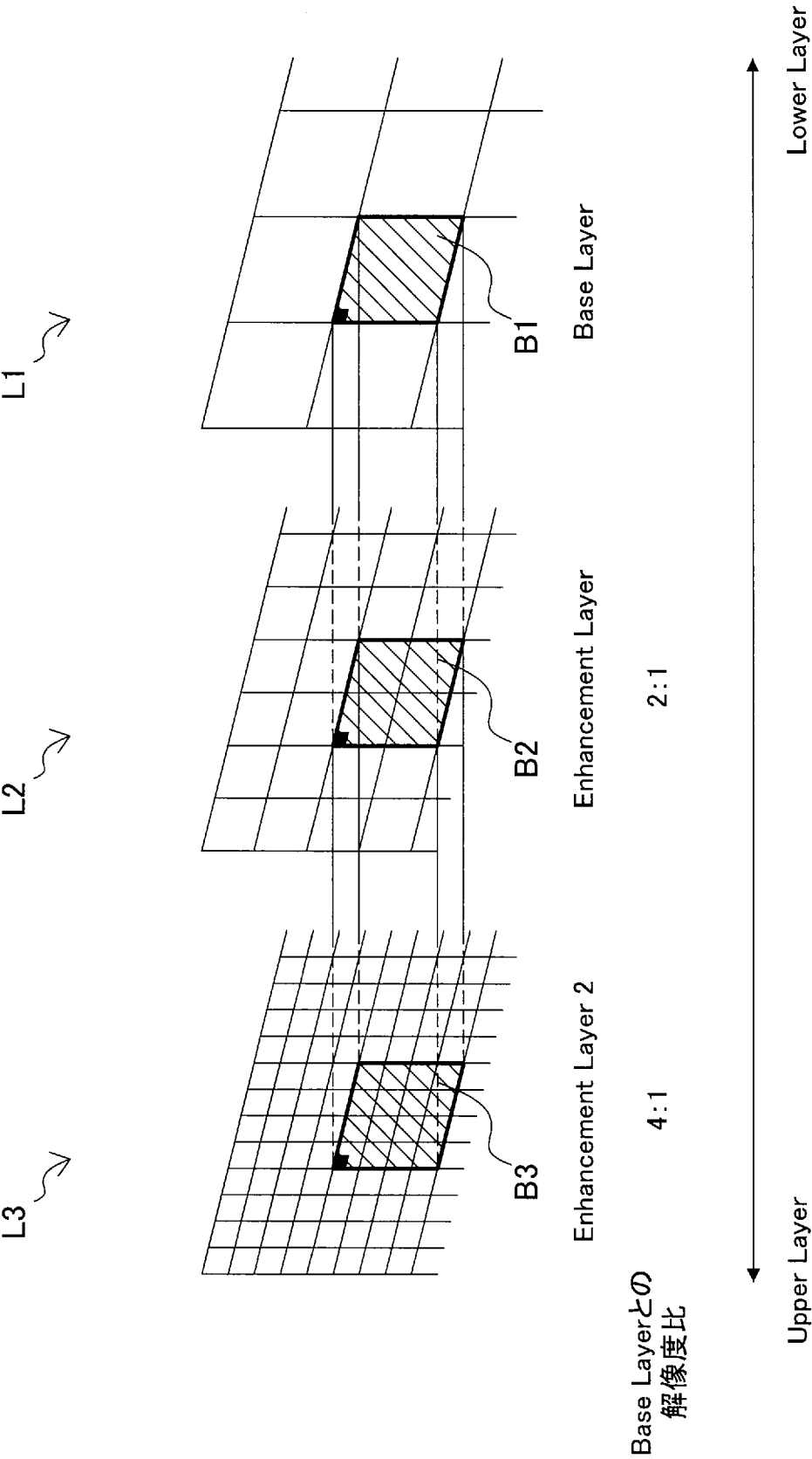
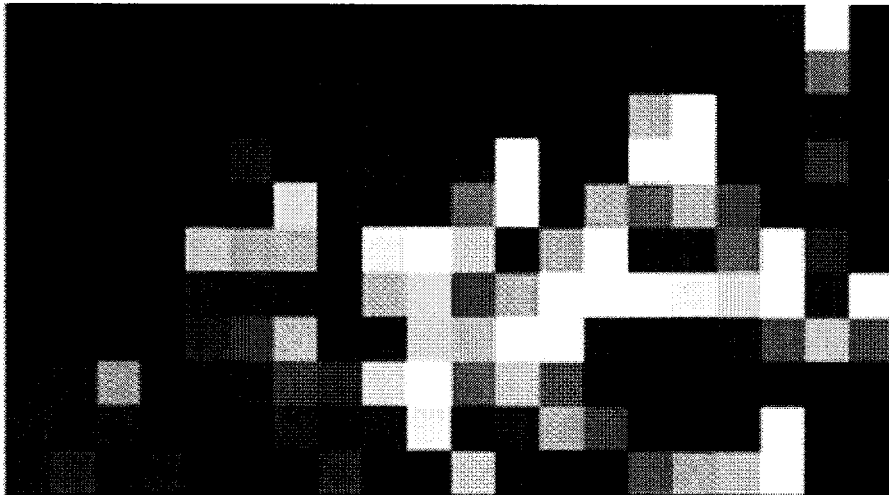


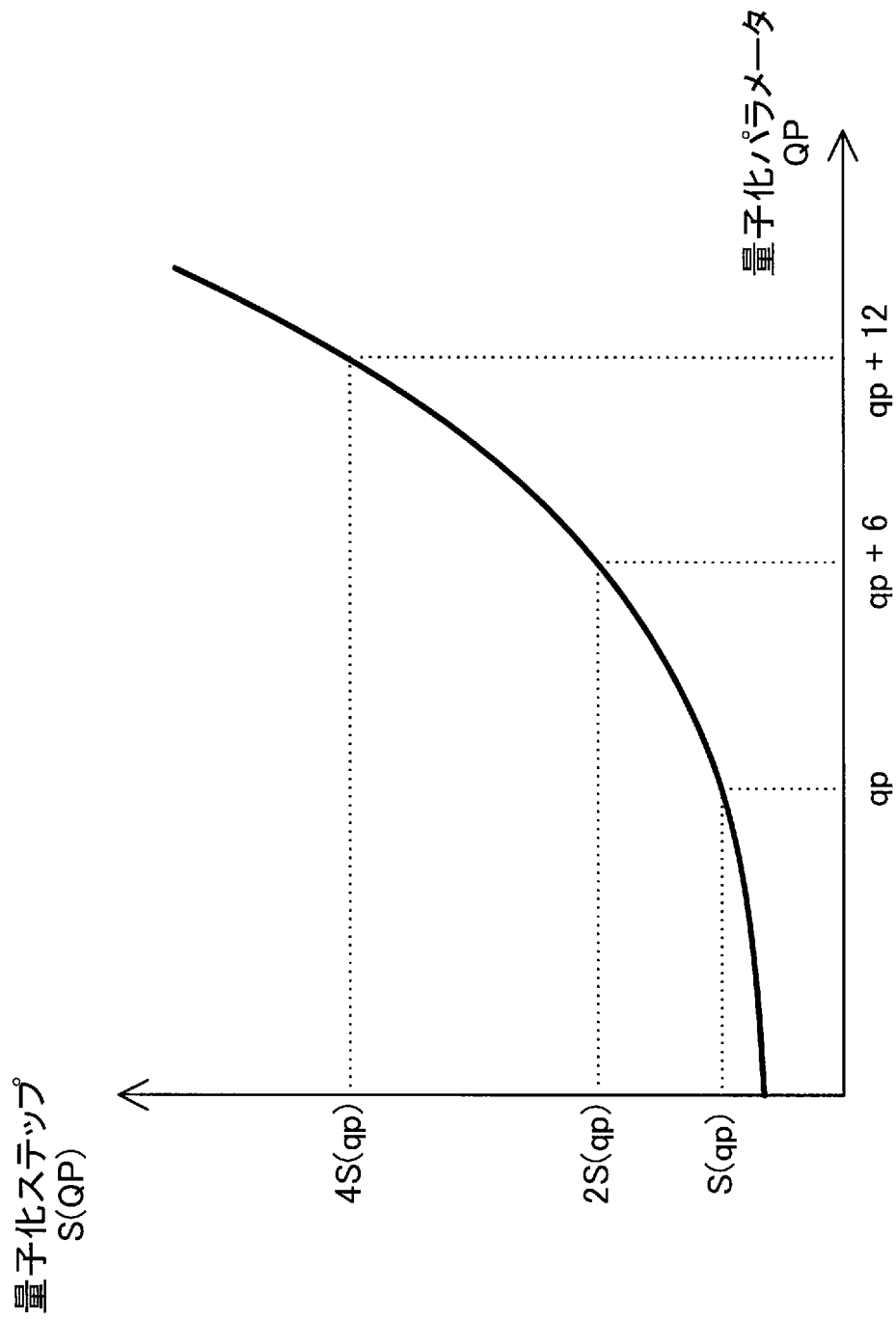
[図1]



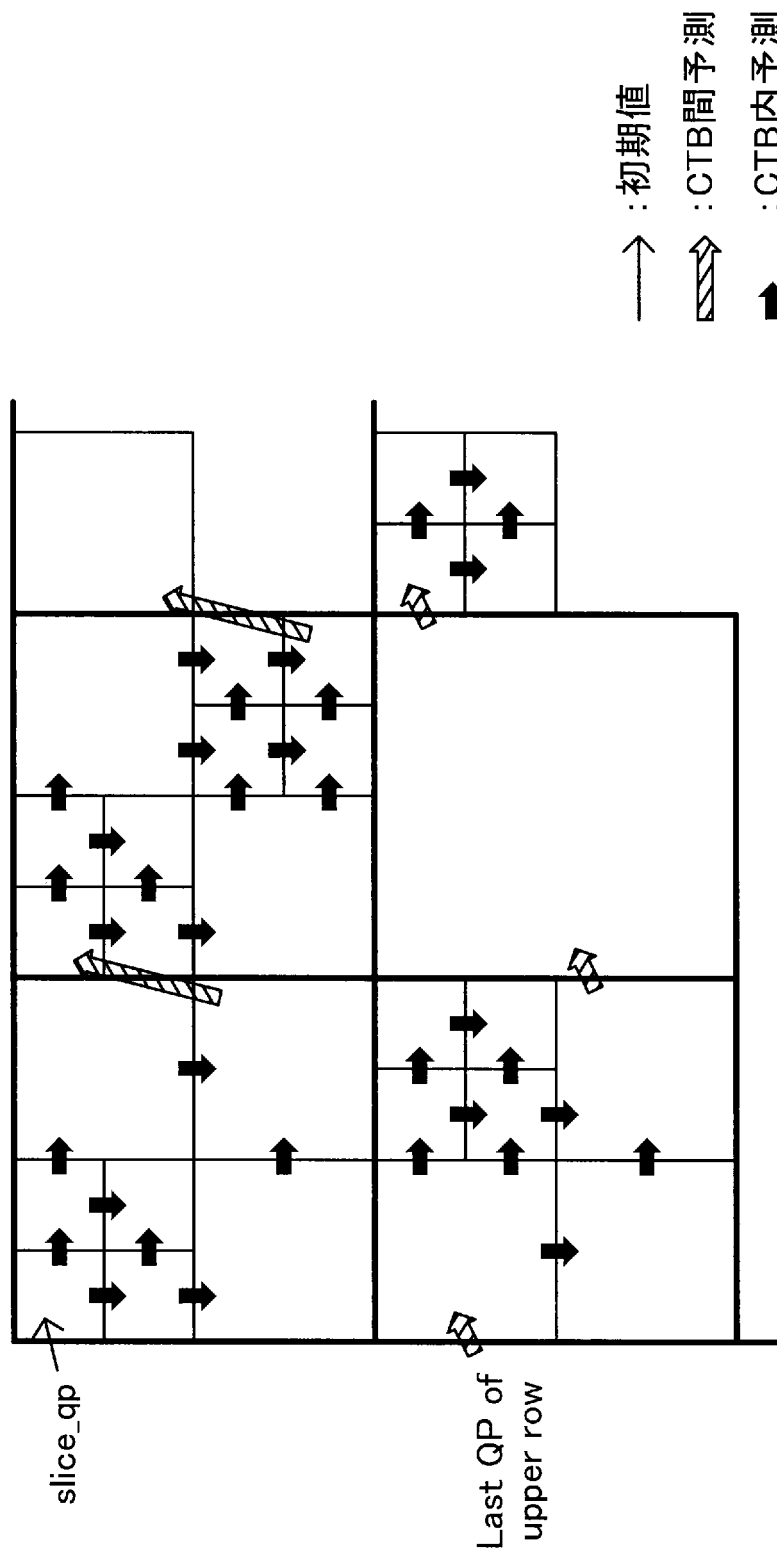
[図2]

Original
ImageActivity
(64 x 64)Activity
(16 x 16)

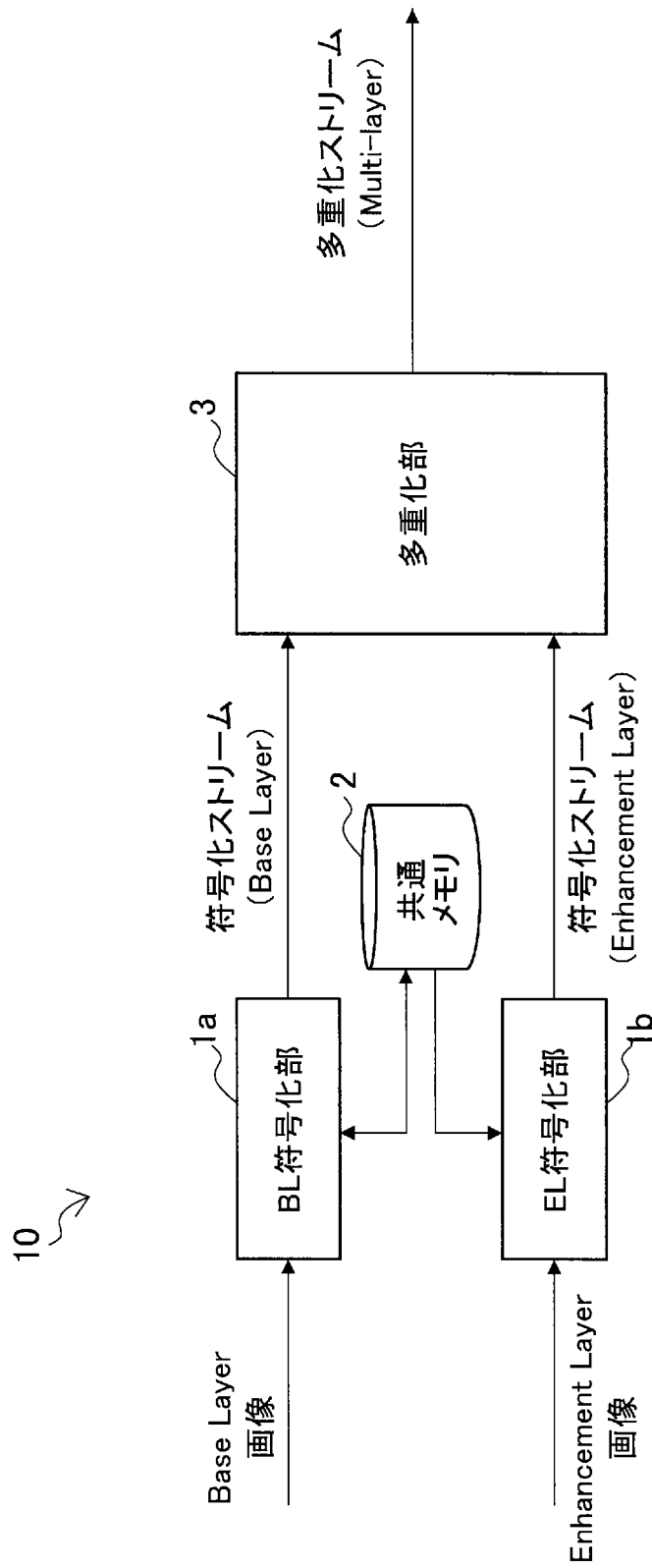
[図3]



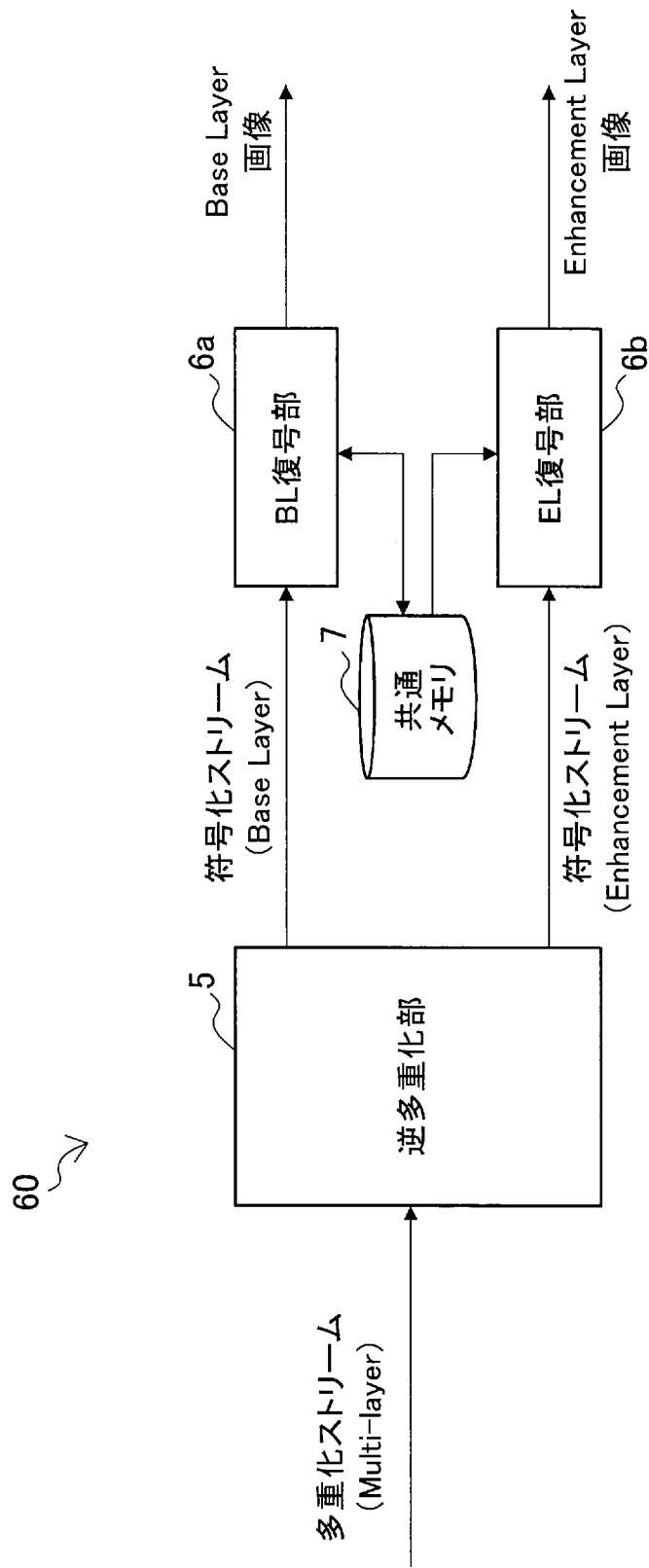
[図4]



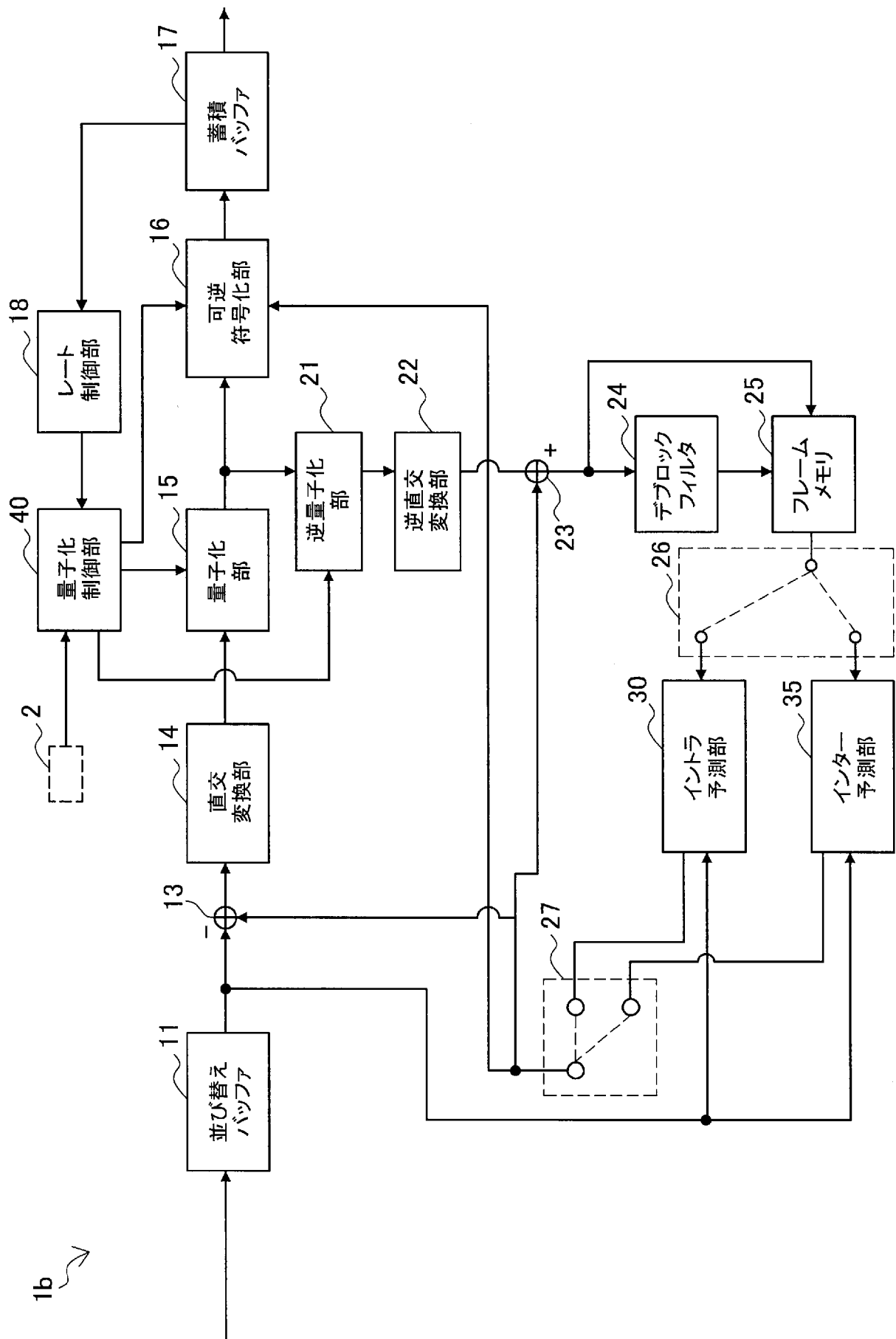
[図5]



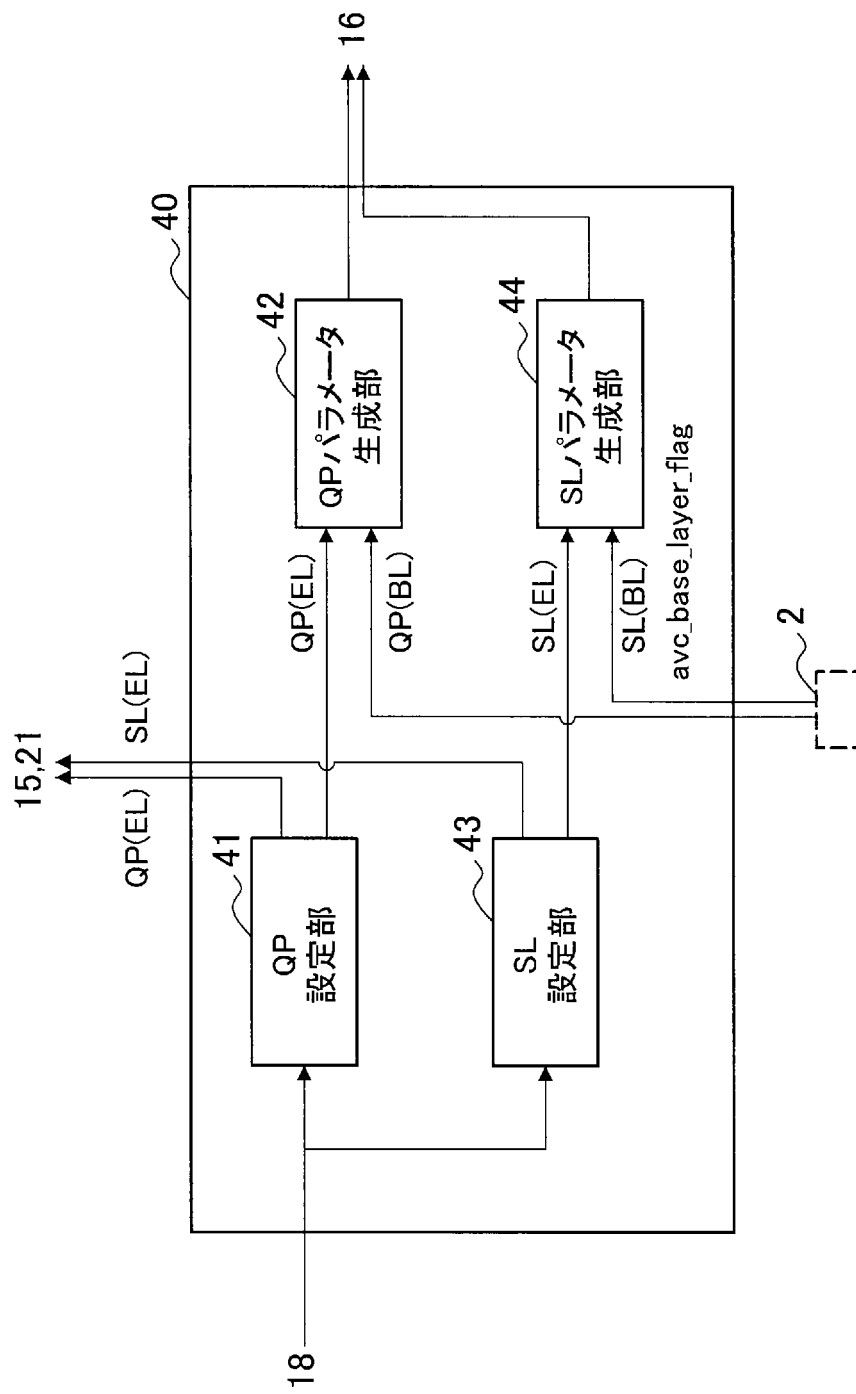
[図6]



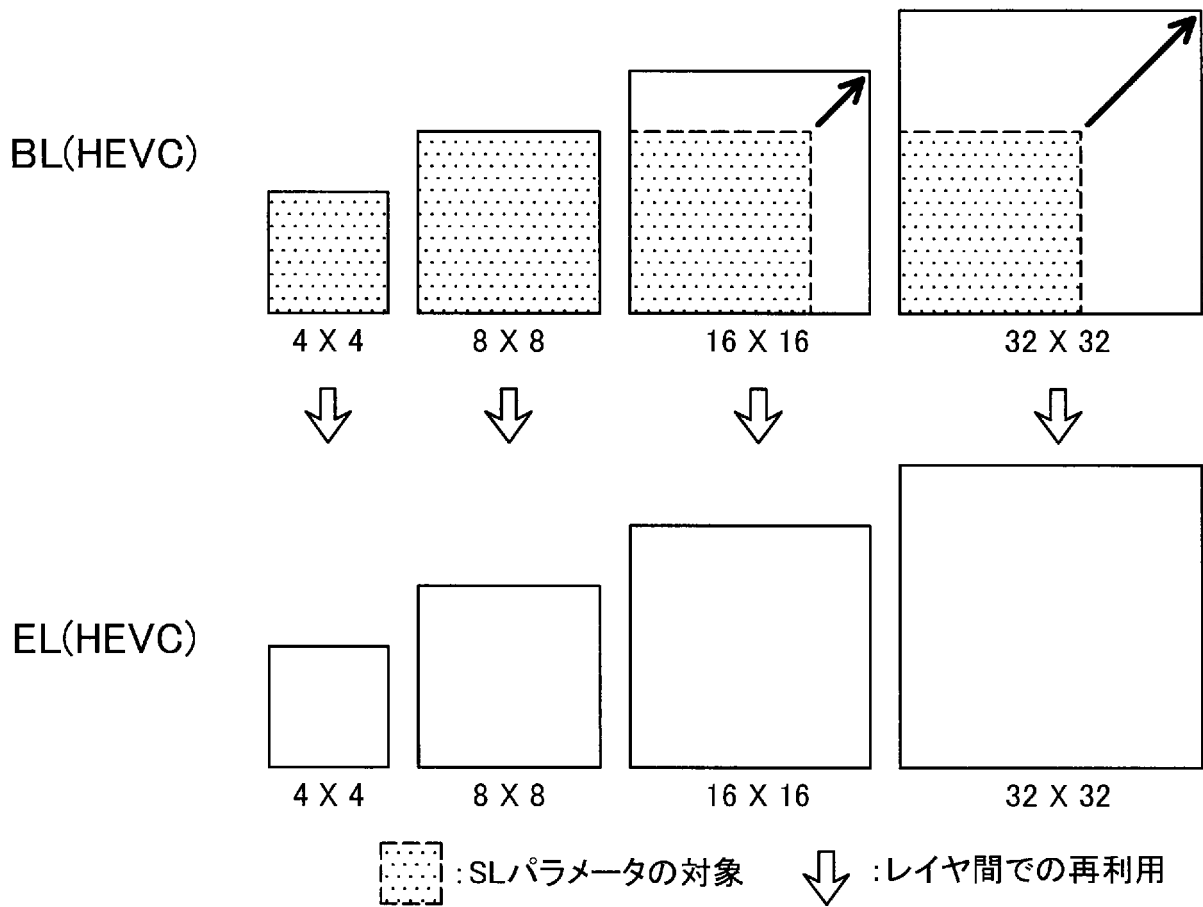
[図7]



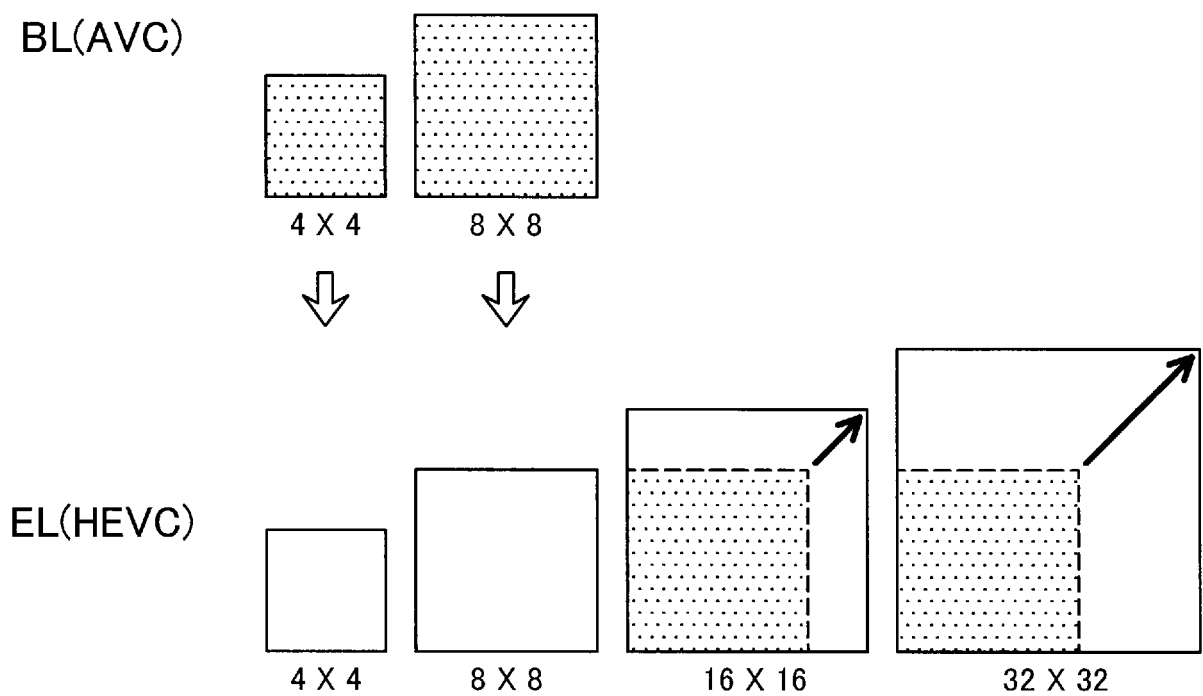
[図8]



[図9A]

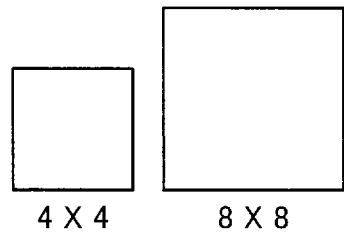


[図9B]

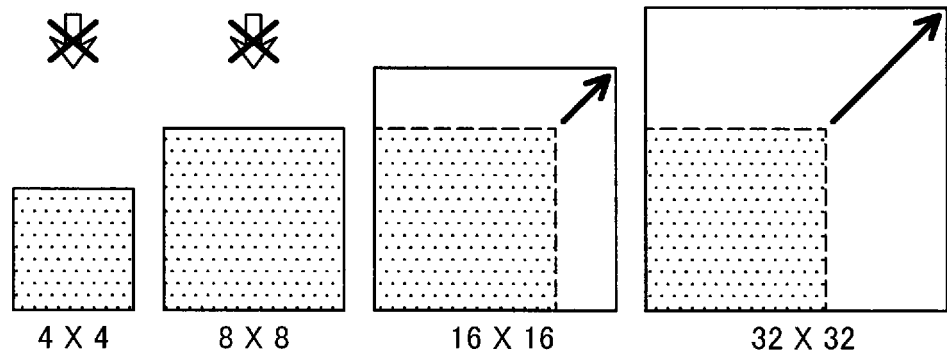


[図9C]

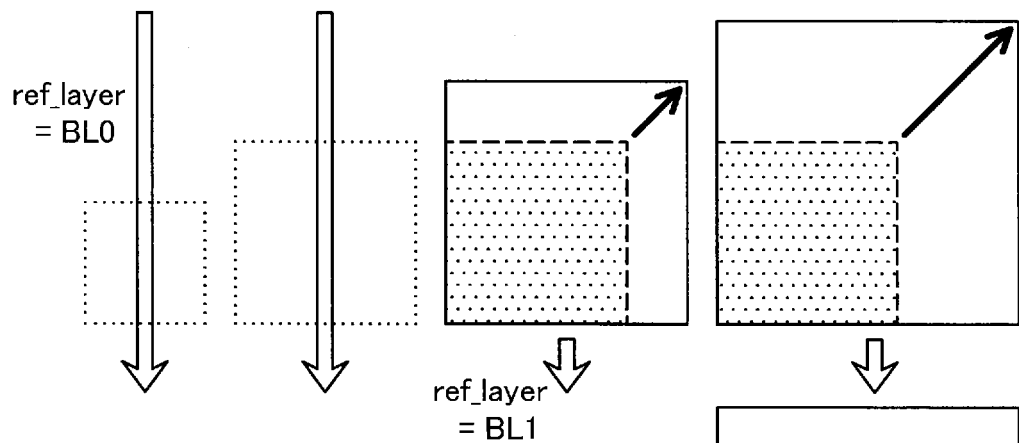
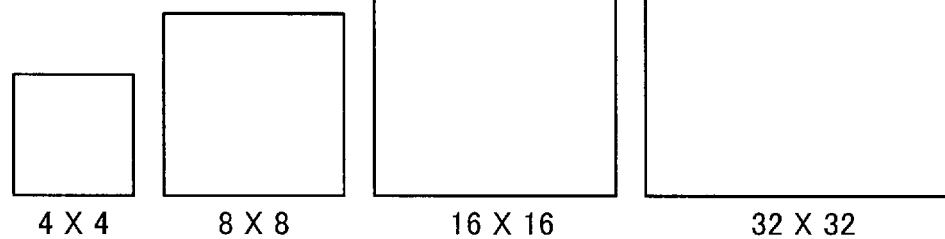
BL(AVC)



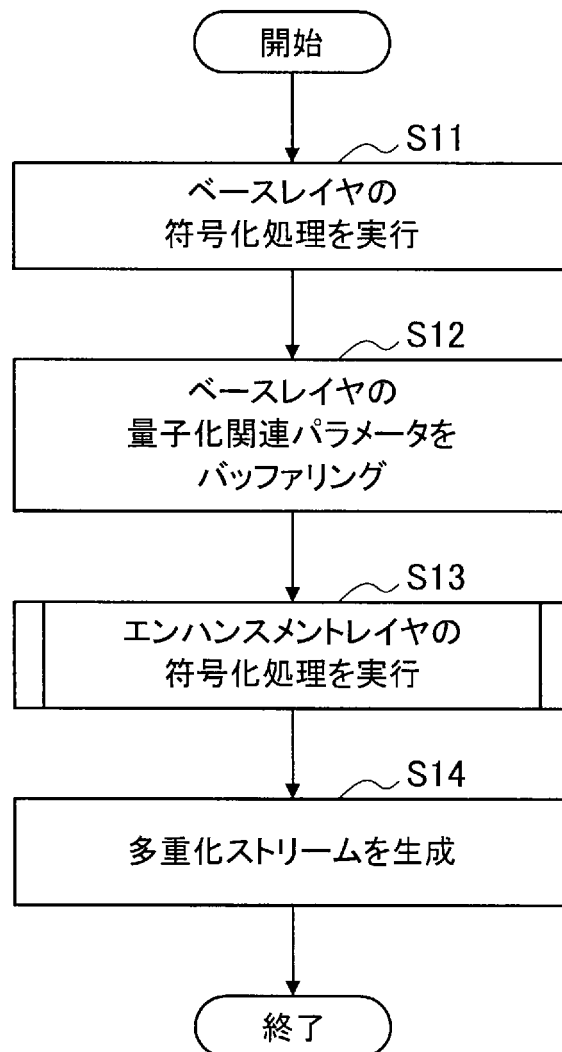
EL(HEVC)



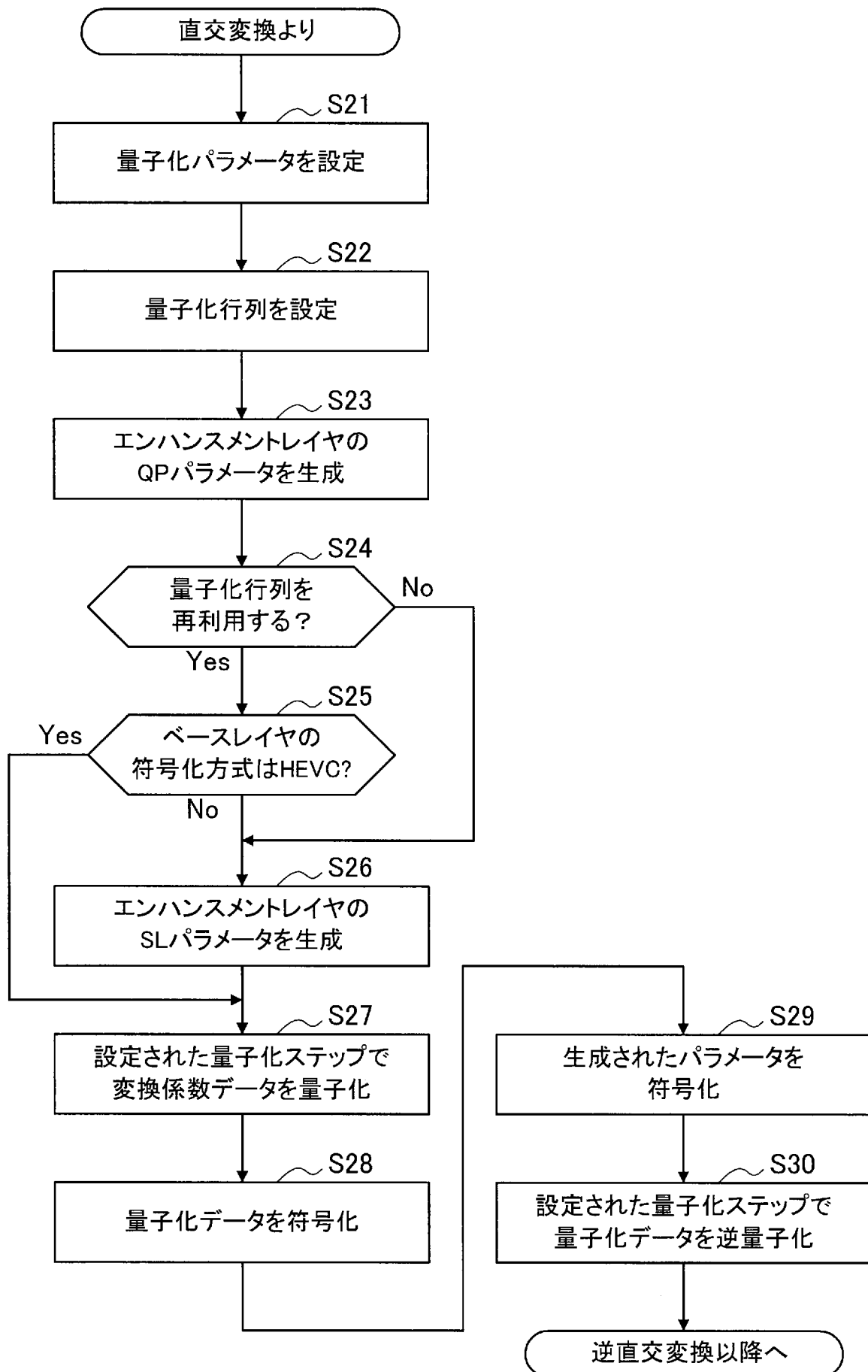
[図9D]

BL0
(HEVC)BL1
(HEVC)EL2
(HEVC)

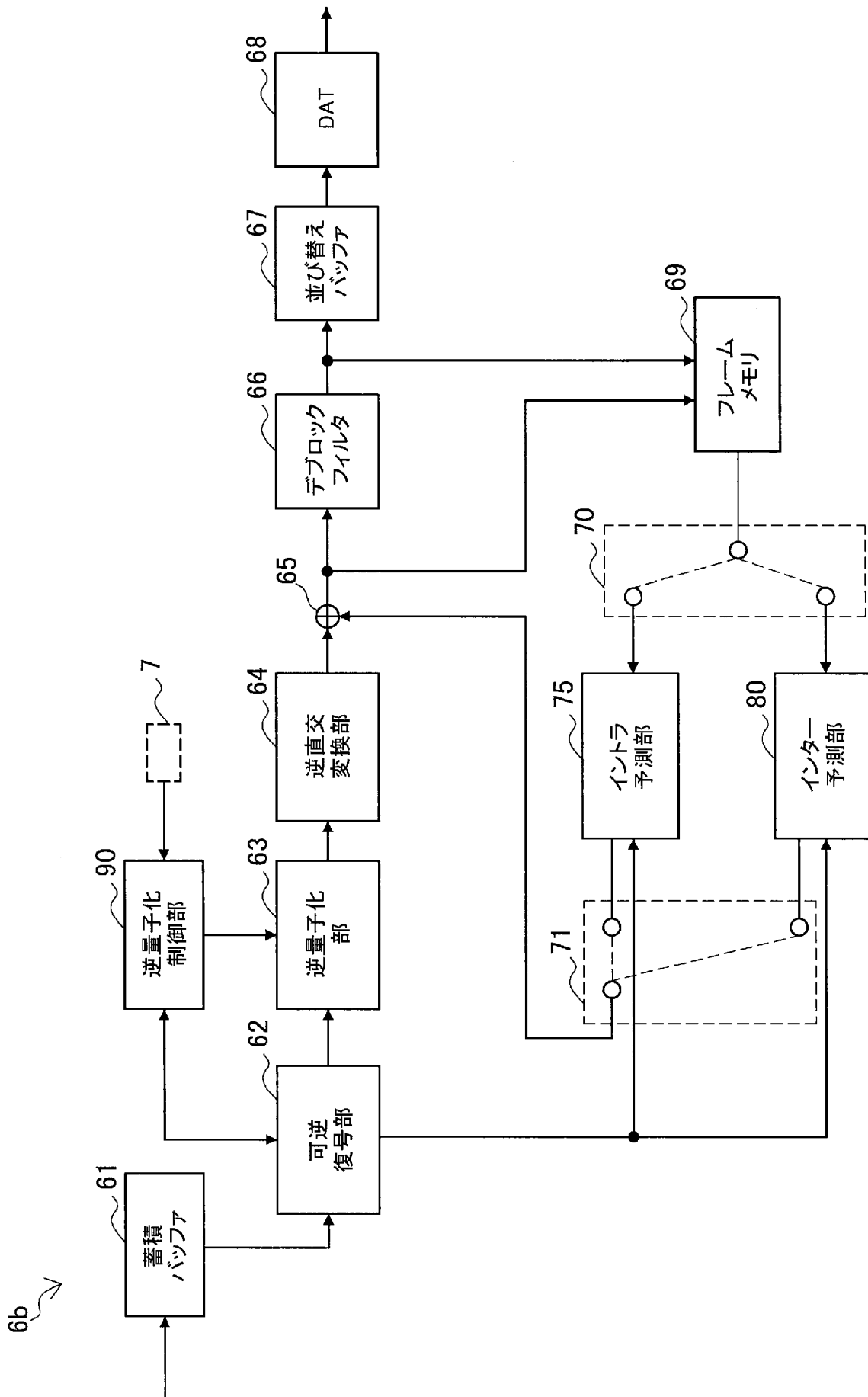
[図10]



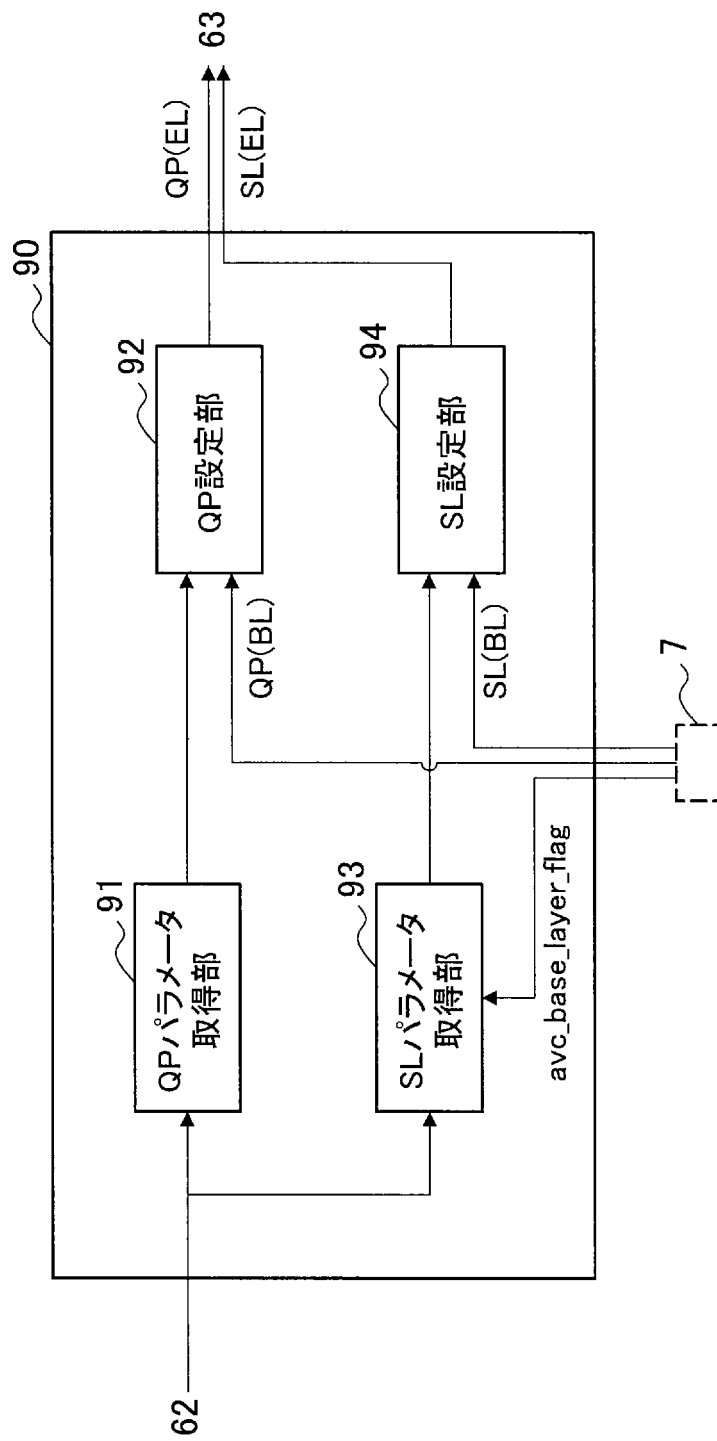
[図11]



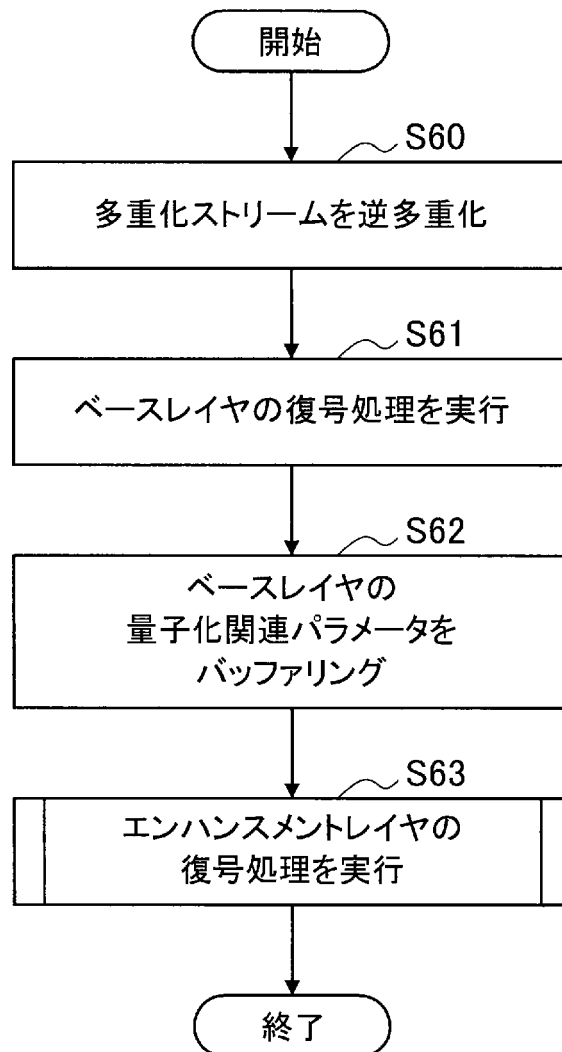
[図12]



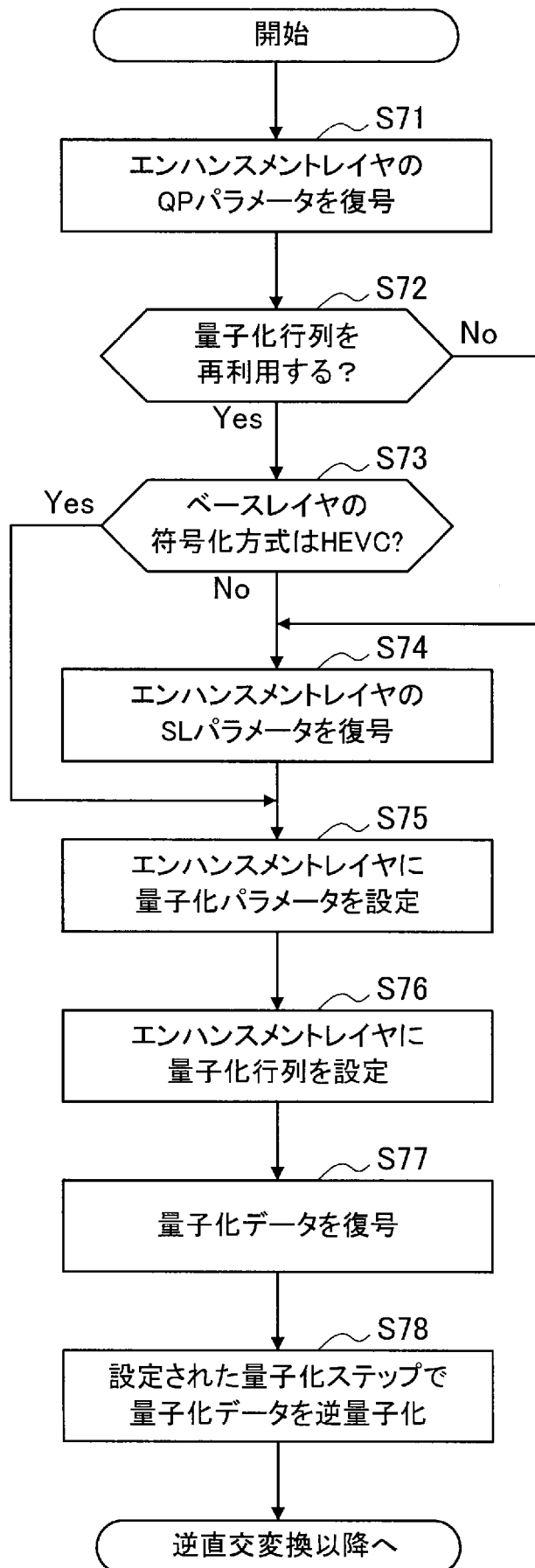
[図13]



[図14]



[図15]



[図16A]

```

01 | pic_parameter_set_rbsp( ) {
02 |   pic_parameter_set_id
03 |   seq_parameter_set_id
04 |   dependent_slice_segments_enabled_flag
05 |   sign_data_hiding_flag
06 |   cabac_init_present_flag
07 |   num_ref_idx_l0_default_active_minus1
08 |   num_ref_idx_l1_default_active_minus1
09 |   pic_init_qp_minus26
10 |   constrained_intra_pred_flag
11 |   transform_skip_enabled_flag
12 |   cu_qp_delta_enabled_flag
13 |   if ( cu_qp_delta_enabled_flag )
14 |     diff_cu_qp_delta_depth
15 |   BL_chroma_qp_offset_flag      <--- QPパラメータ再利用フラグ
16 |   if( !BL_chroma_qp_offset_flag )
17 |   {
18 |     pic_cb_qp_offset            <--- QPパラメータ (EL)
19 |     pic_cr_qp_offset            <---
20 |   }
21 |   pic_slice_chroma_qp_offsets_present_flag
22 |   weighted_pred_flag
23 |   weighted_bipred_flag
24 |   output_flag_present_flag
25 |   transquant_bypass_enable_flag
26 |   tiles_enabled_flag
27 |   entropy_coding_sync_enabled_flag
28 |   if( tiles_enabled_flag ) {
29 |     num_tile_columns_minus1
30 |     num_tile_rows_minus1
31 |     uniform_spacing_flag
32 |     if( !uniform_spacing_flag ) {
33 |       for( i = 0; i < num_tile_columns_minus1; i++ )
34 |         column_width_minus1[ i ]
35 |       for( i = 0; i < num_tile_rows_minus1; i++ )
36 |         row_height_minus1[ i ]
37 |     }
38 |     loop_filter_across_tiles_enabled_flag
39 |   }
40 |   loop_filter_across_slices_enabled_flag

```

[図16B]

```
41 |   deblocking_filter_control_present_flag
42 |   if( deblocking_filter_control_present_flag ) {
43 |       deblocking_filter_override_enabled_flag
44 |       pic_disable_deblocking_filter_flag
45 |       if( !pic_disable_deblocking_filter_flag ) {
46 |           beta_offset_div2
47 |           tc_offset_div2
48 |       }
49 |   }
50 |   pic_scaling_list_data_present_flag
51 |   if( pic_scaling_list_data_present_flag )
52 |       scaling_list_data( )           <--- SLパラメータ(EL)
53 |   lists_modification_present_flag
54 |   log2_parallel_merge_level_minus2
55 |   num_extra_slice_header_bits
56 |   slice_segment_header_extension_present_flag
57 |   pps_extension_flag
58 |   if( pps_extension_flag )
59 |       while( more_rbsp_data( ) )
60 |           pps_extension_data_flag
61 |       rbsp_trailing_bits( )
62 | }
```

[図16C]

```
01 | scaling_list_data( ) {  
02 |   BL_scaling_list_flag          <-- 量子化行列再利用フラグ  
03 |   for( sizeId = 0; sizeId < 4; sizeId++ )  
04 |     for( matrixId = 0; matrixId < ( sizeId == 3 ) ? 2 : 6; matrixId++ ) {  
05 |       if( !( BL_scaling_list_flag == 1 &&  
06 |         (avc_base_layer_flag == 0) ||  
07 |         (avc_base_layer_flag == 1 && (sizeId==0 || sizeId==1)) ) ) {  
08 |         scaling_list_pred_mode_flag[ sizeId ][ matrixId ]  
09 |         if( !scaling_list_pred_mode_flag[ sizeId ][ matrixId ] )  
10 |           scaling_list_pred_matrix_id_delta[ sizeId ][ matrixId ]  
11 |         else {  
12 |           nextCoef = 8  
13 |           coefNum = Min( 64, ( 1 << ( 4 + ( sizeId << 1 ) ) ) )  
14 |           if( sizeId > 1 ) {  
15 |             scaling_list_dc_coef_minus8[ sizeId - 2 ][ matrixId ]  
16 |             nextCoef =  
17 |               scaling_list_dc_coef_minus8[ sizeId - 2 ][ matrixId ] + 8  
18 |           }  
19 |           for( i = 0; i < coefNum; i++ ) {  
20 |             scaling_list_delta_coef  
21 |             nextCoef = ( nextCoef + scaling_list_delta_coef + 256 ) % 256  
22 |             ScalingList[ sizeId ][ matrixId ][ i ] = nextCoef  
23 |           }  
24 |         }  
25 |       }  
26 |     }  
27 | }
```

[図16D]

```
01 | sps_extension( ) {  
02 |   ...  
03 |   copy_scaling_list_from_ref_layer_flag  
04 |   if(copy_scaling_list_from_ref_layer_flag)  
05 |       scaling_list_ref_layer  
06 |   ...  
07 | }
```



```
01 | pps_extension( ) {  
02 |   ...  
03 |   copy_scaling_list_from_ref_layer_flag  
04 |   if(copy_scaling_list_from_ref_layer_flag)  
05 |       scaling_list_ref_layer  
06 |   ...  
07 | }
```

[図16E]

```
01 | sps_extension( ) {  
02 |   ...  
03 |   scaling_list_extension()  
04 |   ...  
05 | }
```

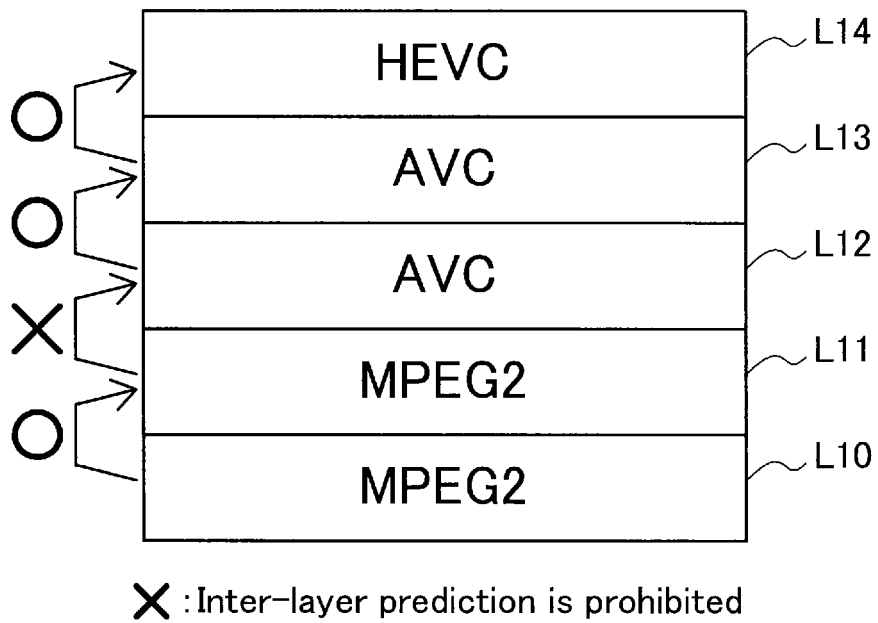


```
01 | pps_extension( ) {  
02 |   ...  
03 |   scaling_list_extension()  
04 |   ...  
05 | }
```

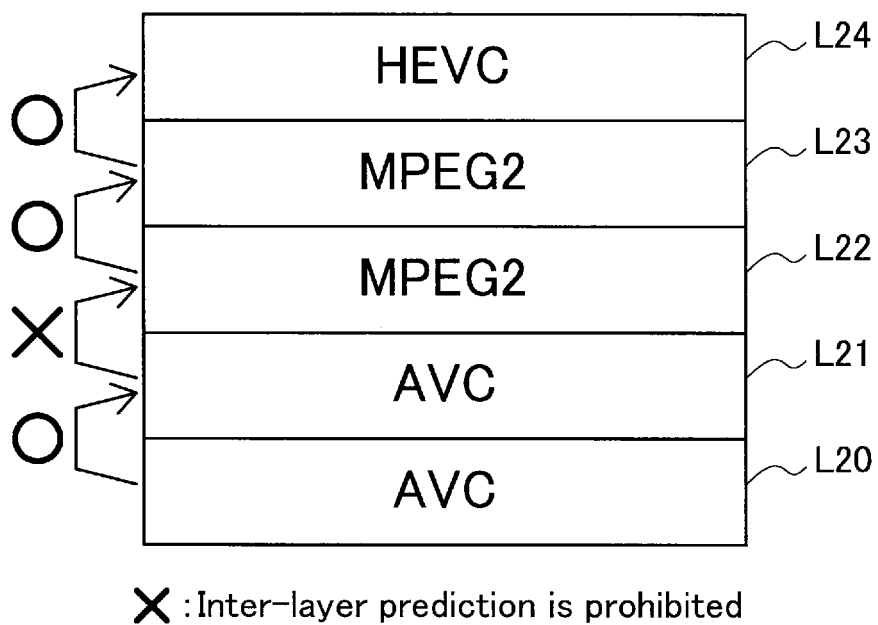


```
01 | scaling_list_extension( ) {  
02 |   for(sizeId = 0; sizeId < 4; sizeId++)  
03 |       for(matrixId = 0; matrixId < ((sizeId == 3) ? 2 : 6); matrixId++) {  
04 |           copy_scaling_list_from_ref_layer_flag[sizeId][matrixId]  
05 |           if(copy_scaling_list_from_ref_layer_flag[sizeId][matrixId])  
06 |               scaling_list_ref_layer[sizeId][matrixId]  
07 |       }  
08 | }  
09 | }
```

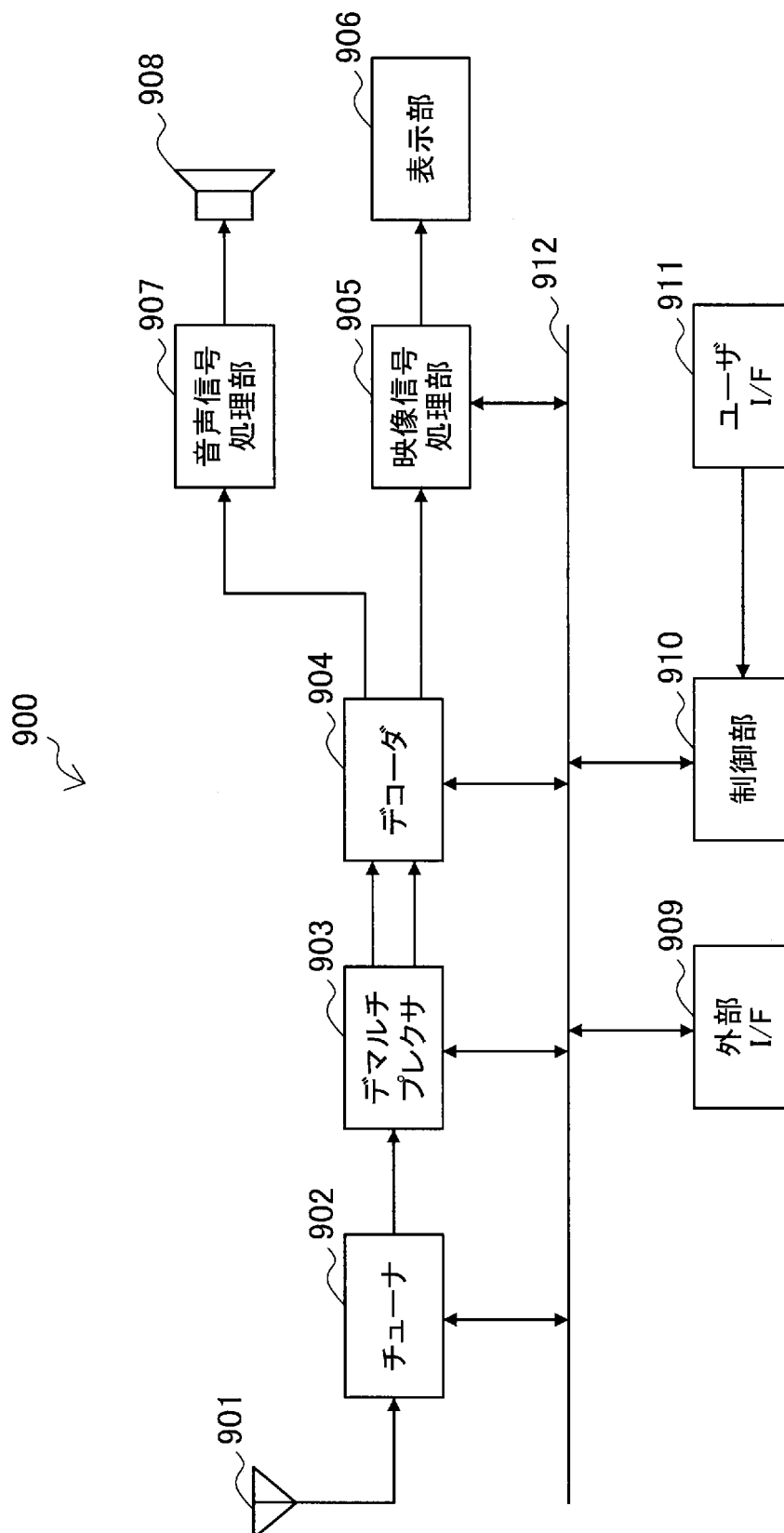
[図17A]



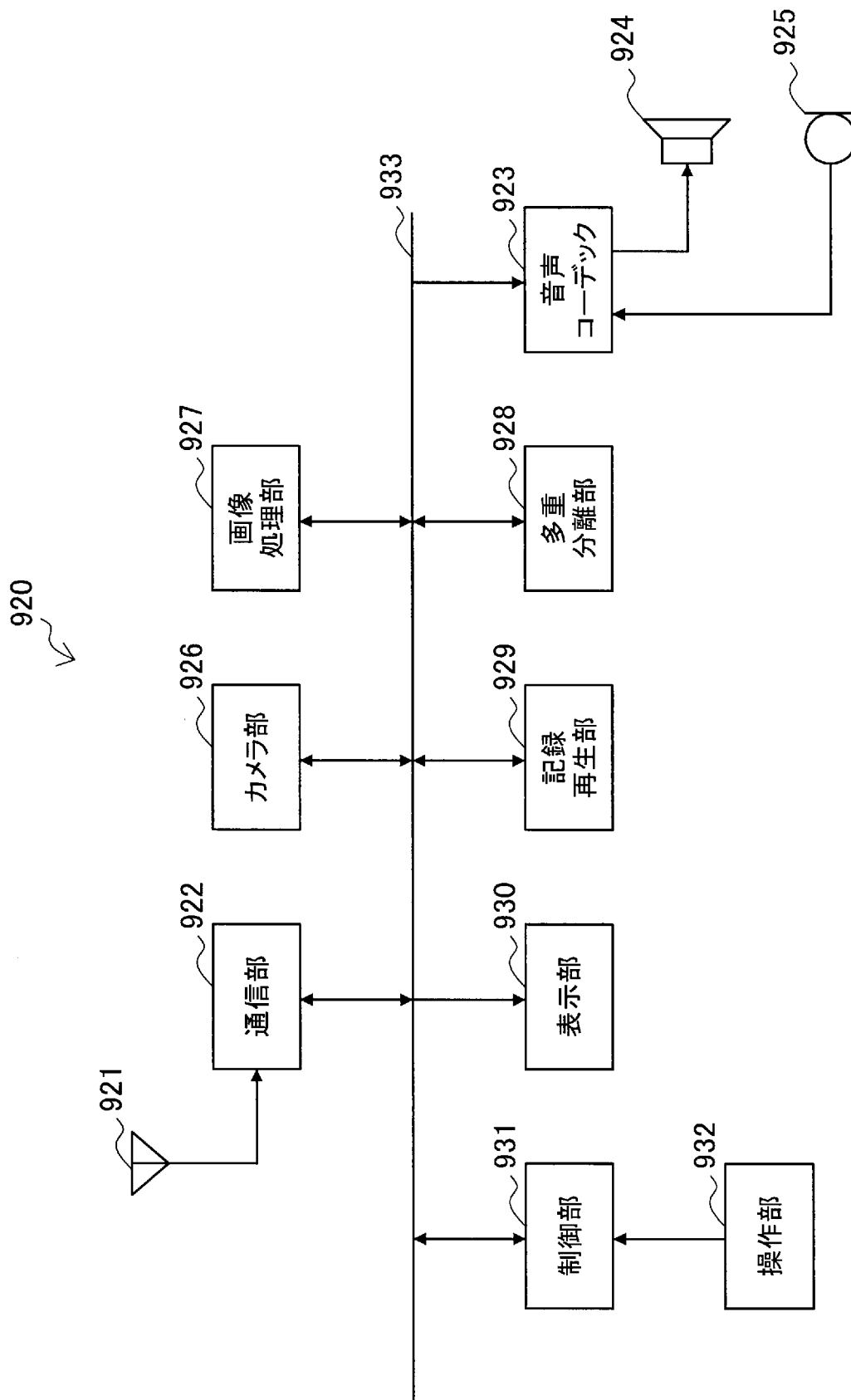
[図17B]



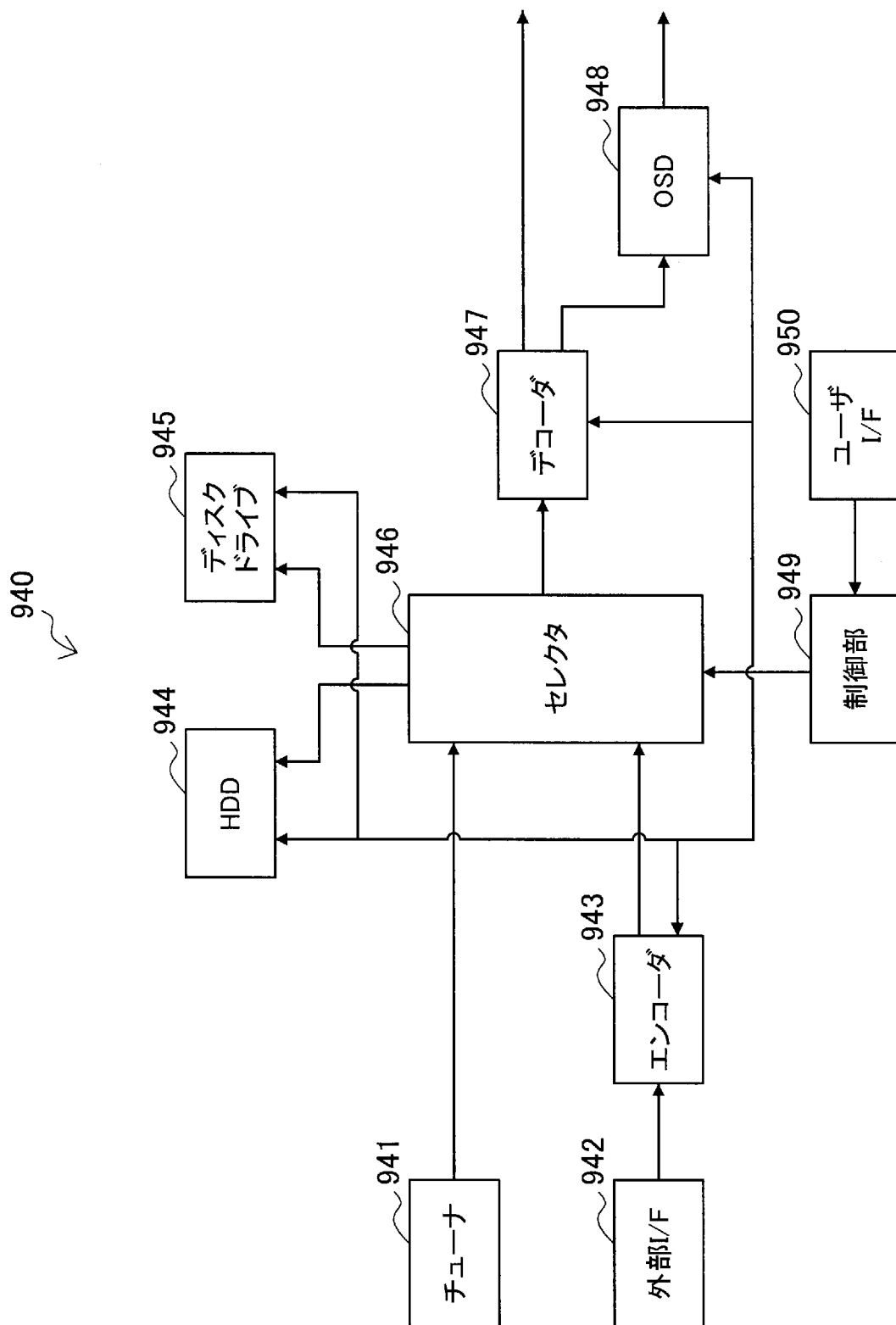
[図18]



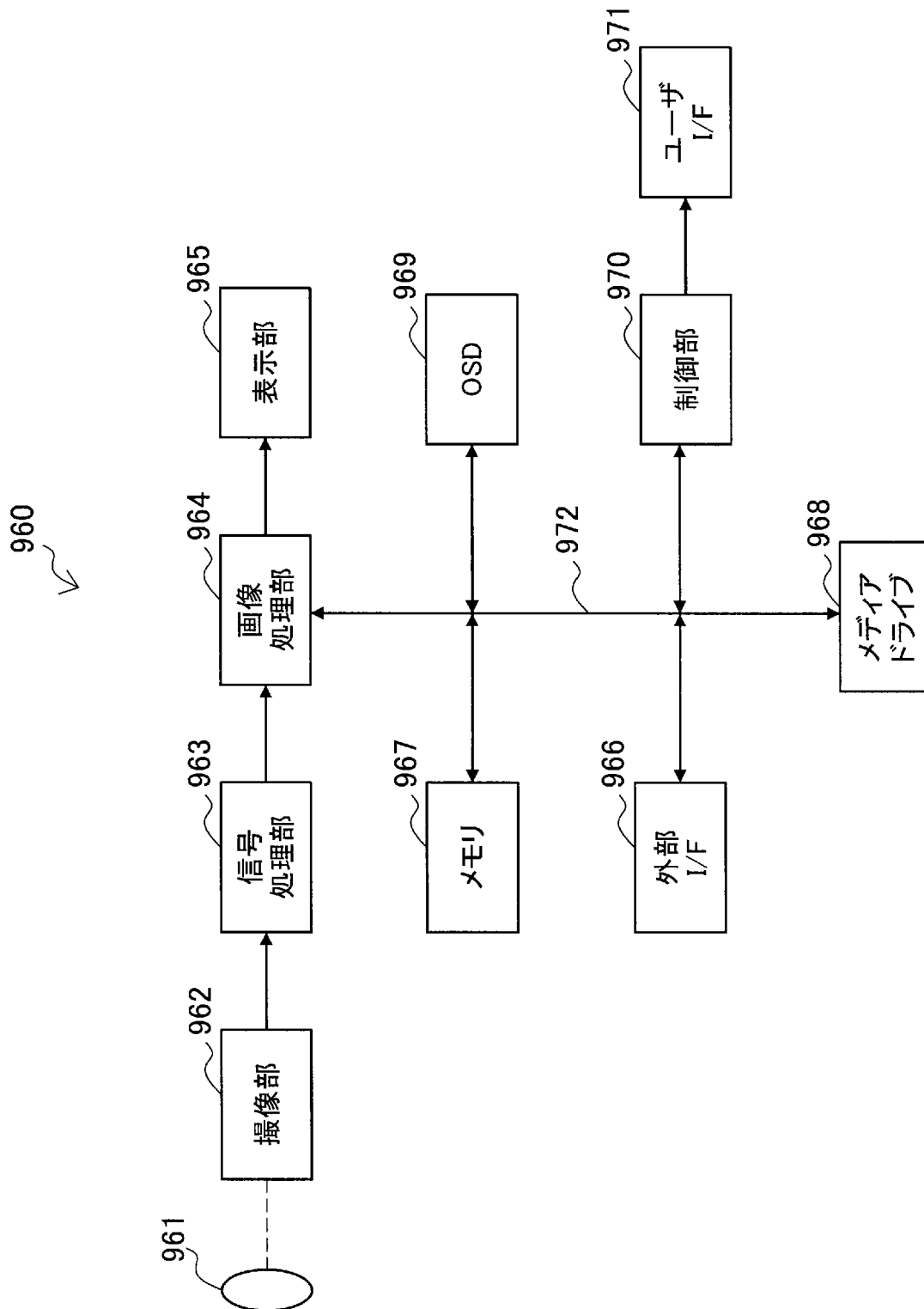
[図19]



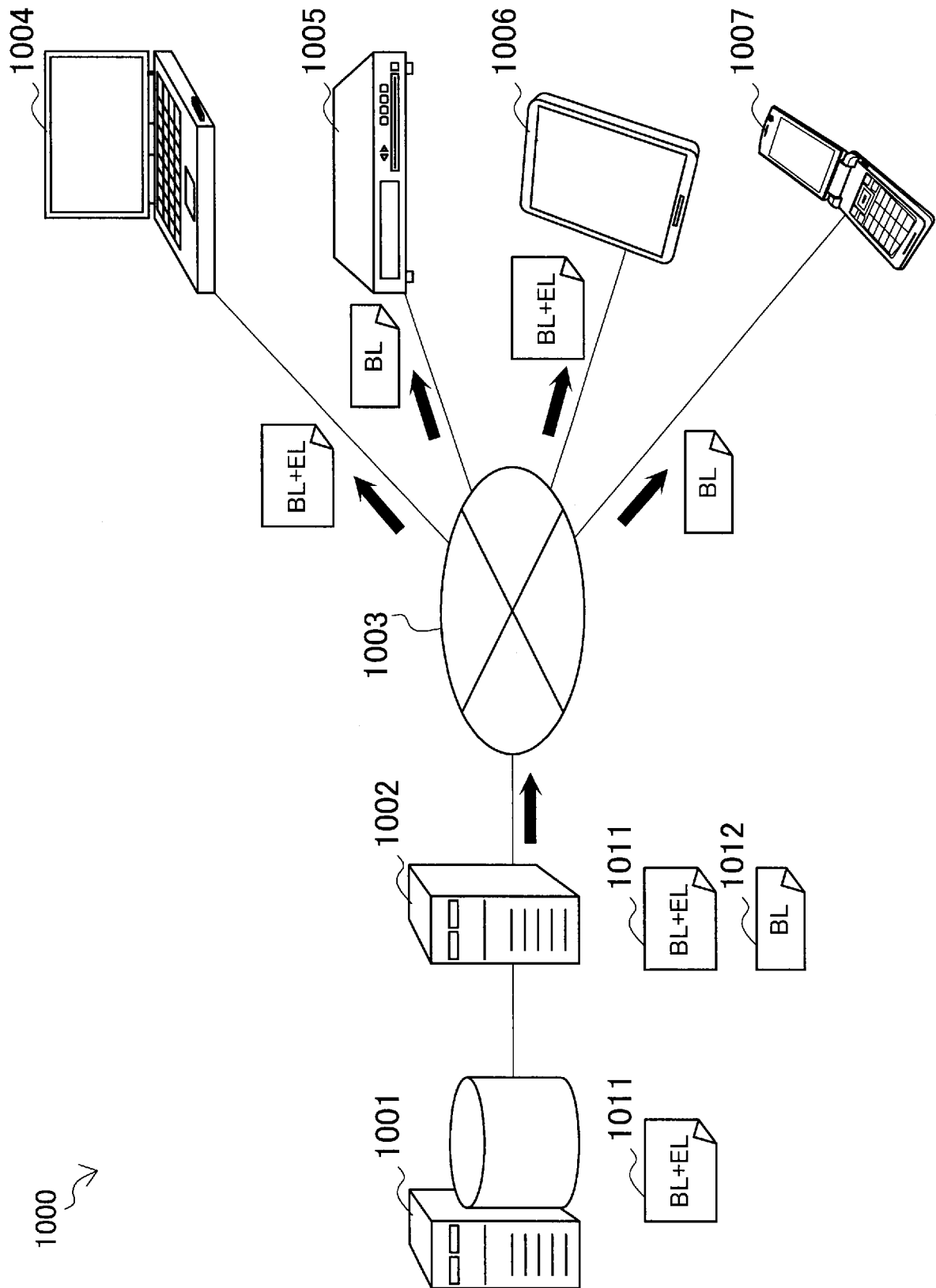
[図20]



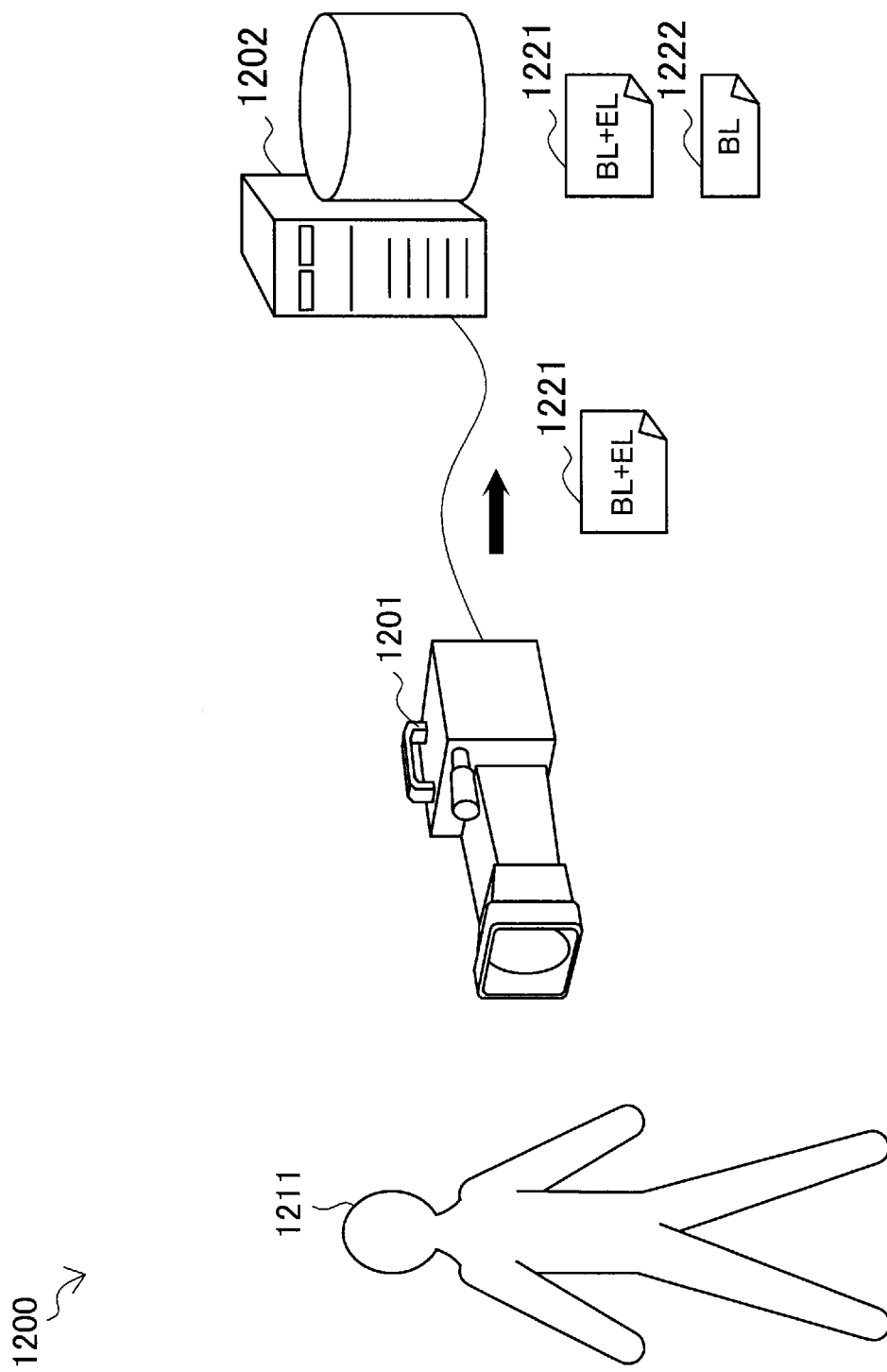
[図21]



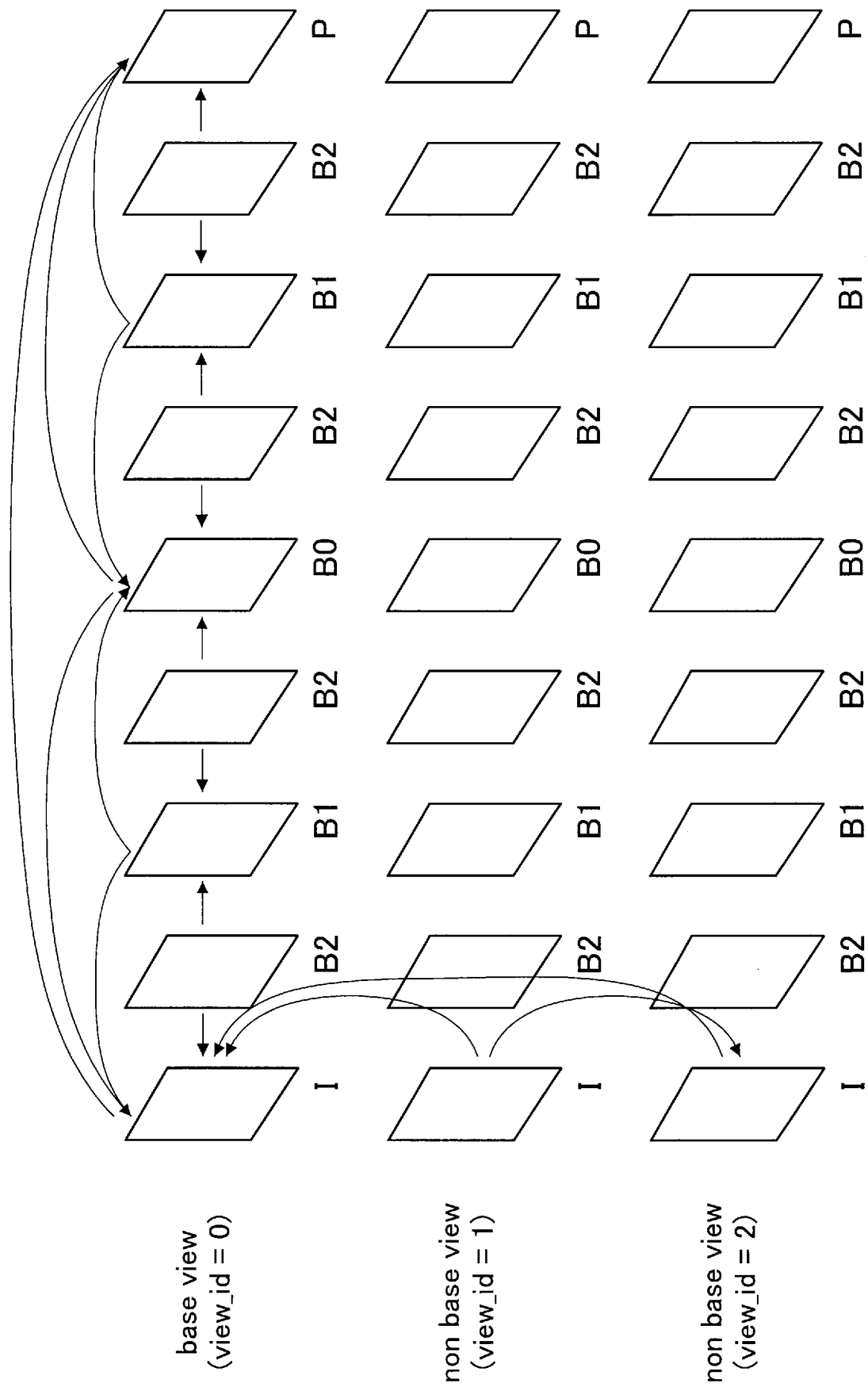
[図22]



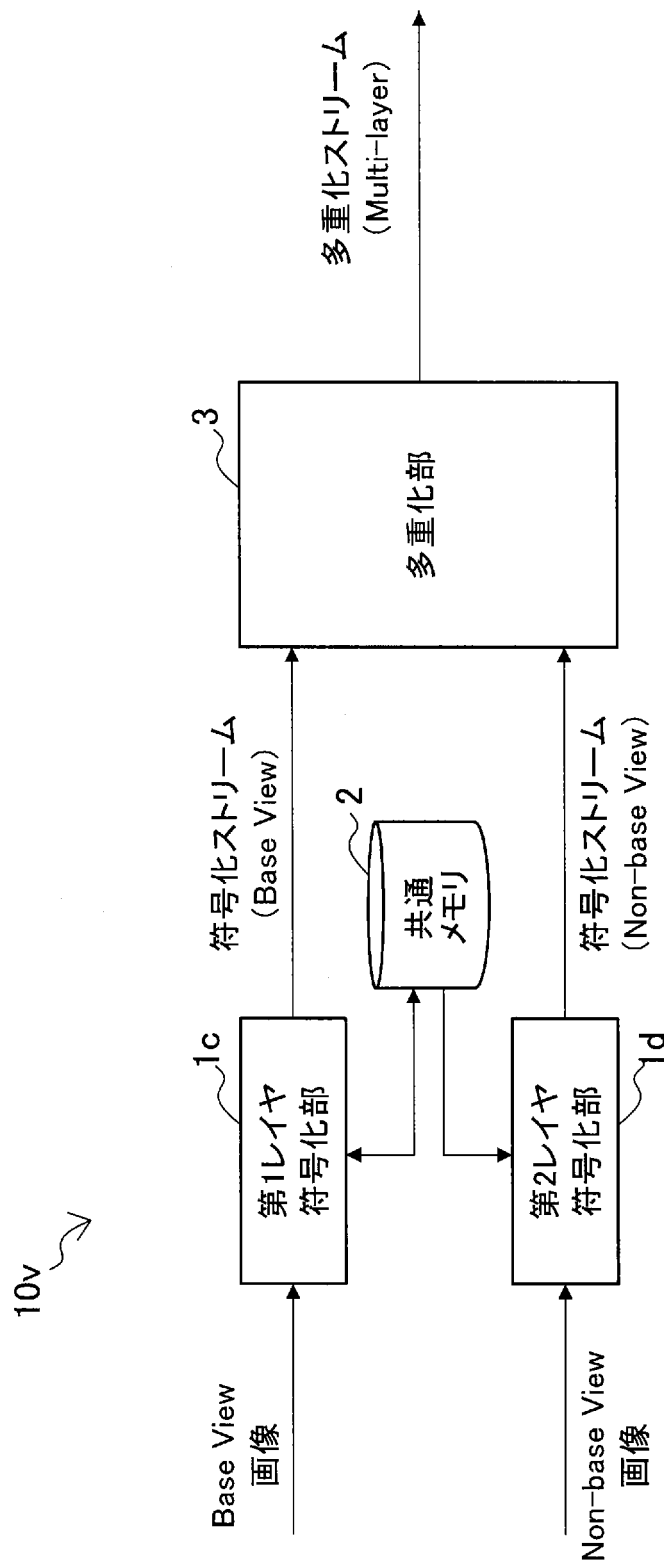
[図24]



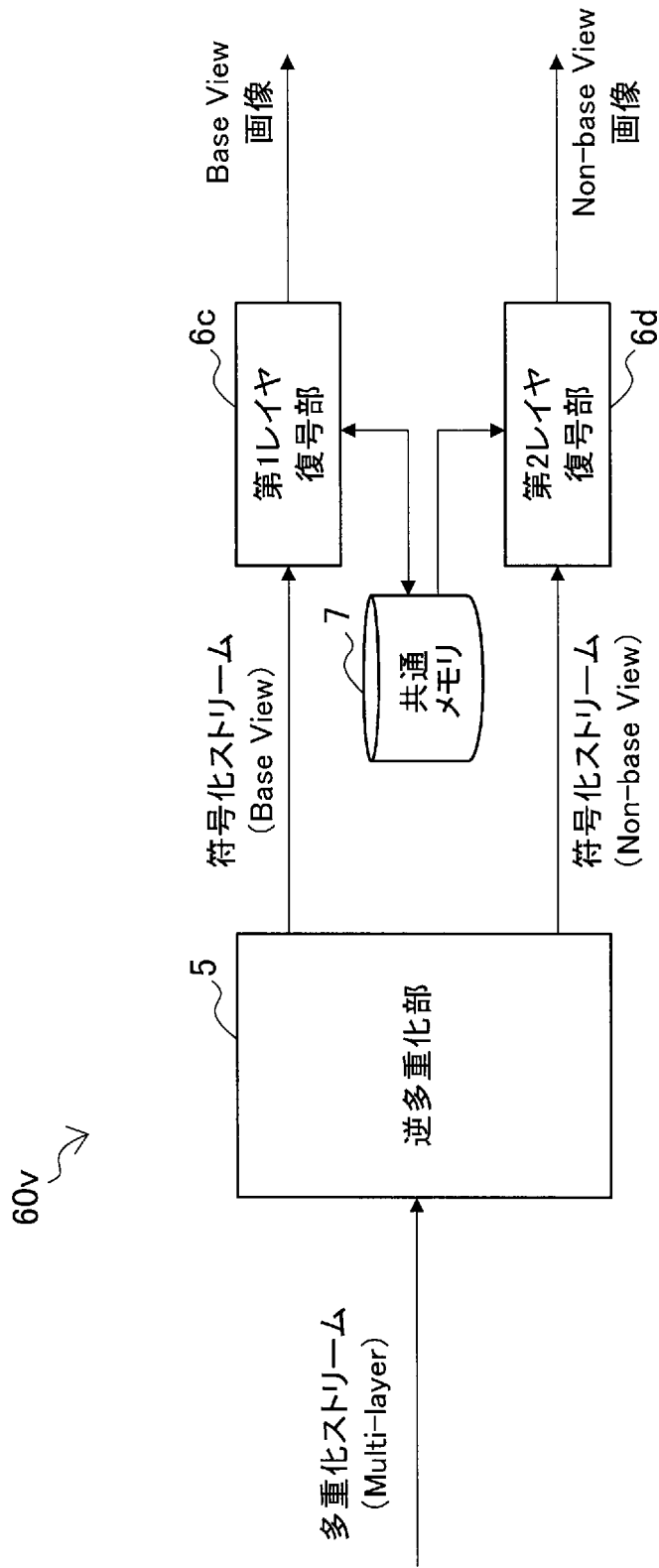
[図25]



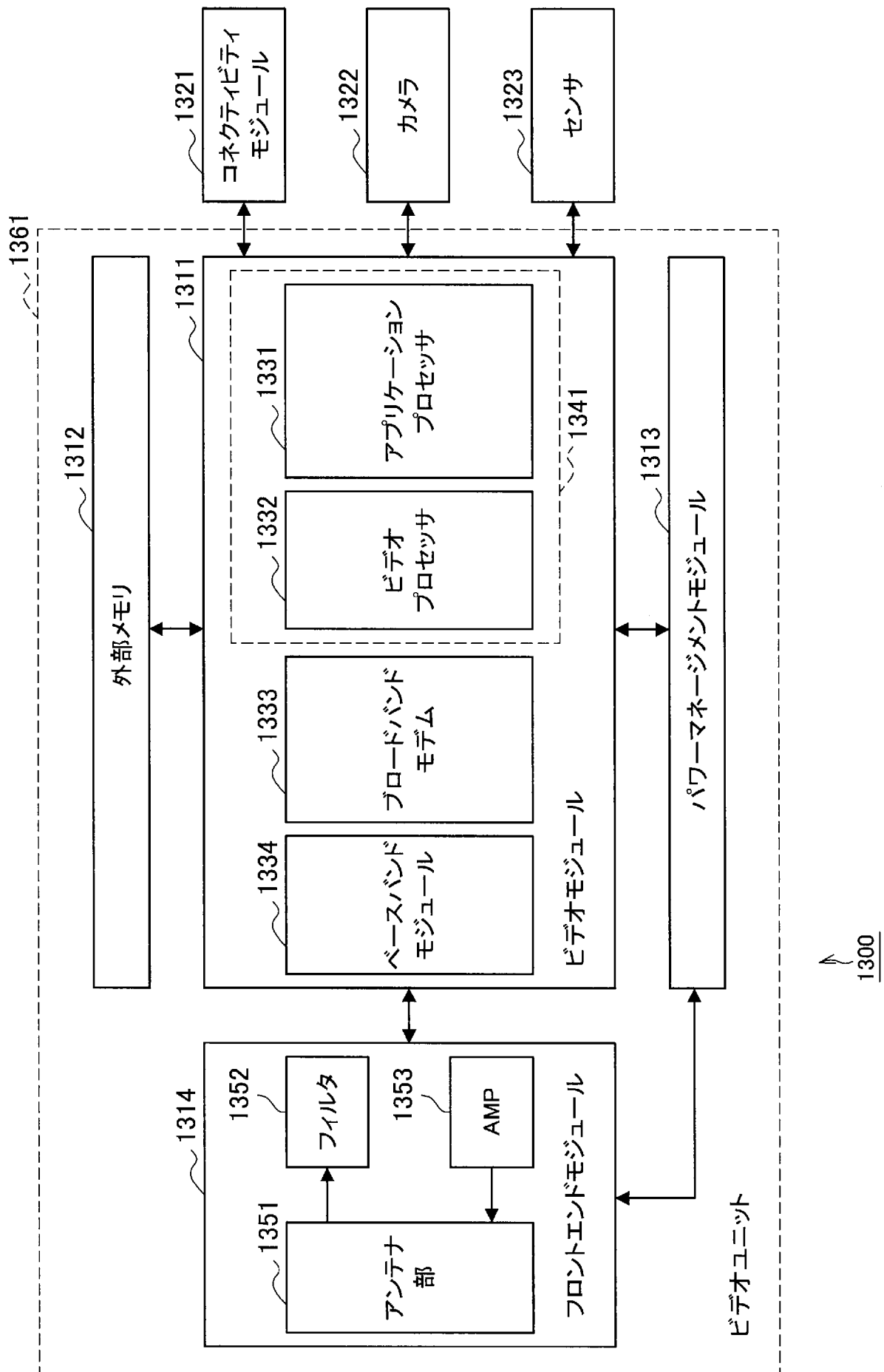
[図26]



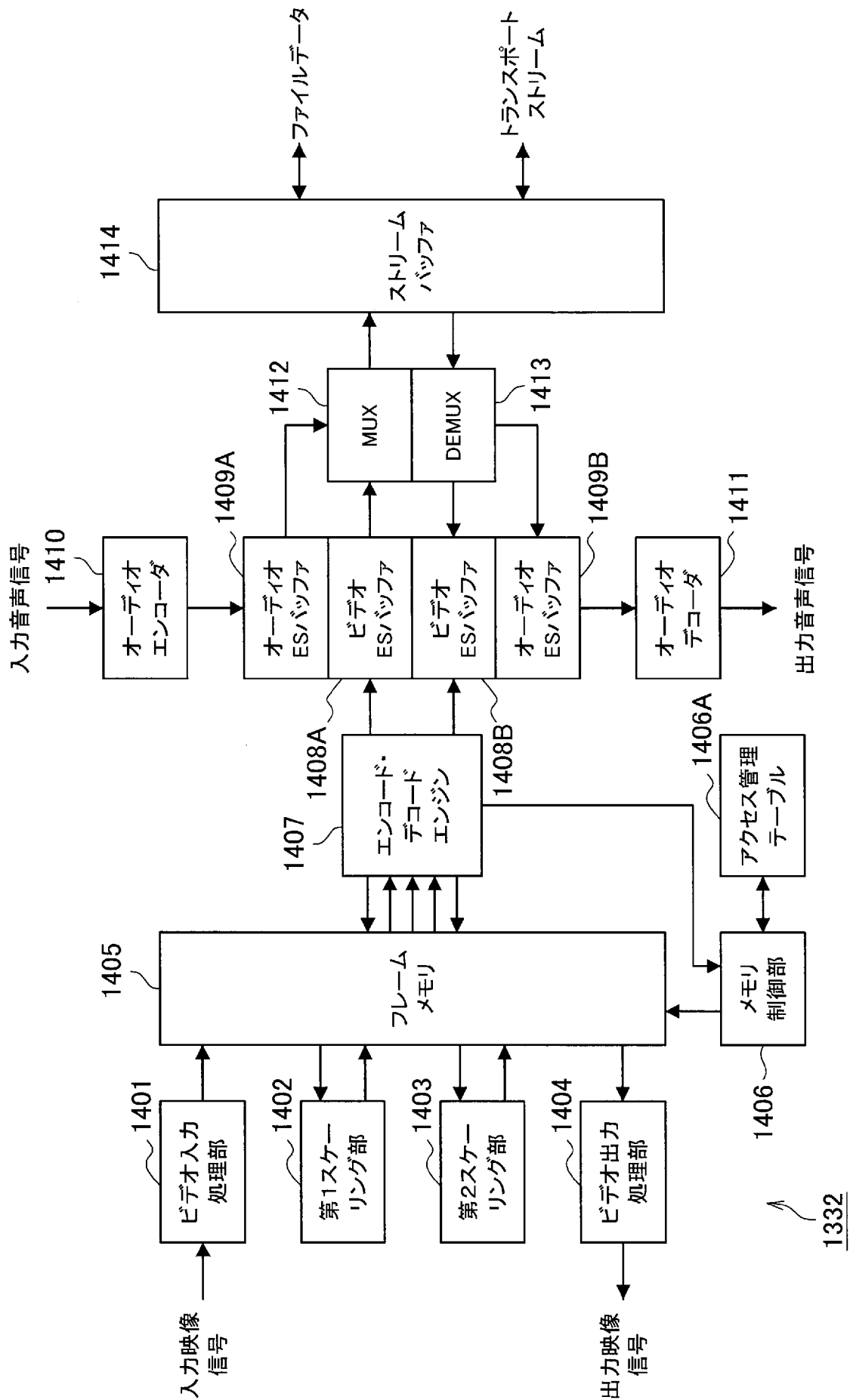
[図27]



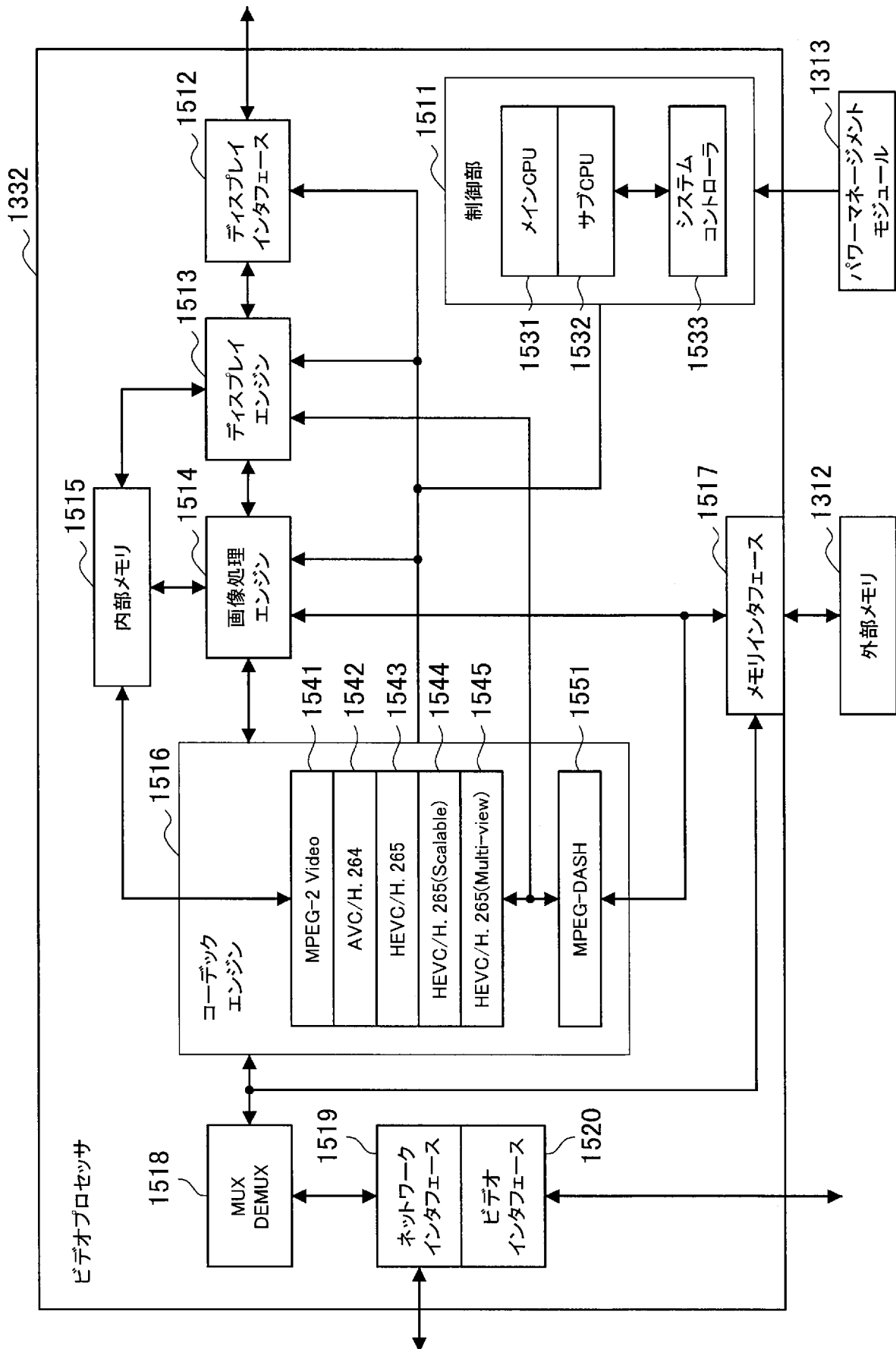
[図28]



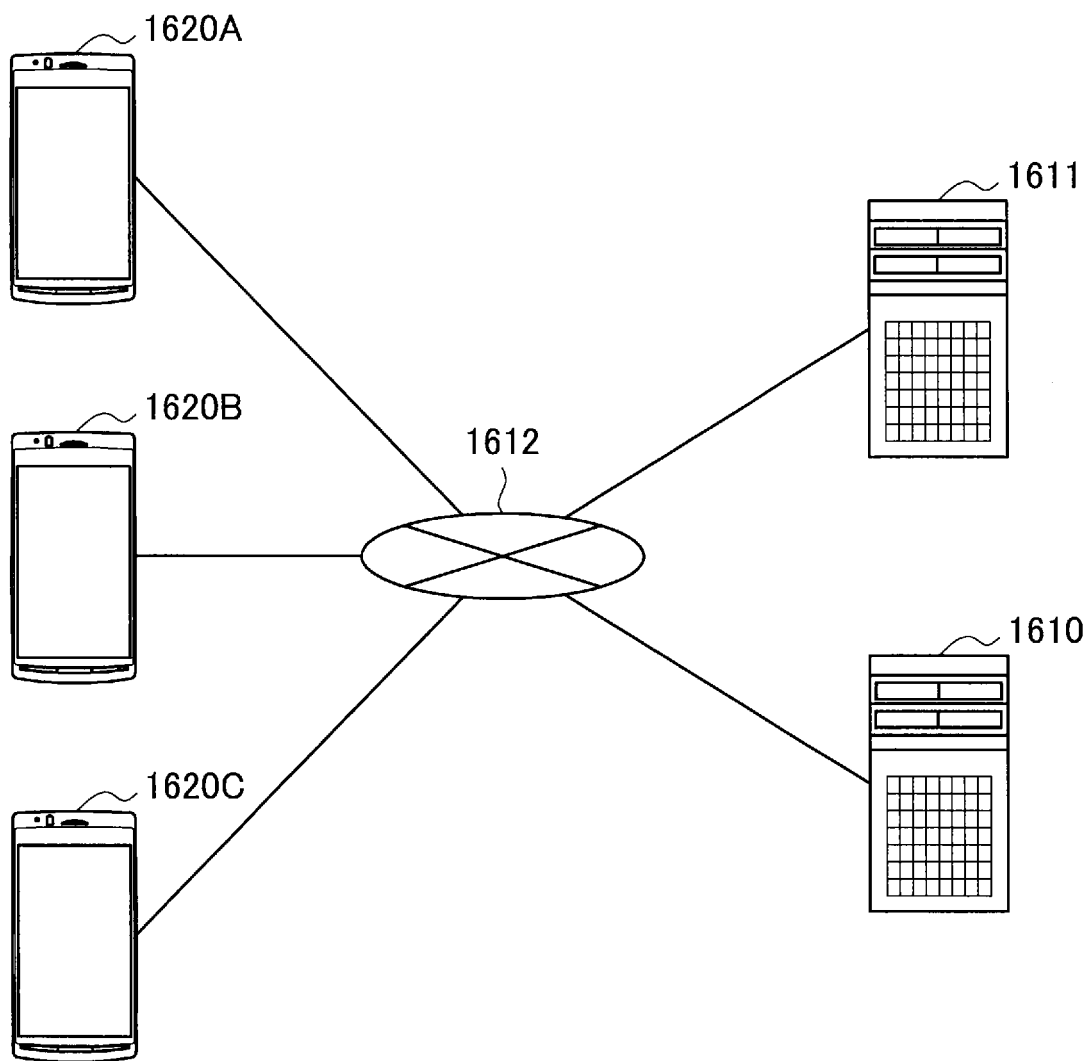
[図29]



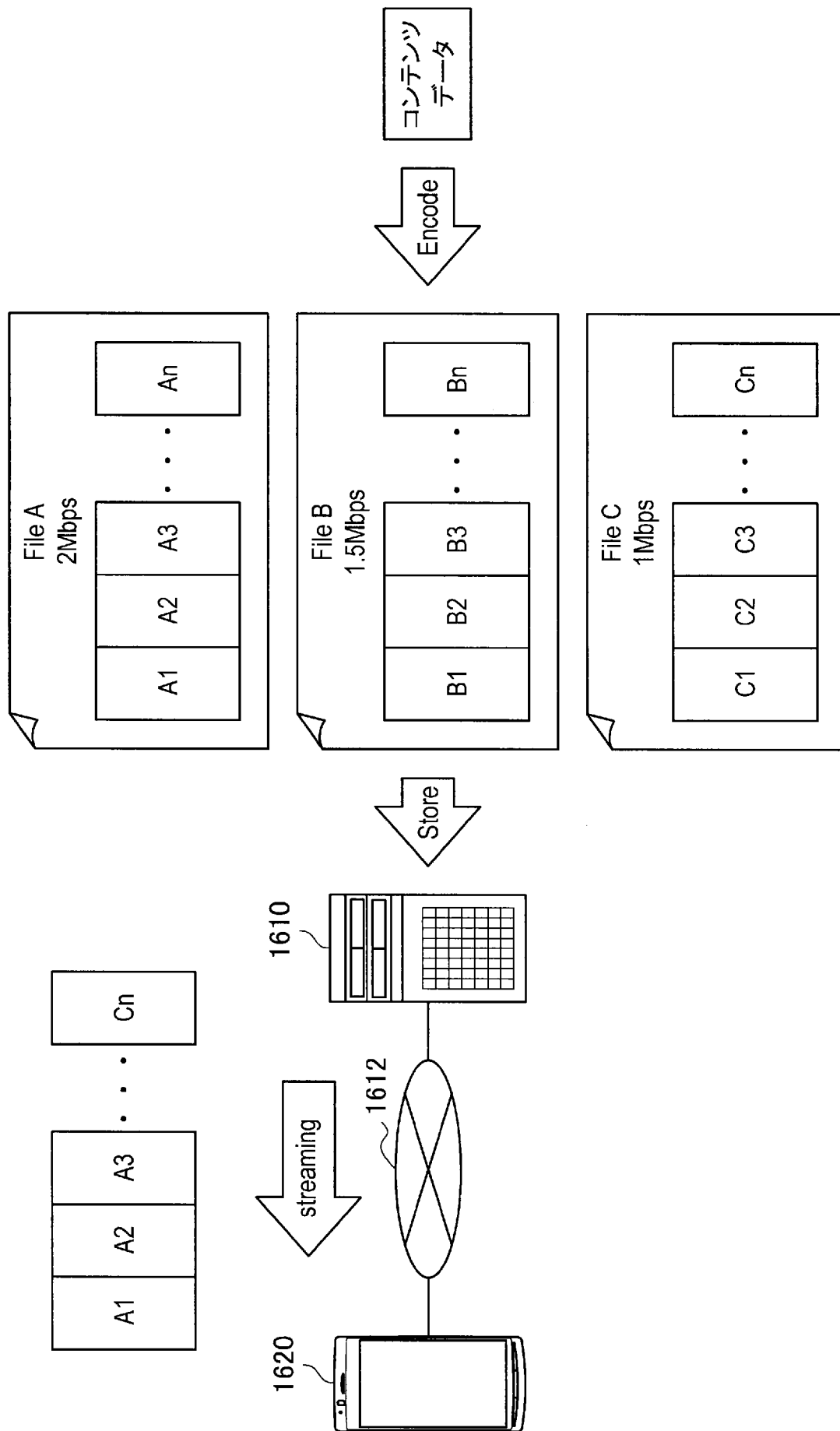
[図30]



[図31]



[図32]



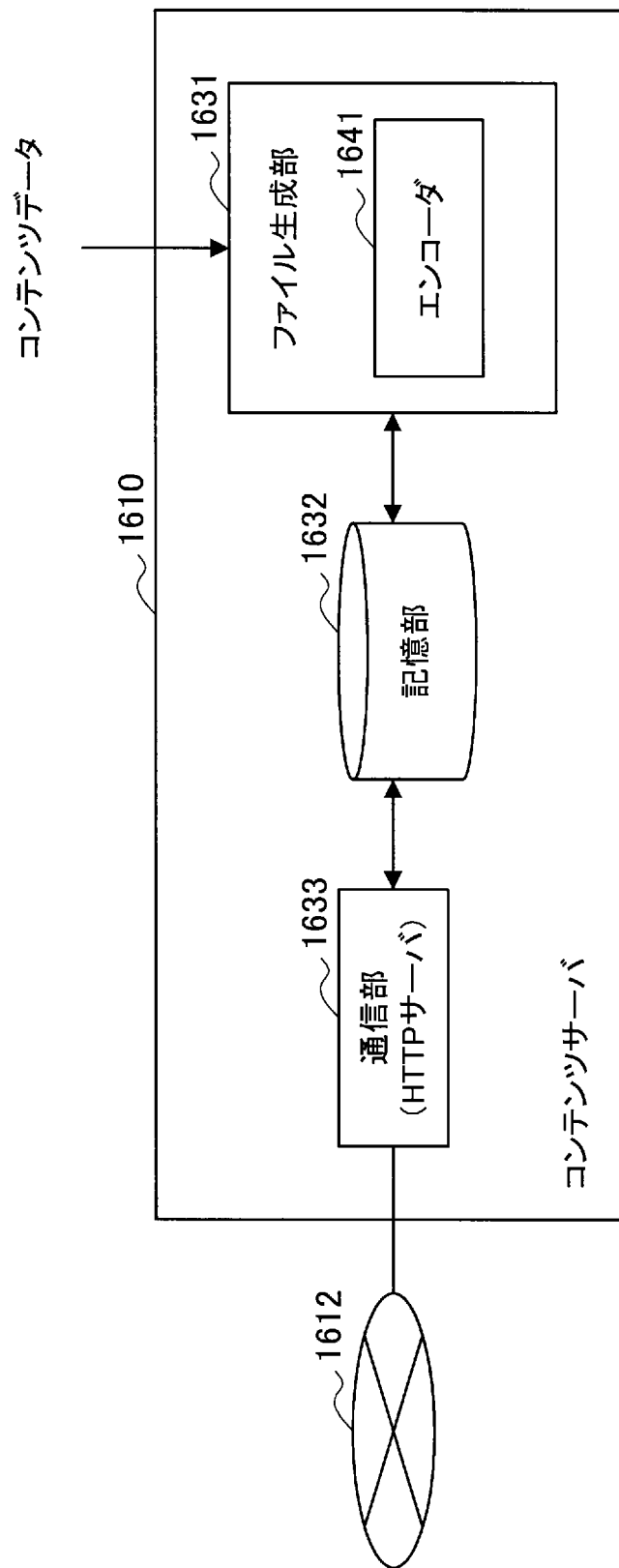
[図33]

```

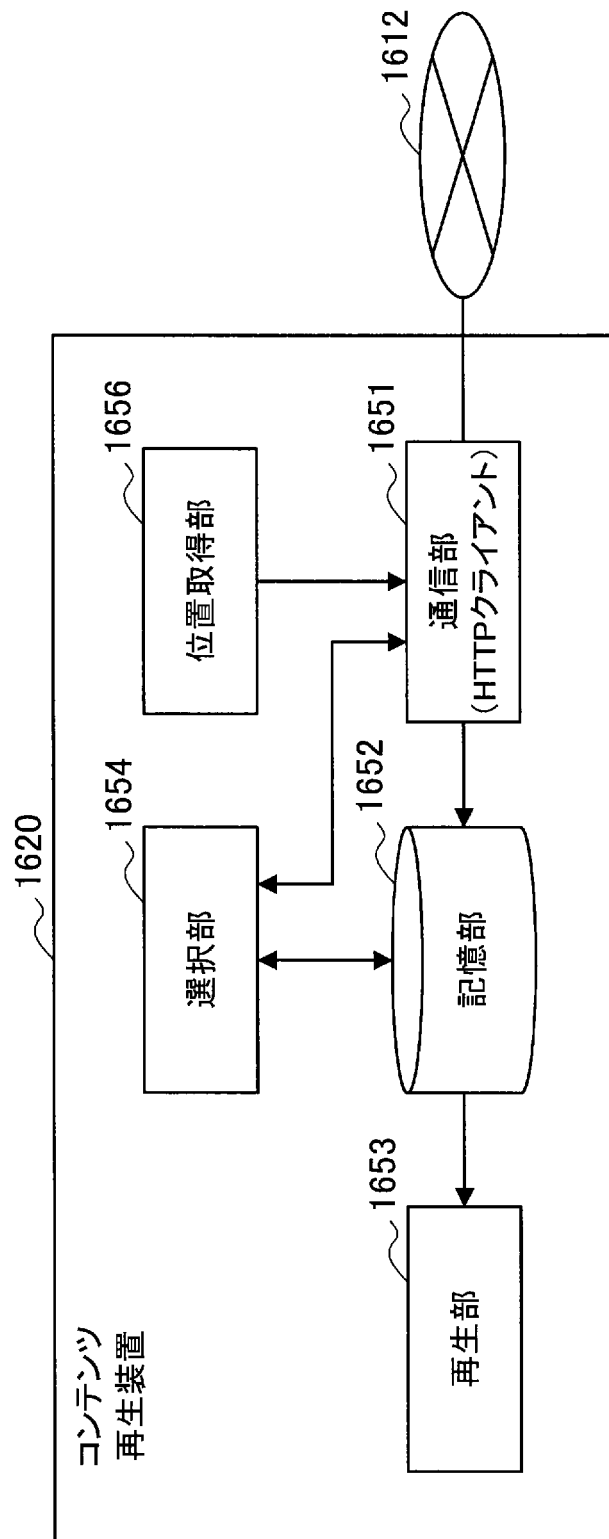
01 | <?xml version="1.0"?>
02 | <MPD
03 |   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
04 |   xmlns="urn:mpeg:DASH:schema:MPD:2011"
05 |   xsi:schemaLocation="urn:mpeg:DASH:schema:MPD:2011 DASH-MPD.xsd"
06 |   type="static"
07 |   mediaPresentationDuration="PT3256S"
08 |   minBufferTime="PT1.2S"
09 |   profiles="urn:mpeg:dash:profile:isoff-on-demand:2011">
10 |
11 |   <BaseURL>http://cdn1.example.com/</BaseURL>
12 |   <BaseURL>http://cdn2.example.com/</BaseURL>
13 |
14 |   <Period>
15 |     <!-- English Audio -->
16 |     <AdaptationSet mimeType="audio/mp4" codecs="mp4a.40.2" lang="en"
17 |       subsegmentAlignment="true" subsegmentStartsWithSAP="1">
18 |       <ContentProtection schemeIdUri="urn:uuid:706D6953-656C-5244-4D48-656164657221"/>
19 |       <Representation id="1" bandwidth="64000">
20 |         <BaseURL>7657412348.mp4</BaseURL>
21 |       </Representation>
22 |       <Representation id="2" bandwidth="32000">
23 |         <BaseURL>3463646346.mp4</BaseURL>
24 |       </Representation>
25 |     </AdaptationSet>
26 |     <!-- Video -->
27 |     <AdaptationSet mimeType="video/mp4" codecs="avc1.4d0228"
28 |       subsegmentAlignment="true" subsegmentStartsWithSAP="2">
29 |       <ContentProtection schemeIdUri="urn:uuid:706D6953-656C-5244-4D48-656164657221"/>
30 |       <Representation id="6" bandwidth="256000" width="320" height="240">
31 |         <BaseURL>8563456473.mp4</BaseURL>
32 |       </Representation>
33 |       <Representation id="7" bandwidth="512000" width="320" height="240">
34 |         <BaseURL>56363634.mp4</BaseURL>
35 |       </Representation>
36 |       <Representation id="8" bandwidth="1024000" width="640" height="480">
37 |         <BaseURL>562465736.mp4</BaseURL>
38 |       </Representation>
39 |       <Representation id="9" bandwidth="1384000" width="640" height="480">
40 |         <BaseURL>41325645.mp4</BaseURL>
41 |       </Representation>
42 |       <Representation id="A" bandwidth="1536000" width="1280" height="720">
43 |         <BaseURL>89045625.mp4</BaseURL>
44 |       </Representation>
45 |       <Representation id="B" bandwidth="2048000" width="1280" height="720">
46 |         <BaseURL>23536745734.mp4</BaseURL>
47 |       </Representation>
48 |     </AdaptationSet>
49 |   </Period>
50 | </MPD>

```

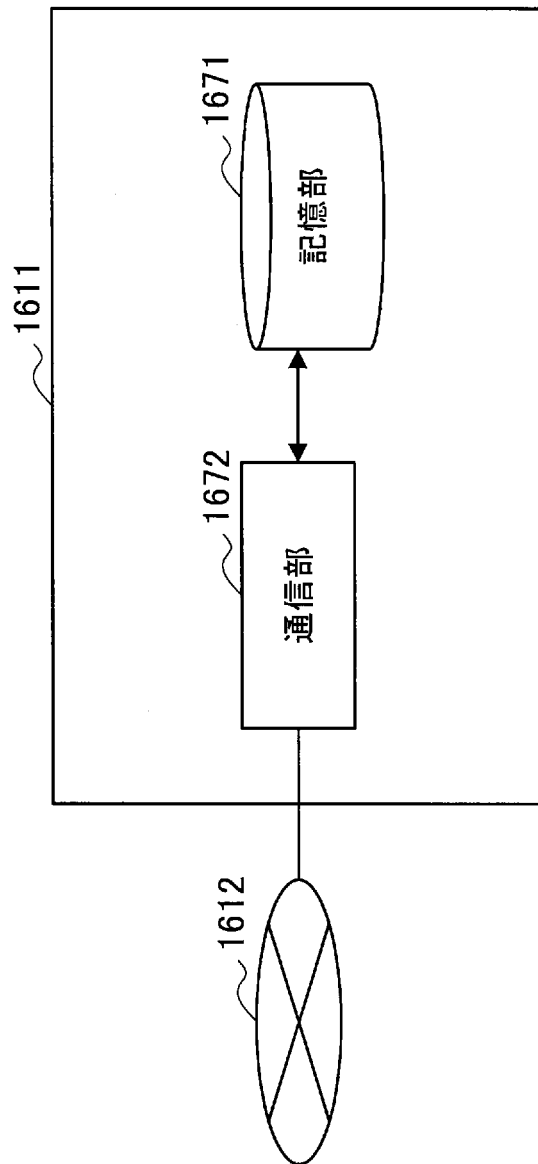
[図34]



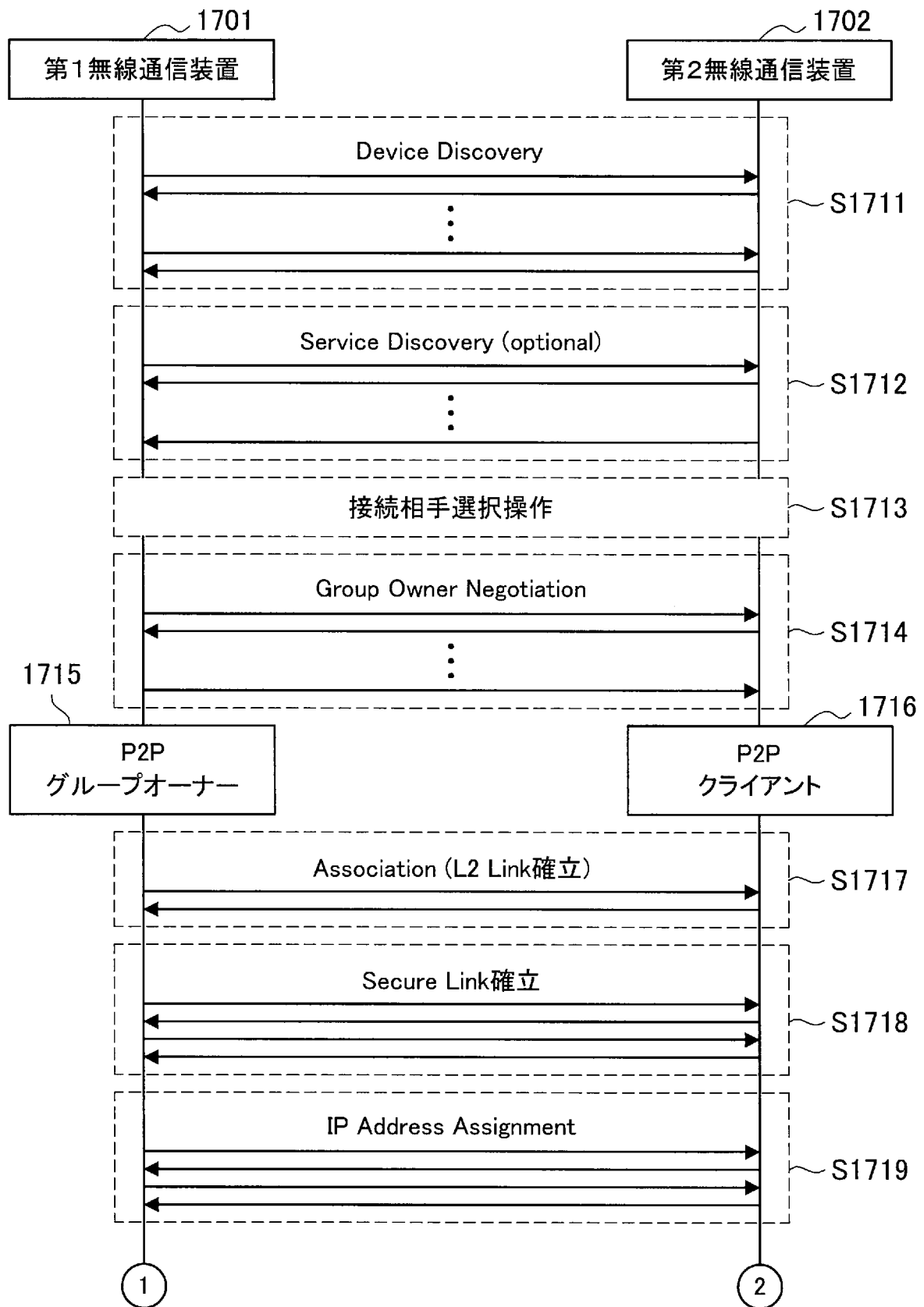
[図35]



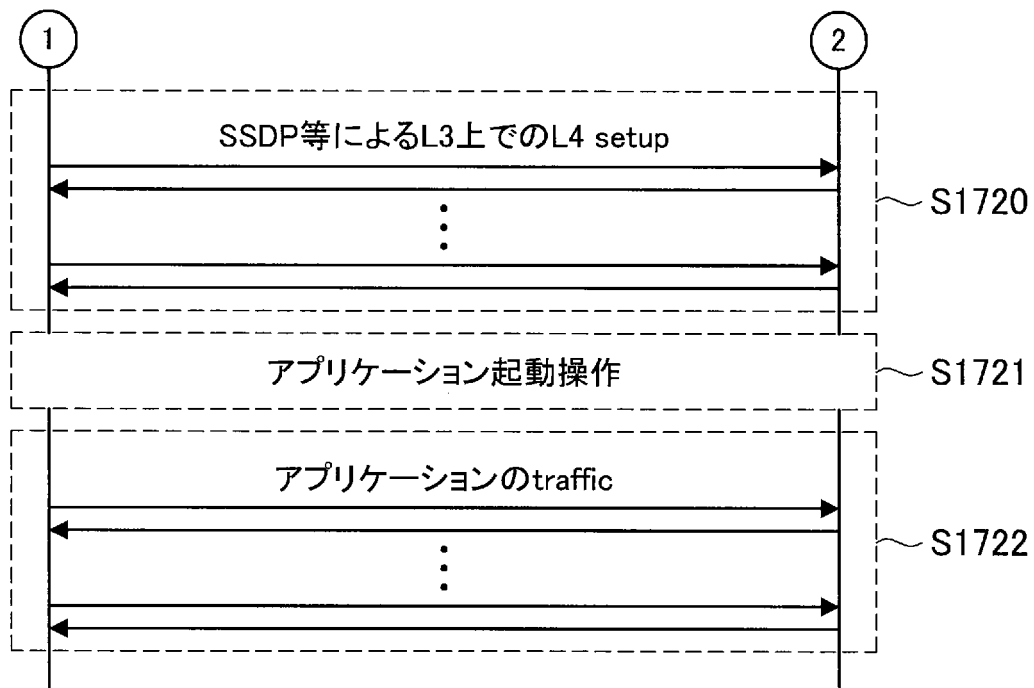
[図36]



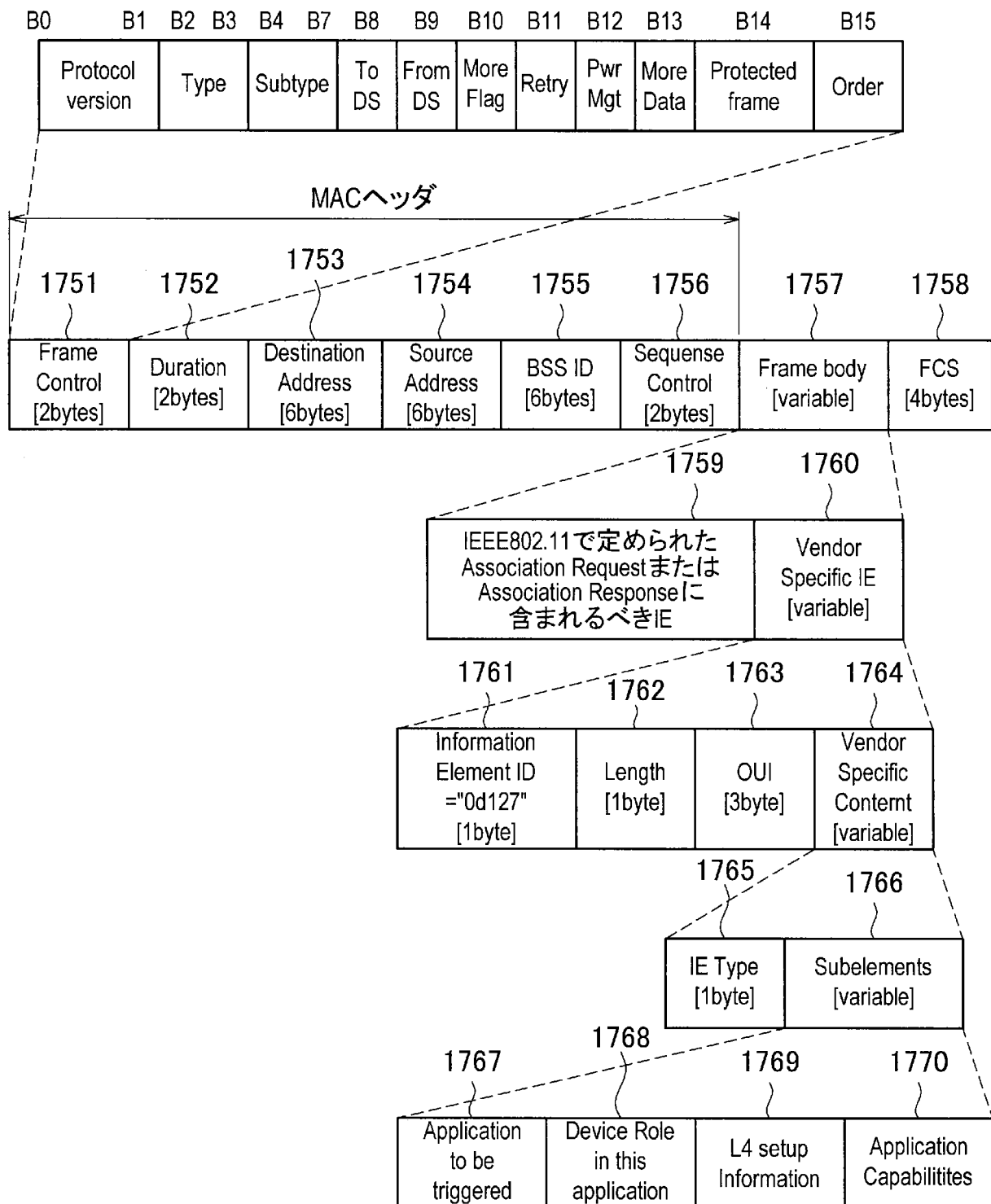
[図37]



[図38]



[図39]



[図40]

