

[図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
...
}

```

[図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
    }
}

```

[図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
...
}

```

間隔固定モード時における復号ユニットの
cpb_removal_delayの間隔を規定

[図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 ]
            }
        }
    }
}

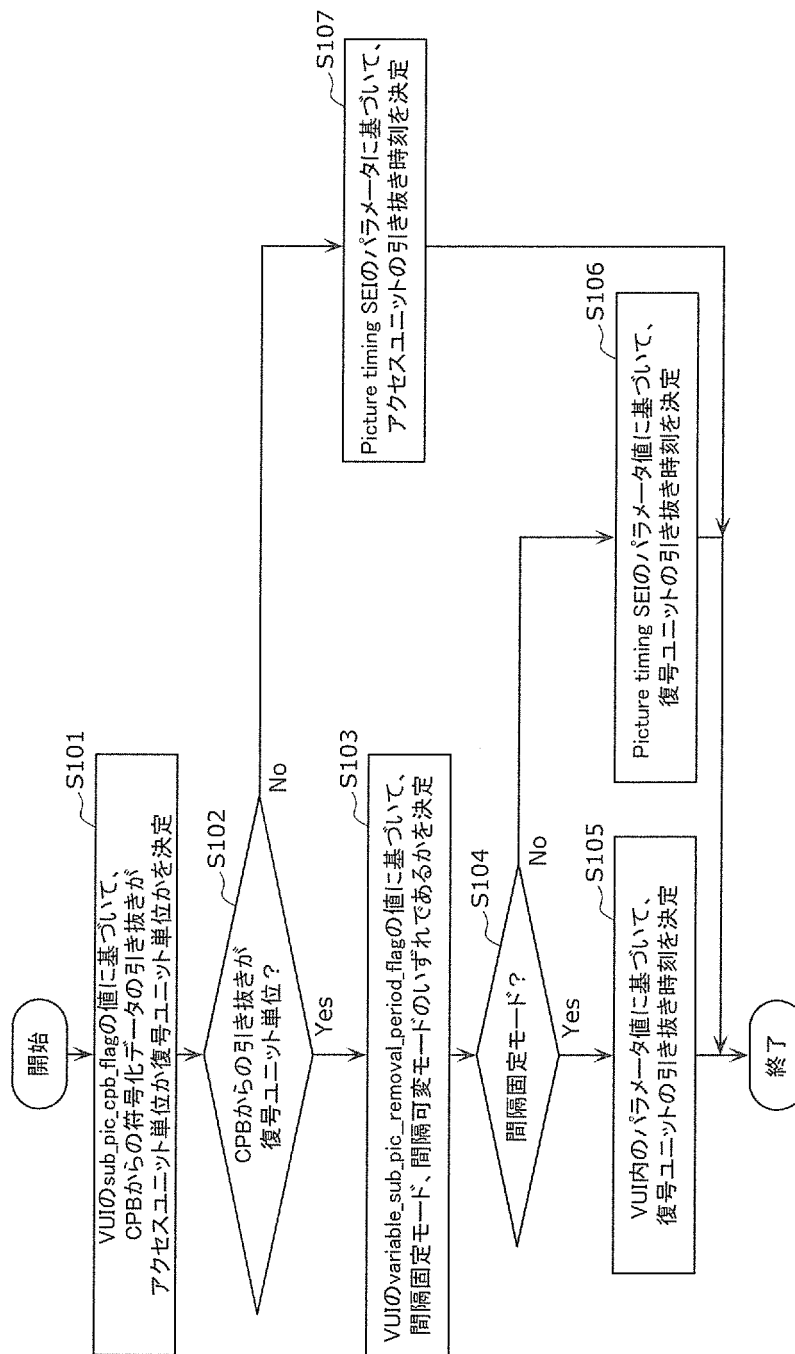
```

[図5]

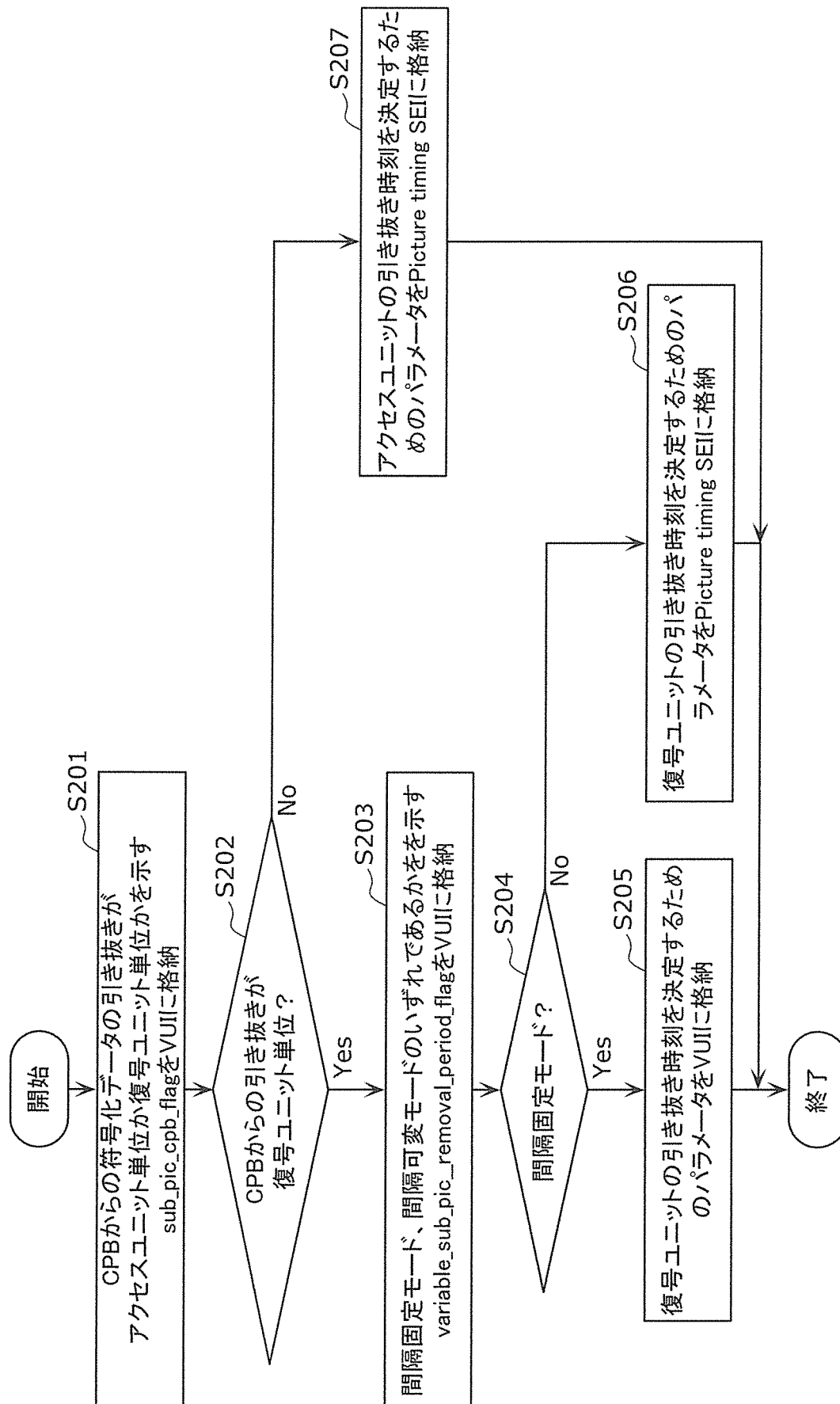
Picture timing SEI message syntax

```
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  
    }  
}
```

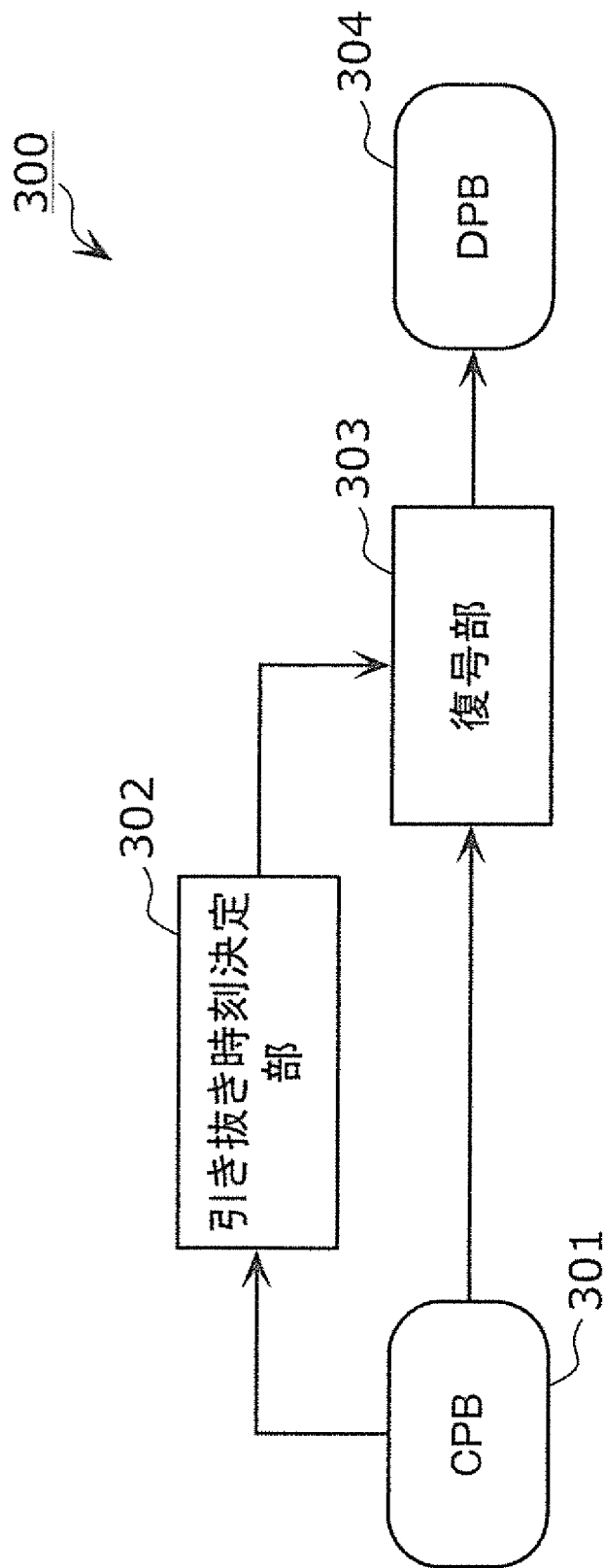
[図6A]



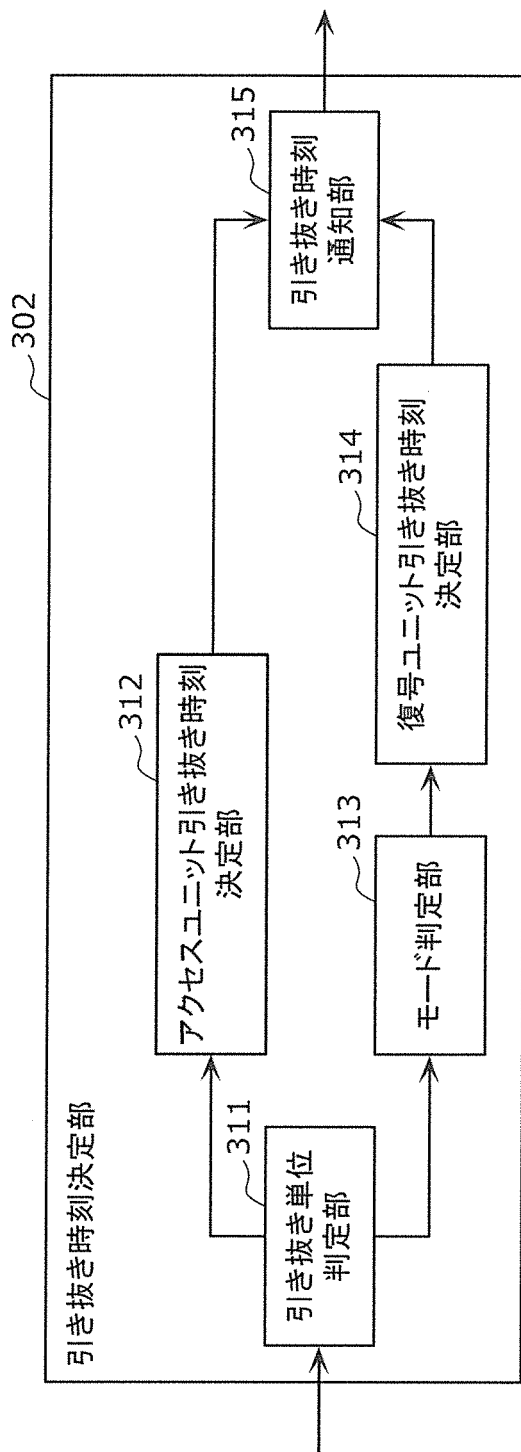
[図6B]



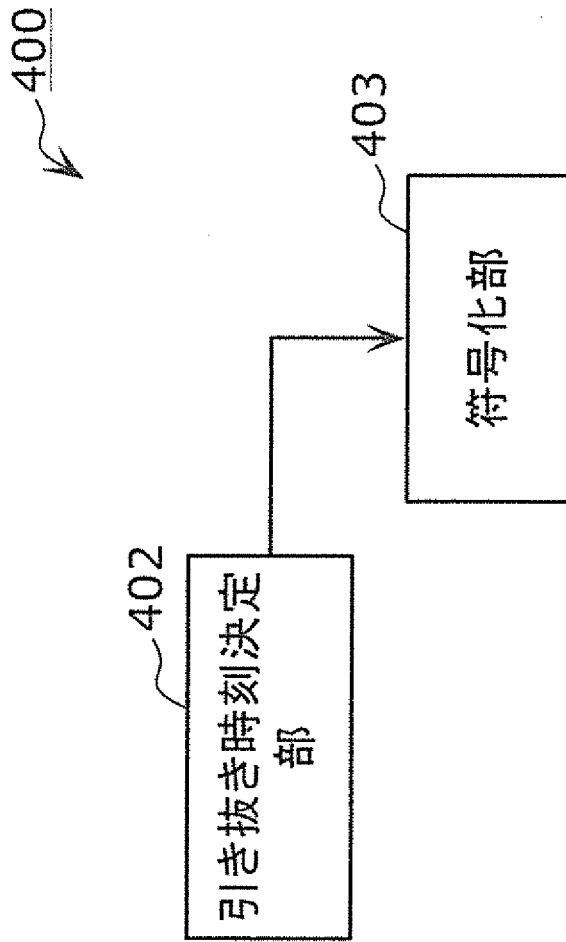
[図7A]



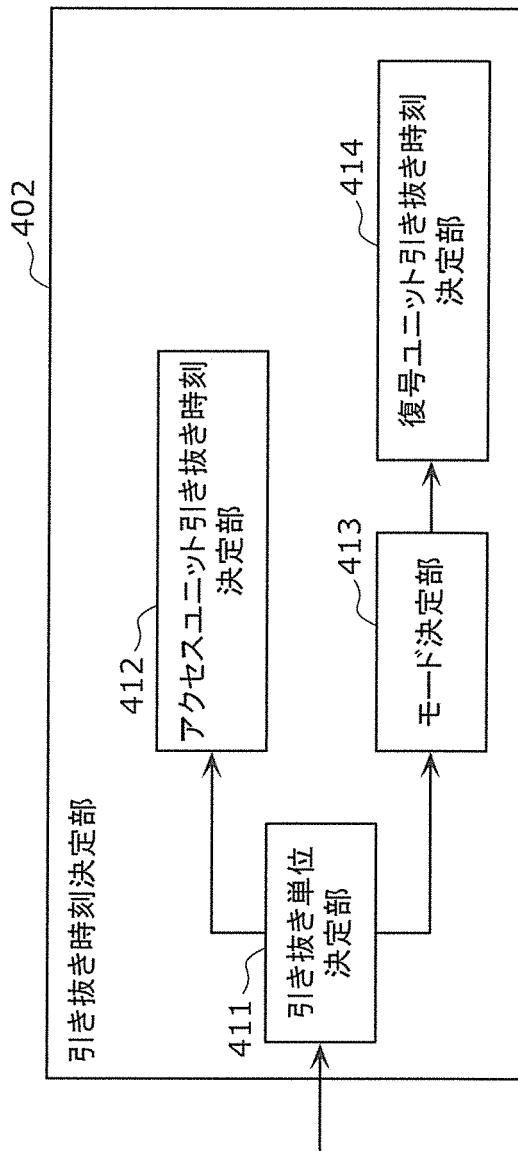
[図7B]



[図8A]



[図8B]

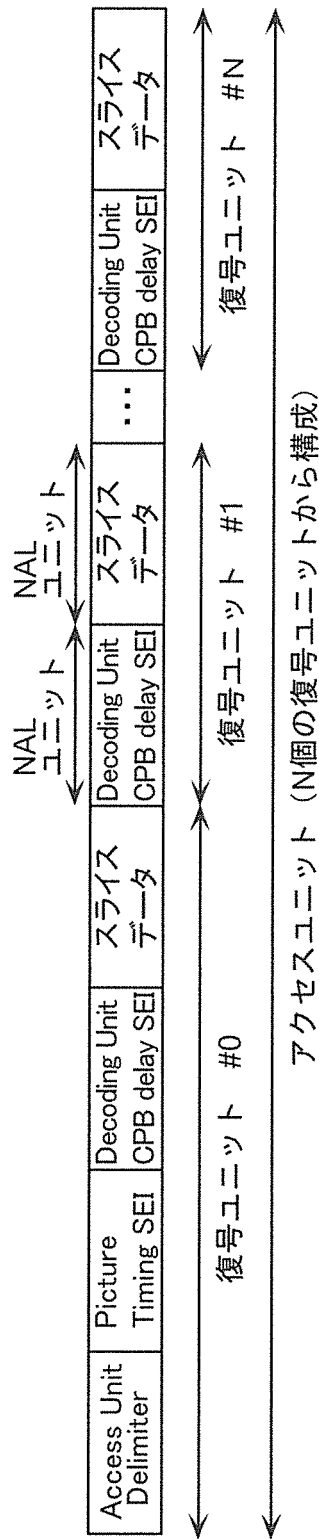


[図9]

Decoding Unit CPB delay SEI message syntax

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

[図10]



Access Unit Delimiter	Picture Timing SEI	Decoding Unit CPB delay SEI	スライスデータ	Decoding Unit Delimiter	Decoding Unit Delay SEI	スライスデータ	...	Decoding Unit Delimiter	Decoding Unit Delay SEI	スライスデータ
-----------------------	--------------------	-----------------------------	---------	-------------------------	-------------------------	---------	-----	-------------------------	-------------------------	---------

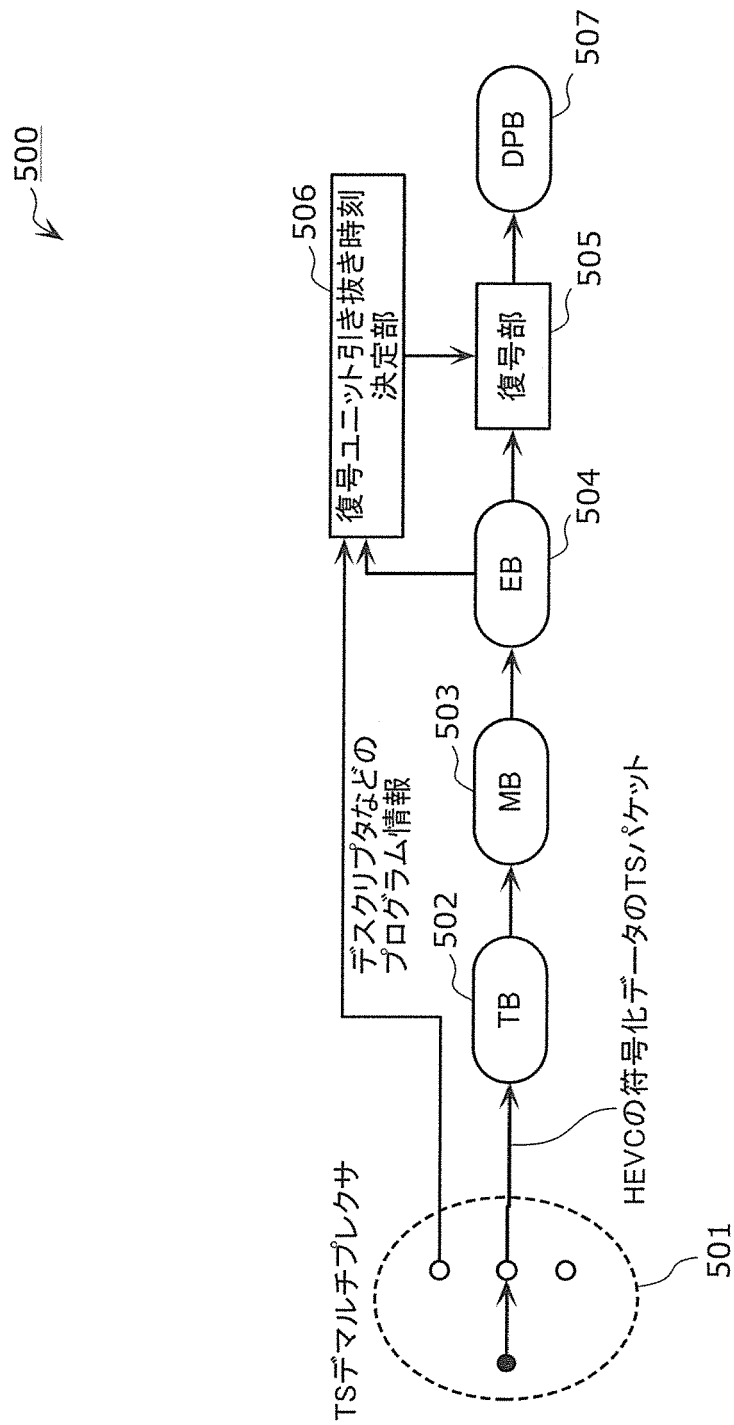
復号ユニット #0 復号ユニット #1 復号ユニット #N

アクセスユニット (N個の復号ユニットから構成)

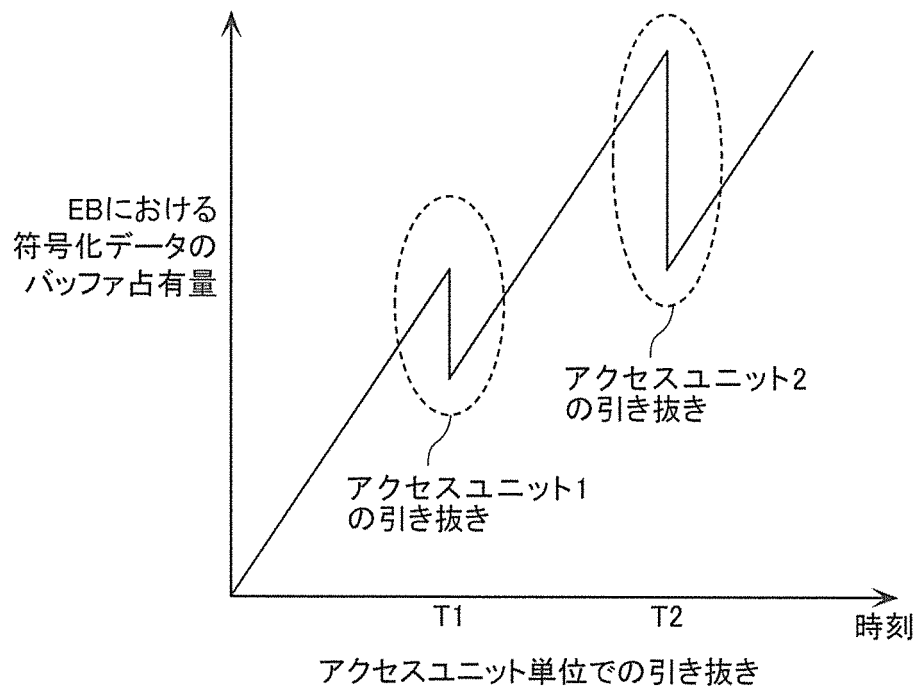
[図12]

```
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  
}  
}
```

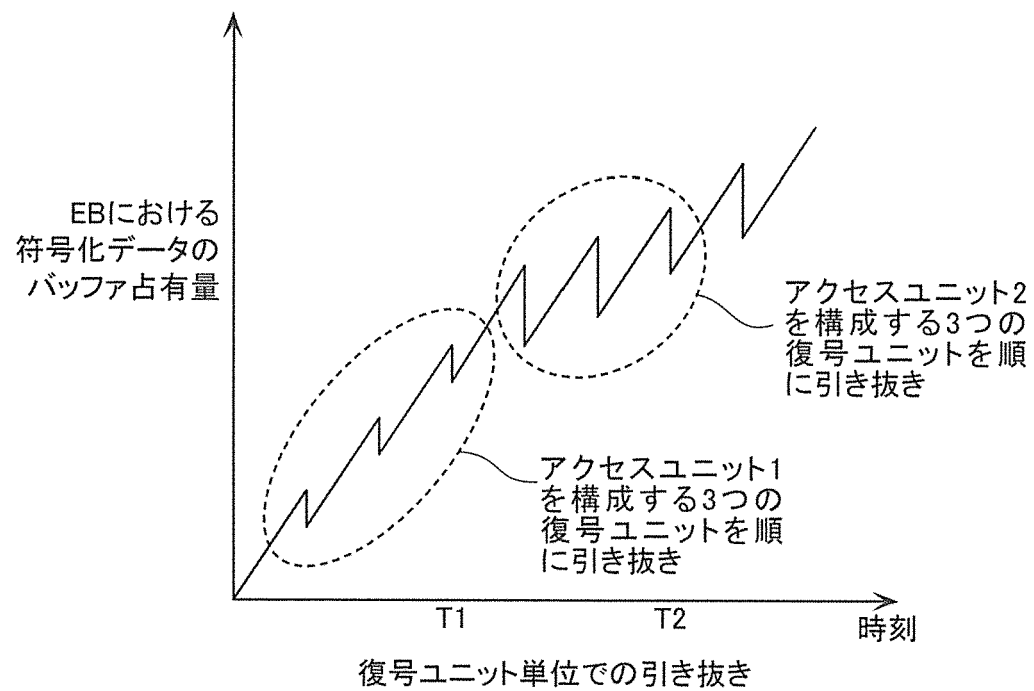
[図13]



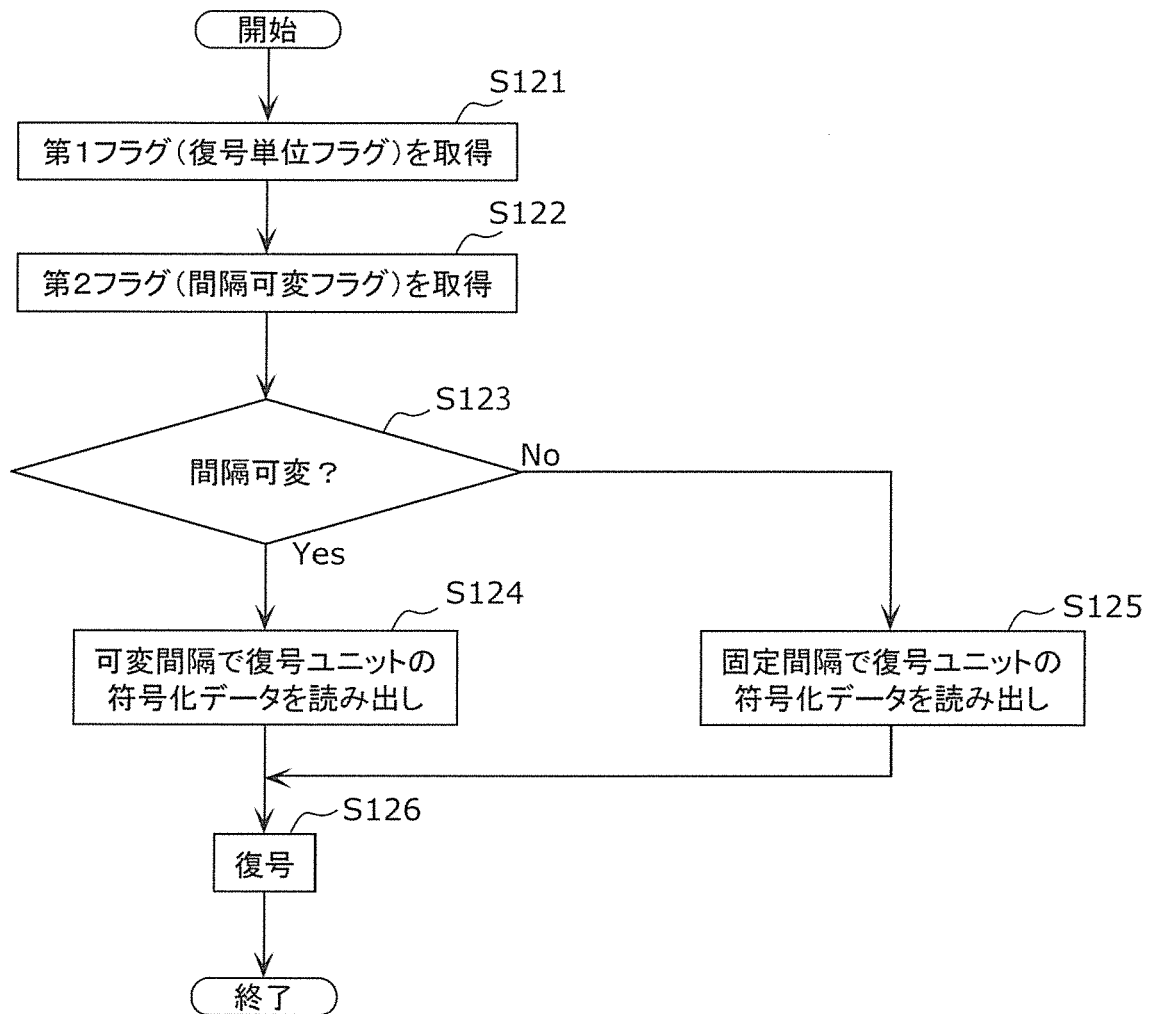
[図14A]



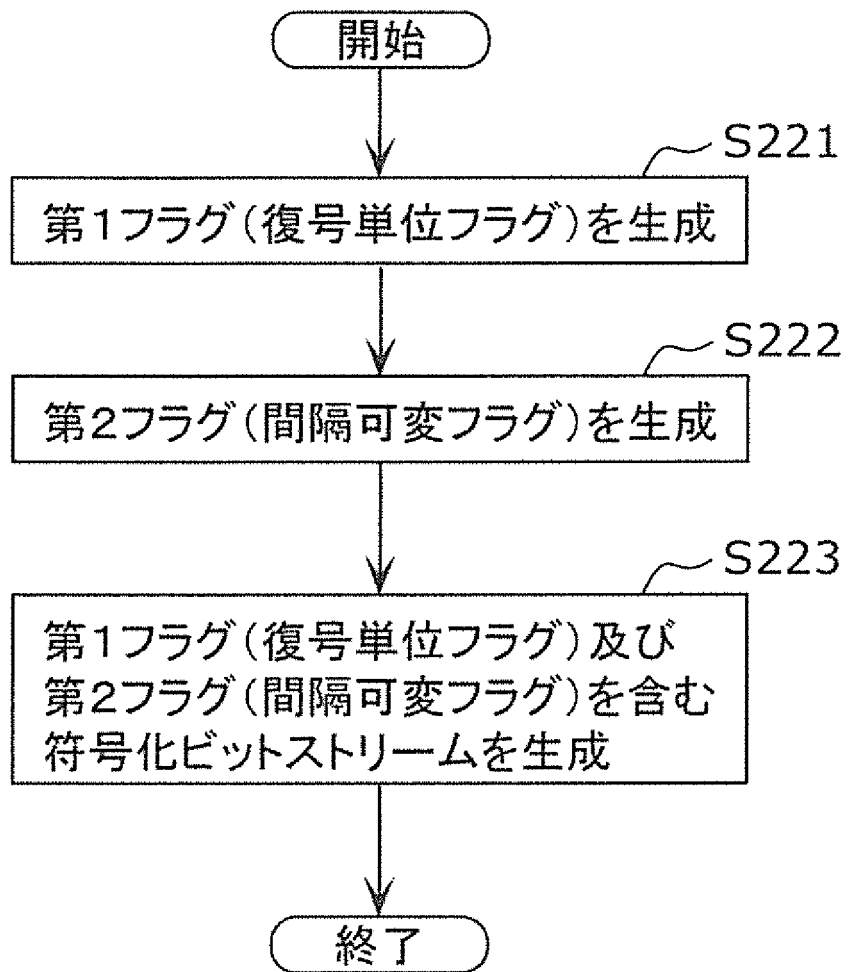
[図14B]



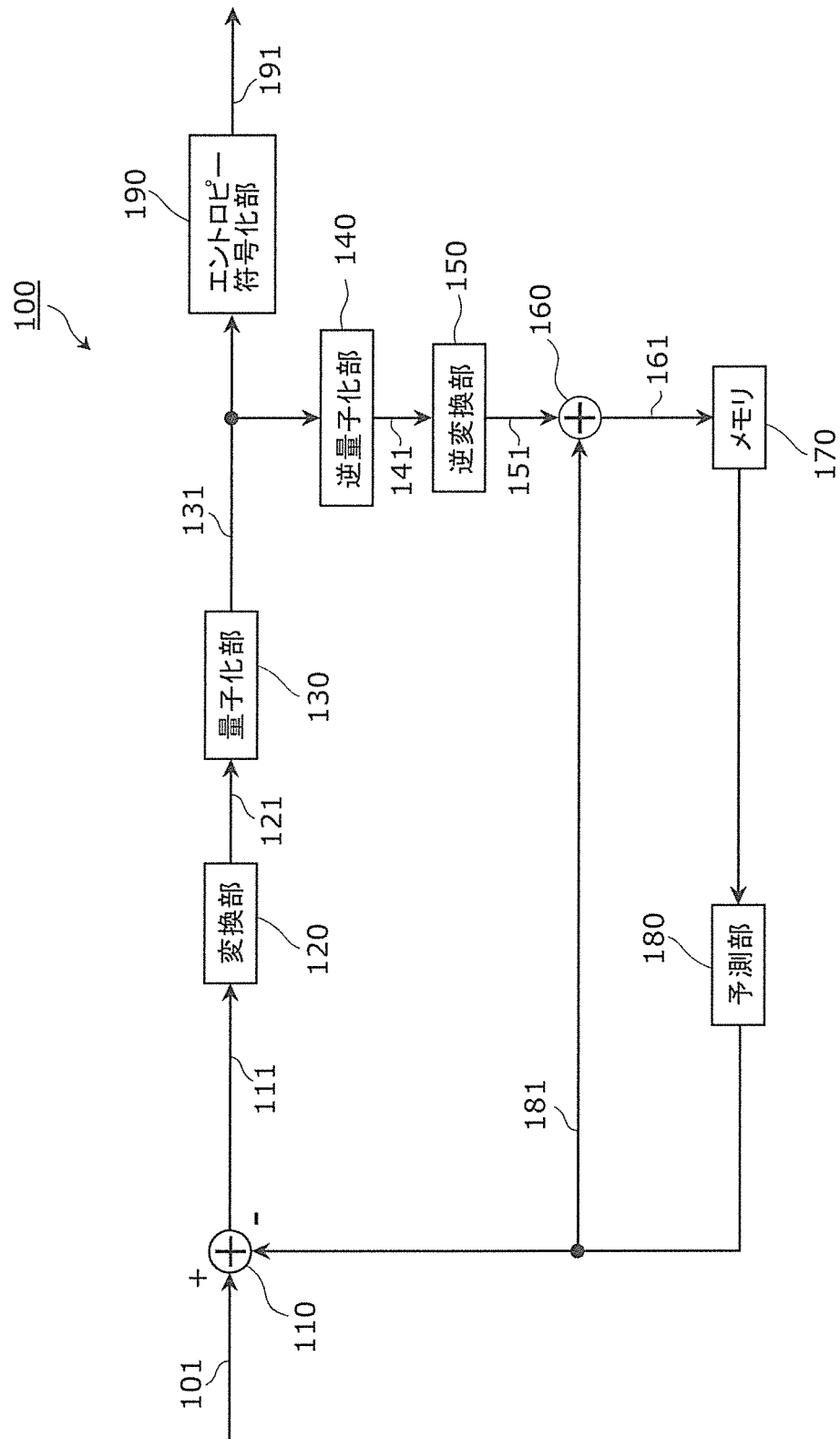
[図15]



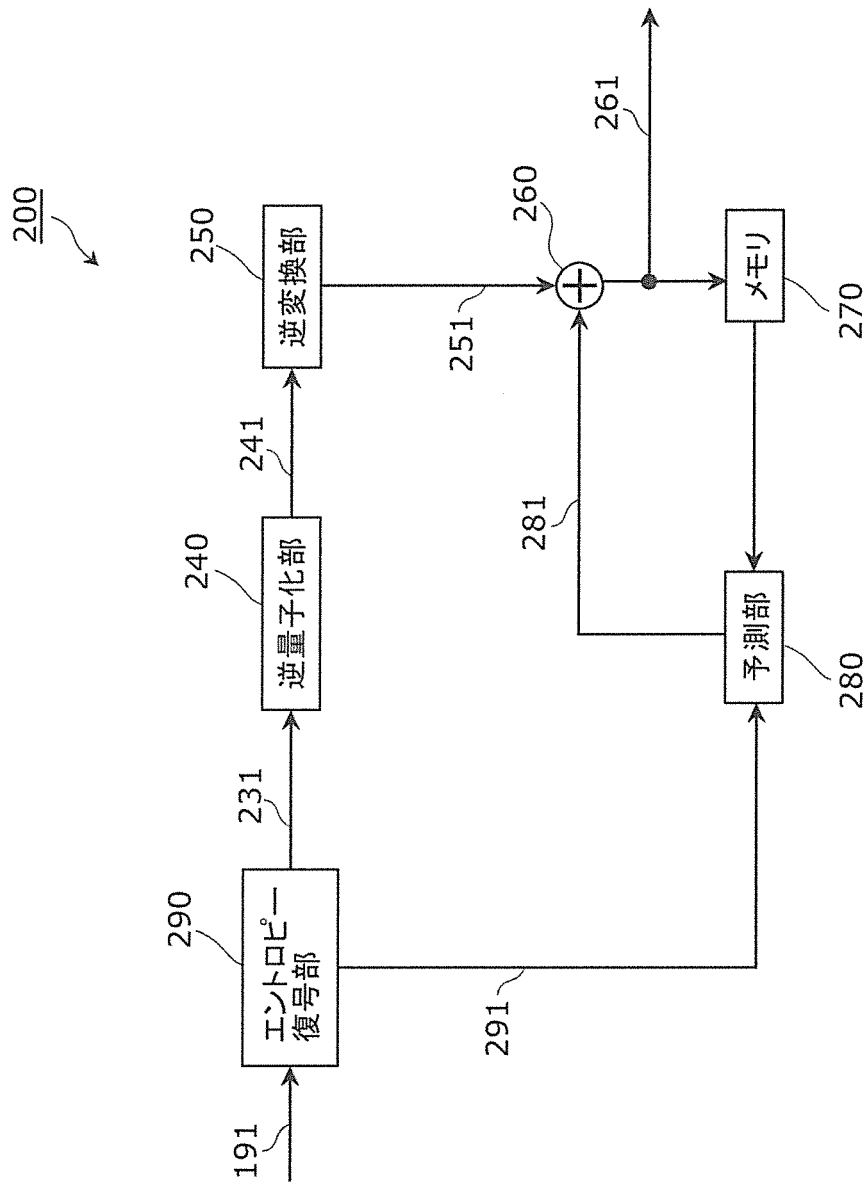
[図16]



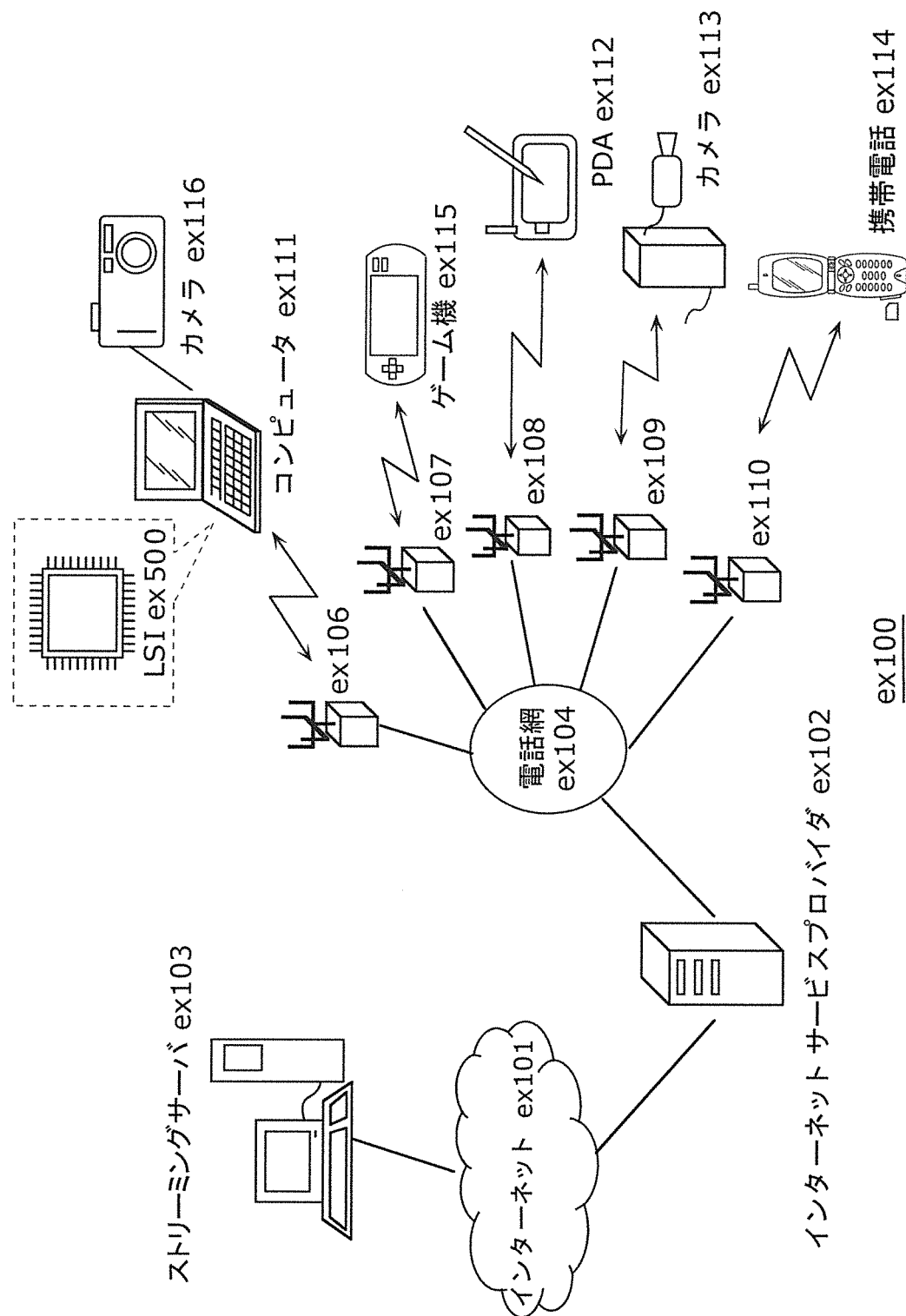
[図17]



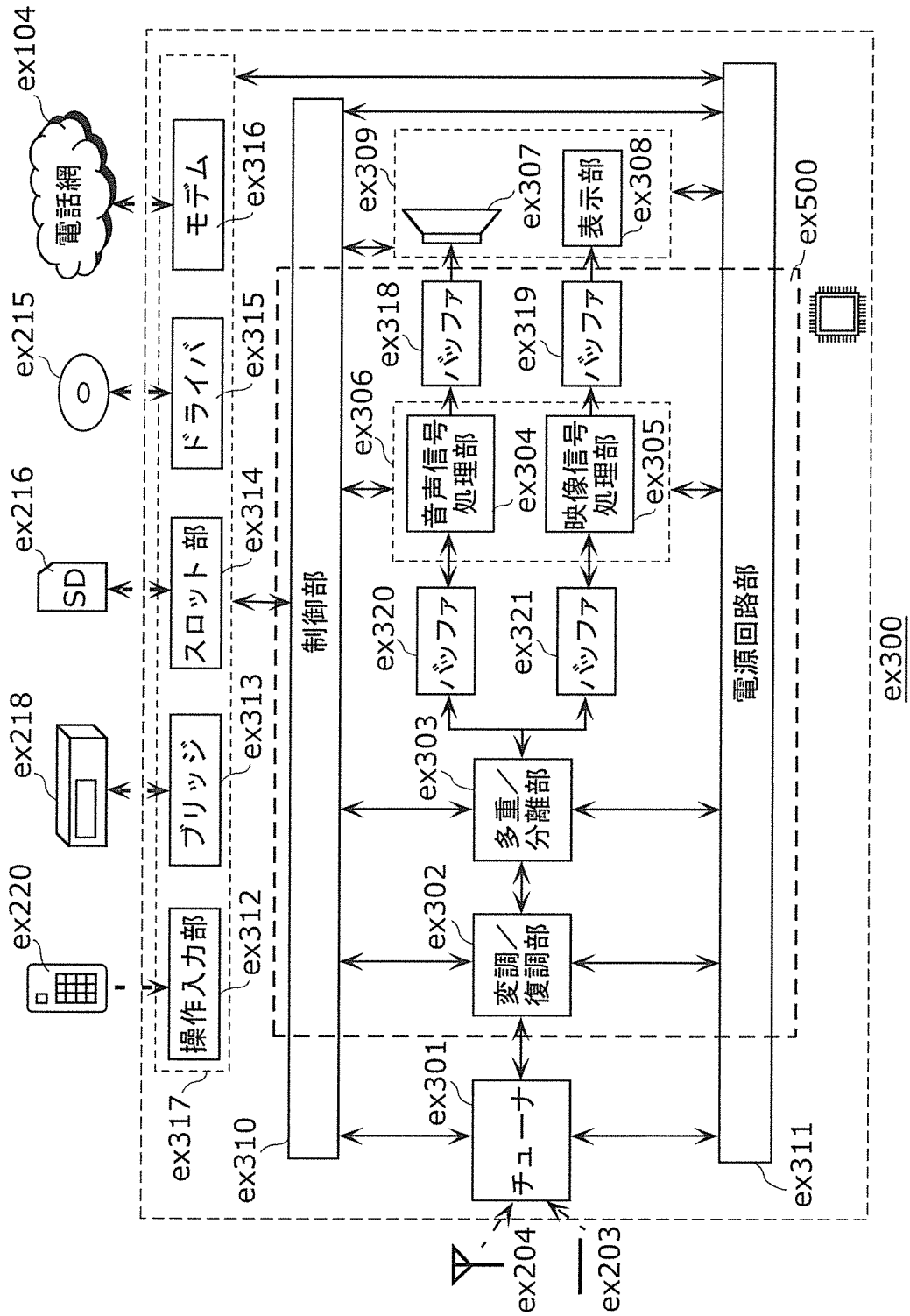
[図18]



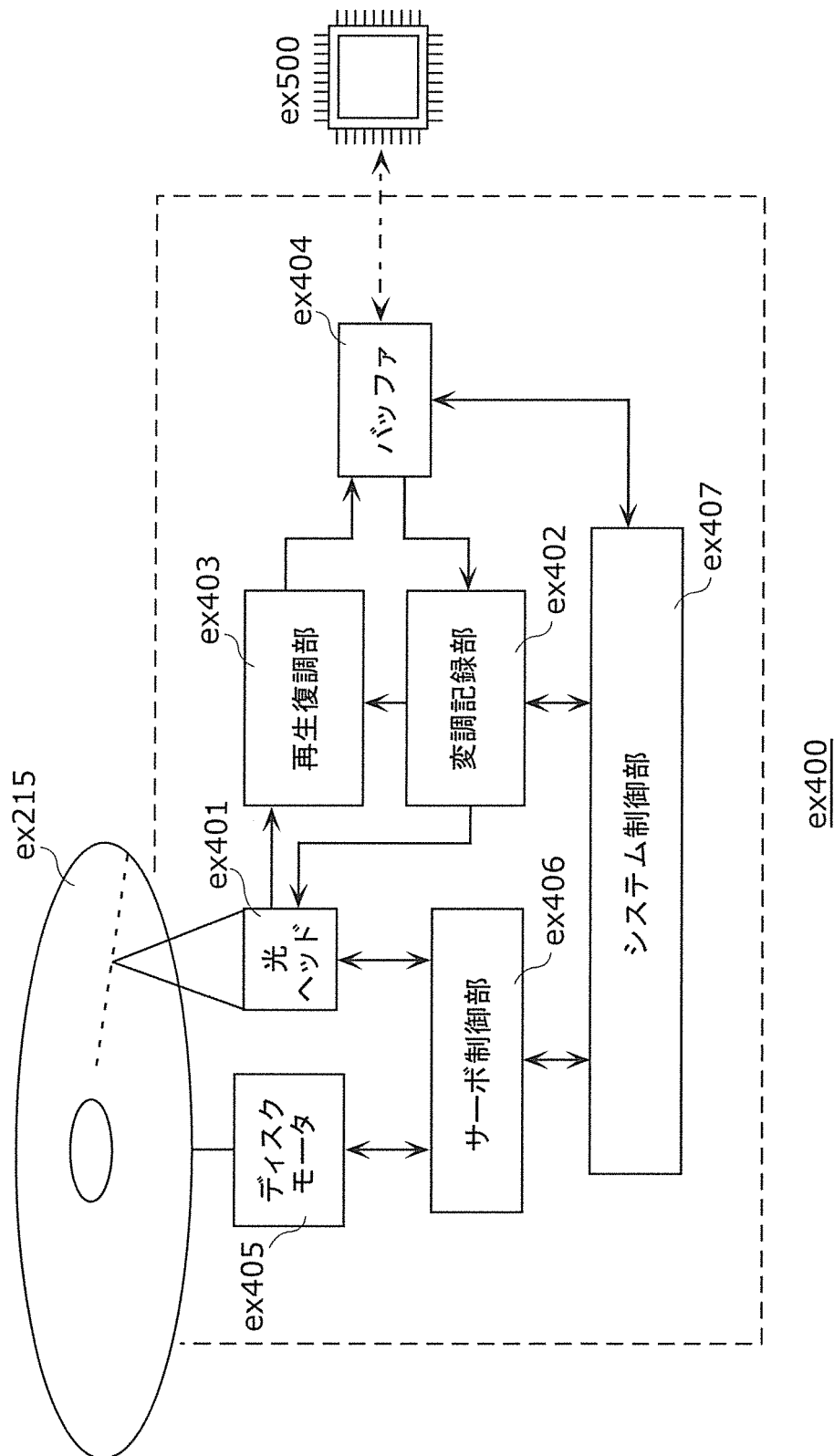
[図19]



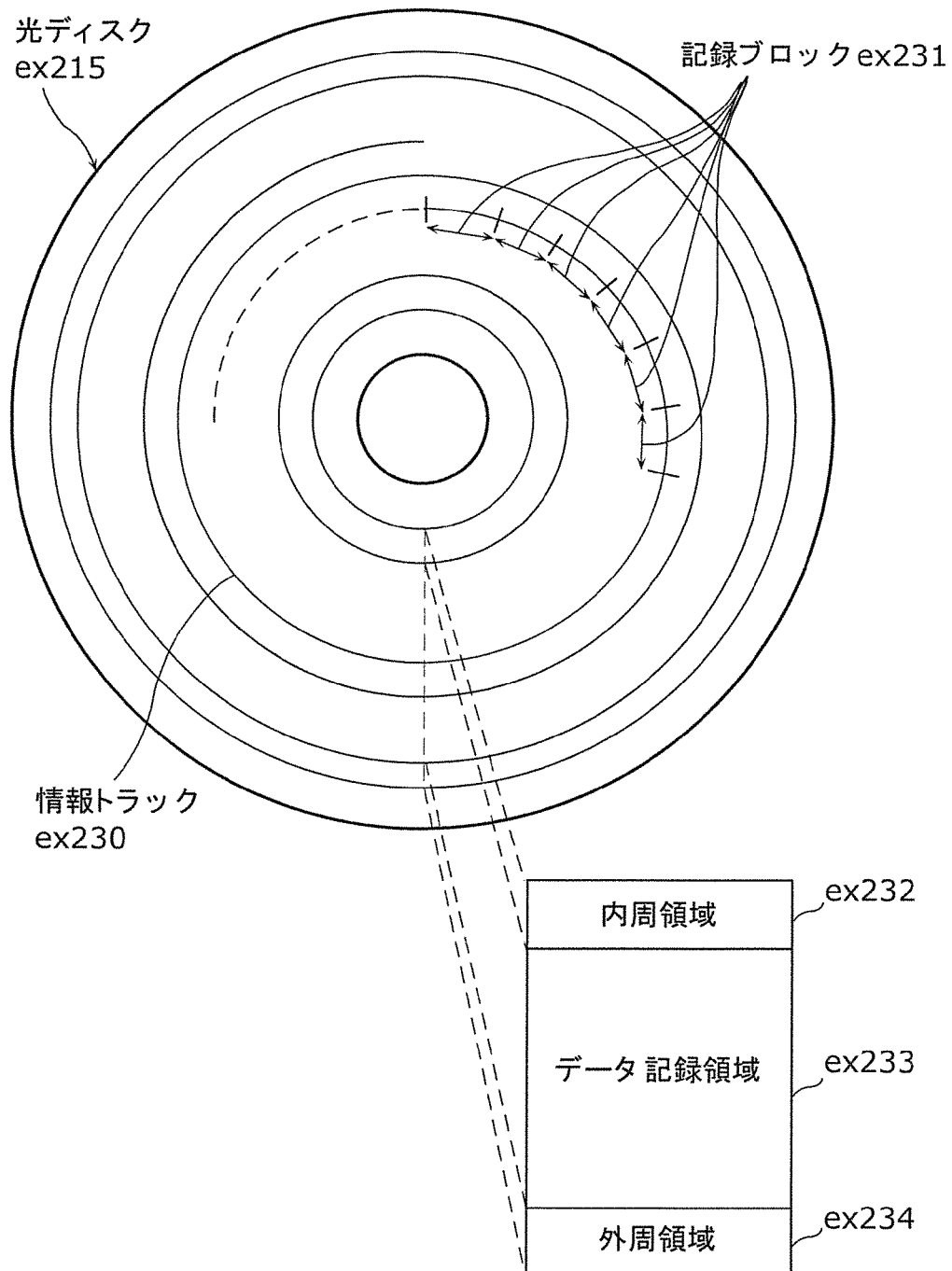
[図21]



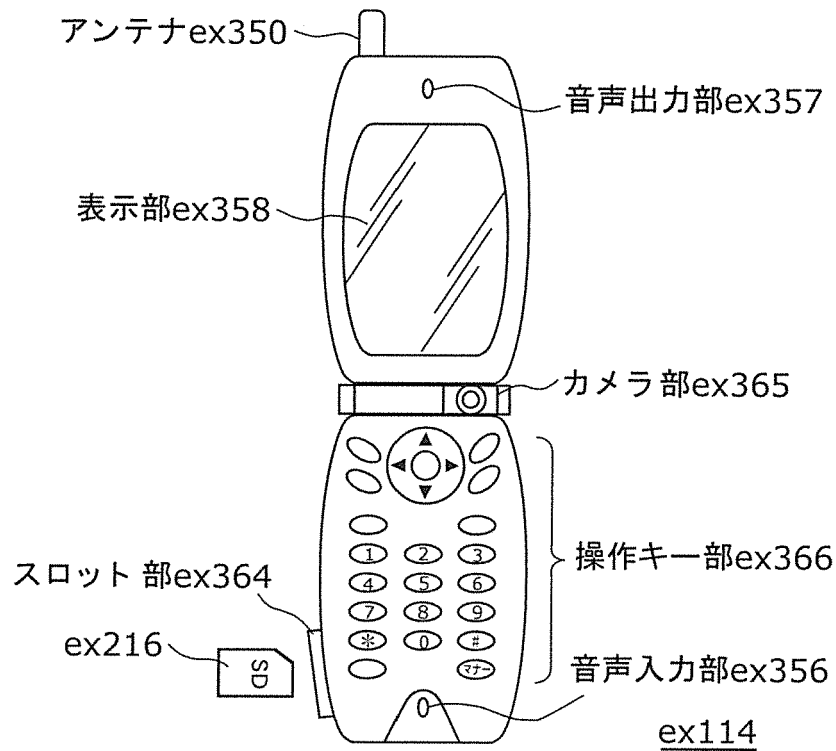
[図22]



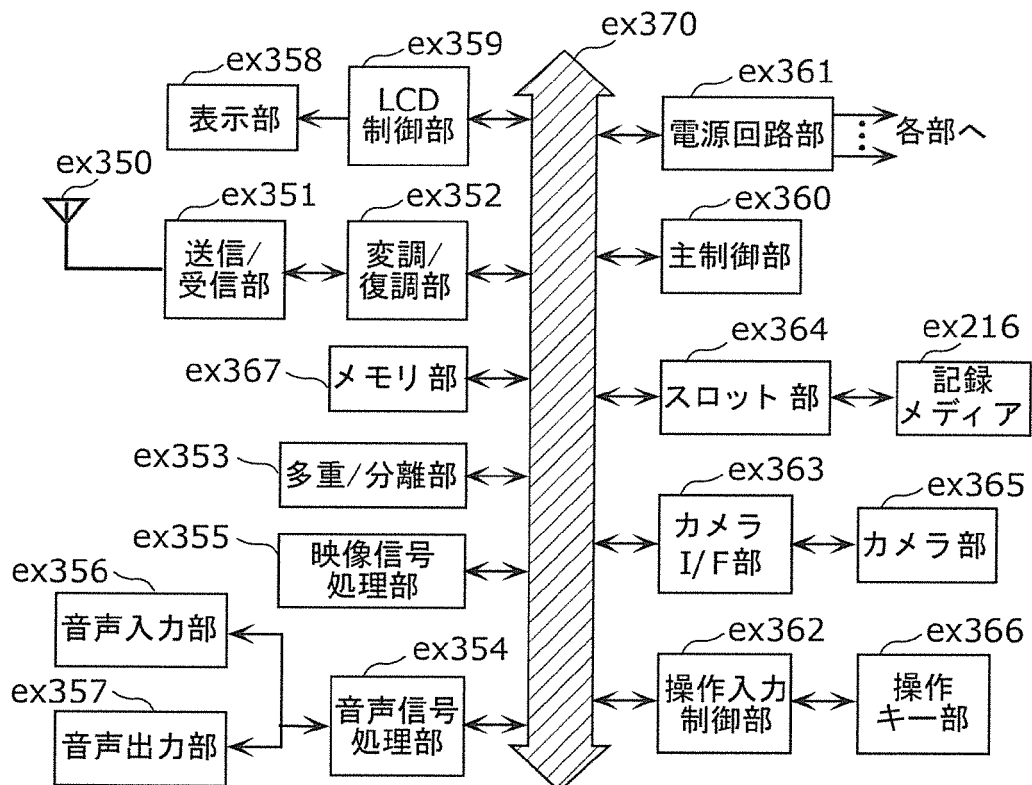
[図23]



[図24A]



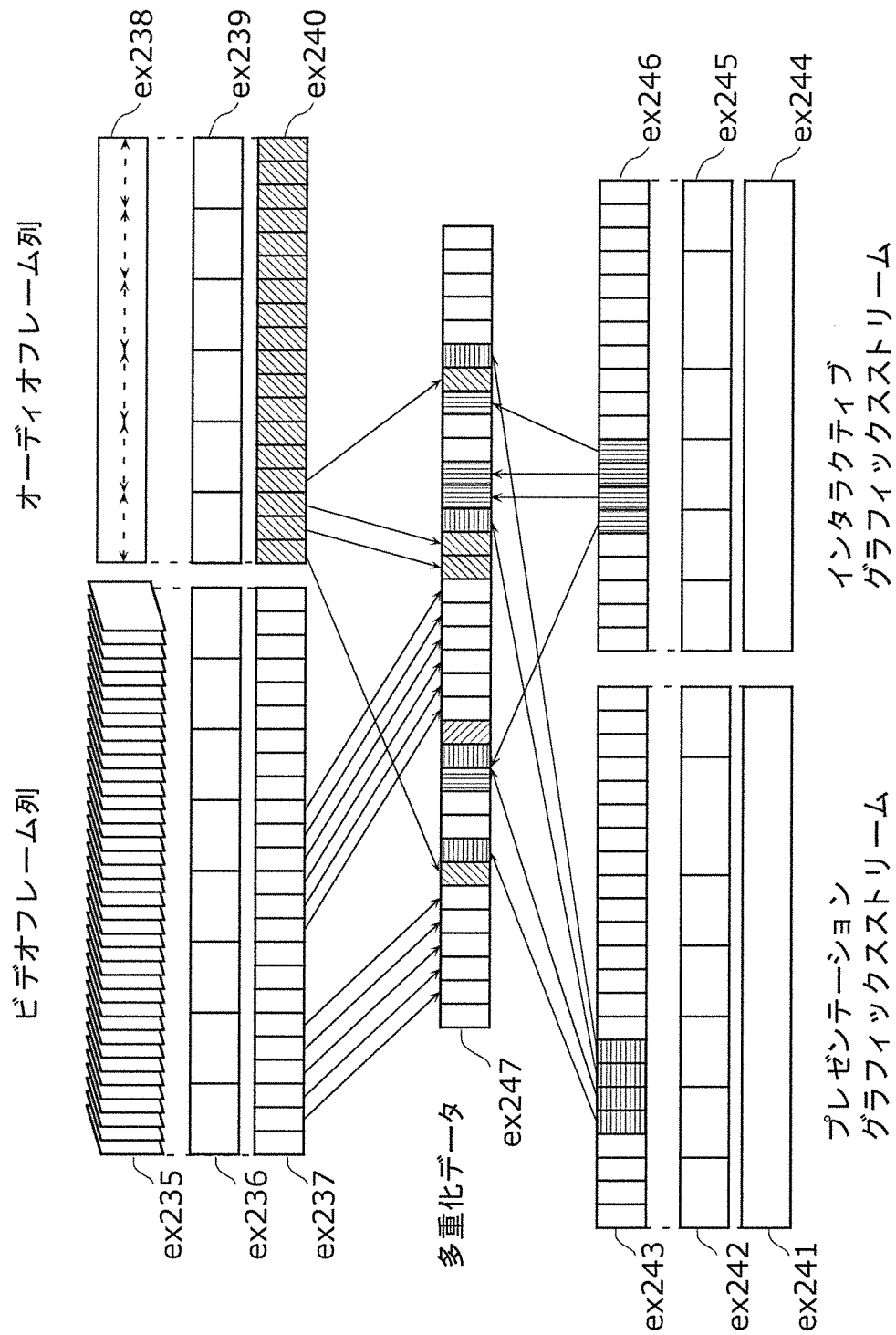
[図24B]



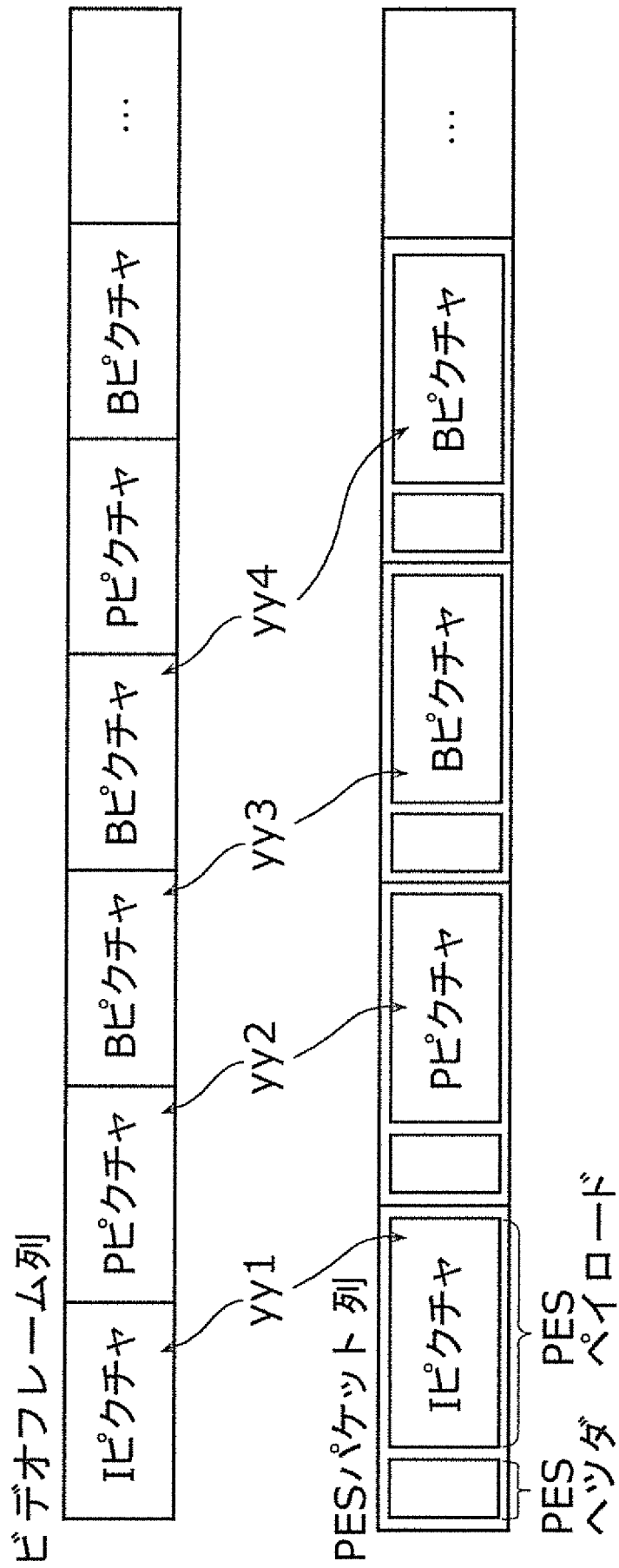
[図25]

ビデオストリーム(PID=0x1011 主映像)
オーディオストリーム(PID=0x1100)
オーディオストリーム(PID=0x1101)
プレゼンテーショングラフィックスストリーム(PID=0x1200)
プレゼンテーショングラフィックスストリーム(PID=0x1201)
インタラクティブグラフィックスストリーム(PID=0x1400)
ビデオストリーム(PID=0x1B00 副映像)
ビデオストリーム(PID=0x1B01 副映像)

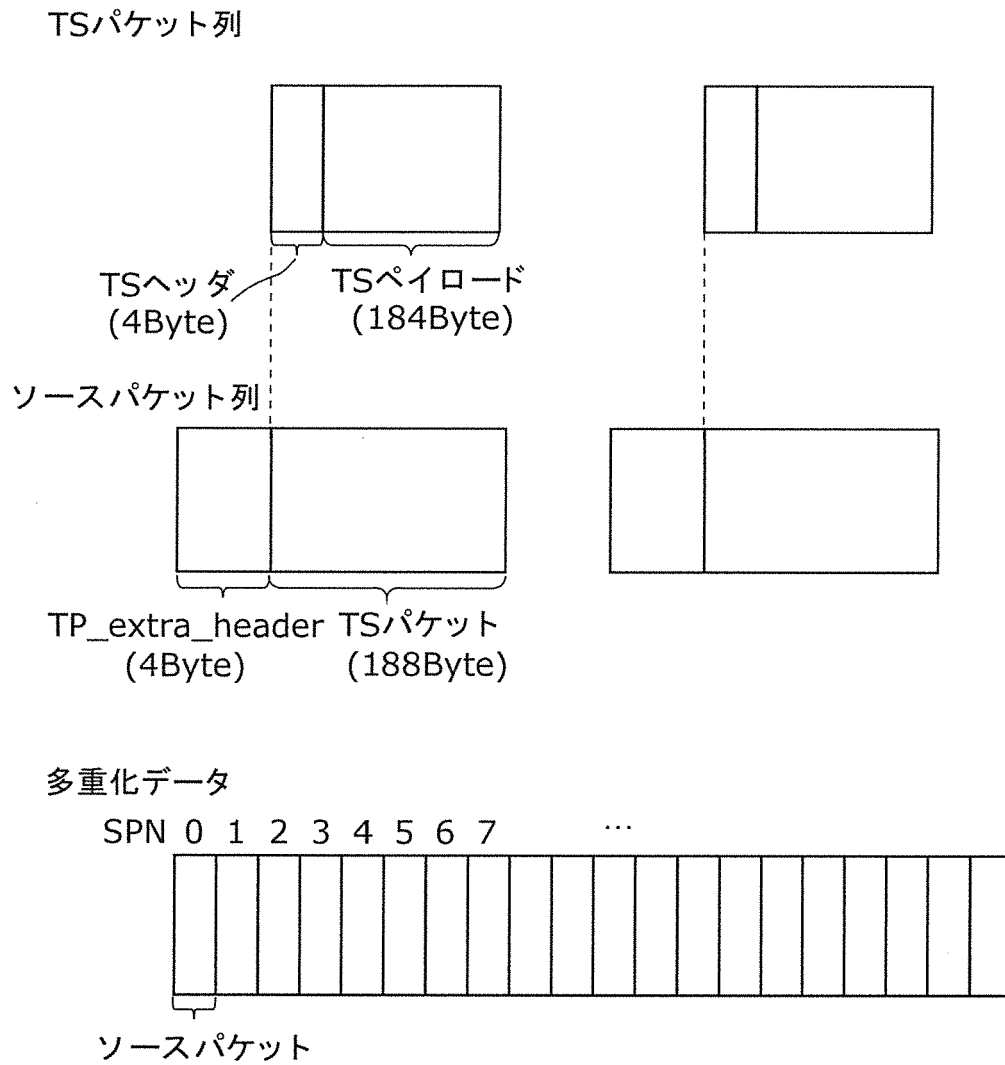
[図26]



[図27]

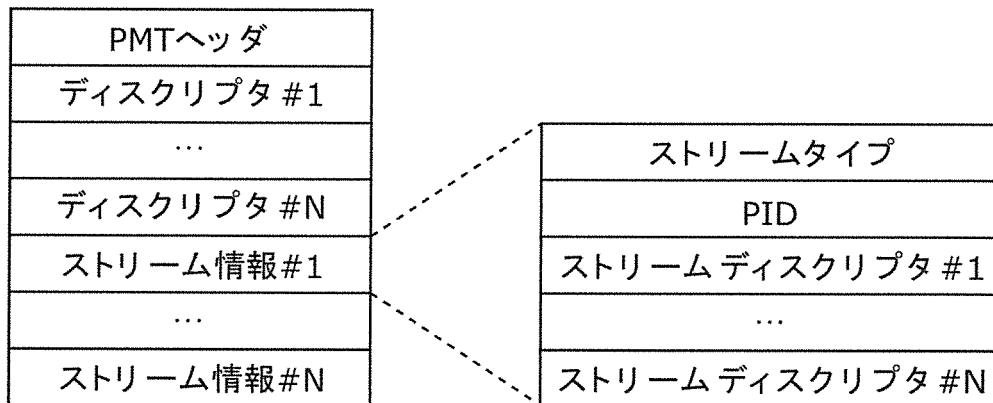


[図28]

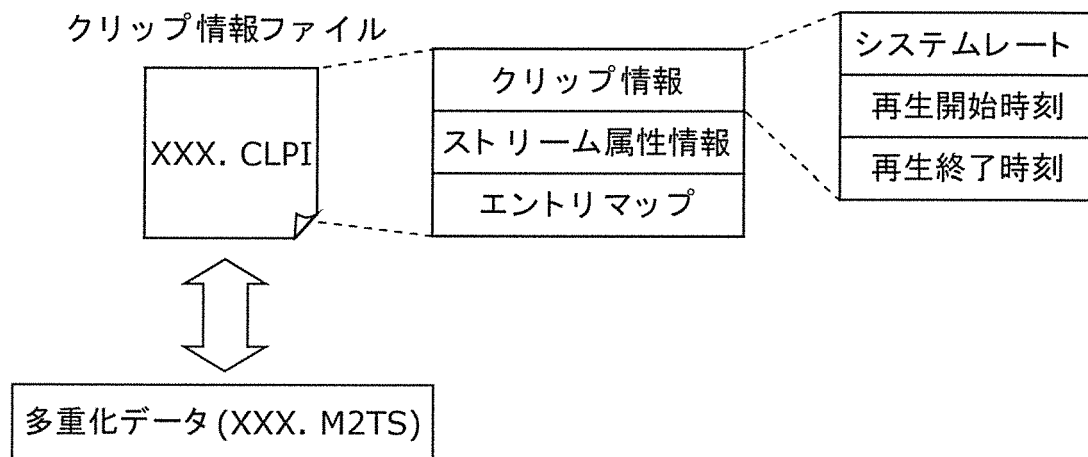


[図29]

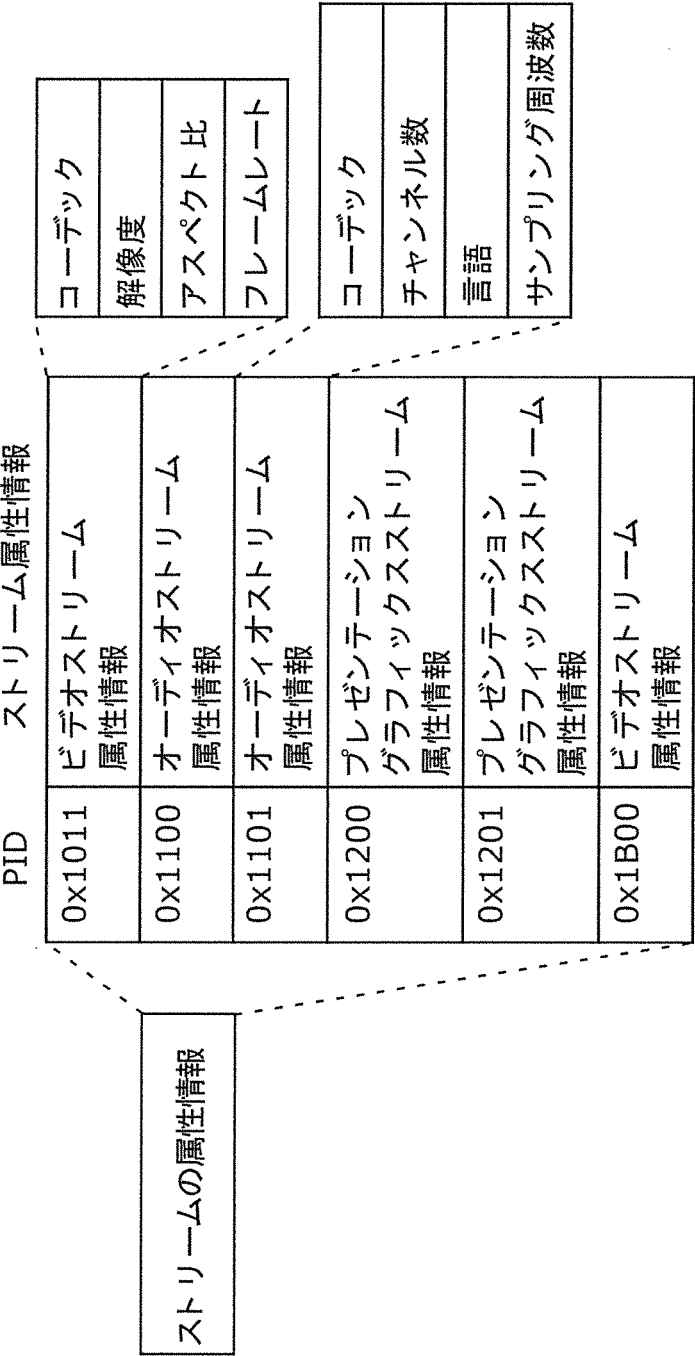
PMTのデータ構造



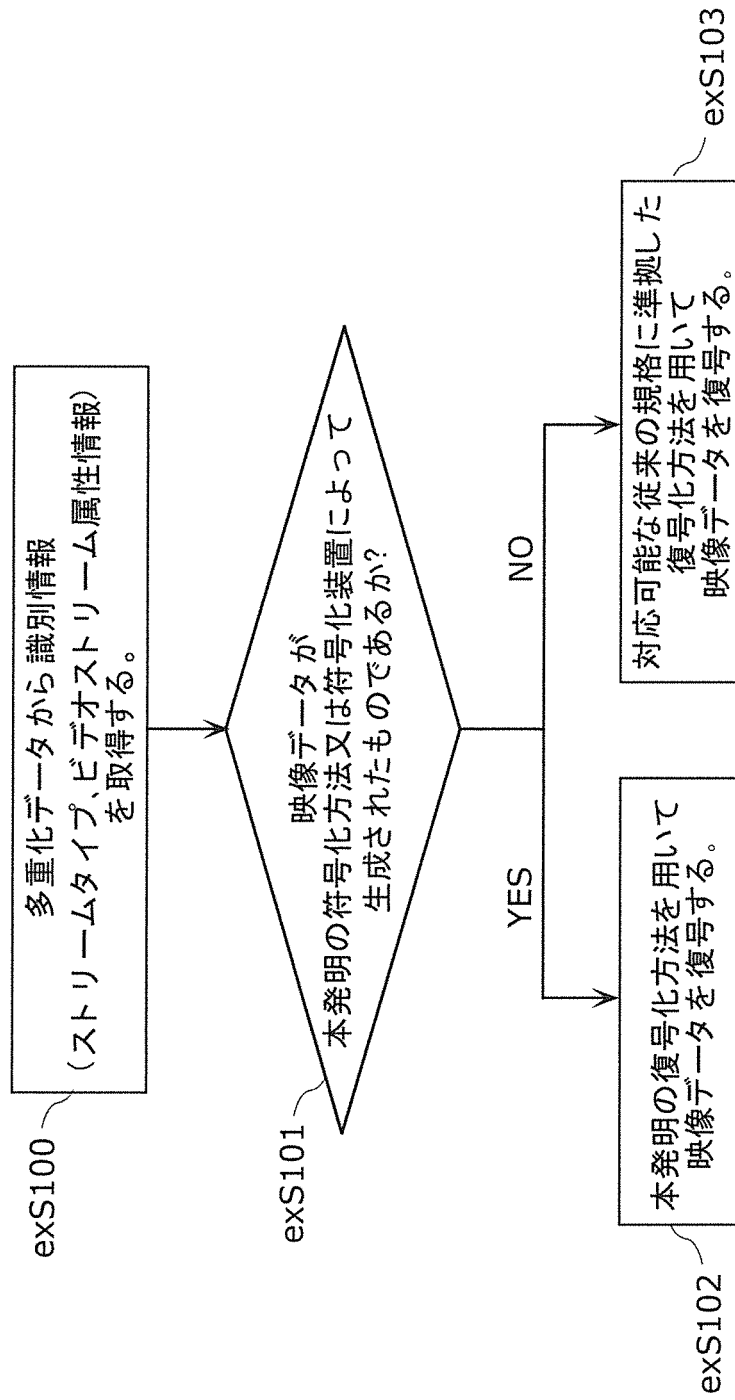
[図30]



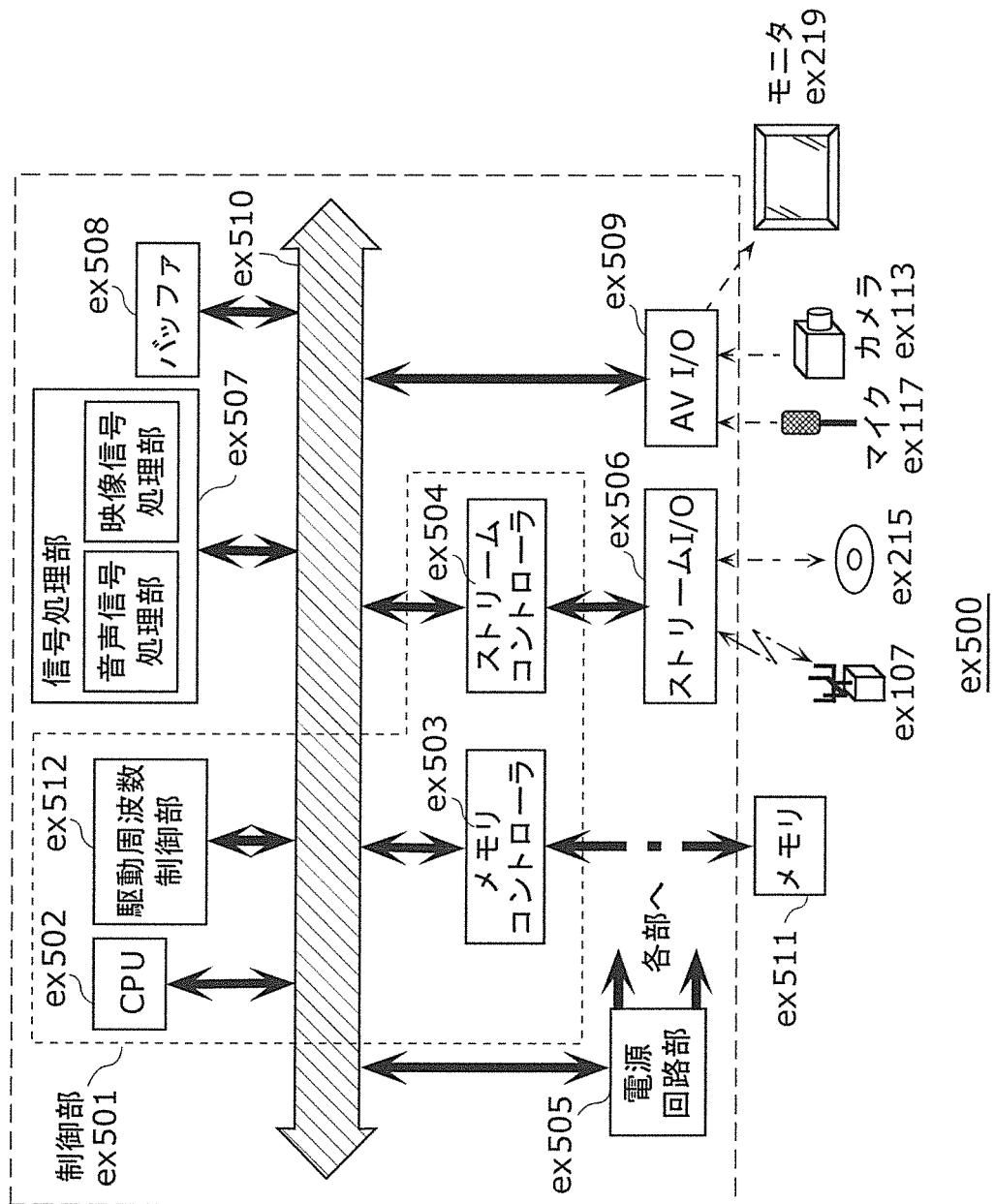
[図31]



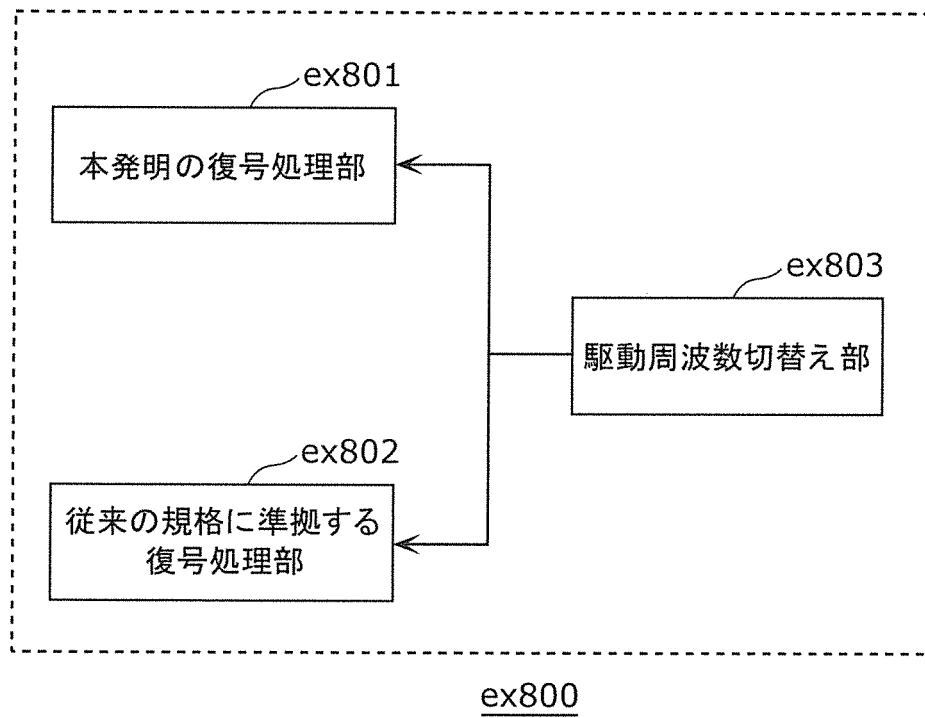
[図32]



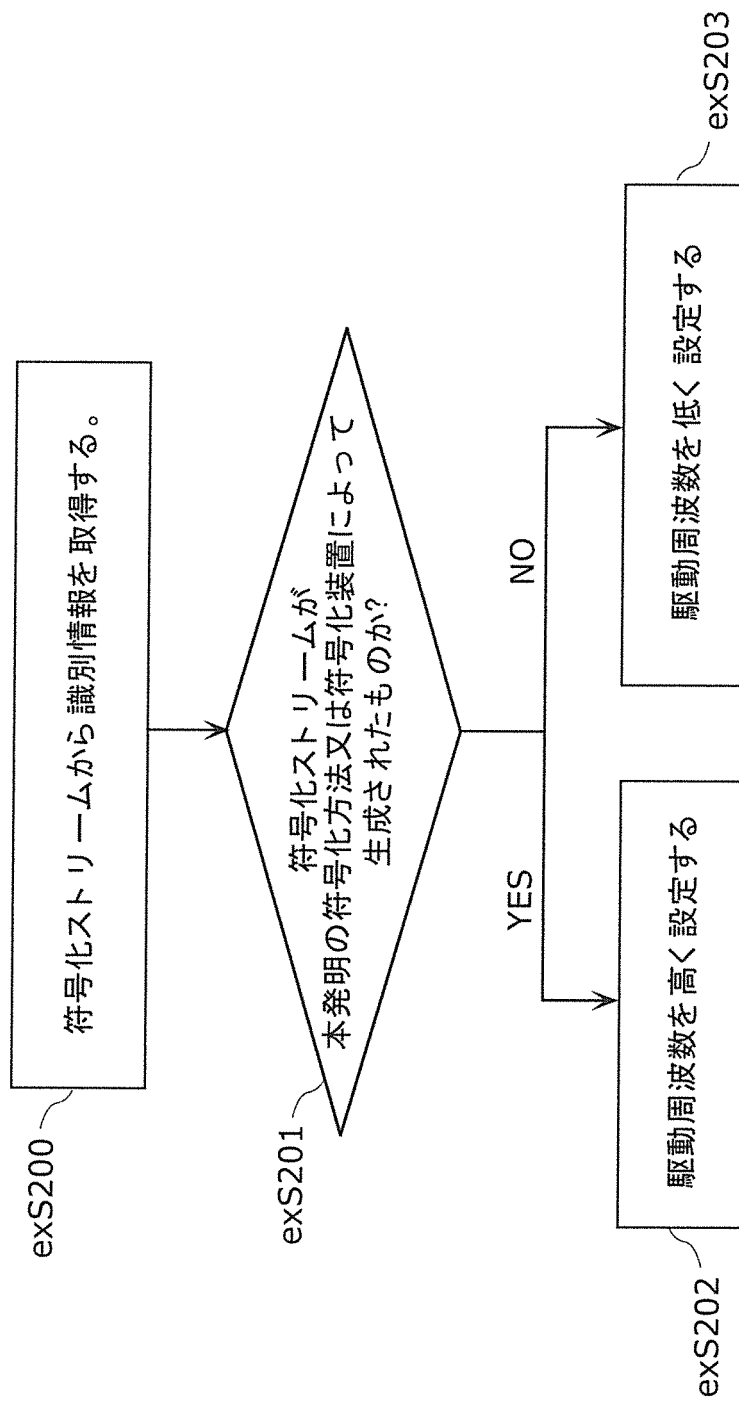
[図33]



[図34]



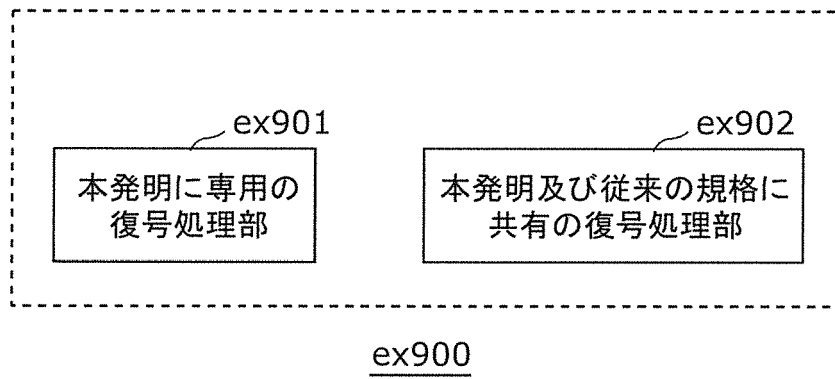
[図35]



[図36]

対応規格	駆動周波数
MPEG4.AVC	500MHz
MPEG2	350MHz
...	...

[図37A]



[図37B]

