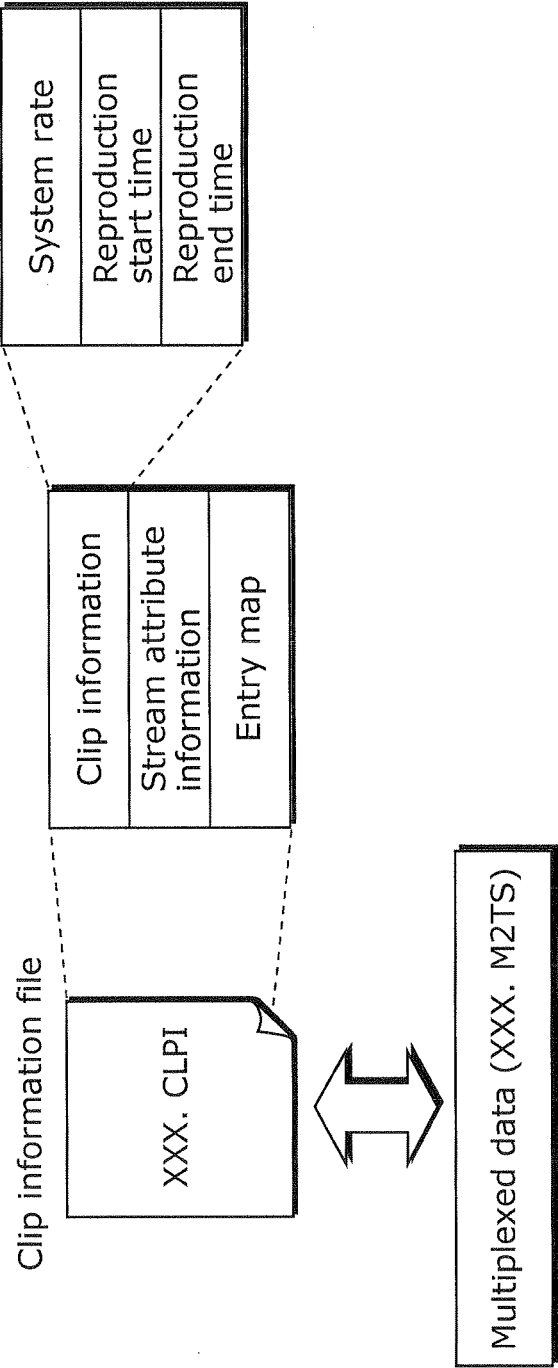


FIG. 31

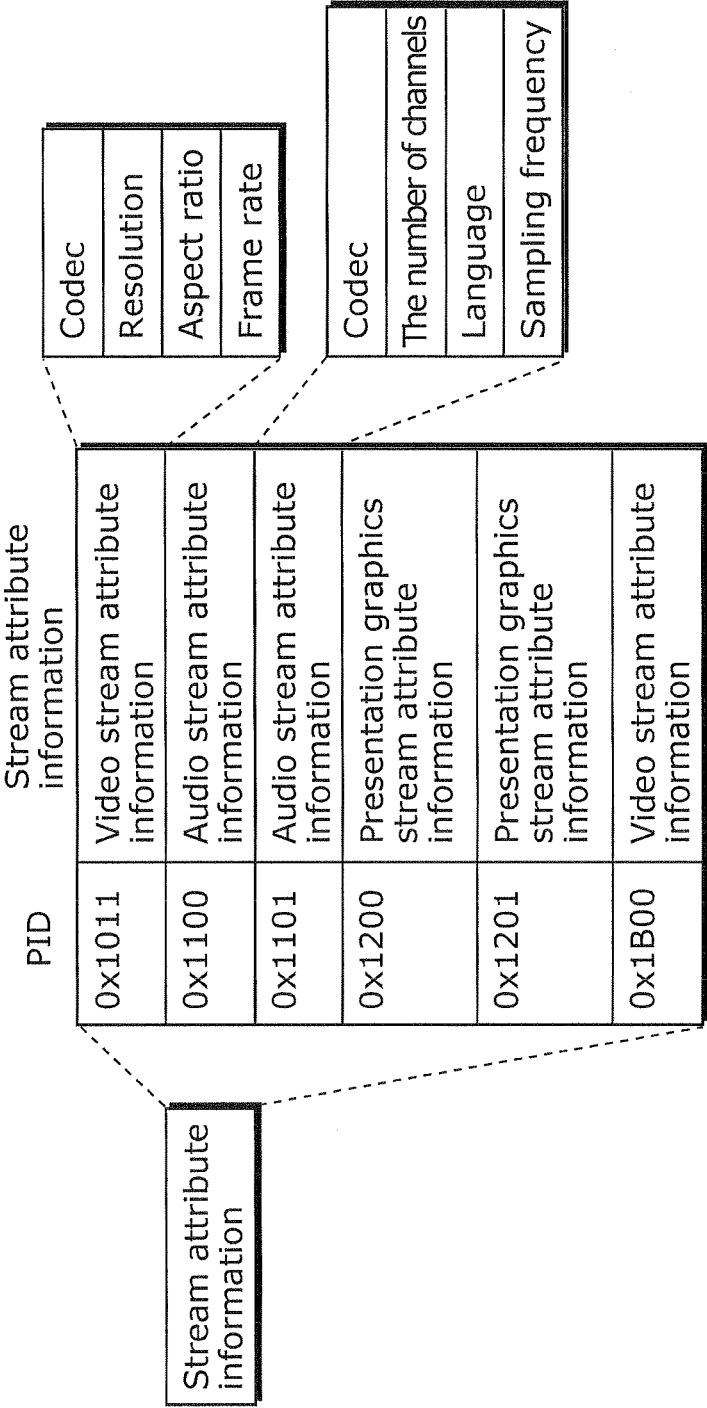


FIG. 32

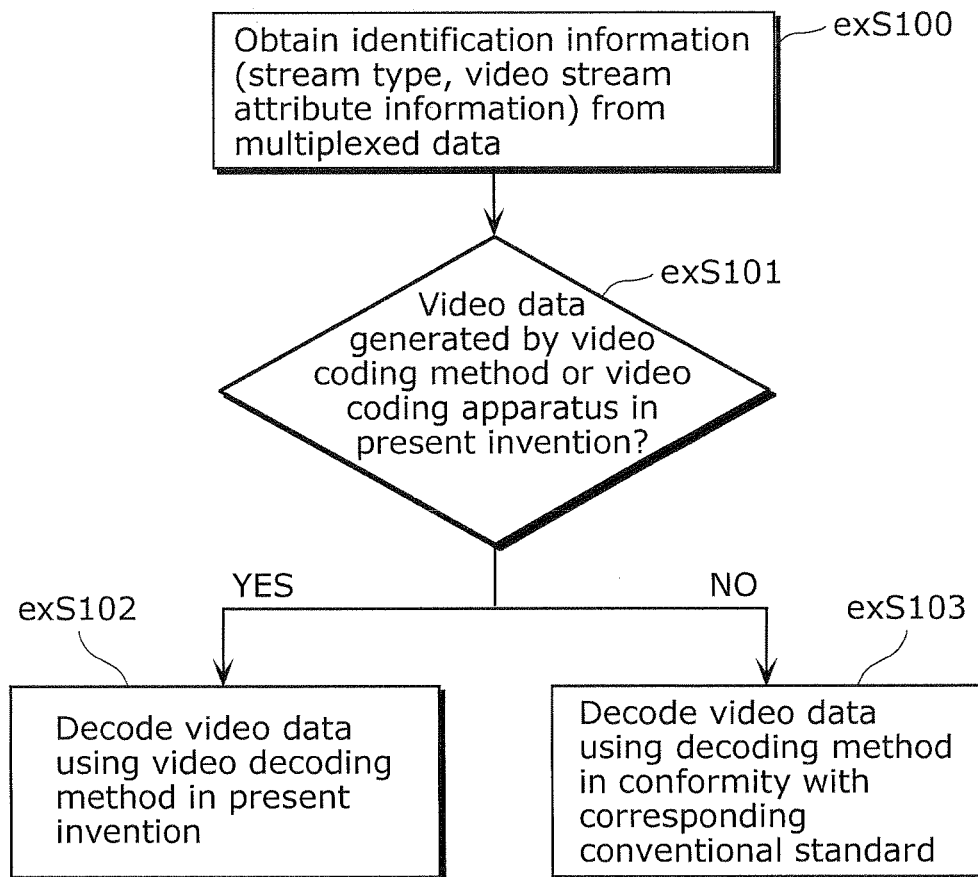


FIG. 33

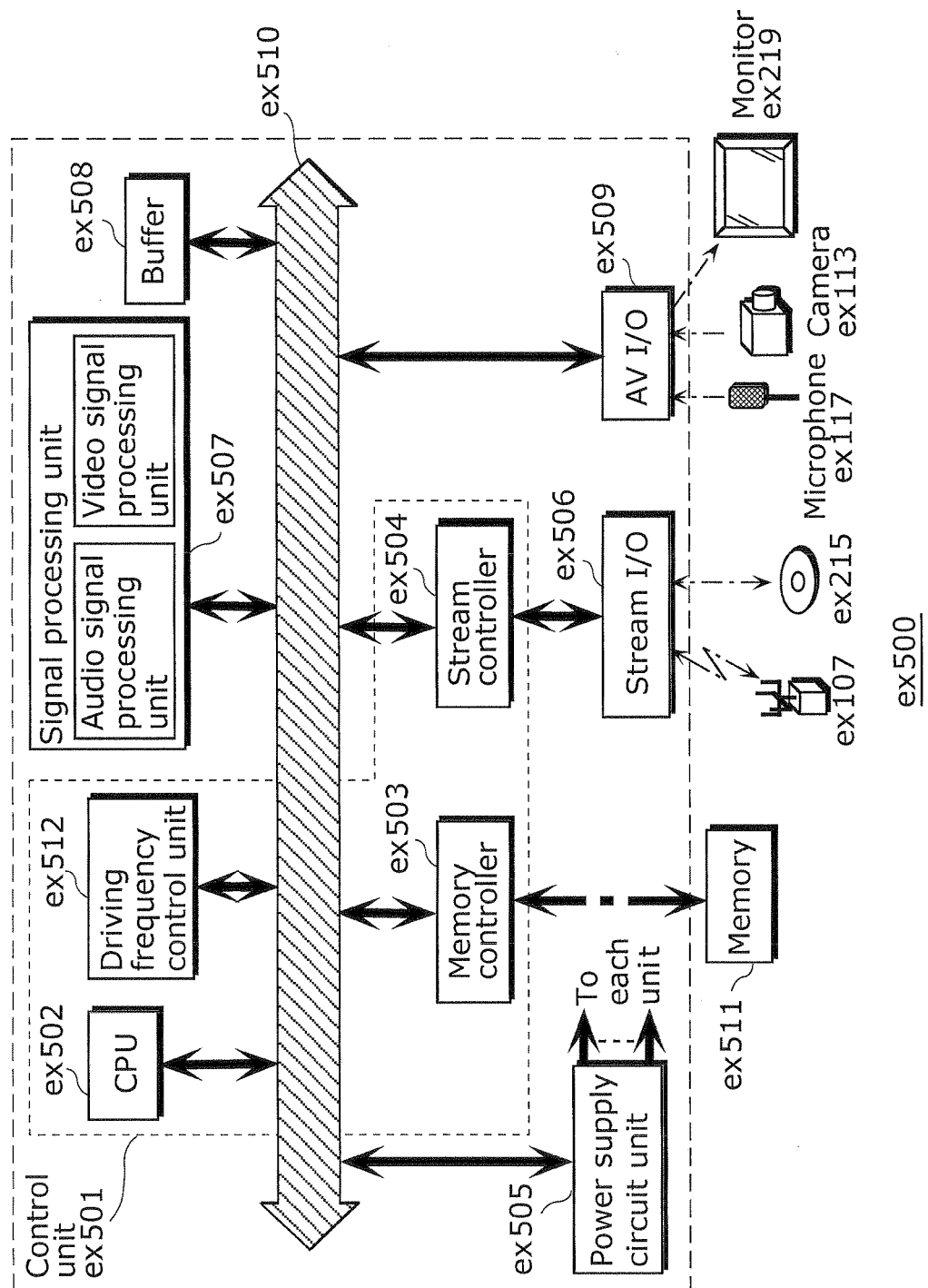


FIG. 34

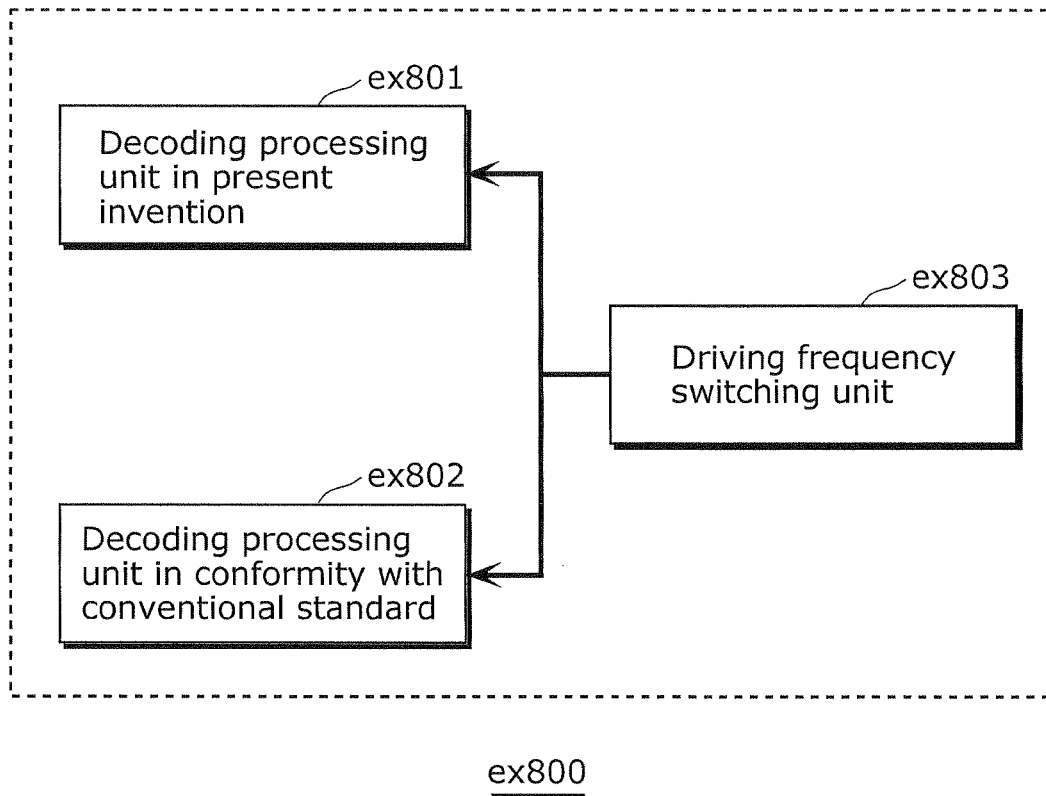


FIG. 35

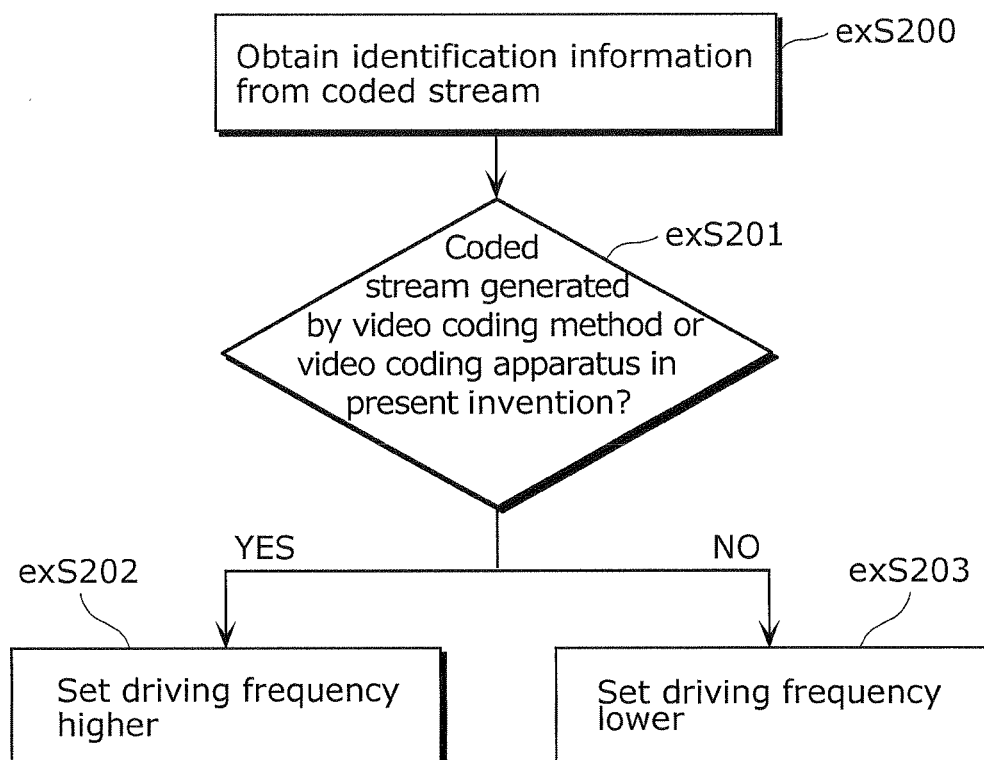


FIG. 36

Corresponding standard	Driving frequency
MPEG-4 AVC	500 MHz
MPEG-2	350 MHz
⋮	⋮

FIG. 37A

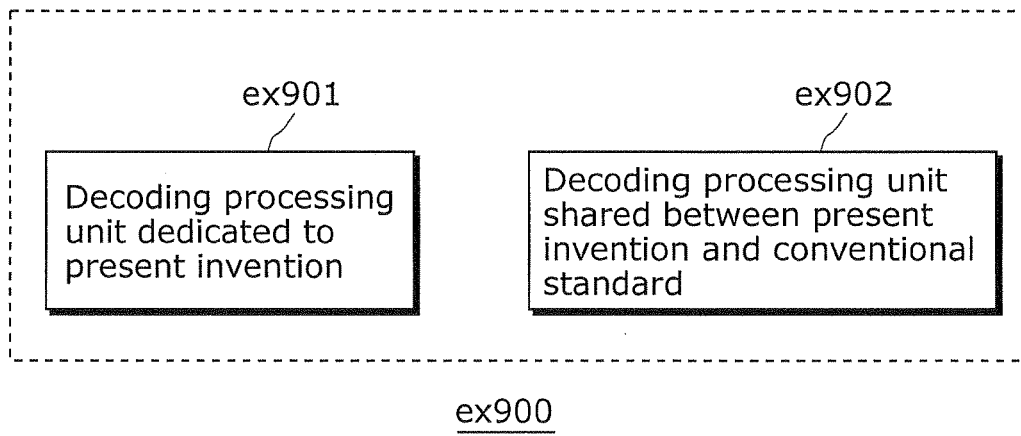


FIG. 37B

