

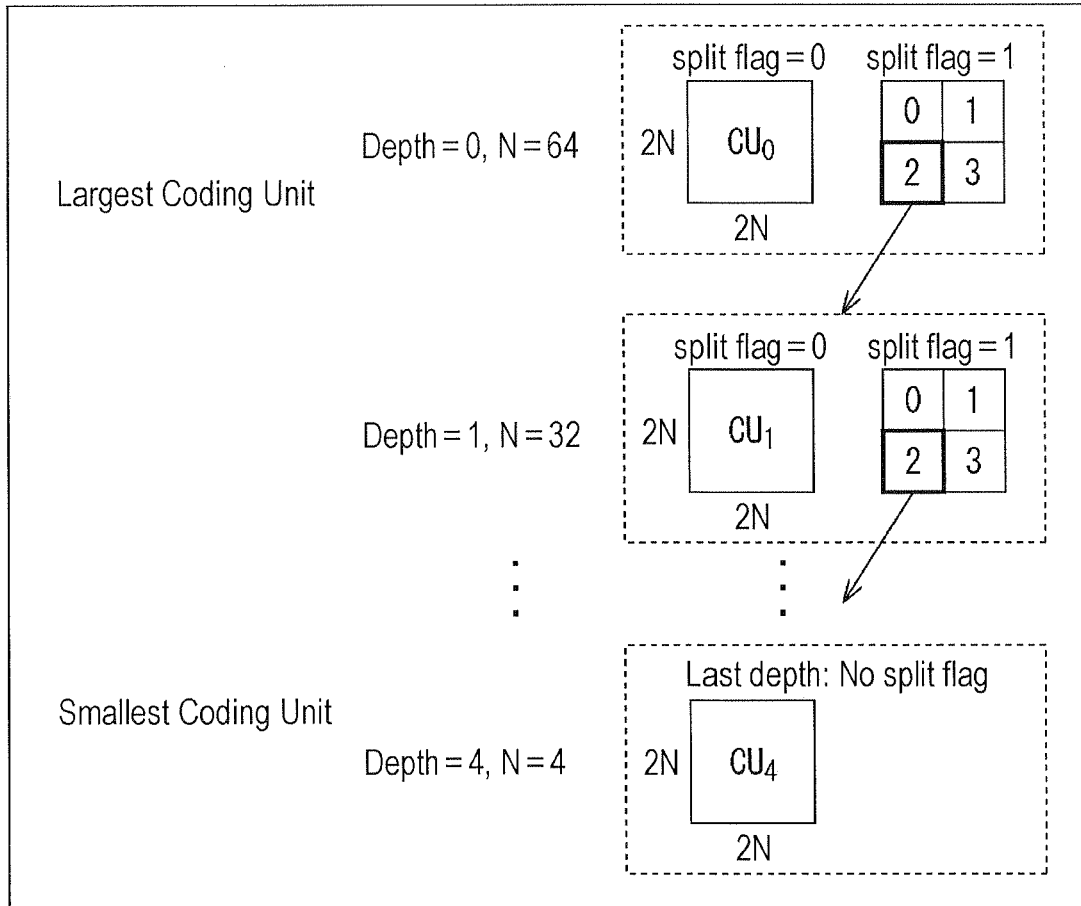
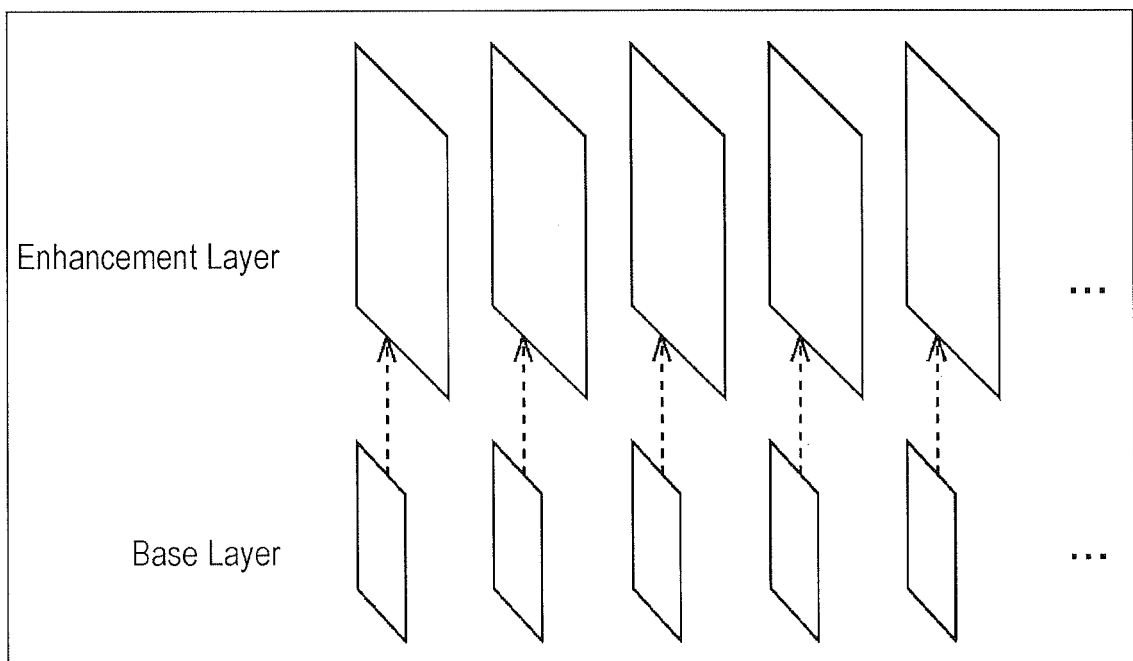
FIG. 1**FIG. 2**

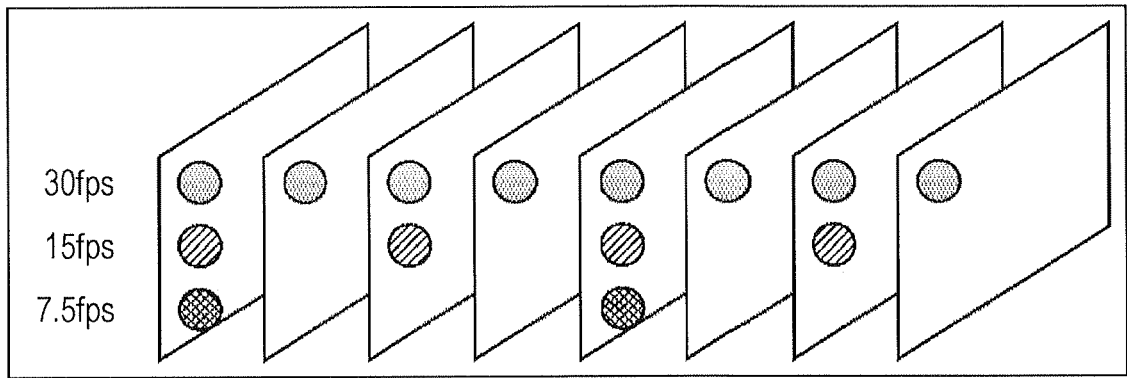
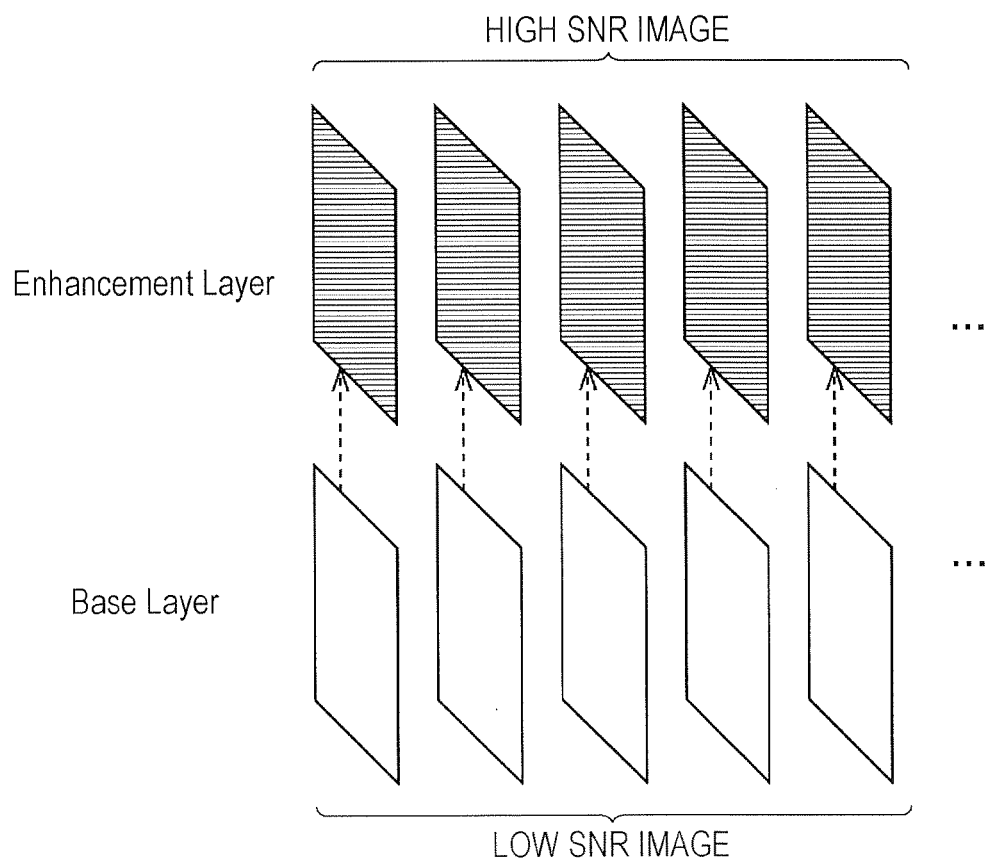
FIG. 3*FIG. 4*

FIG. 5

video_parameter_set_rbsp() {	Descriptor
video_parameter_set_id	u (4)
vps_temporal_id_nesting_flag	u (1)
vps_reserved_zero_2bits	u (2)
vps_reserved_zero_6bits	u (6)
vps_max_sub_layers_minus1	u (3)
profile_and_level(1, vps_max_sub_layers_minus1)	
vps_reserved_zero_12bits	u (12)
for(i = 0; i <= vps_max_sub_layers_minus1; i++) {	
vps_max_dec_pic_buffering[i]	ue (v)
vps_max_num_reorder_pics[i]	ue (v)
vps_max_latency_increase[i]	ue (v)
}	
vps_num_hrd_parameters	ue (v)
for(i = 0; i < vps_num_hrd_parameters; i++) {	
if(i > 0)	
op_point(i)	
hrd_parameters(i == 0, vps_max_sub_layers_minus1)	
}	
vps_extension_flag	u (1)
if(vps_extension_flag)	
while(more_rbsp_data())	
vps_extension_data_flag	u (1)
}	
rbsp_trailing_bits()	
}	

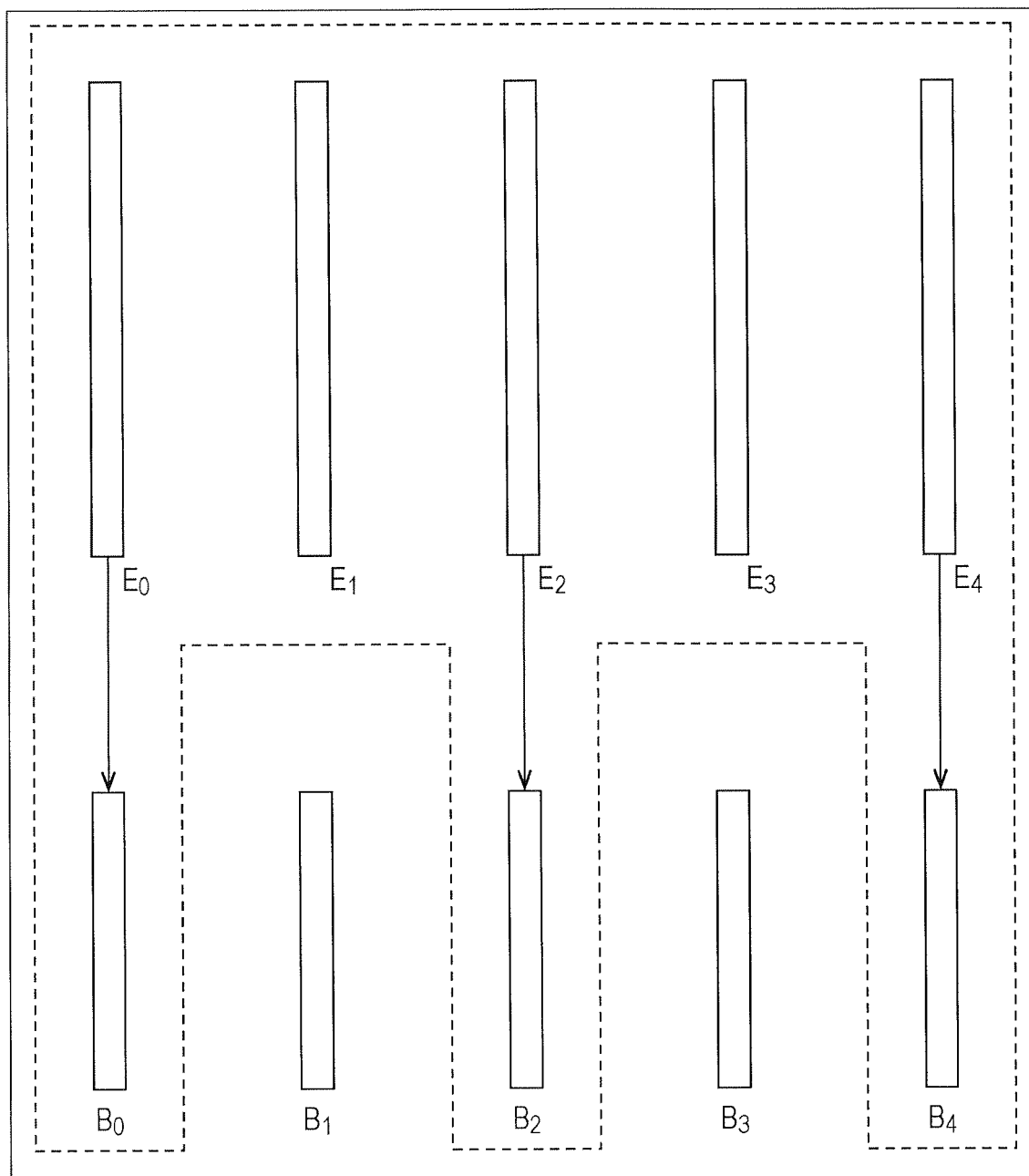
FIG. 6

FIG. 7

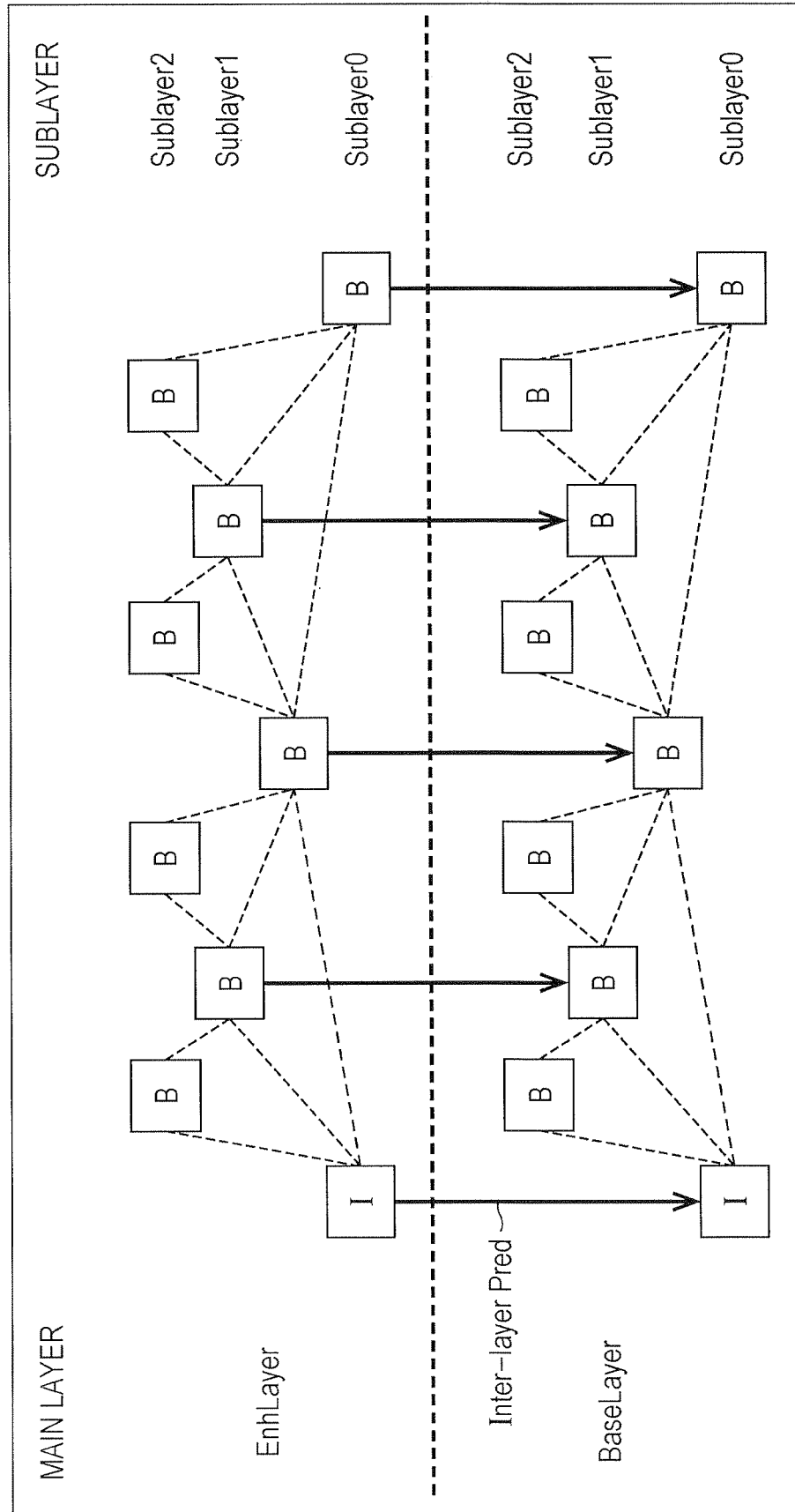


FIG. 8

video_parameter_set_rbsp() {	Descriptor
video_parameter_set_id	u(4)
vps_temporal_id_nesting_flag	u(1)
vps_reserved_zero_2bits	u(2)
vps_reserved_zero_6bits	u(6)
max_layer_minus1	u(3)
vps_max_sub_layers_minus1	u(3)
for(i = 1; i <= max_layers_minus1; i++)	
max_sub_layer_for_inter_layer_prediction[i]	u(3)
profile_and_level(1, vps_max_sub_layers_minus1)	
vps_reserved_zero_12bits	u(12)
for(i = 0; i <= vps_max_sub_layers_minus1; i++) {	
vps_max_dec_pic_buffering[i]	ue(v)
vps_max_num_reorder_pics[i]	ue(v)
vps_max_latency_increase[i]	ue(v)
}	
vps_num_hrd_parameters	ue(v)
for(i = 0; i < vps_num_hrd_parameters; i++) {	
if(i > 0)	
op_point(i)	
hrd_parameters(i == 0, vps_max_sub_layers_minus1)	
}	
vps_extension_flag	u(1)
if(vps_extension_flag)	
while(more_rbsp_data())	
vps_extension_data_flag	u(1)
}	
rbsp_trailing_bits()	
}	

FIG. 10

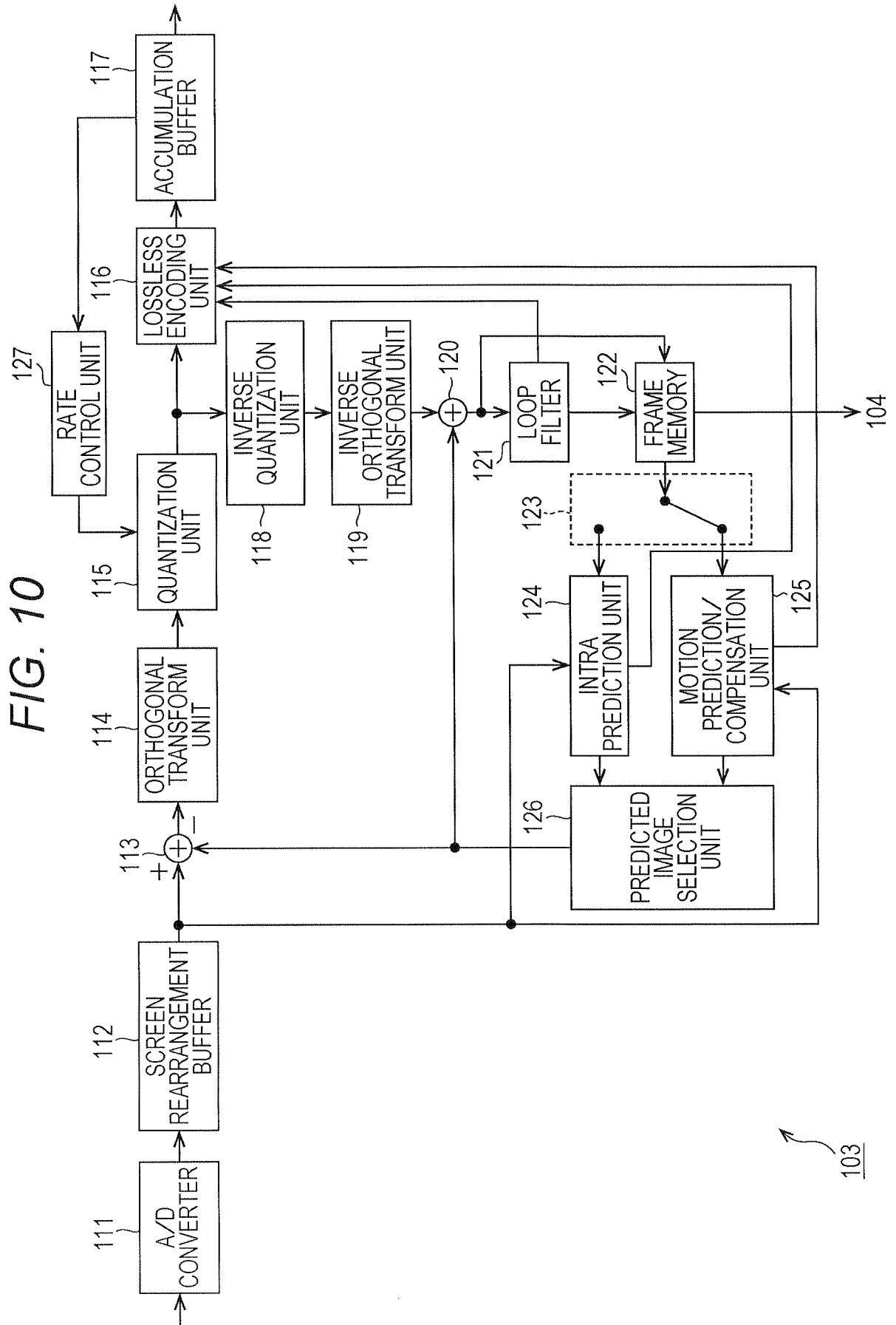


FIG. 11

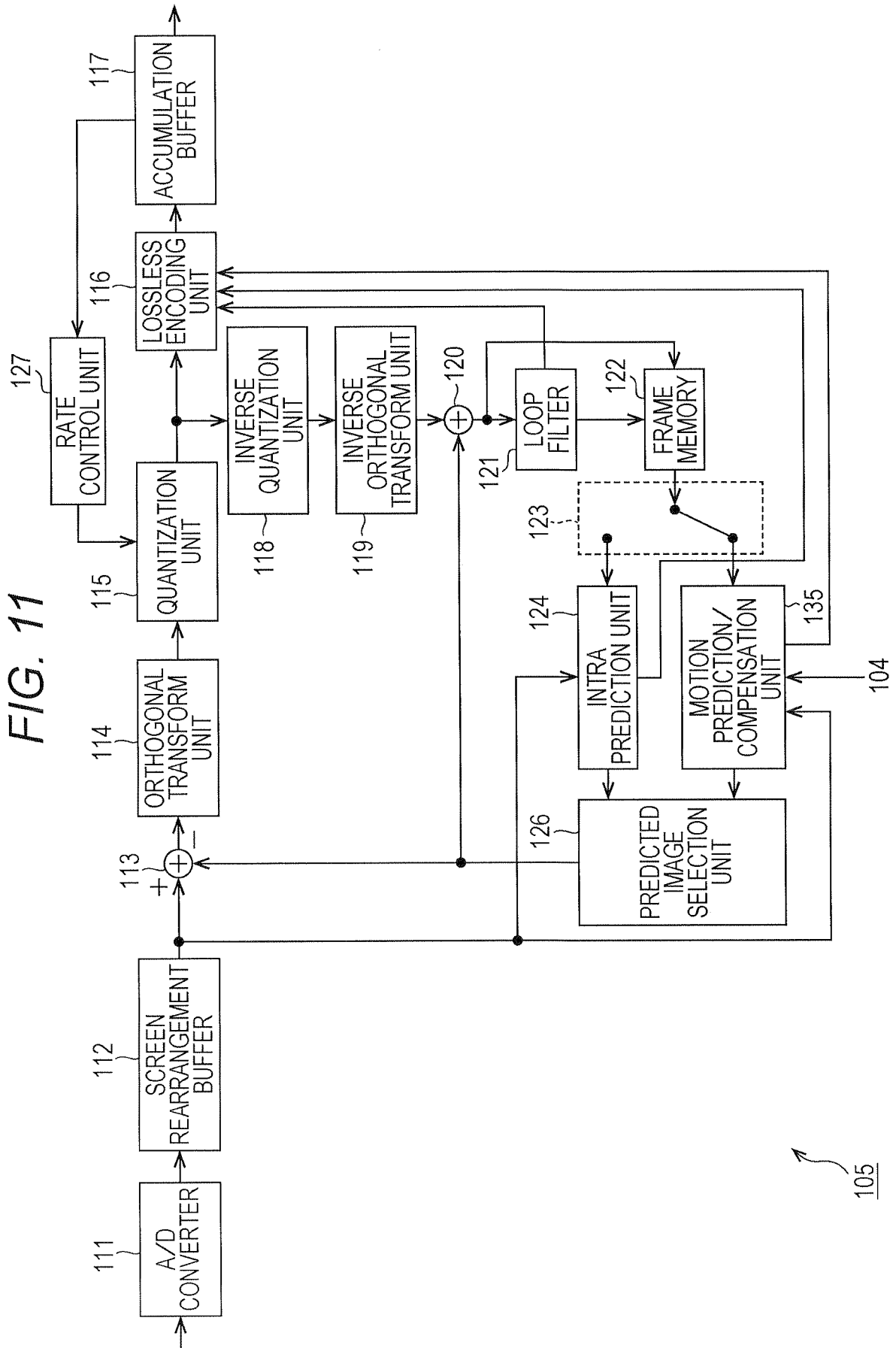


FIG. 12

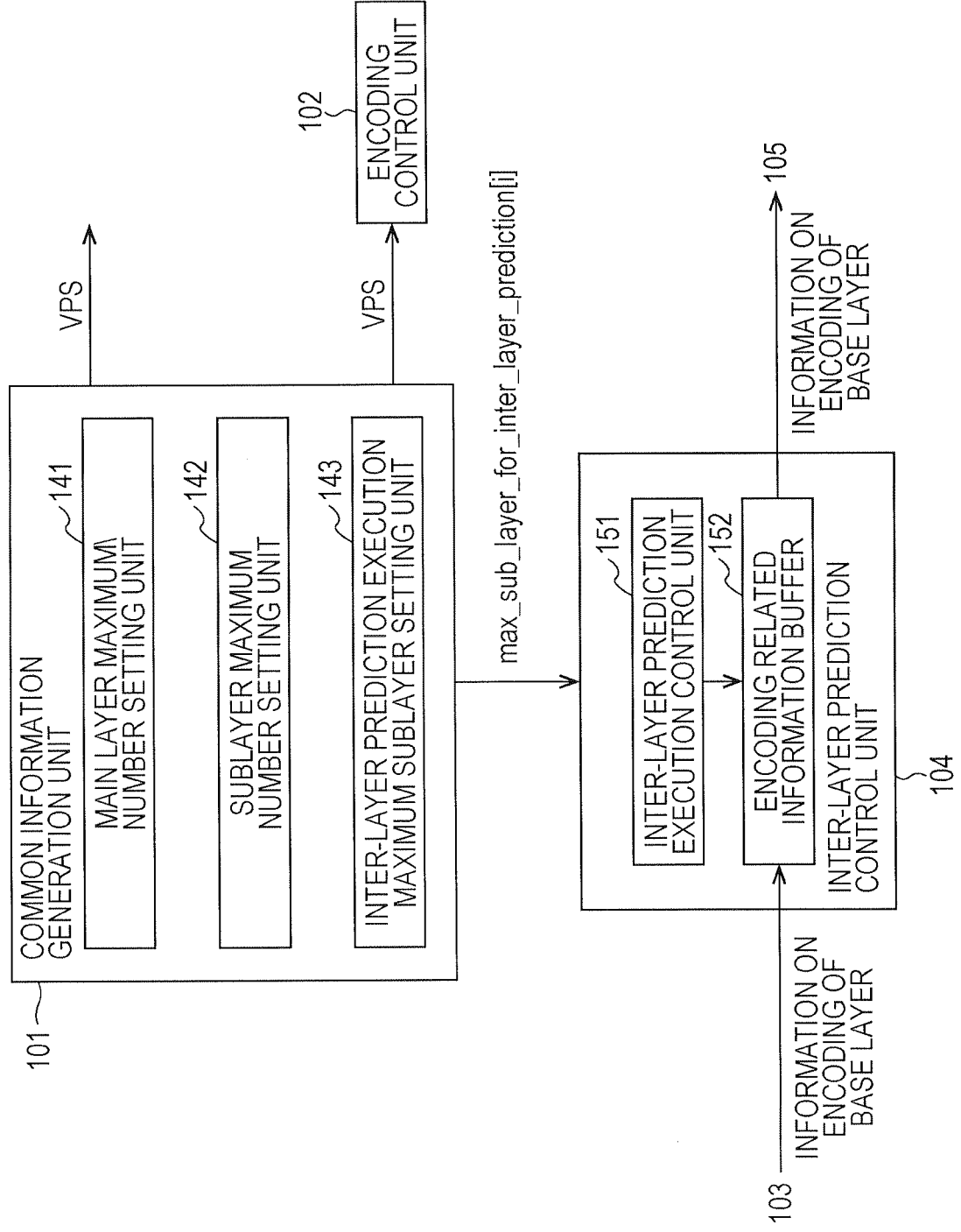


FIG. 13

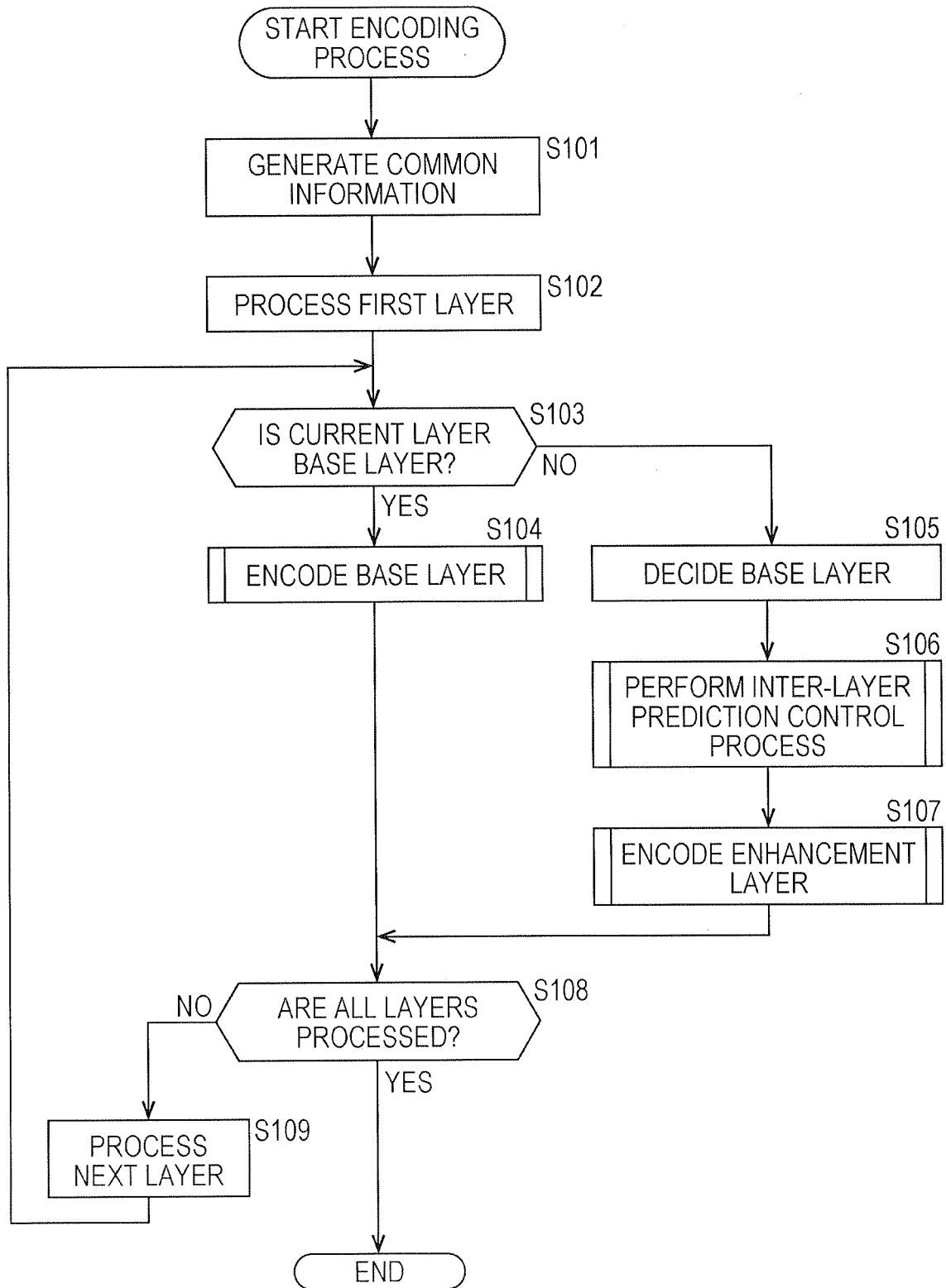


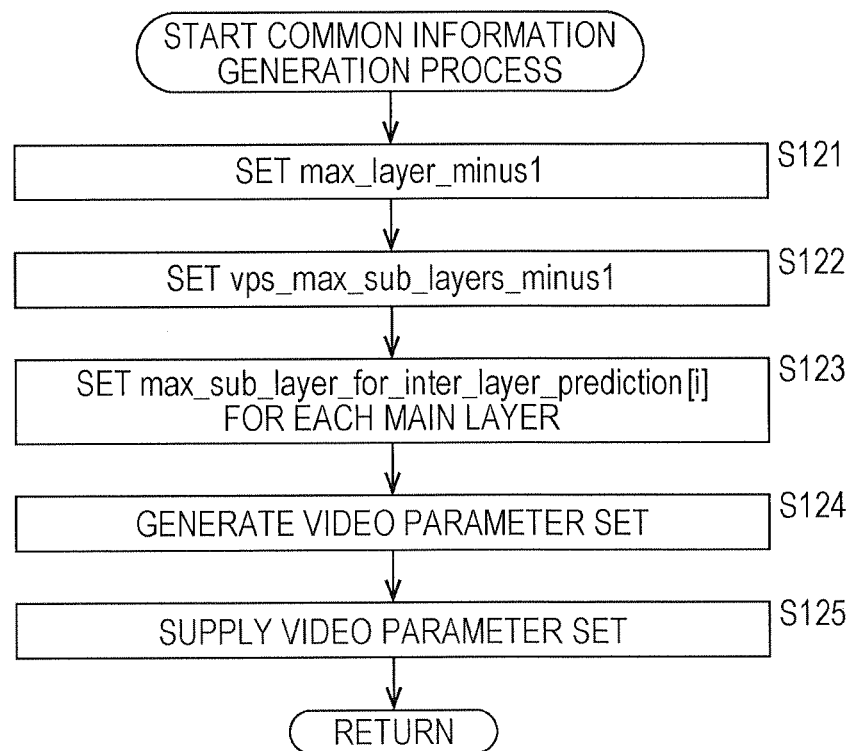
FIG. 14

FIG. 15

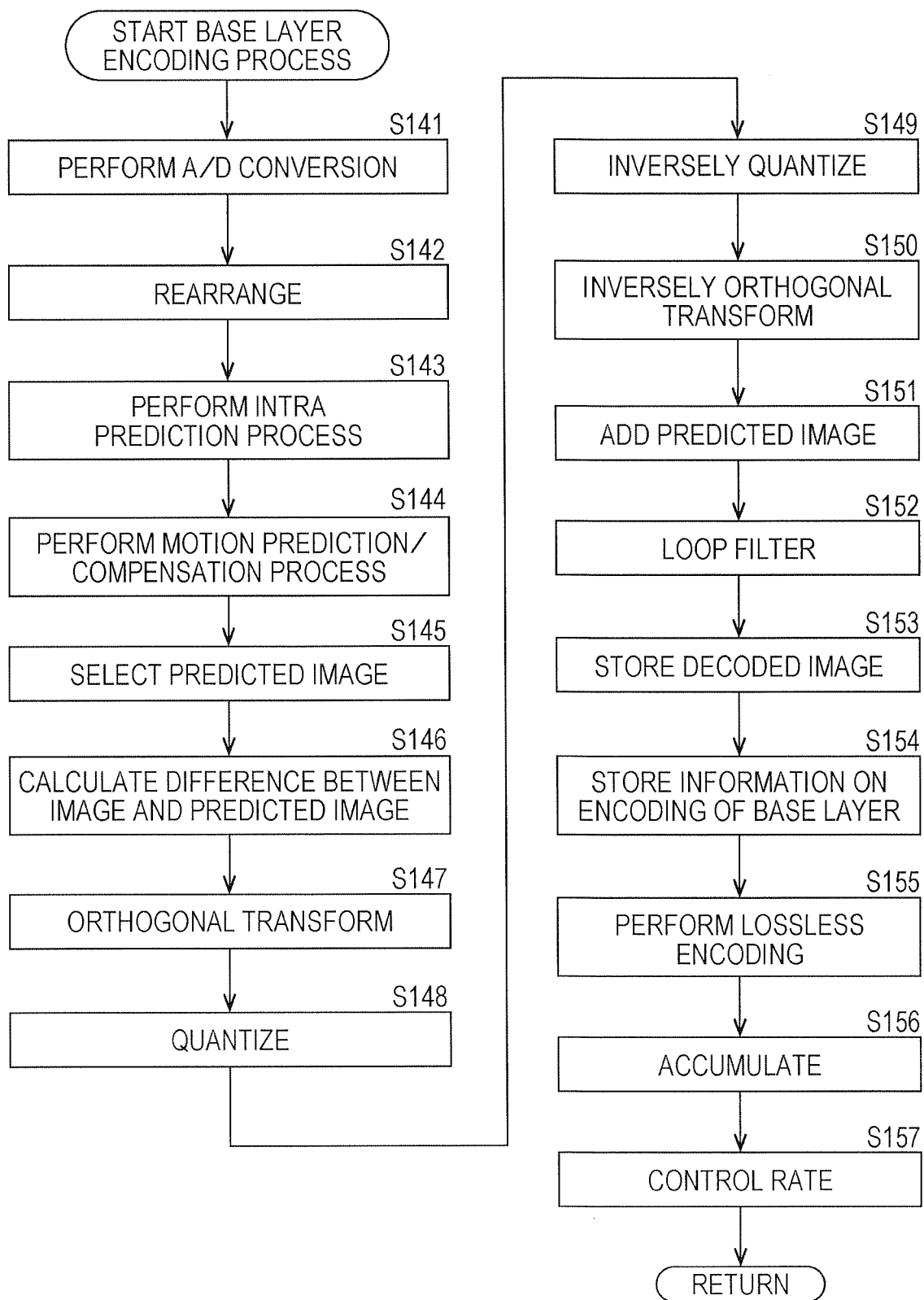


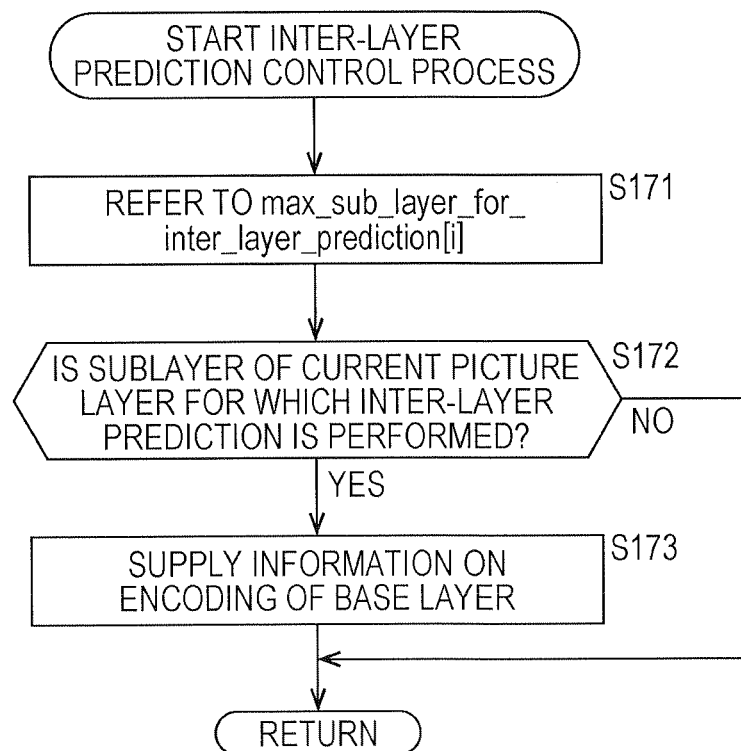
FIG. 16

FIG. 17

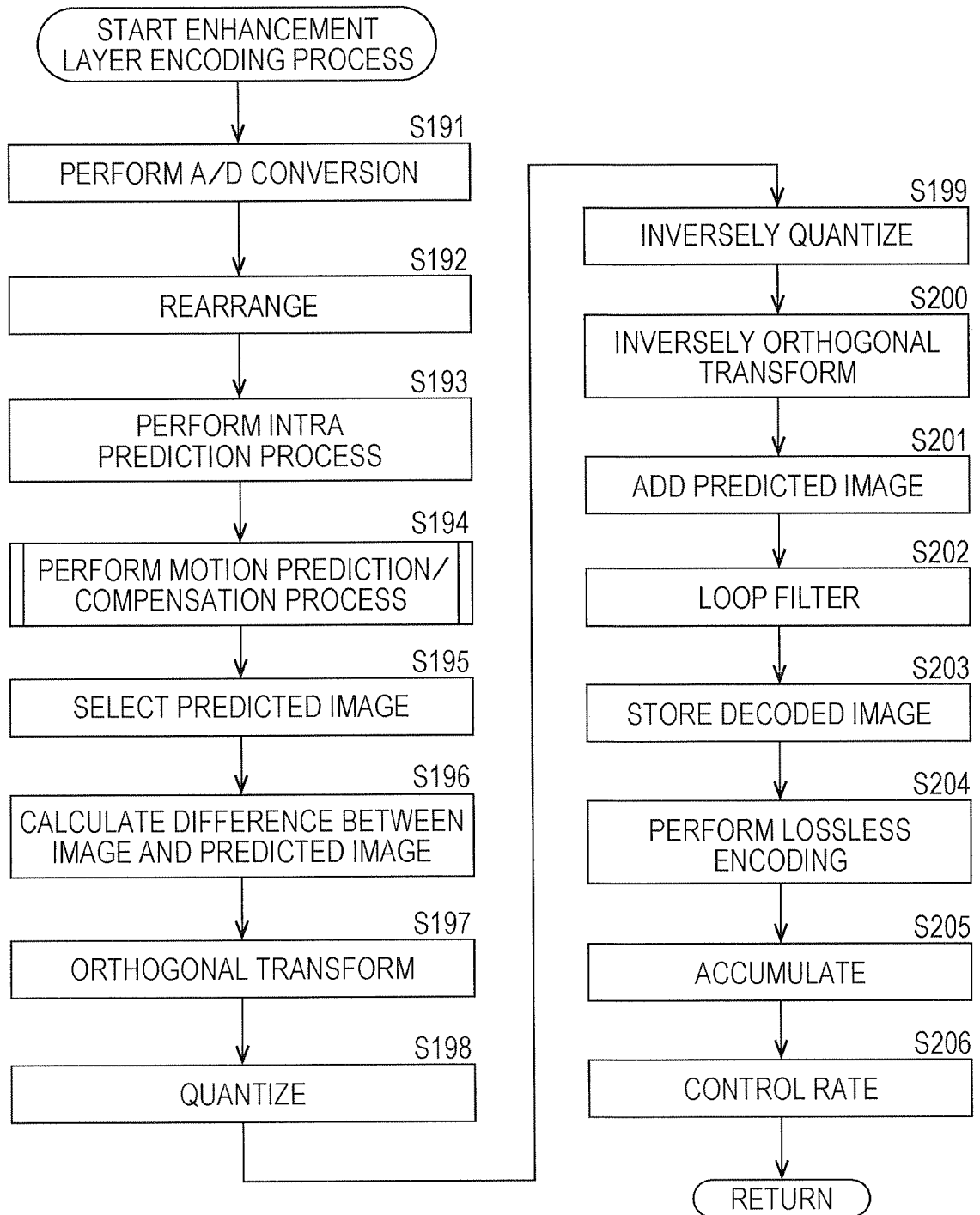


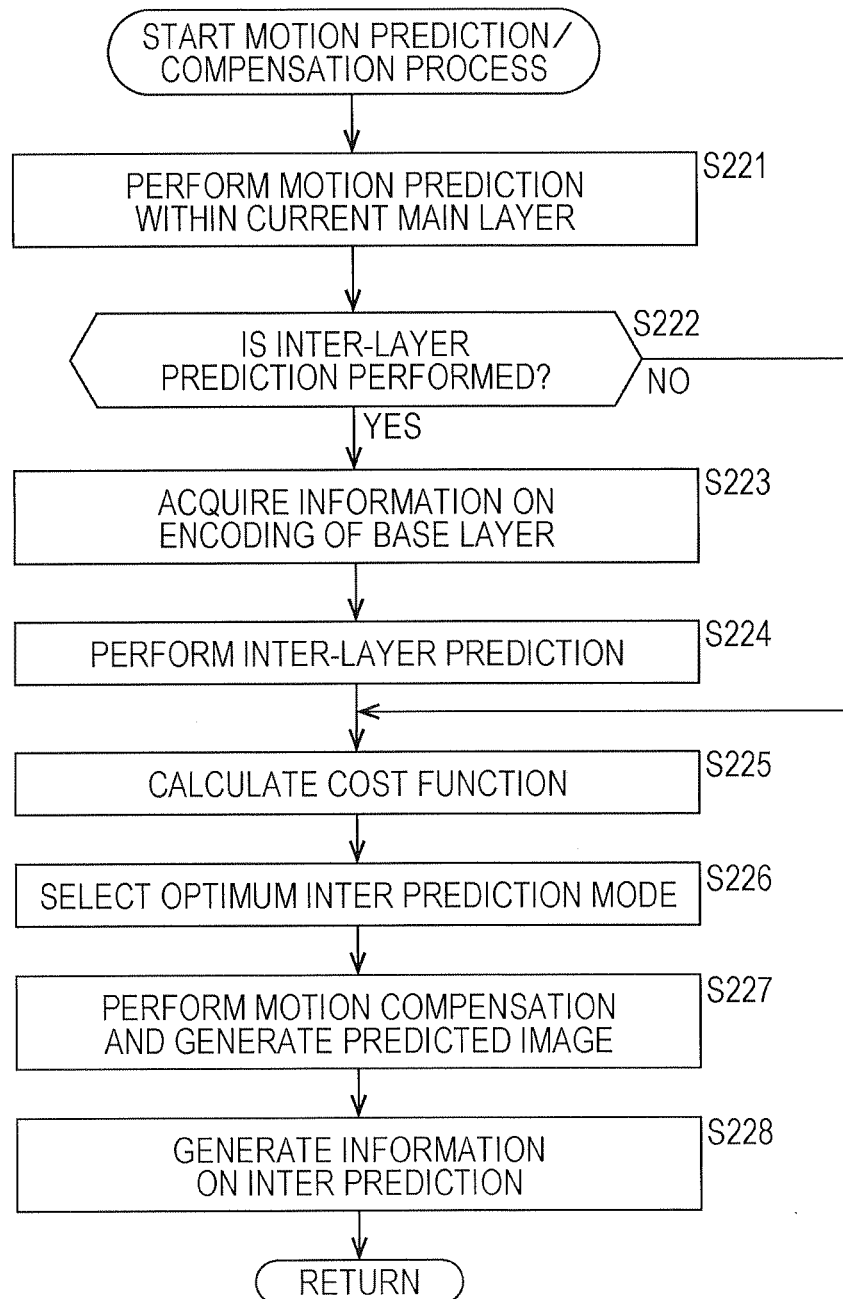
FIG. 18

FIG. 19

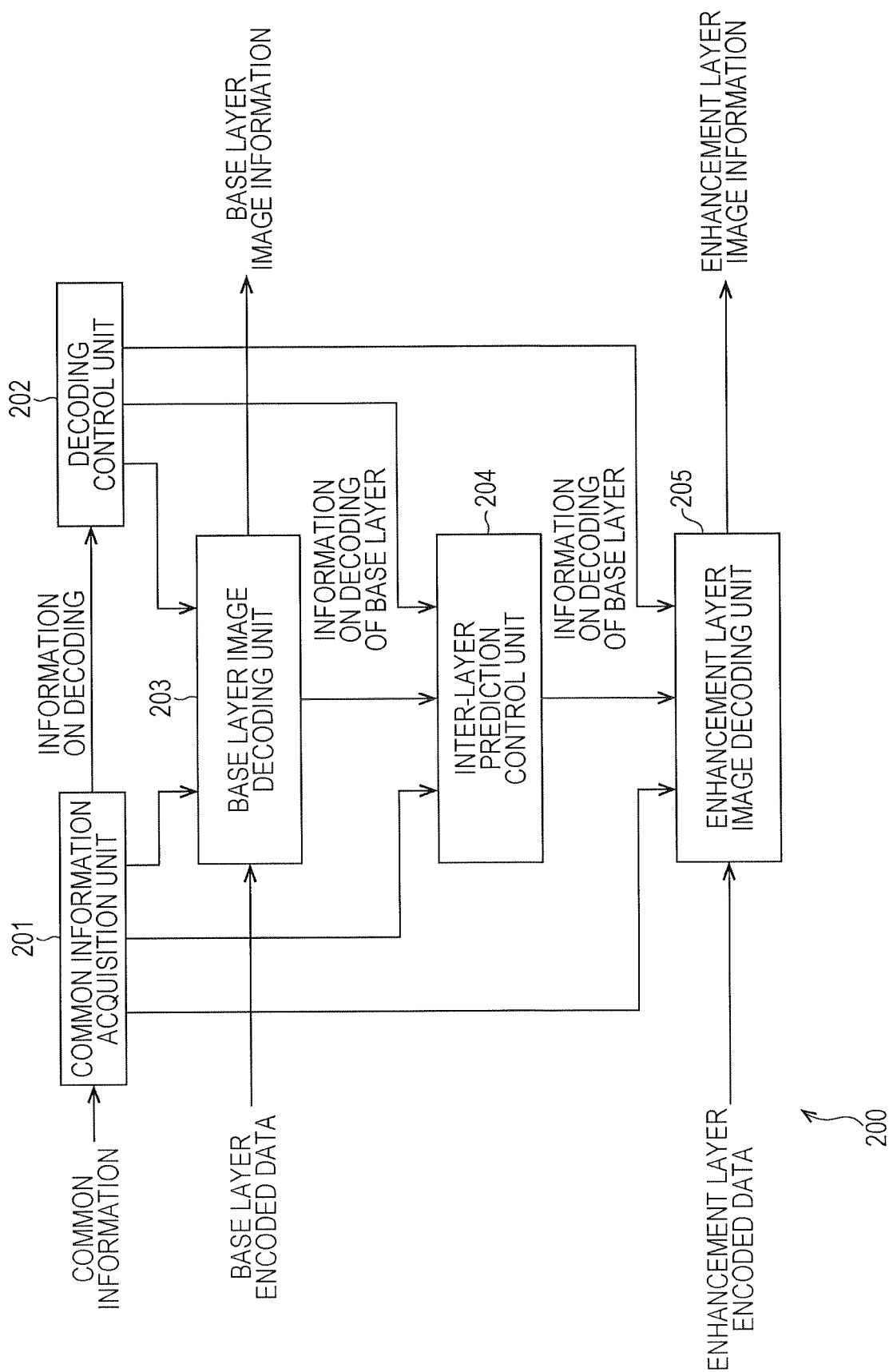


FIG. 20

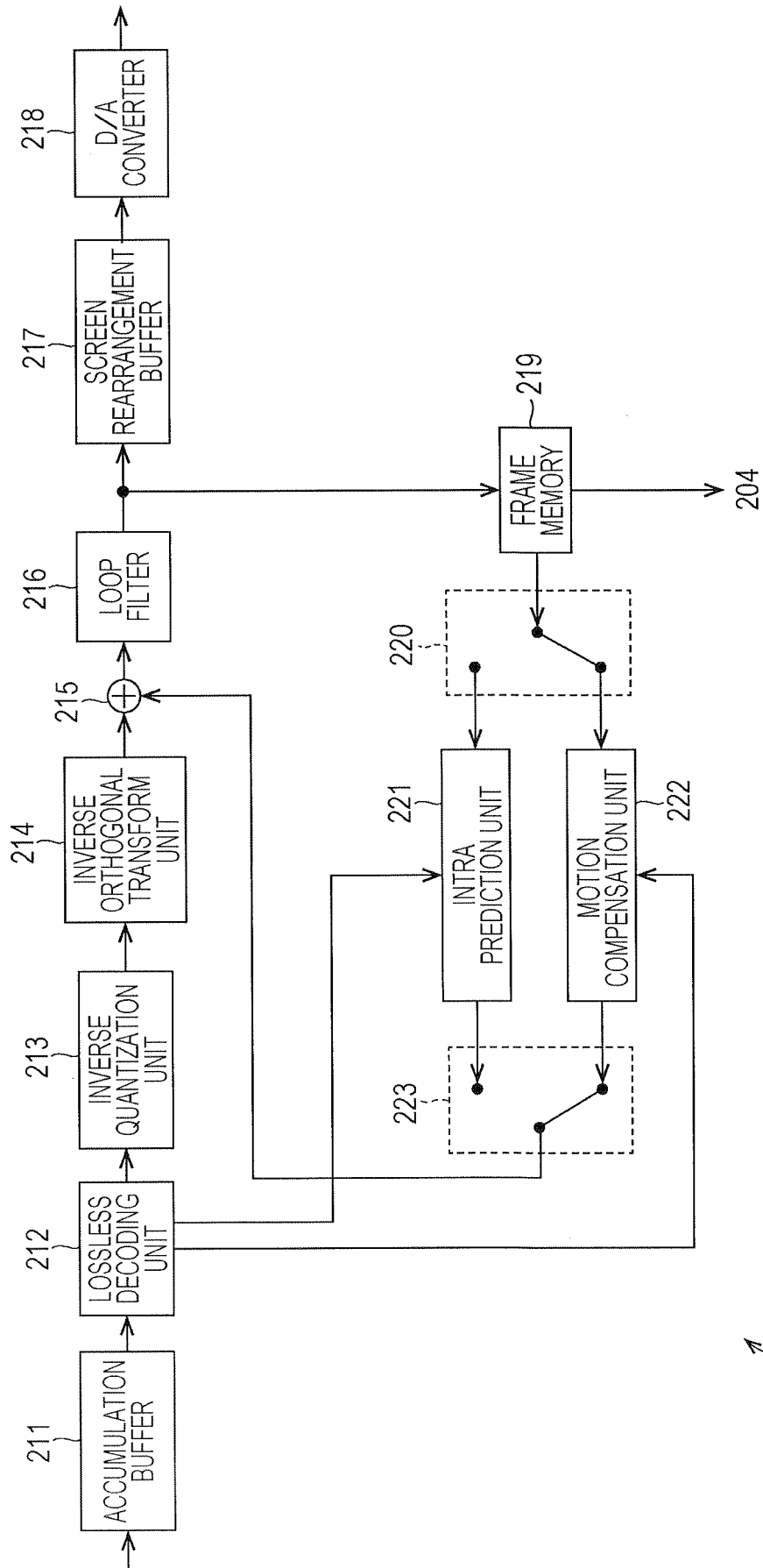


FIG. 21

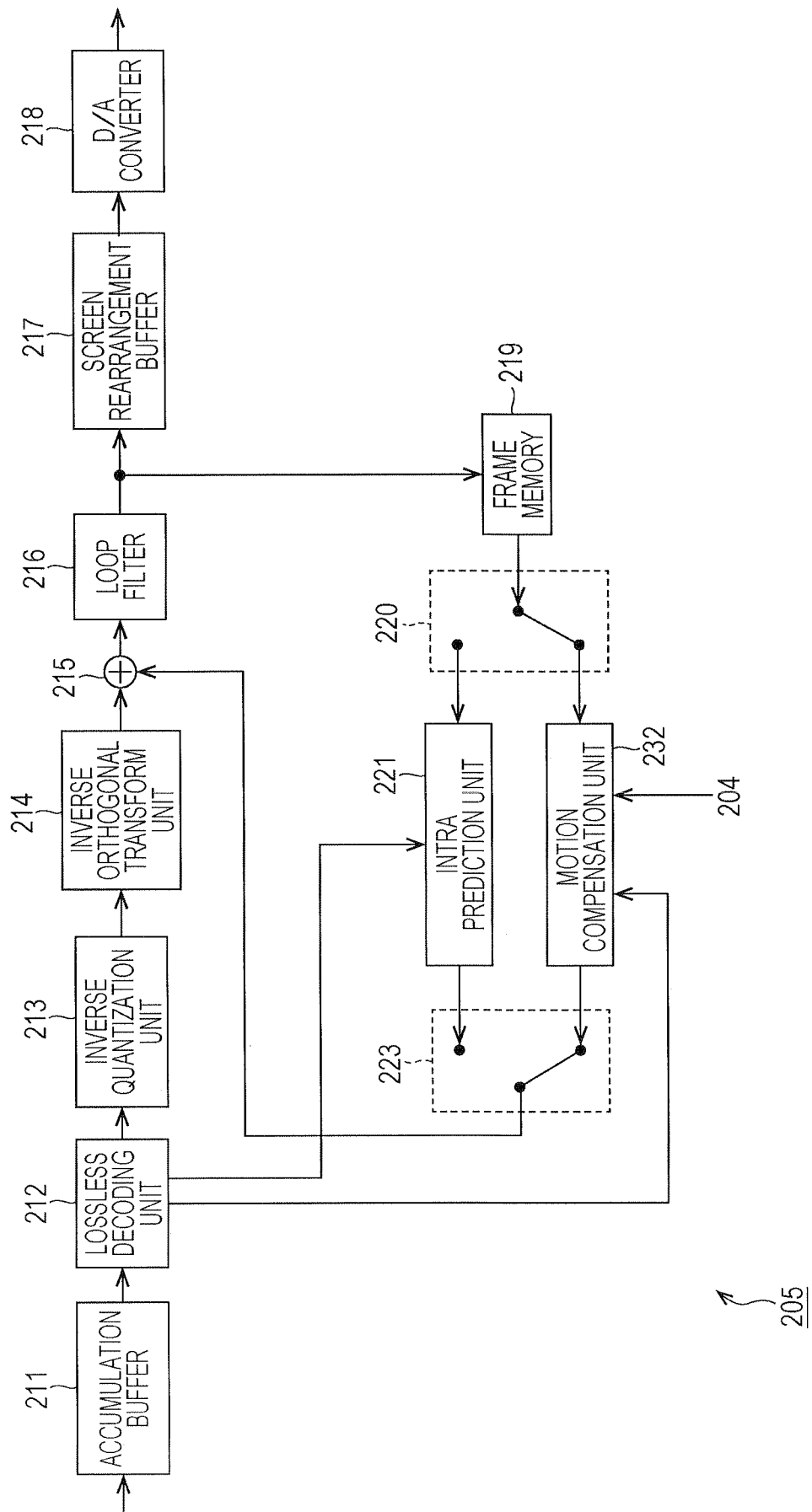


FIG. 22

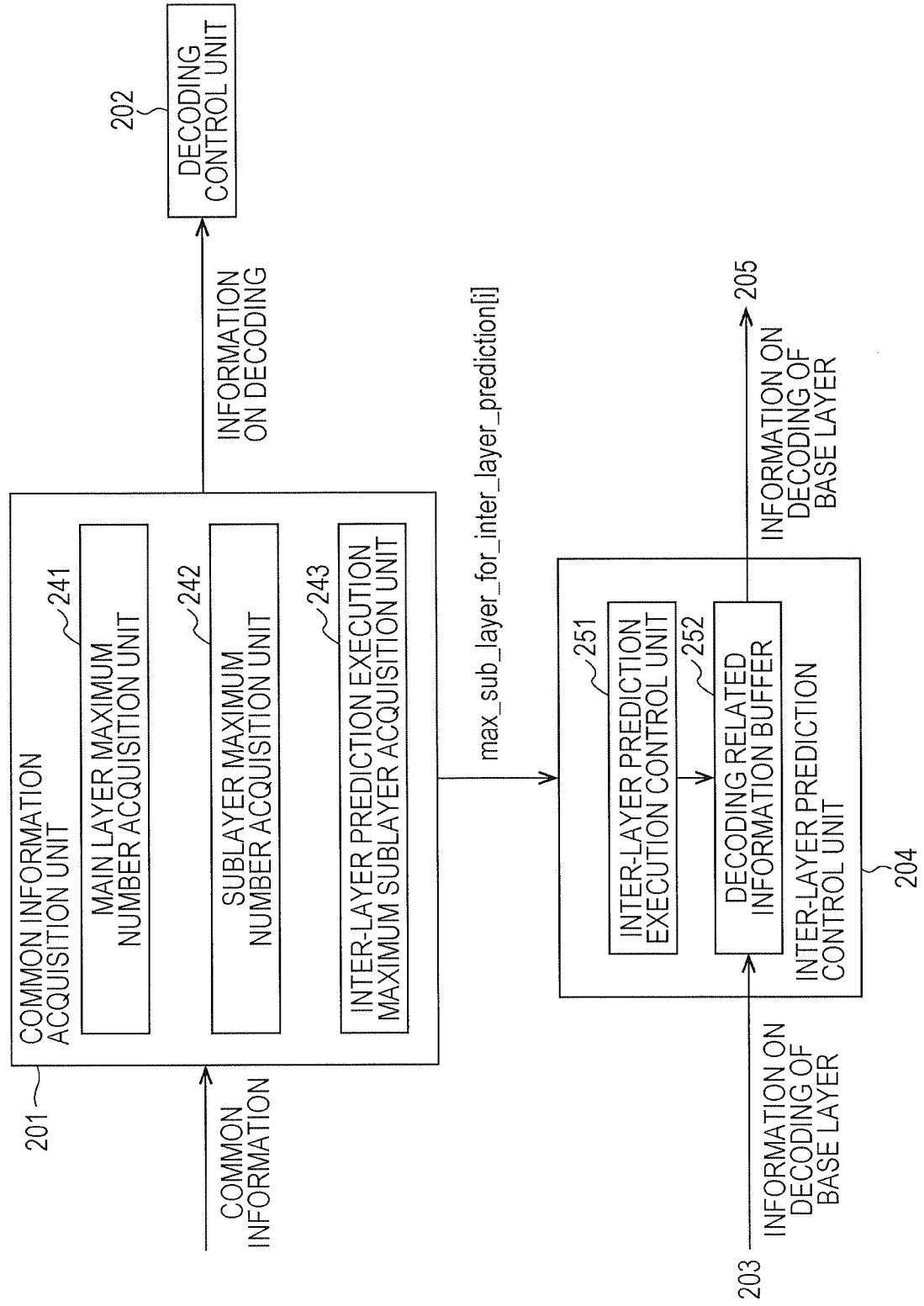


FIG. 23

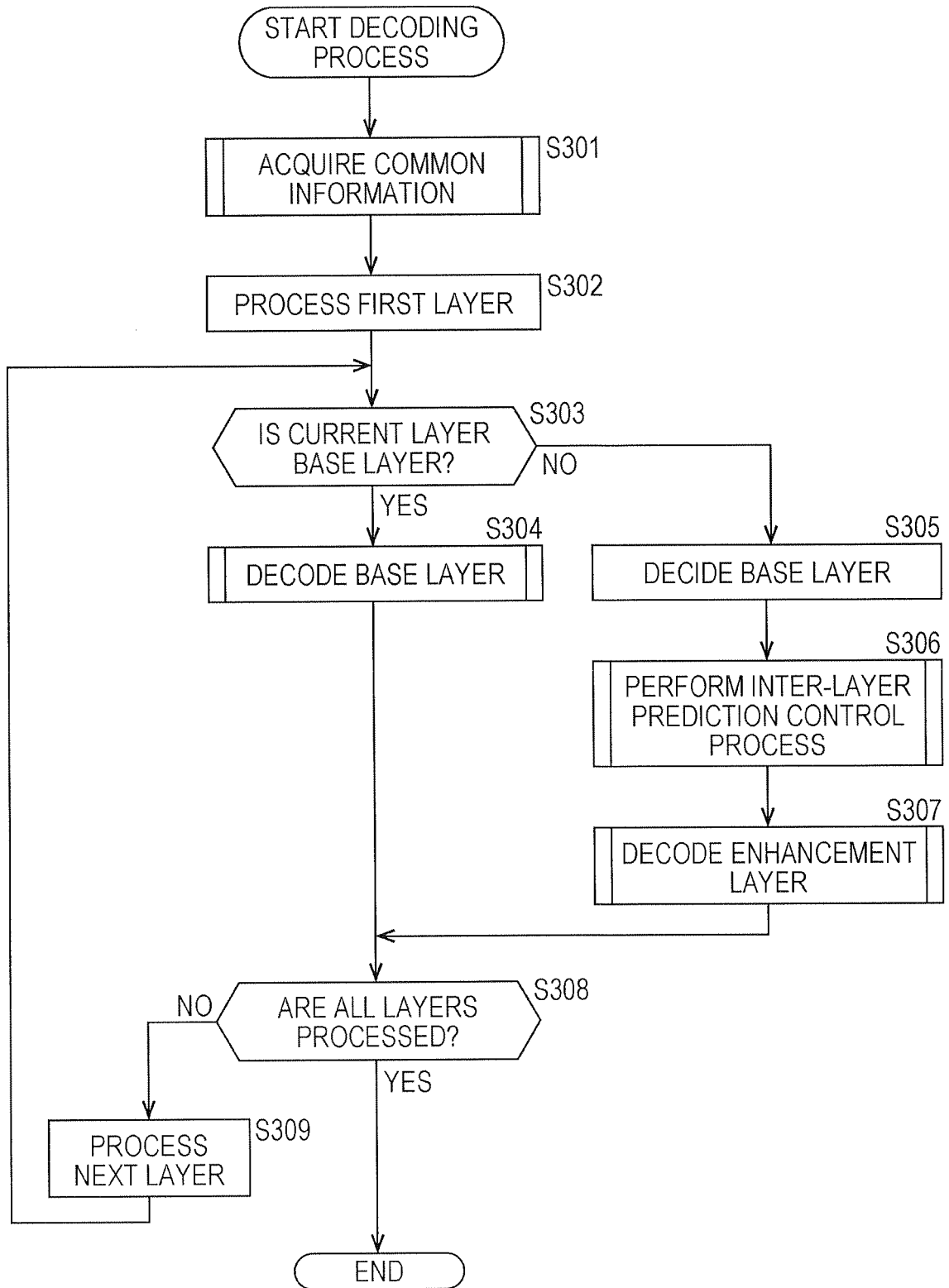


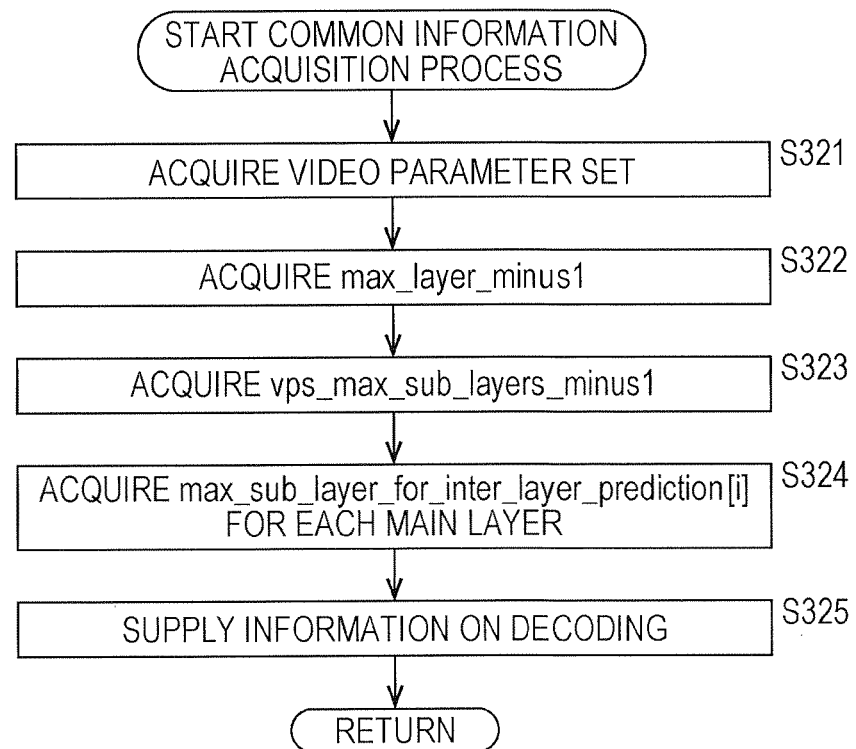
FIG. 24

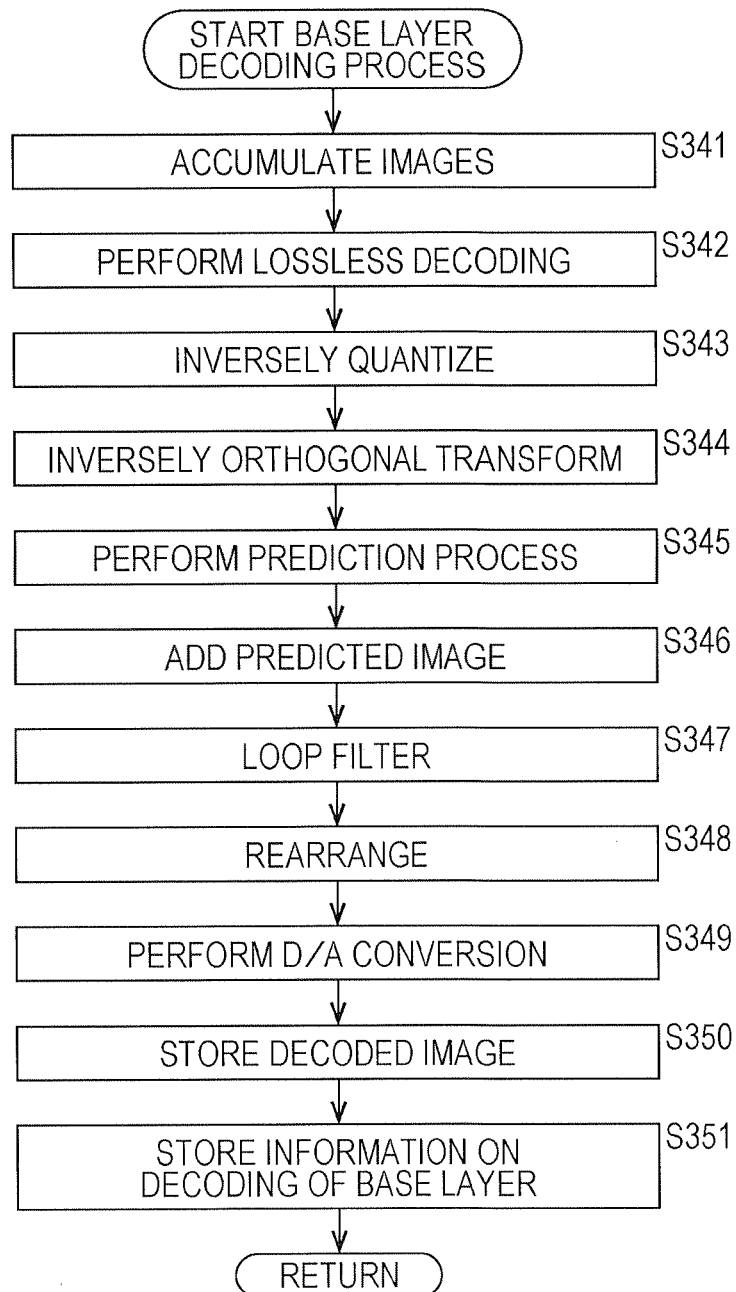
FIG. 25

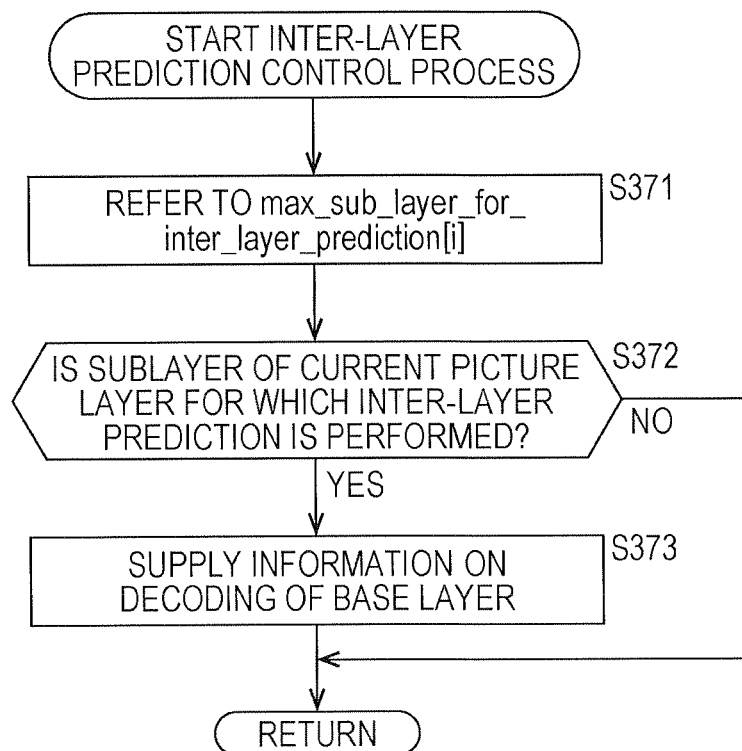
FIG. 26

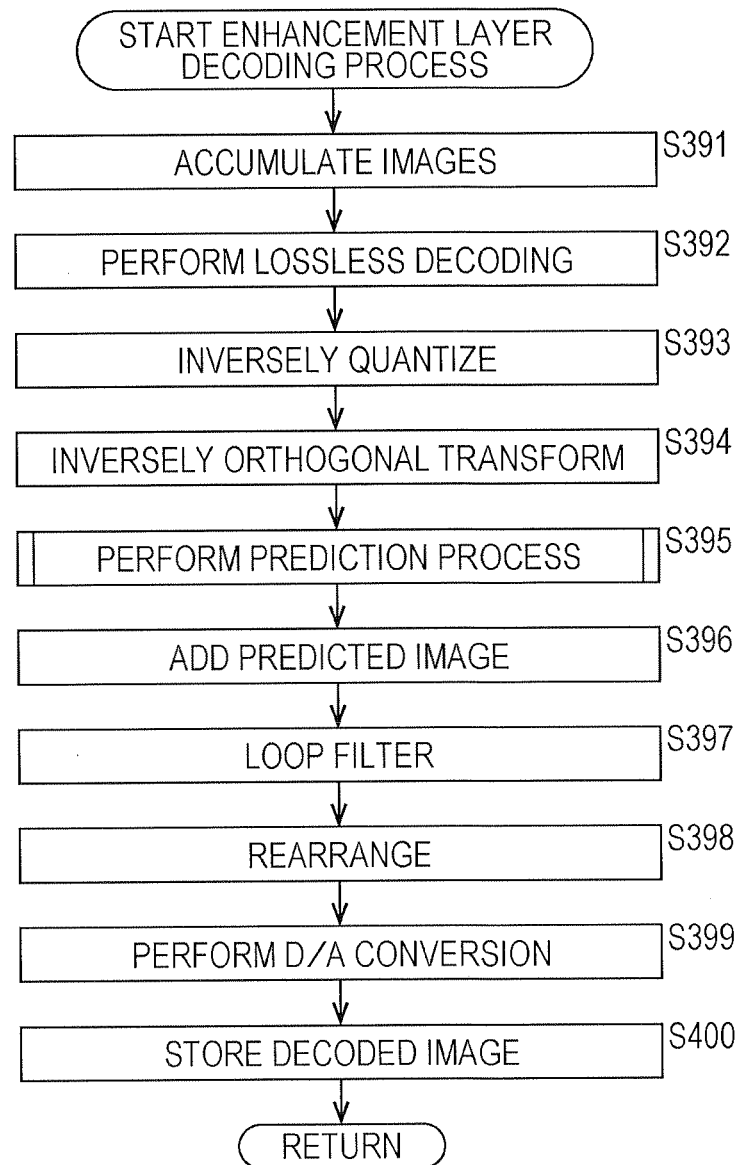
FIG. 27

FIG. 28

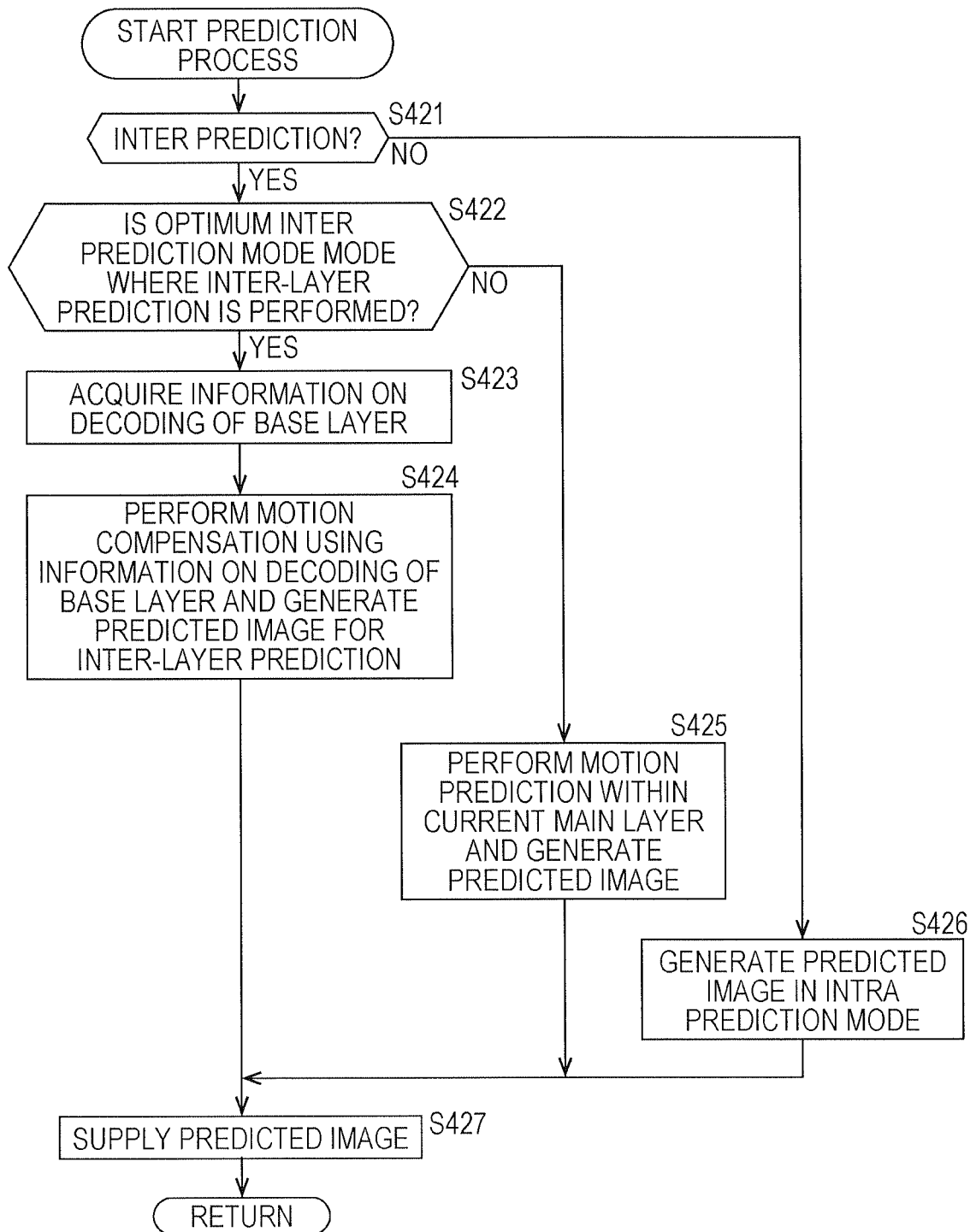


FIG. 29

	Descriptor
video_parameter_set_rbsp() {	
video_parameter_set_id	u(4)
vps_temporal_id_nesting_flag	u(1)
vps_reserved_zero_2bits	u(2)
vps_reserved_zero_6bits	u(6)
max_layer_minus1	u(3)
for(i = 0; i <= max_layer_minus1; i++)	
vps_num_sub_layers_minus1[i]	u(3)
for(i = 1; i <= max_layer_minus1; i++)	
max_sub_layer_for_inter_layer_prediction[i]	u(3)
profile_and_level(1, vps_max_sub_layers_minus1)	
vps_reserved_zero_12bits	u(12)
for(i = 0; i <= vps_max_sub_layers_minus1; i++) {	
vps_max_dec_pic_buffering[i]	ue(v)
vps_max_num_reorder_pics[i]	ue(v)
vps_max_latency_increase[i]	ue(v)
}	
vps_num_hrd_parameters	ue(v)
for(i = 0; i < vps_num_hrd_parameters; i++) {	
if(i > 0)	
op_point(i)	
hrd_parameters(i == 0, vps_max_sub_layers_minus1)	
}	
vps_extension_flag	u(1)
if(vps_extension_flag)	
while(more_rbsp_data())	
vps_extension_data_flag	u(1)
}	
rbbsp_trailing_bits()	
}	

FIG. 30

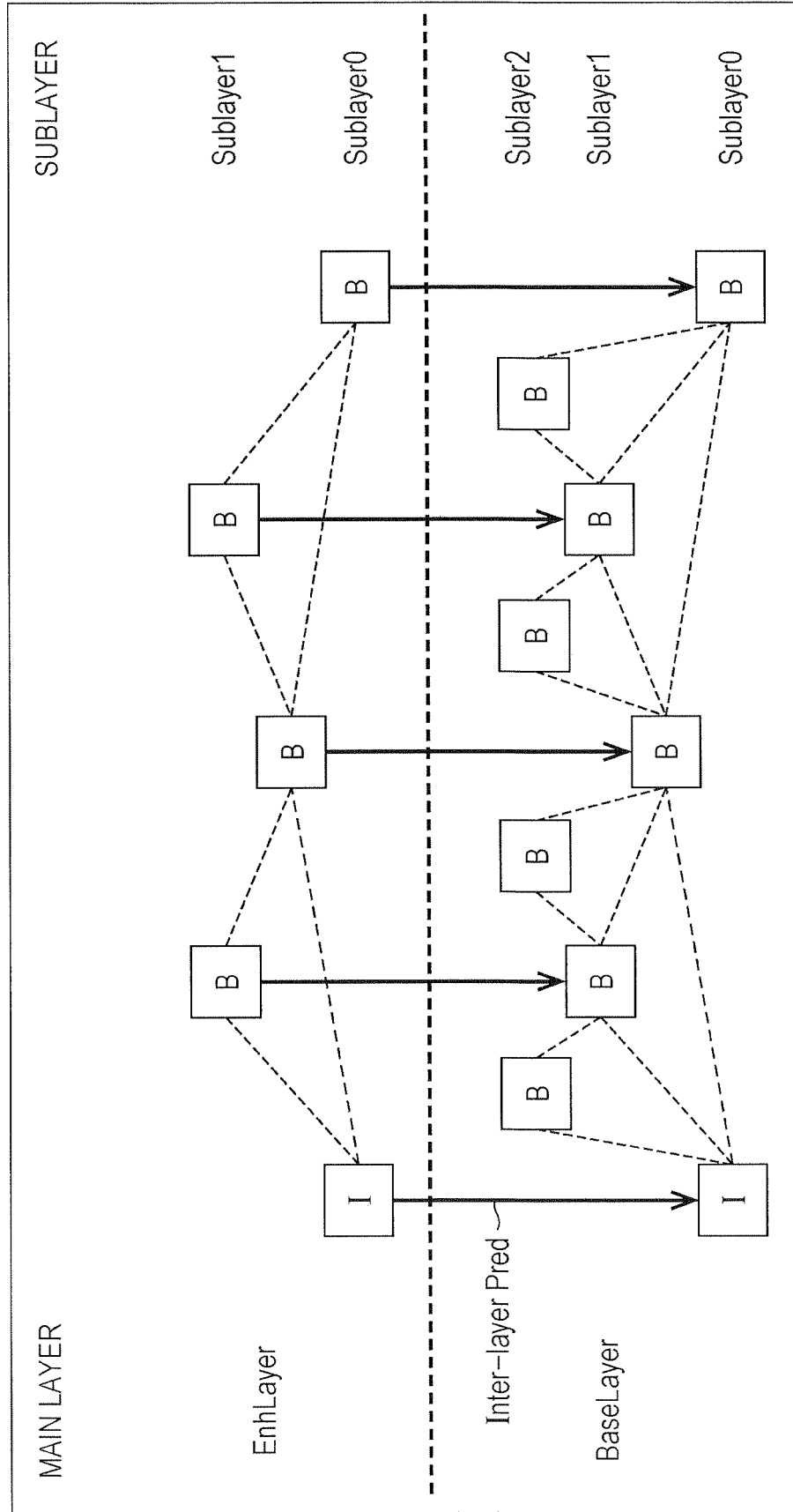


FIG. 31

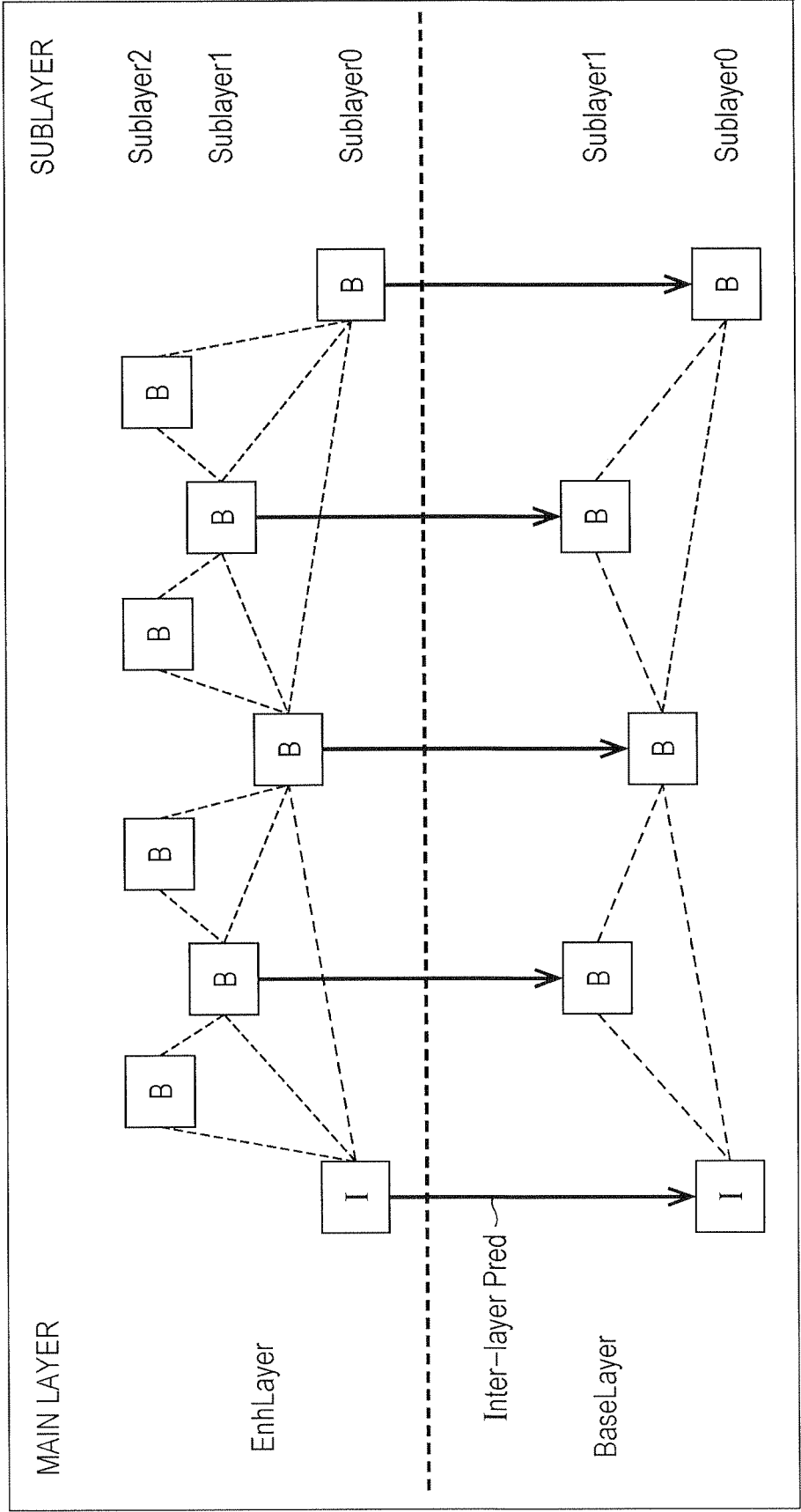


FIG. 32

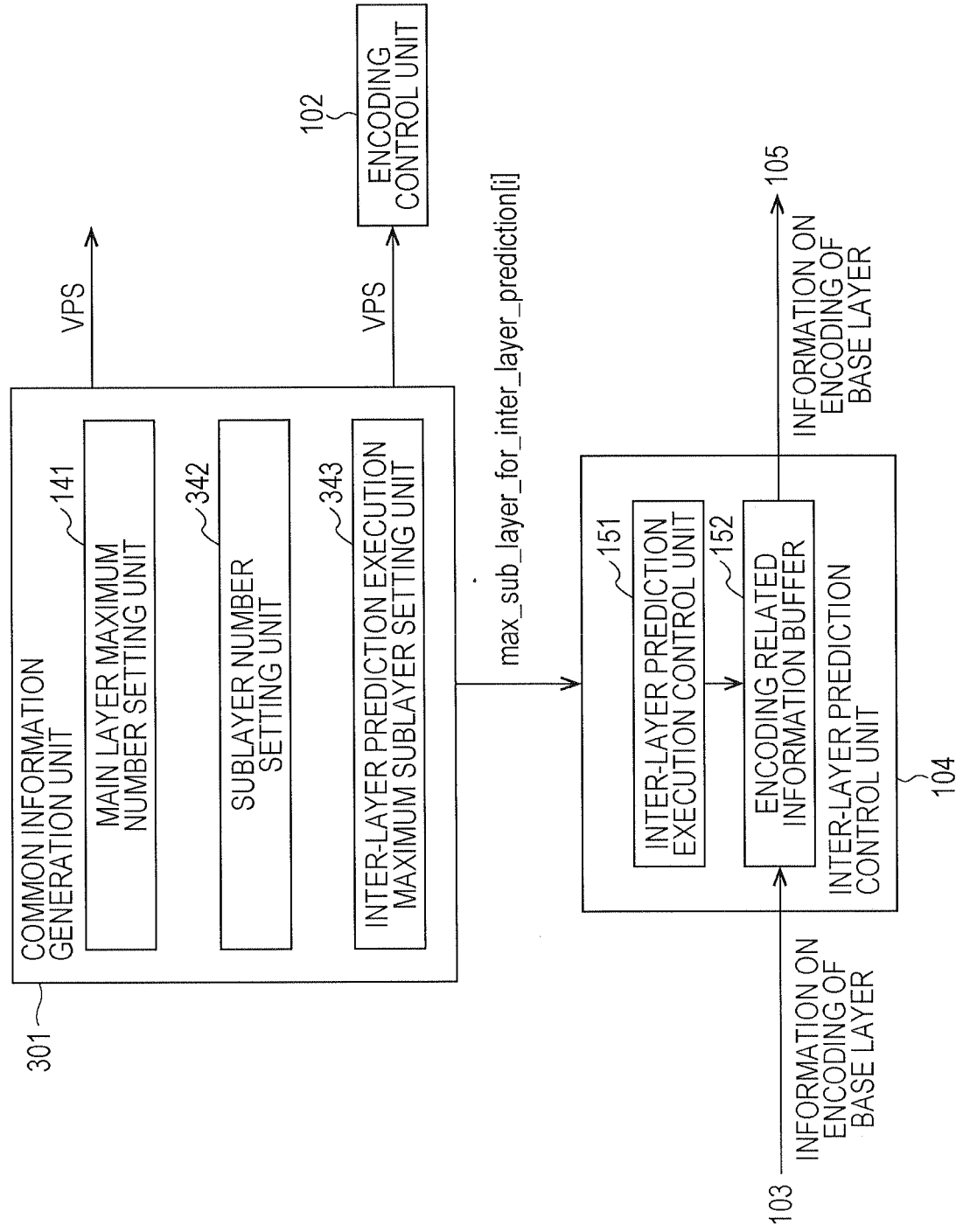


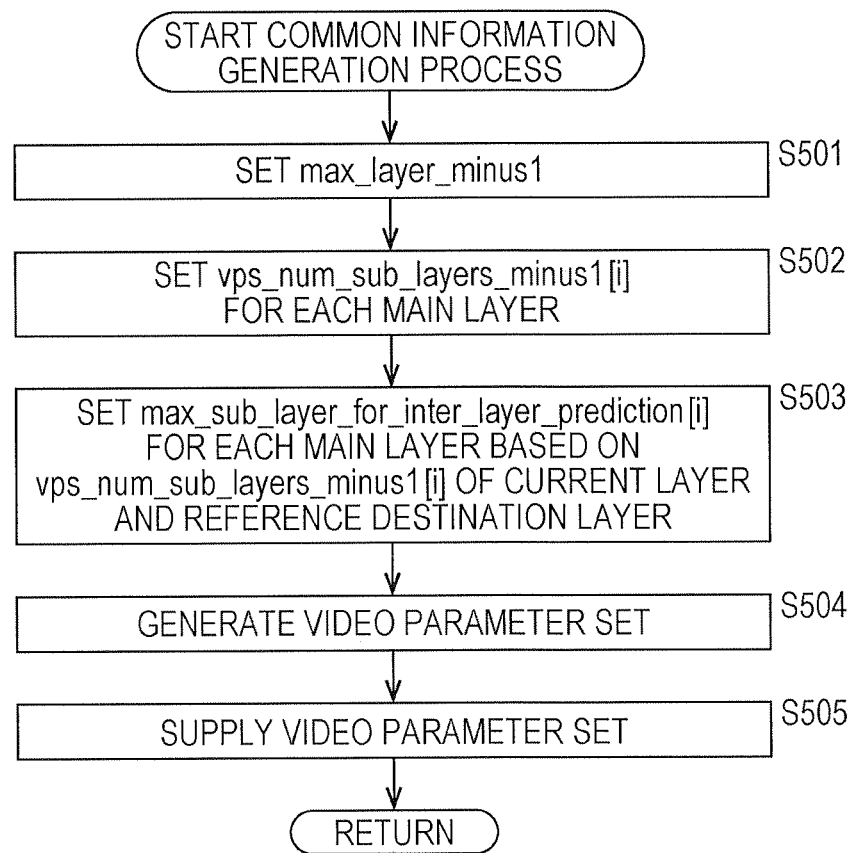
FIG. 33

FIG. 34

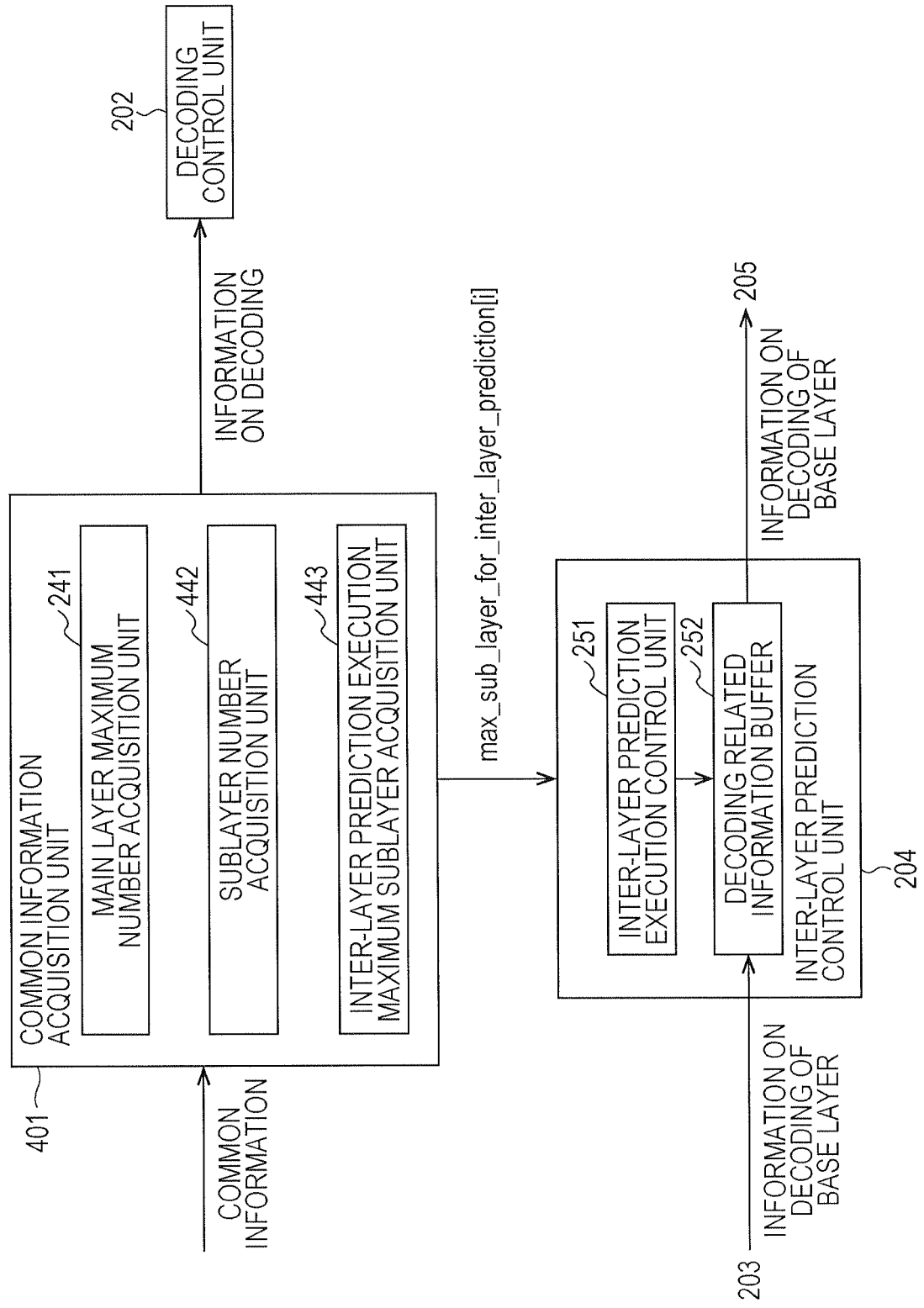


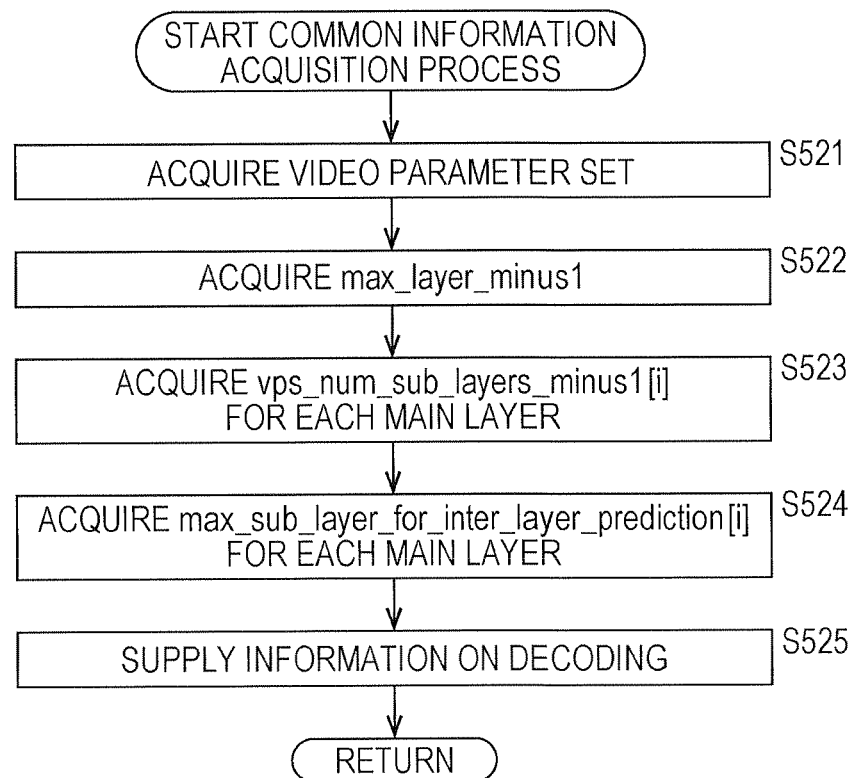
FIG. 35

FIG. 36

video_parameter_set_rbsp() {	Descriptor
video_parameter_set_id	u(4)
vps_temporal_id_nesting_flag	u(1)
vps_reserved_zero_2bits	u(2)
vps_reserved_zero_6bits	u(6)
max_layer_minus1	u(3)
vps_max_sub_layers_minus1	u(3)
unified_max_sub_layer_for_inter_layer_prediction_flag	u(1)
if(unified_max_sub_layer_for_inter_prediction_flag)	
unified_max_sub_layer_for_inter_layer_prediction	u(3)
else	
for(i = 1; i <= max_layer_minus1; i++)	
max_sub_layer_for_inter_layer_prediction[i]	u(3)
profile_and_level(1, vps_max_sub_layers_minus1)	
vps_reserved_zero_12bits	u(12)
for(i = 0; i <= vps_max_sub_layers_minus1; i++) {	
vps_max_dec_pic_buffering[i]	ue(v)
vps_max_num_reorder_pics[i]	ue(v)
vps_max_latency_increase[i]	ue(v)
}	
vps_num_hrd_parameters	ue(v)
for(i = 0; i < vps_num_hrd_parameters; i++) {	
if(i > 0)	
op_point(i)	
hrd_parameters(i == 0, vps_max_sub_layers_minus1)	
}	
vps_extension_flag	u(1)
if(vps_extension_flag)	
while(more_rbsp_data())	
vps_extension_data_flag	u(1)
}	
rbbsp_trailing_bits()	
}	

FIG. 37

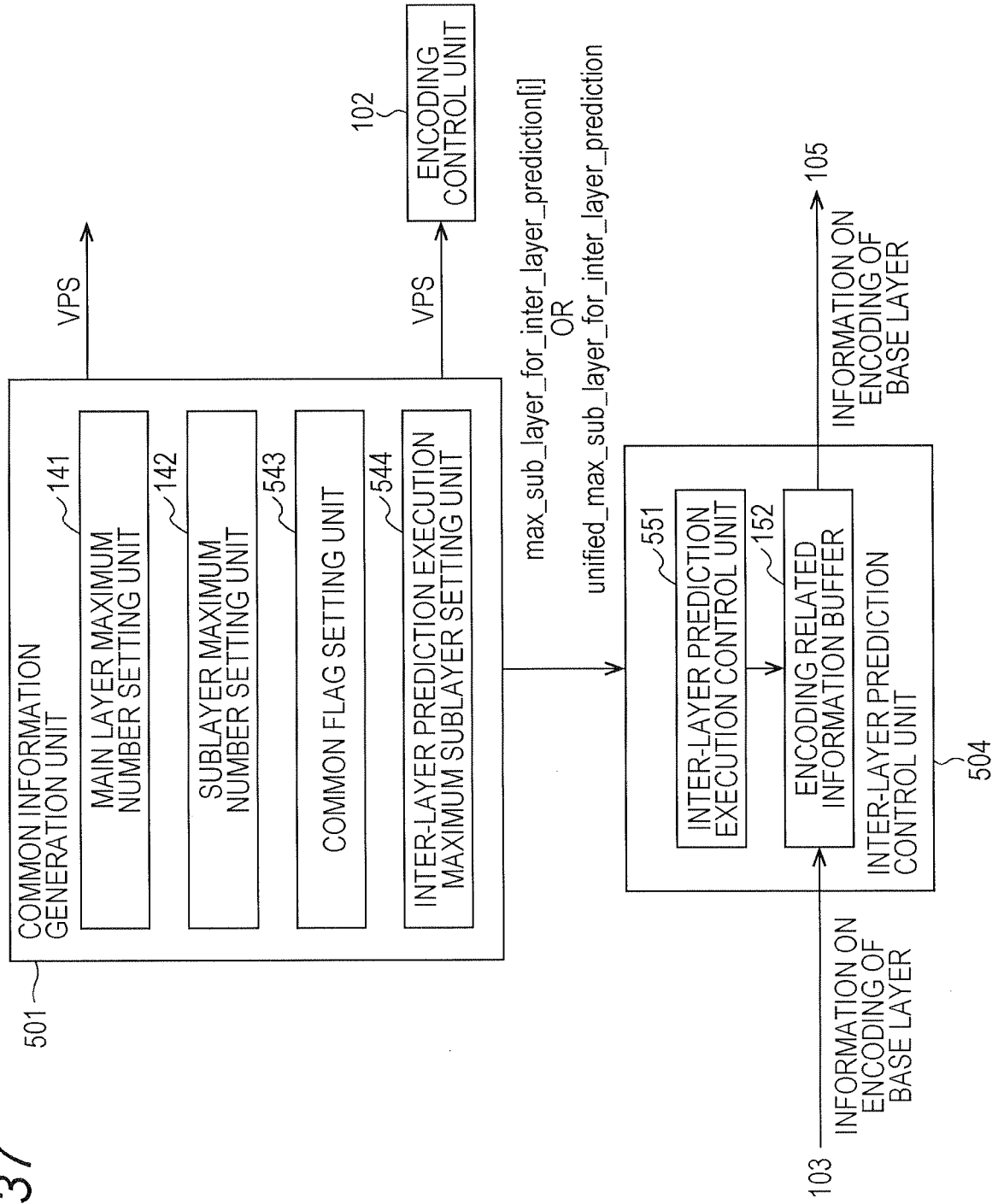


FIG. 38

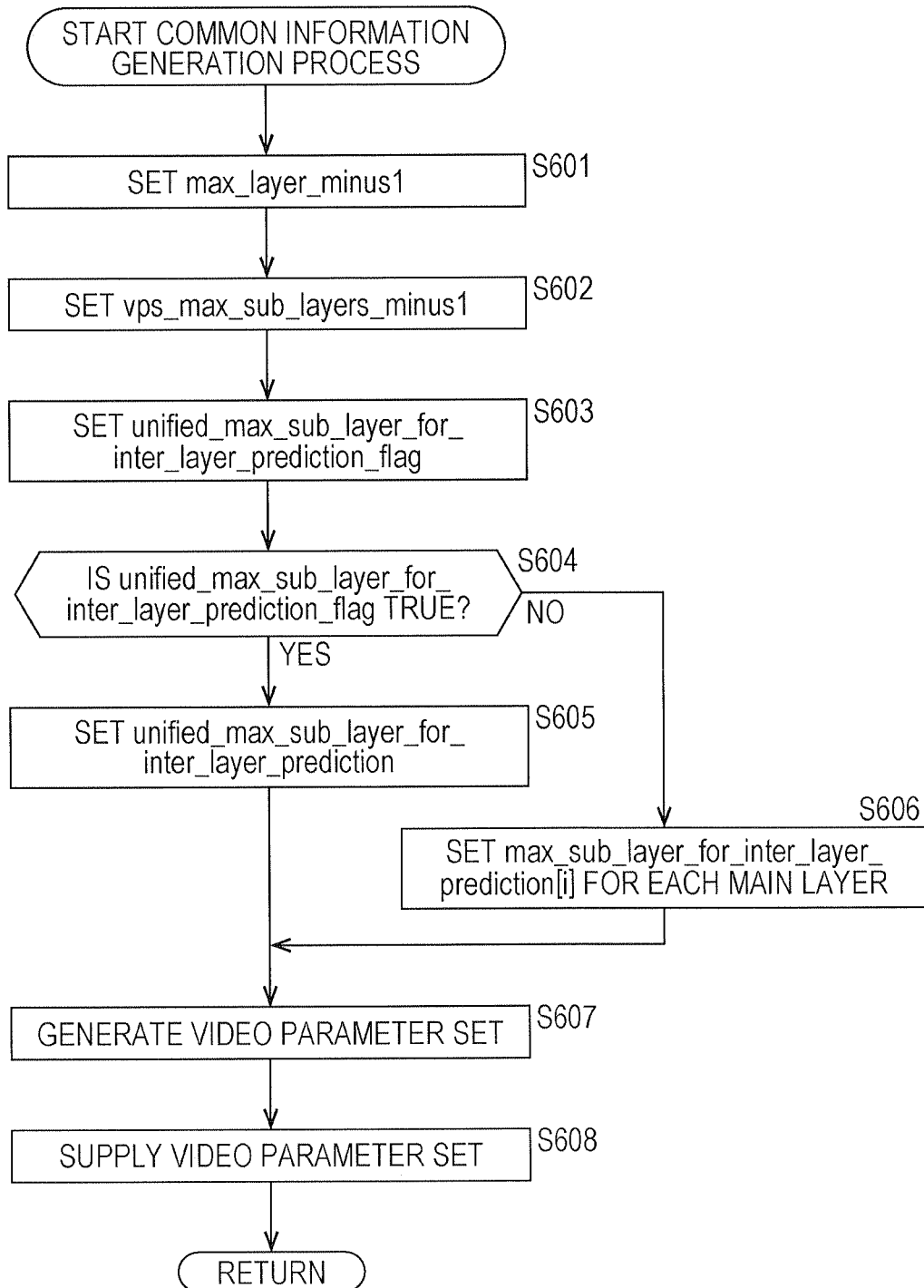


FIG. 39

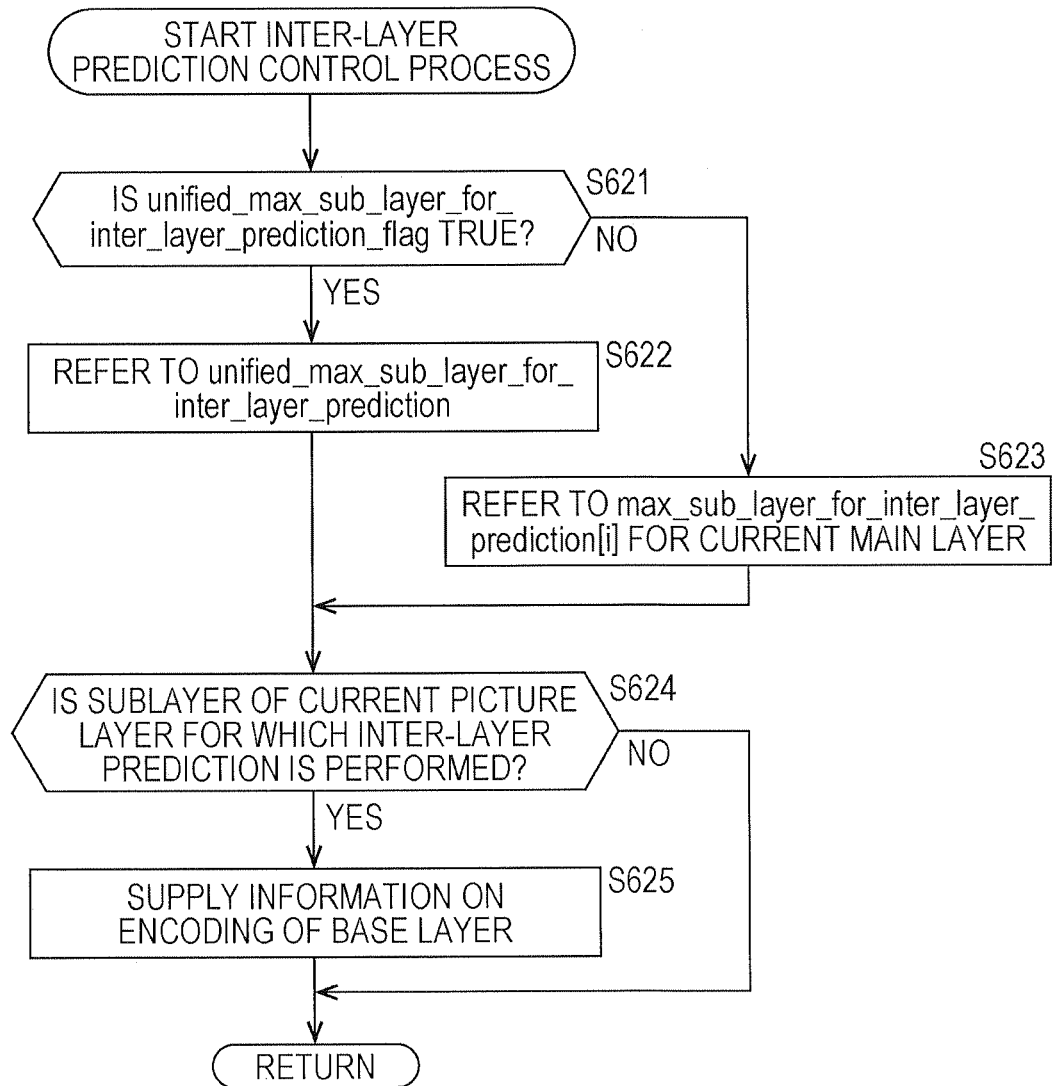


FIG. 40

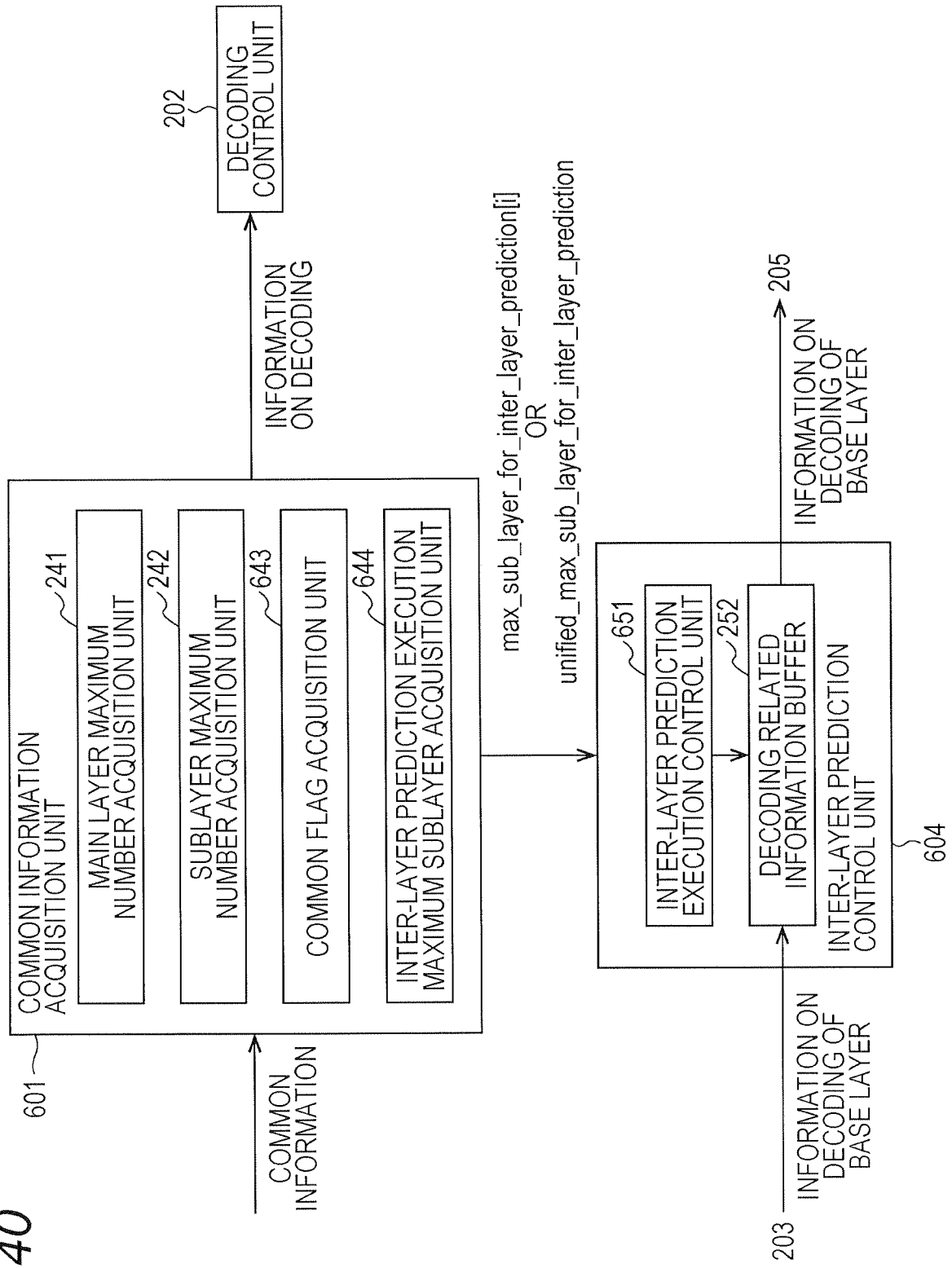


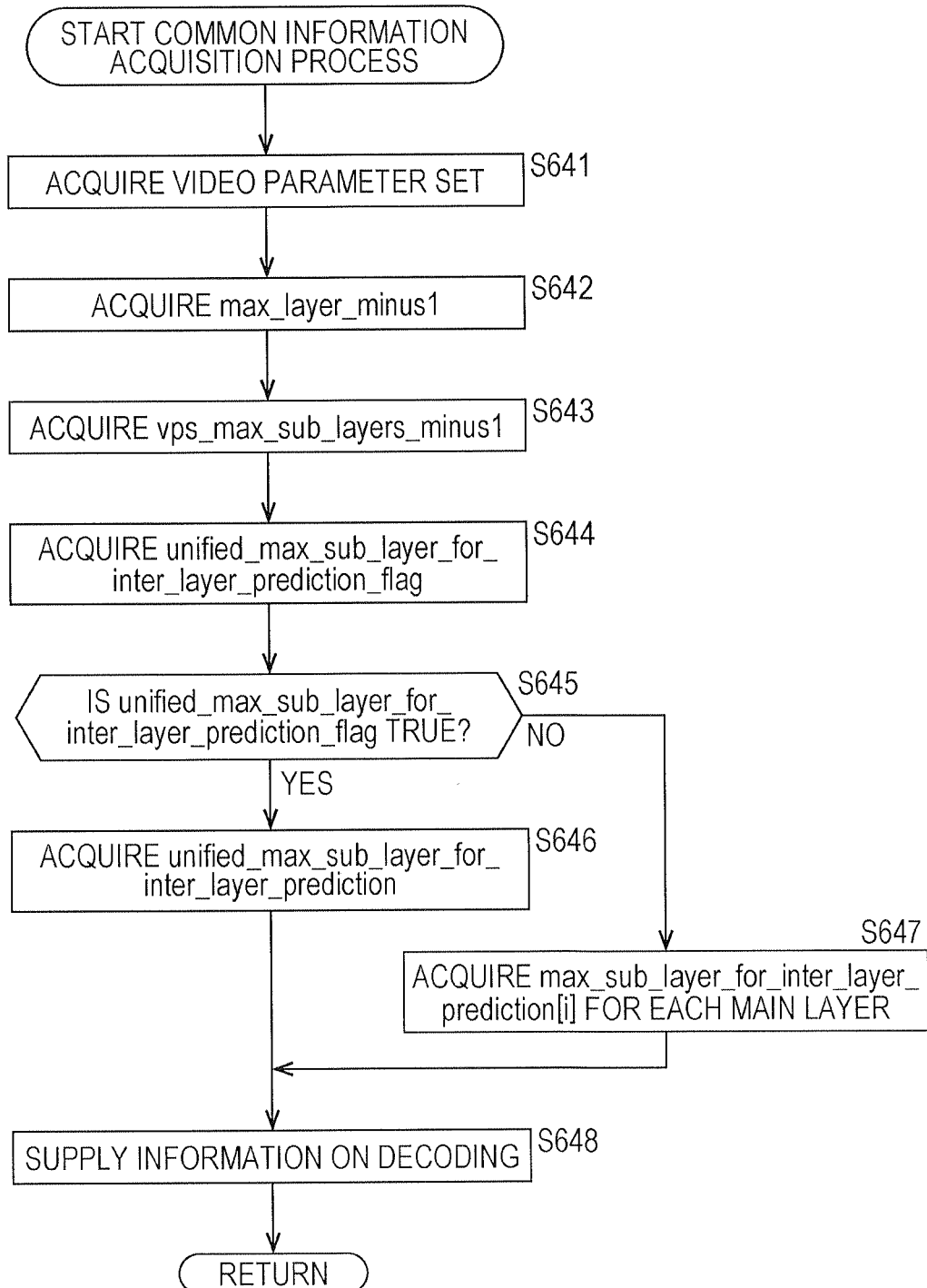
FIG. 41

FIG. 42

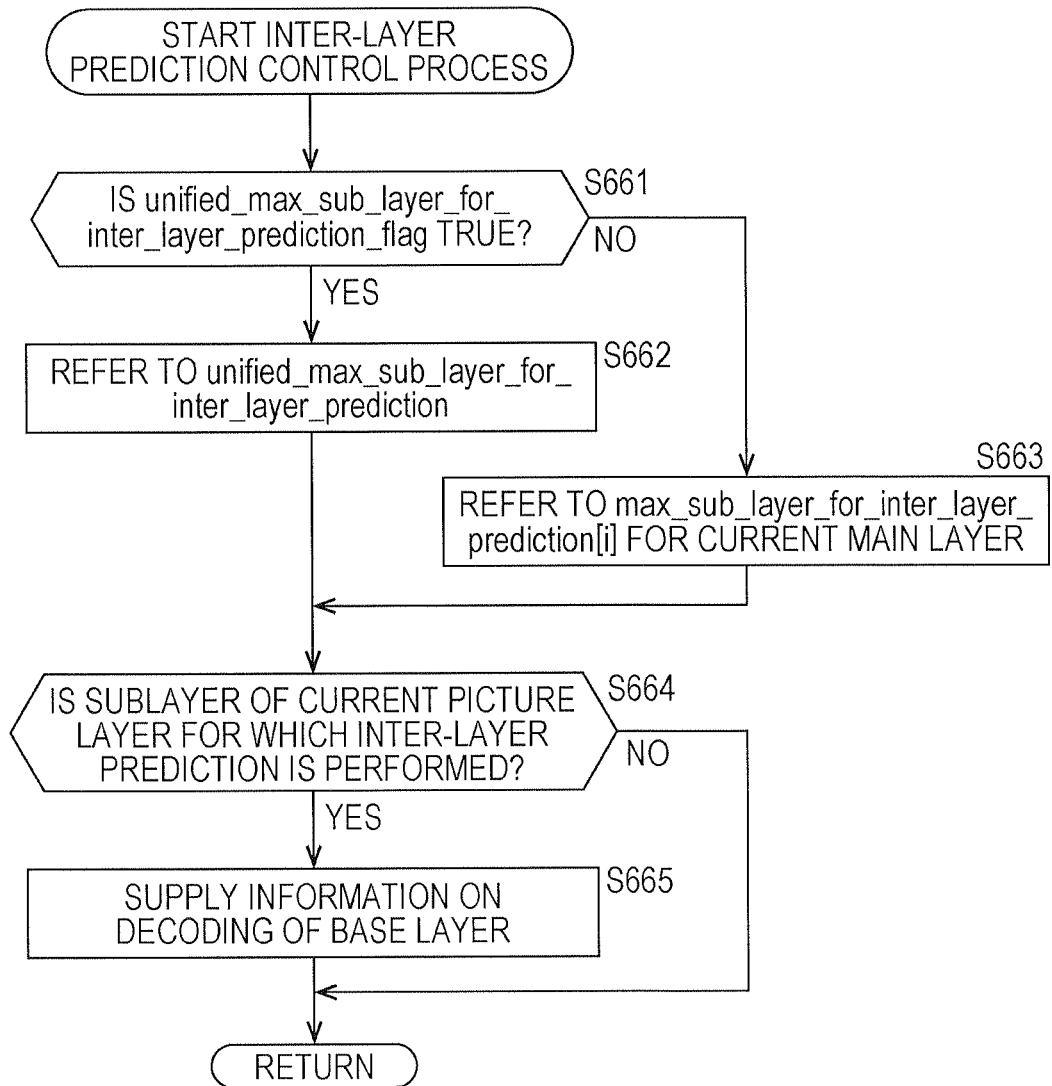


FIG. 43

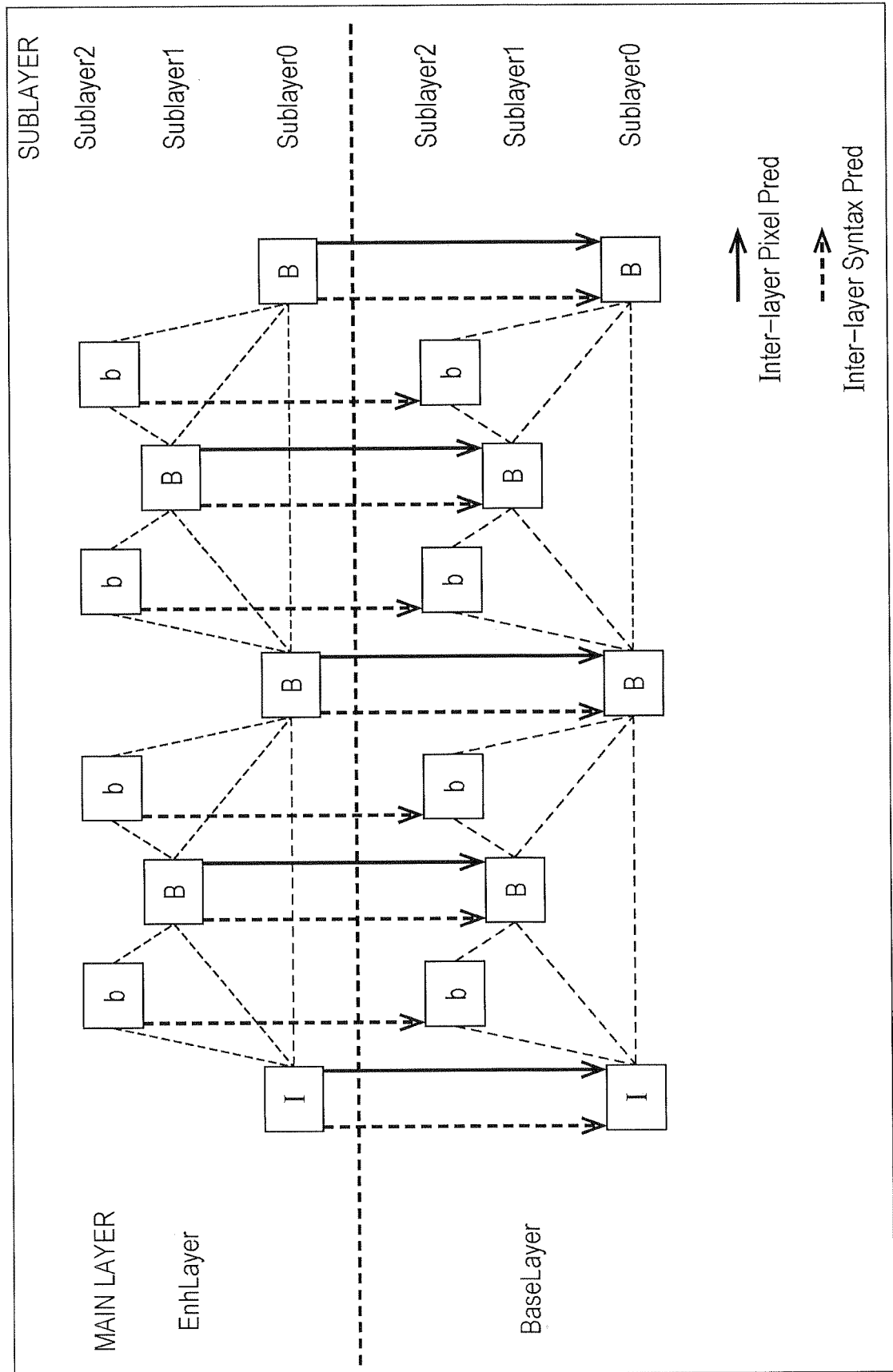


FIG. 44

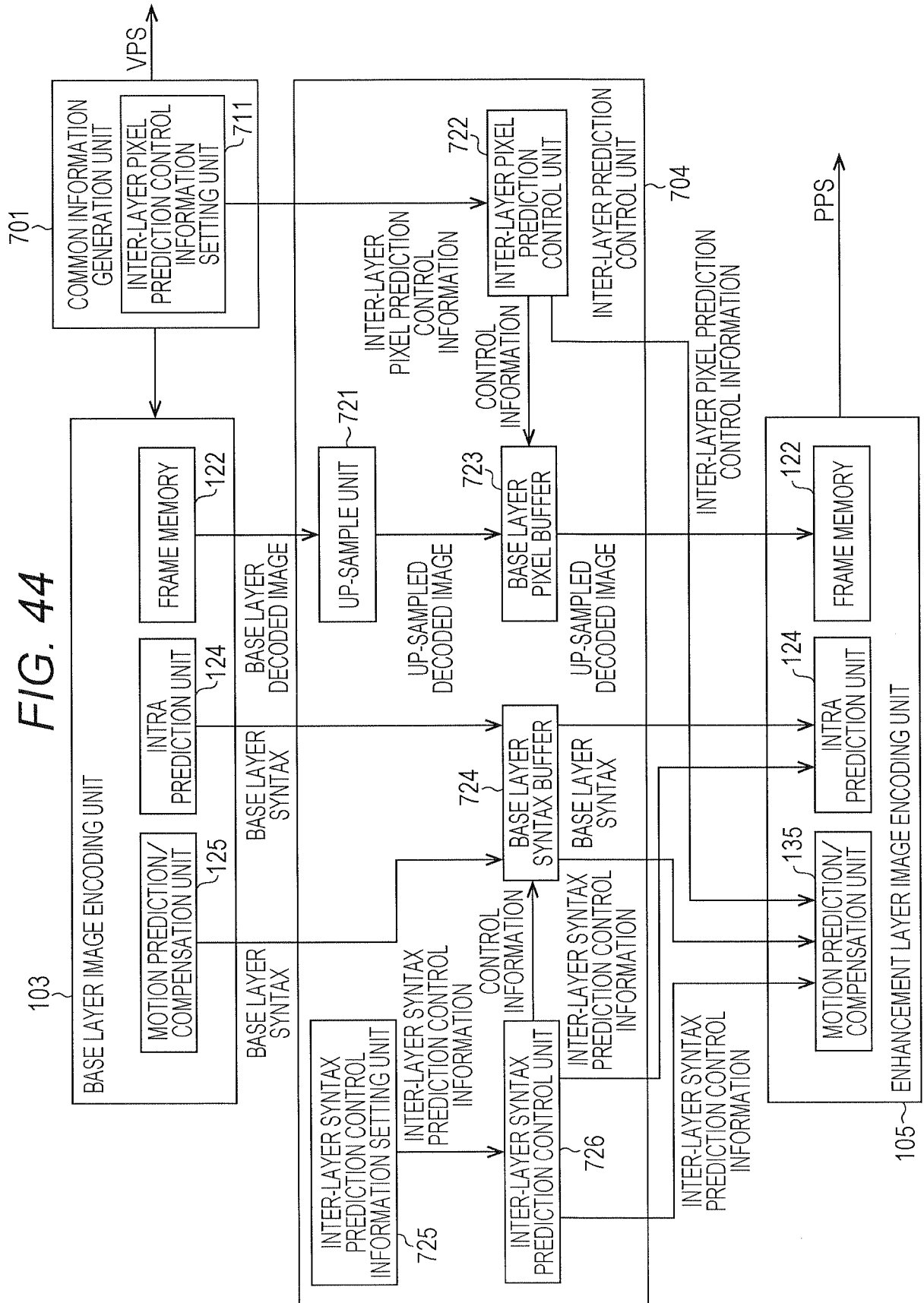


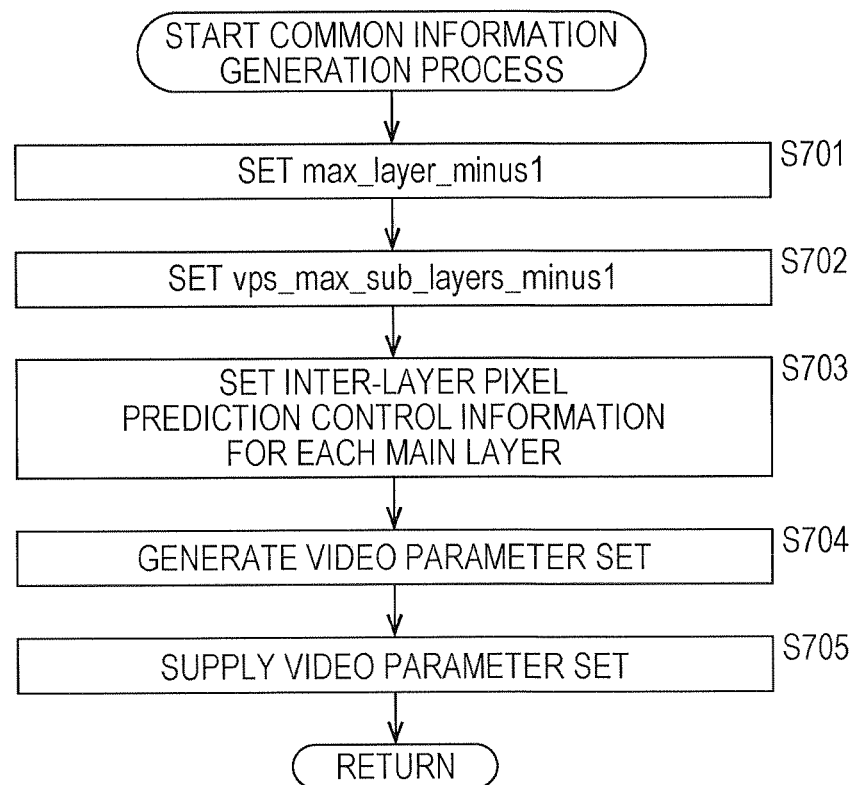
FIG. 45

FIG. 46

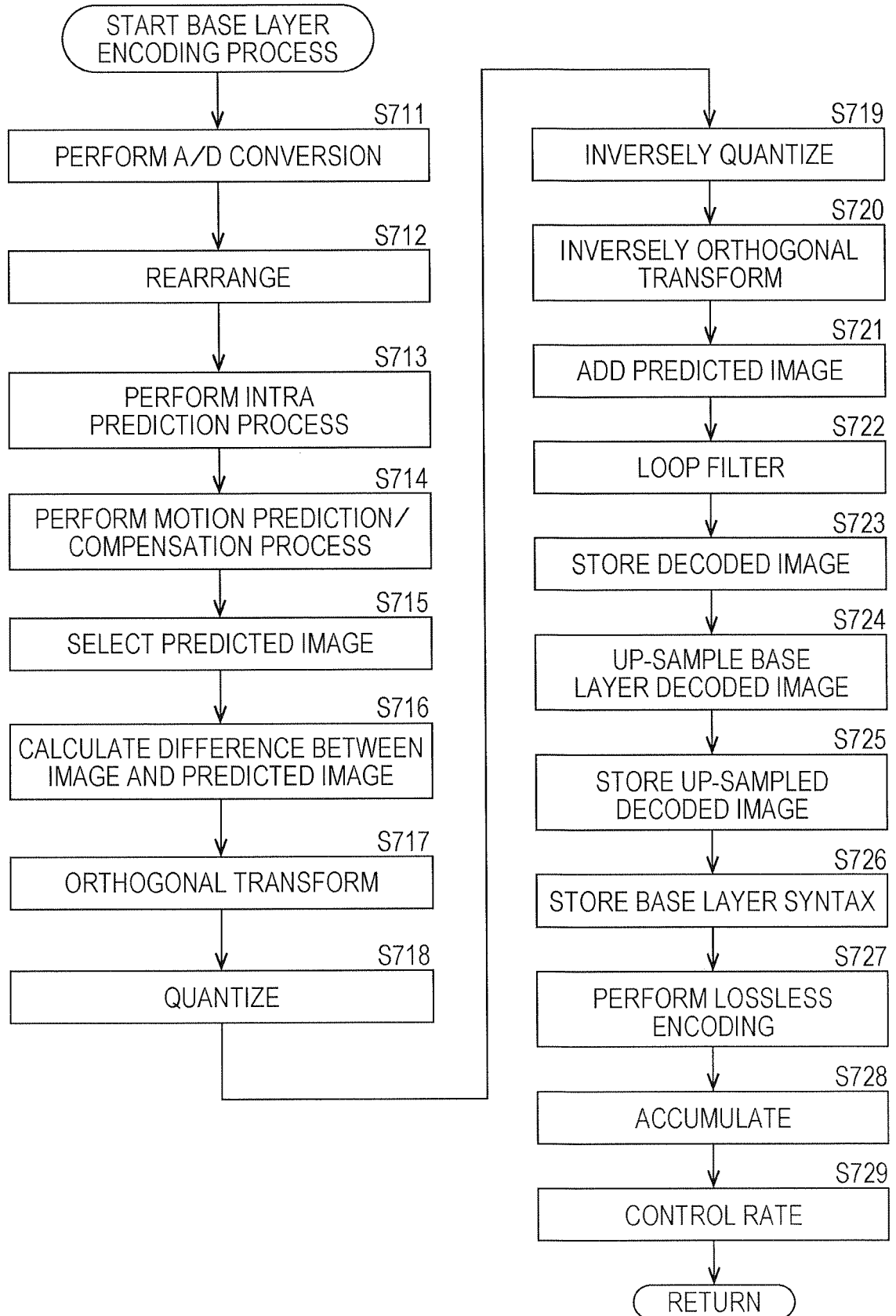


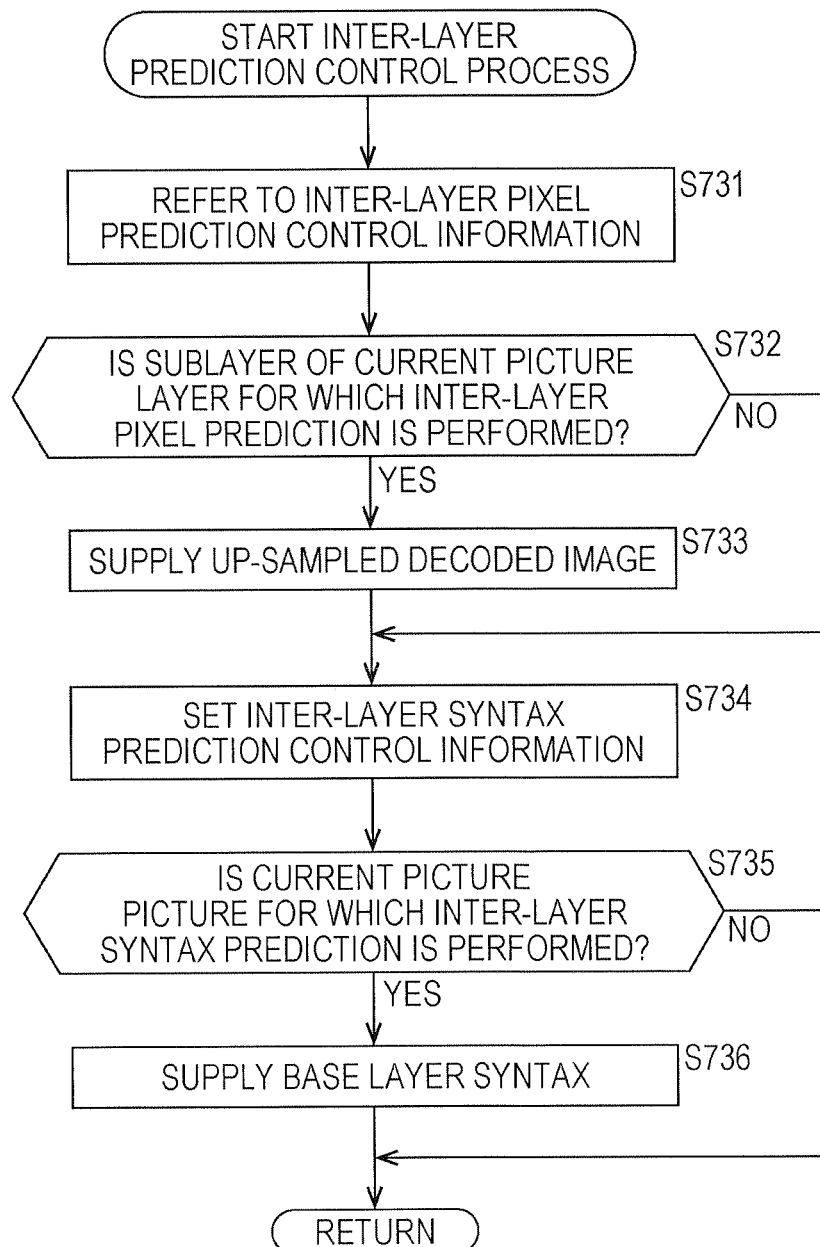
FIG. 47

FIG. 48

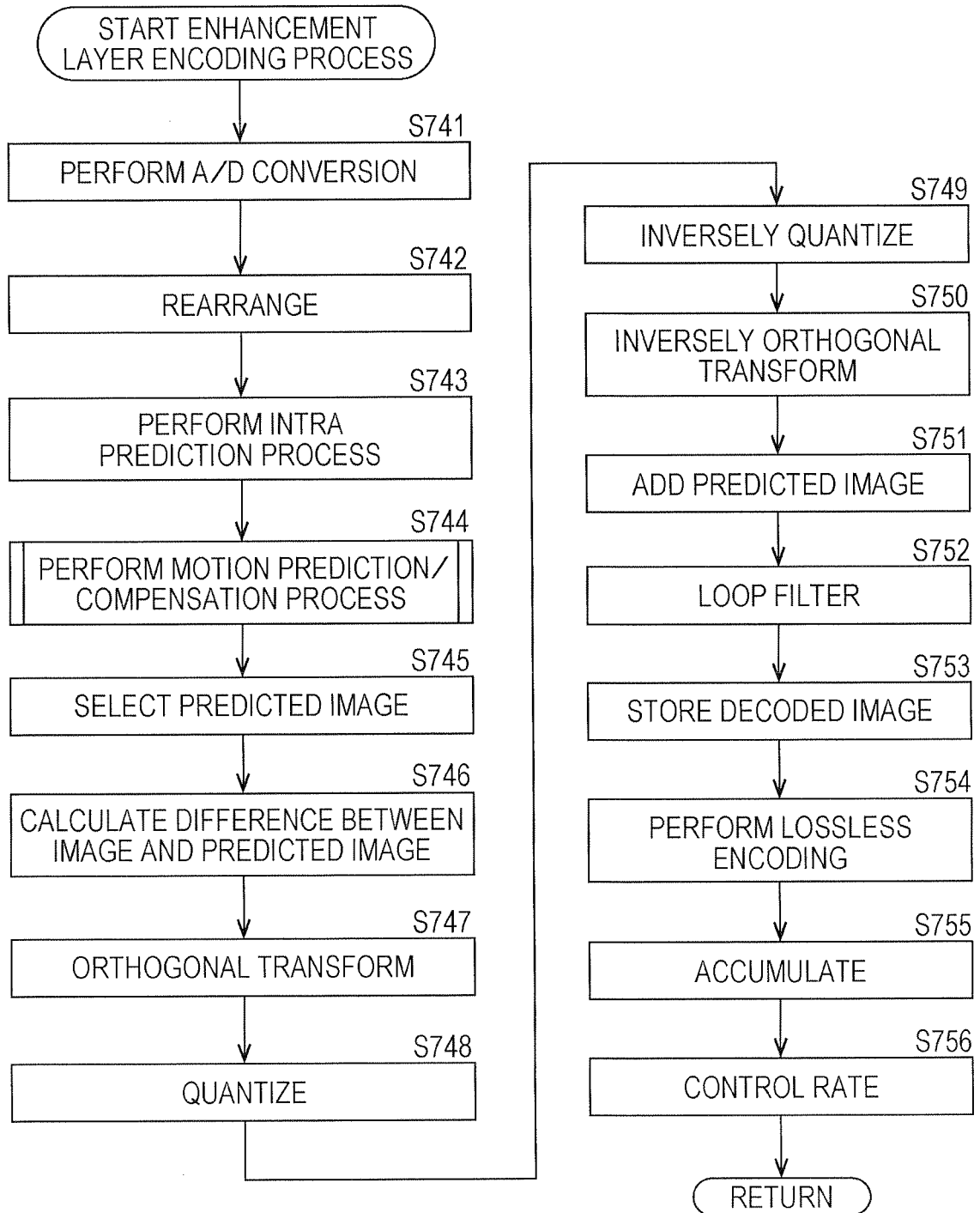


FIG. 49

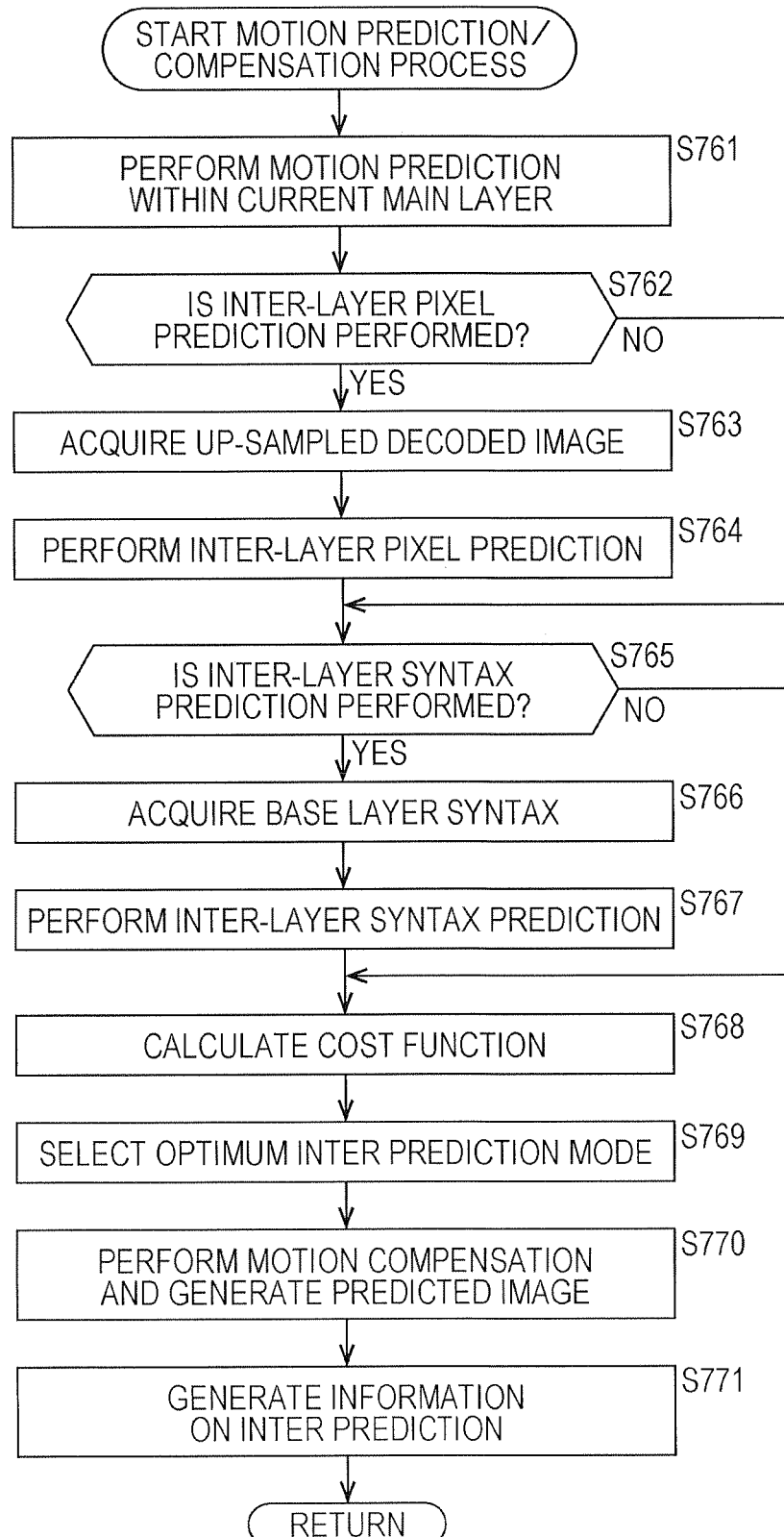


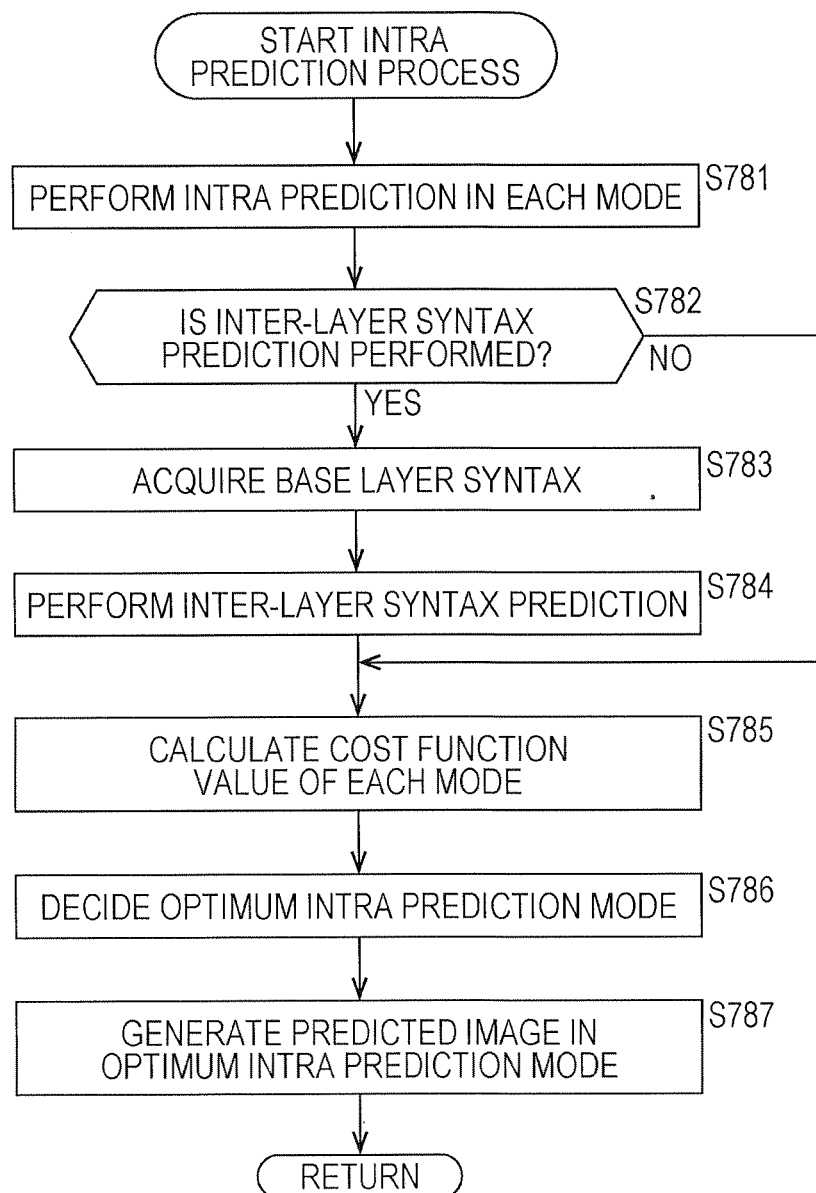
FIG. 50

FIG. 51

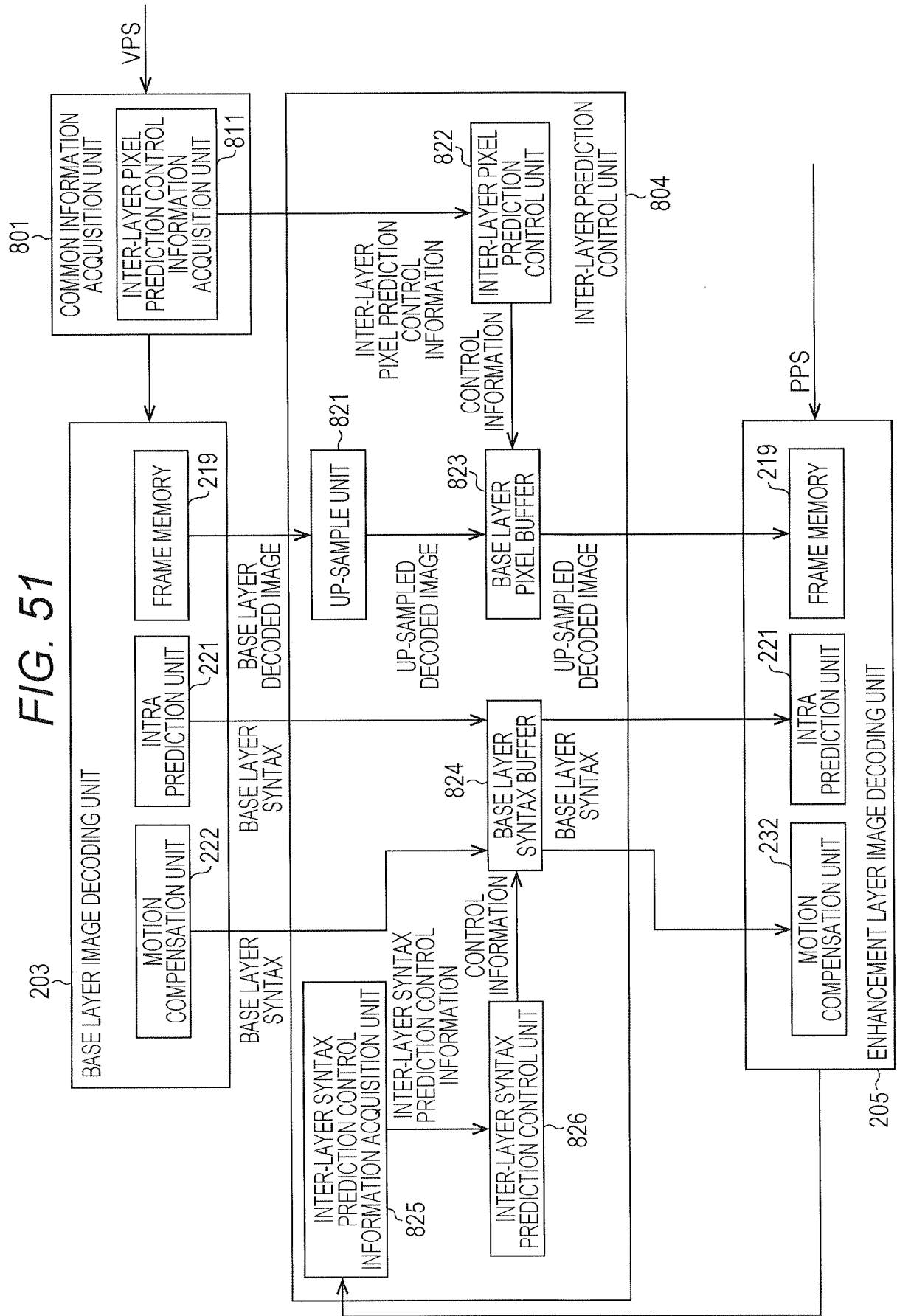


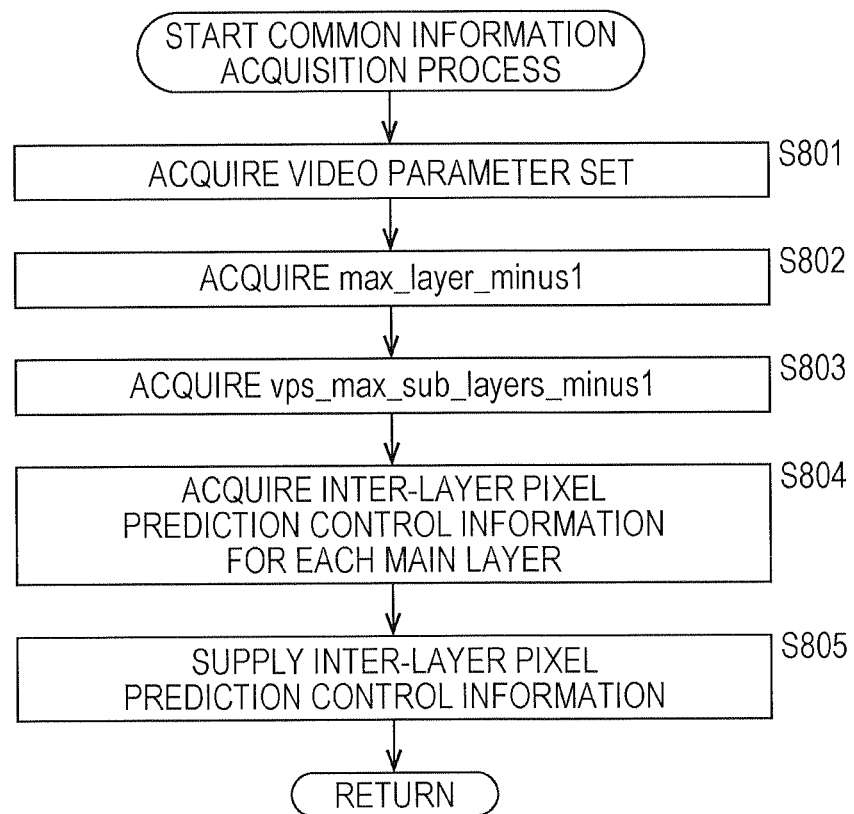
FIG. 52

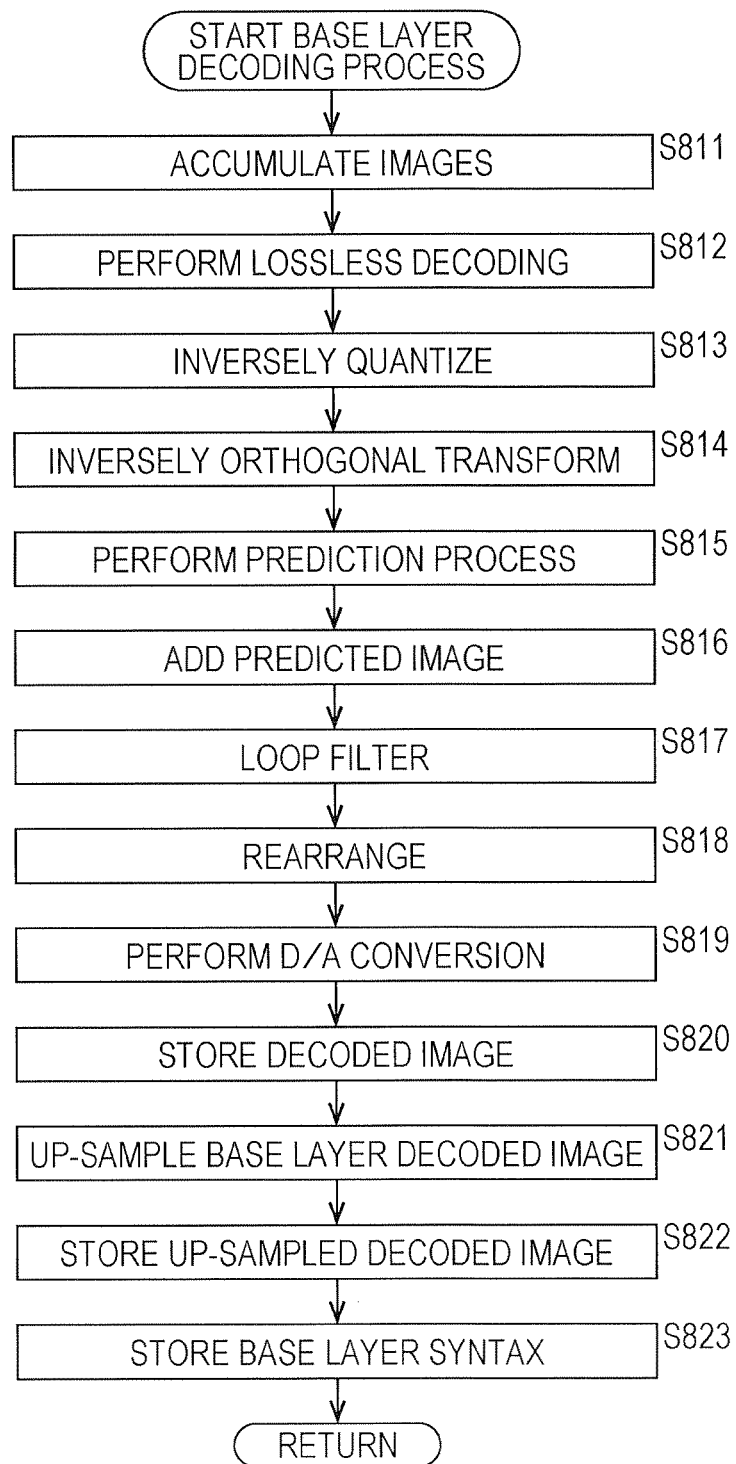
FIG. 53

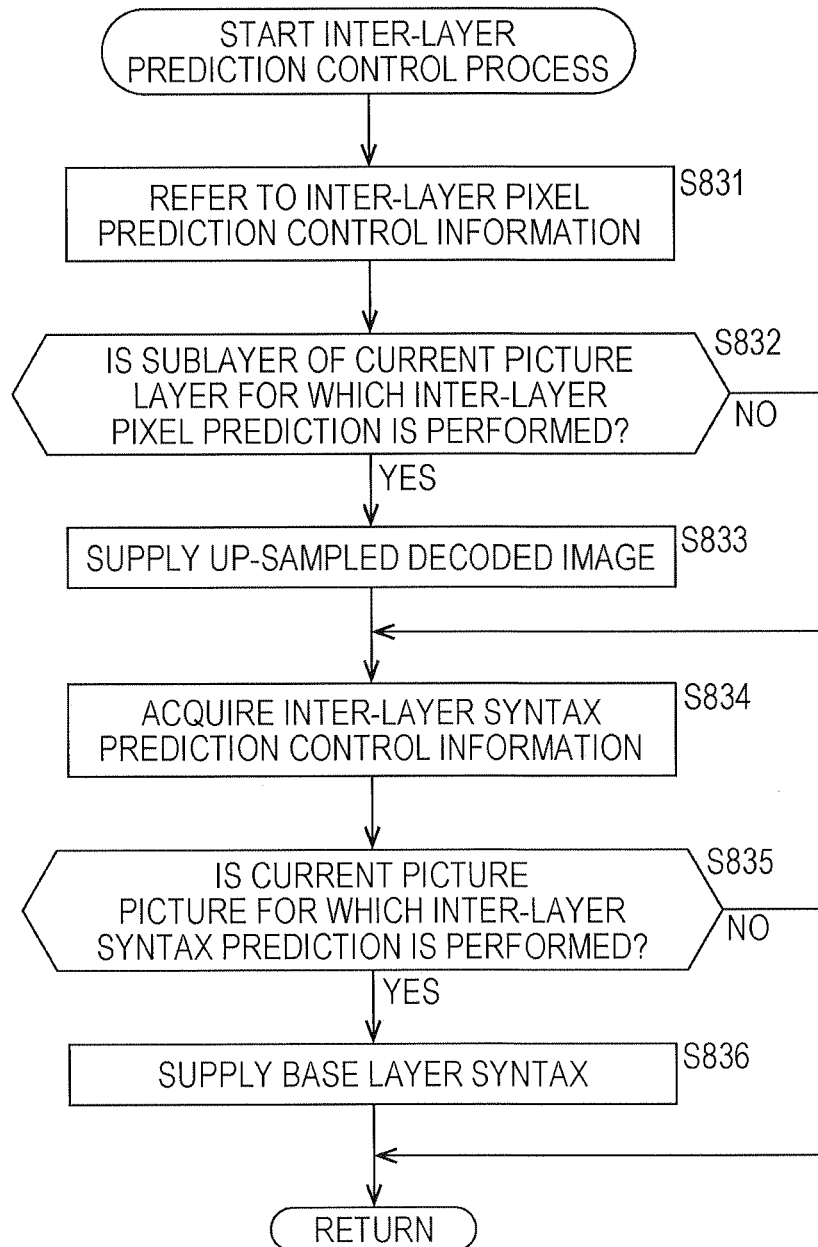
FIG. 54

FIG. 55

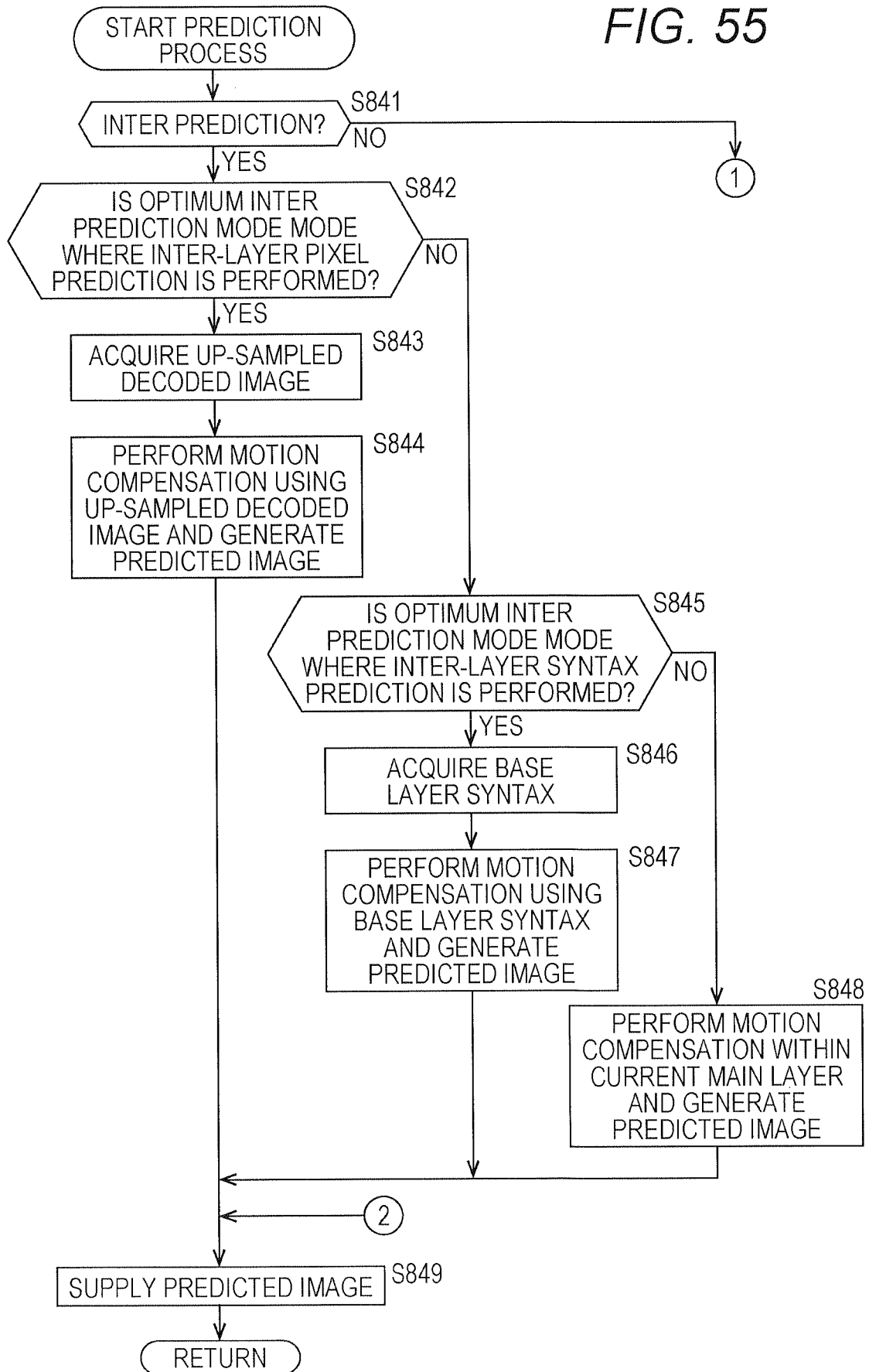


FIG. 56

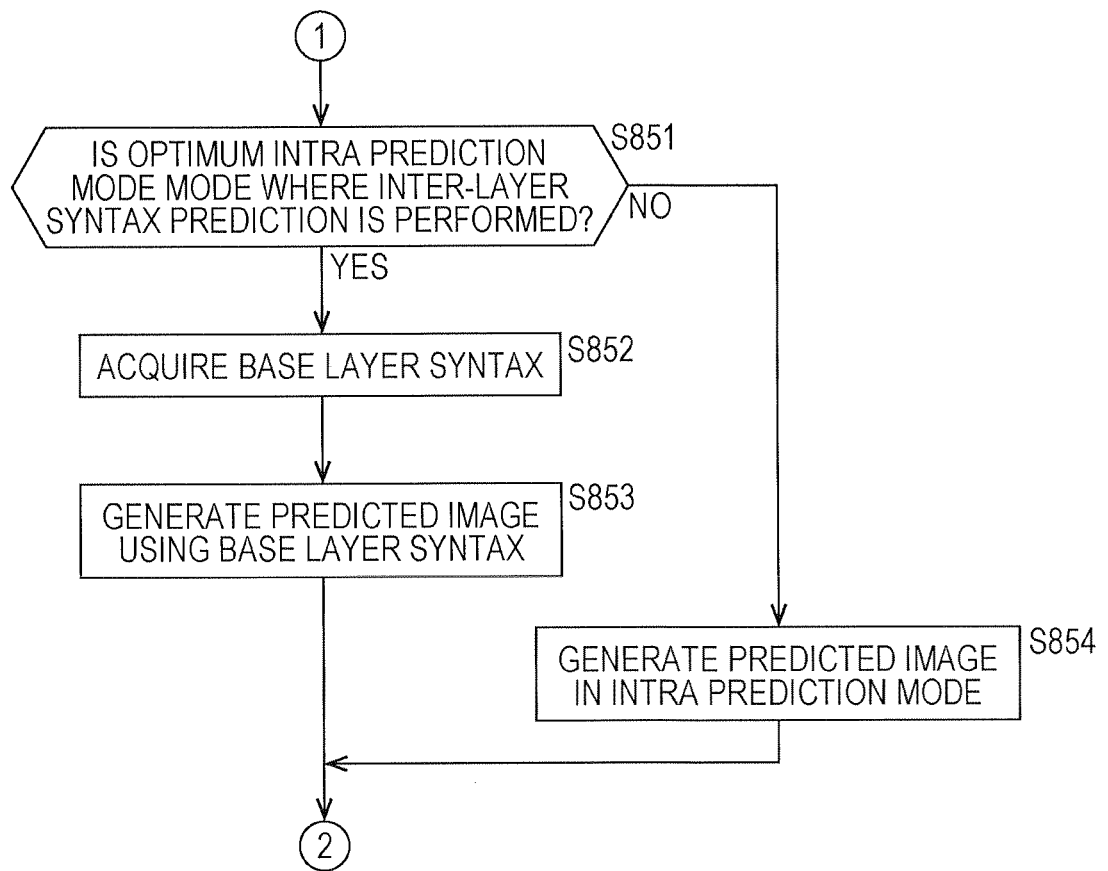


FIG. 57

seq_parameter_set_rbsp() {	Descriptor
sps_video_parameter_set_id	u(4)
sps_max_sub_layers_minus1	u(3)
sps_temporal_id_nesting_flag	u(1)
profile_tier_level(sps_max_sub_layers_minus1)	
sps_seq_parameter_set_id	ue(v)
chroma_format_idc	ue(v)
if(chroma_format_idc == 3)	
separate_colour_plane_flag	u(1)
pic_width_in_luma_samples	ue(v)
pic_height_in_luma_samples	ue(v)
conformance_window_flag	u(1)
if(conformance_window_flag) {	
conf_win_left_offset	ue(v)
conf_win_right_offset	ue(v)
conf_win_top_offset	ue(v)
conf_win_bottom_offset	ue(v)
}	
bit_depth_luma_minus8	ue(v)
bit_depth_chroma_minus8	ue(v)
log2_max_pic_order_cnt_lsb_minus4	ue(v)
sps_sub_layer_ordering_info_present_flag	u(1)
for(i=(sps_sub_layer_ordering_info_present_flag?0:sps_max_sub_layers_minus1);	
i<=sps_max_sub_layers_minus1;i++) {	
sps_max_dec_pic_buffering_minus1[i]	ue(v)
sps_max_num_reorder_pics[i]	ue(v)
sps_max_latency_increase_plus1[i]	ue(v)
}	
log2_min_luma_coding_block_size_minus3	ue(v)
log2_diff_max_min_luma_coding_block_size	ue(v)
log2_min_transform_block_size_minus2	ue(v)
log2_diff_max_min_transform_block_size	ue(v)
max_transform_hierarchy_depth_inter	ue(v)
max_transform_hierarchy_depth_intra	ue(v)
scaling_list_enabled_flag	u(1)
if(scaling_list_enabled_flag) {	
sps_scaling_list_data_present_flag	u(1)
if(sps_scaling_list_data_present_flag)	
scaling_list_data()	
}	
amp_enabled_flag	u(1)
sample_adaptive_offset_enabled_flag	u(1)
pcm_enabled_flag	u(1)
if(pcm_enabled_flag) {	

FIG. 58

pcm_sample_bit_depth_luma_minus1	u(4)
pcm_sample_bit_depth_chroma_minus1	u(4)
log2_min_pcm_luma_coding_block_size_minus3	ue(v)
log2_diff_max_min_pcm_luma_coding_block_size	ue(v)
pcm_loop_filter_disabled_flag	u(1)
}	
num_short_term_ref_pic_sets	ue(v)
for(i=0; i<num_short_term_ref_pic_sets; i++)	
short_term_ref_pic_set(i)	
long_term_ref_pics_present_flag	u(1)
if(long_term_ref_pics_present_flag) {	
num_long_term_ref_pics_sps	ue(v)
for(i=0; i<num_long_term_ref_pics_sps; i++) {	
lt_ref_pic_poc_lsb_sps[i]	u(v)
used_by_curr_pic_lt_sps_flag[i]	u(1)
}	
}	
}	
sps_temporal_mvp_enabled_flag	u(1)
strong_intra_smoothing_enabled_flag	u(1)
vui_parameters_present_flag	u(1)
if(vui_parameters_present_flag)	
vui_parameters()	
sps_extension_flag	u(1)
if(sps_extension_flag) {	
inter_view_mv_vert_constraint_flag	u(1)
sps_inter_layer_mfm_enable_flag	u(1)
while(more_rbsp_data())	
sps_extension_data_flag	u(1)
rbsp_trailing_bits()	
}	
}	

FIG. 59

slice_segment_header() {	Descriptor
first_slice_segment_in_pic_flag	u(1)
if(nal_unit_type >= BLA_W_LP && nal_unit_type <= RSV_IRAP_VCL23)	
no_output_of_prior_pics_flag	u(1)
slice_pic_parameter_set_id	ue(v)
if(!first_slice_segment_in_pic_flag) {	
if(dependent_slice_segments_enabled_flag)	
dependent_slice_segment_flag	u(1)
slice_segment_address	u(v)
}	
if(!dependent_slice_segment_flag) {	
for(i=0; i<num_extra_slice_header_bits; i++)	
slice_reserved_flag[i]	u(1)
slice_type	ue(v)
if(output_flag_present_flag)	
pic_output_flag	u(1)
if(separate_colour_plane_flag == 1)	
colour_plane_id	u(2)
if(nal_unit_type != IDR_W_RADL && nal_unit_type != IDR_N_LP) {	
slice_pic_order_cnt_lsb	u(v)
short_term_ref_pic_set_sps_flag	u(1)
if(!short_term_ref_pic_set_sps_flag)	
short_term_ref_pic_set(num_short_term_ref_pic_sets)	
else if(num_short_term_ref_pic_sets>1)	
short_term_ref_pic_set_idx	u(v)
if(long_term_ref_pics_present_flag) {	
if(num_long_term_ref_pics_sps>0)	
num_long_term_sps	ue(v)
num_long_term_pics	ue(v)
for(i=0; i<num_long_term_sps + num_long_term_pics; i++) {	
if(i<num_long_term_sps) {	
if(num_long_term_ref_pics_sps>1)	
lt_idx_sps[i]	u(v)
}else{	
poc_lsb_lt[i]	u(v)
used_by_curr_pic_lt_flag[i]	u(1)
}	
delta_poc_msb_present_flag[i]	u(1)
if(delta_poc_msb_present_flag[i])	
delta_poc_msb_cycle_lt[i]	ue(v)
}	
}	
if(sps_temporal_mvp_enabled_flag)	

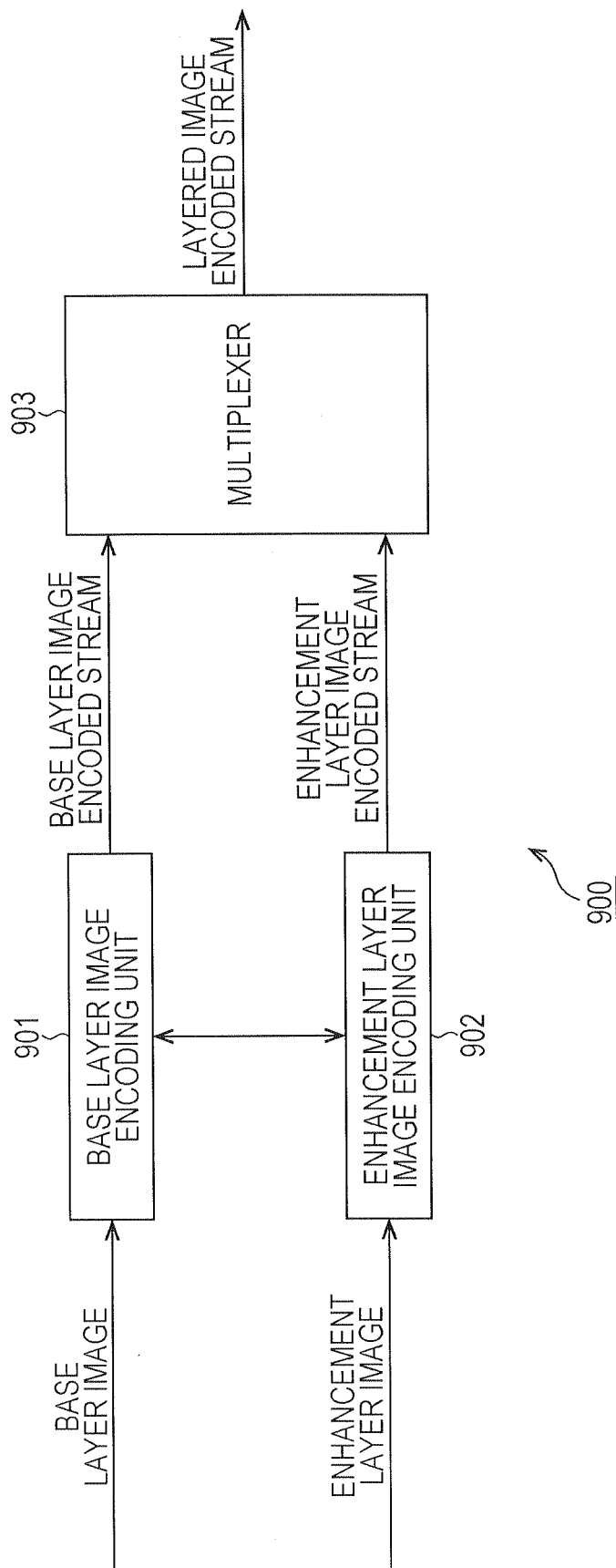
FIG. 60

slice_temporal_mvp_enabled_flag	u(1)
}	
if(sample_adaptive_offset_enabled_flag){	
slice_sao_luma_flag	u(1)
slice_sao_chroma_flag	u(1)
}	
if(slice_type == P slice_type == B){	
num_ref_idx_active_override_flag	u(1)
if(num_ref_idx_active_override_flag){	
num_ref_idx_l0_active_minus1	ue(v)
if(slice_type == B)	
num_ref_idx_l1_active_minus1	ue(v)
}	
if(lists_modification_present_flag && NumPocTotalCurr>1)	
ref_pic_lists_modification()	
if(slice_type == B)	
mvd_l1_zero_flag	u(1)
if(cabac_init_present_flag)	
cabac_init_flag	u(1)
if(slice_temporal_mvp_enabled_flag){	
if(slice_type == B)	
collocated_from_l0_flag	u(1)
if((collocated_from_l0_flag && num_ref_idx_l0_active_minus1>0) (!collocated_from_l0_flag && num_ref_idx_l1_active_minus1>0))	
collocated_ref_idx	ue(v)
}	
if((weighted_pred_flag && slice_type == P) (weighted_bipred_flag && slice_type == B))	
pred_weight_table()	
five_minus_max_num_merge_cand	ue(v)
}	
slice_qp_delta	se(v)
if(pps_slice_chroma_qp_offsets_present_flag){	
slice_cb_qp_offset	se(v)
slice_cr_qp_offset	se(v)
}	
if(deblocking_filter_override_enabled_flag)	
deblocking_filter_override_flag	u(1)
if(deblocking_filter_override_flag){	
slice_deblocking_filter_disabled_flag	u(1)
if(!slice_deblocking_filter_disabled_flag){	
slice_beta_offset_div2	se(v)
slice_tc_offset_div2	se(v)
}	

FIG. 61

}	
if(pps_loop_filter_across_slices_enabled_flag && (slice_sao_luma_flag slice_sao_chroma_flag !slice_deblocking_filter_disabled_flag))	
slice_loop_filter_across_slices_enabled_flag	u(1)
}	
if(tiles_enabled_flag entropy_coding_sync_enabled_flag) {	
num_entry_point_offsets	ue(v)
if(num_entry_point_offsets>0) {	
offset_len_minus1	ue(v)
for(i=0;i<num_entry_point_offsets;i++)	
entry_point_offset_minus1[i]	u(v)
}	
}	
if(slice_segment_header_extension_present_flag) {	
slice_segment_header_extension_length	ue(v)
for(i=0;i<slice_segment_header_extension_length;i++)	
slice_segment_header_extension_data_byte[i]	u(8)
}	
byte_alignment()	
}	

FIG. 62



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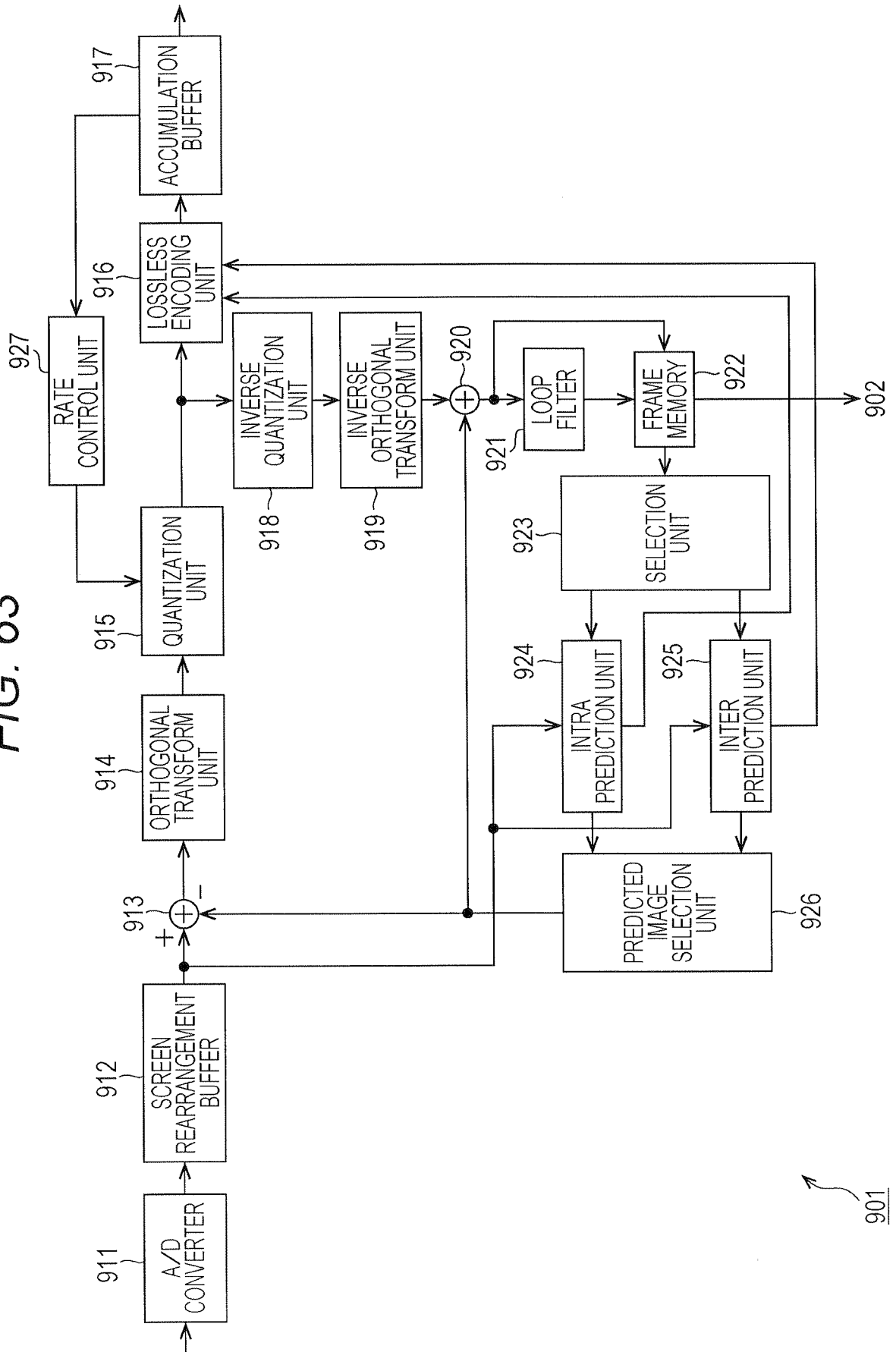


FIG. 64

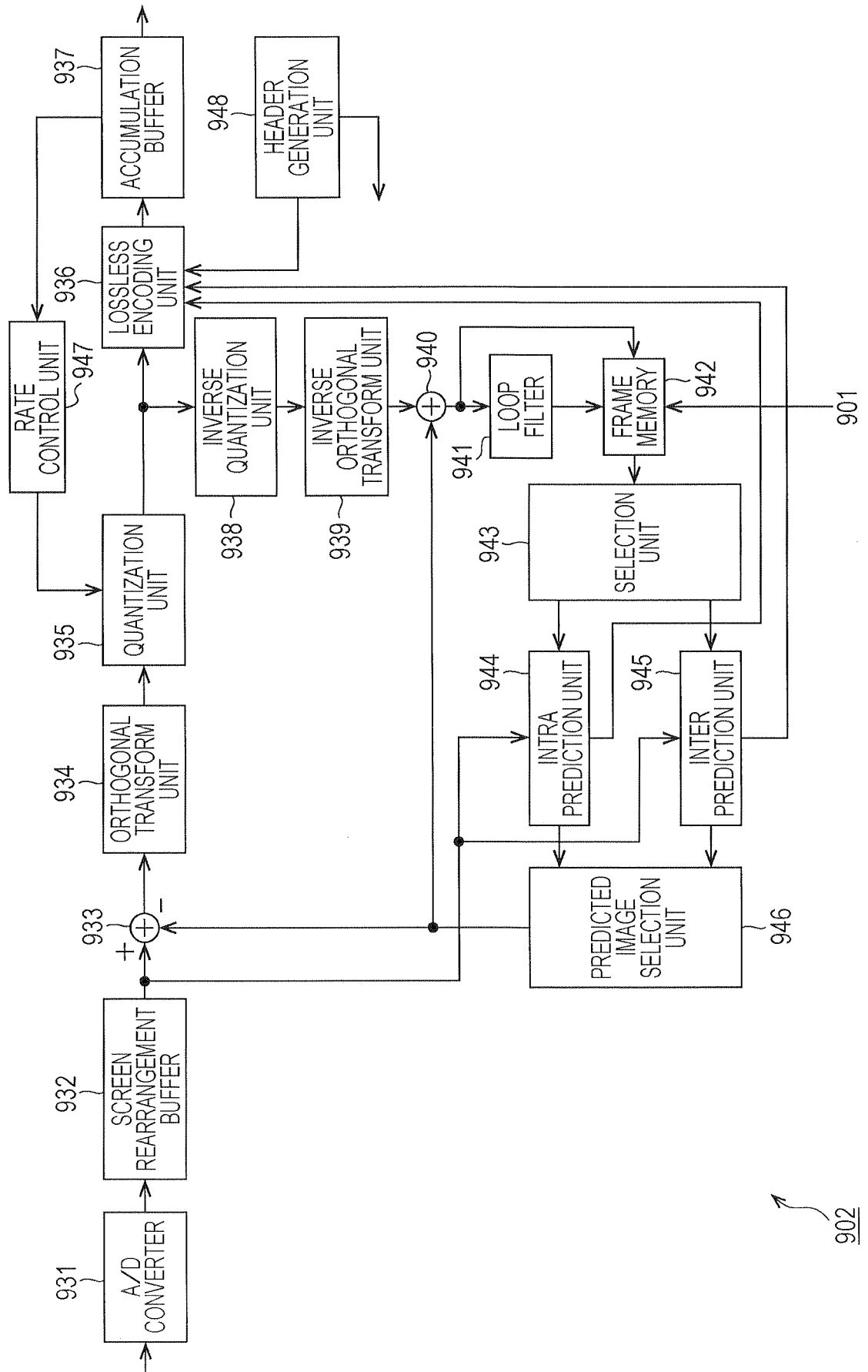


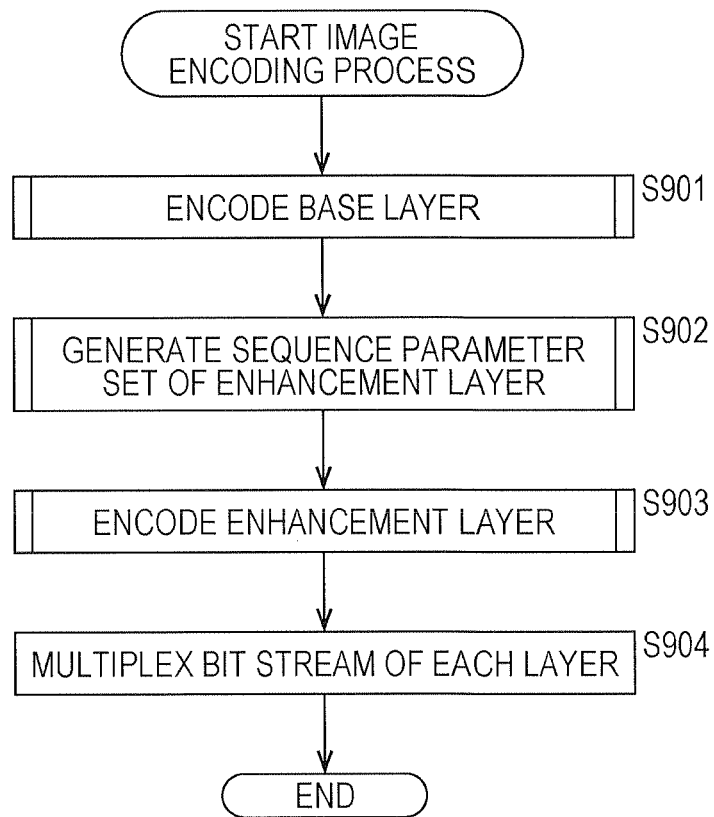
FIG. 65

FIG. 66

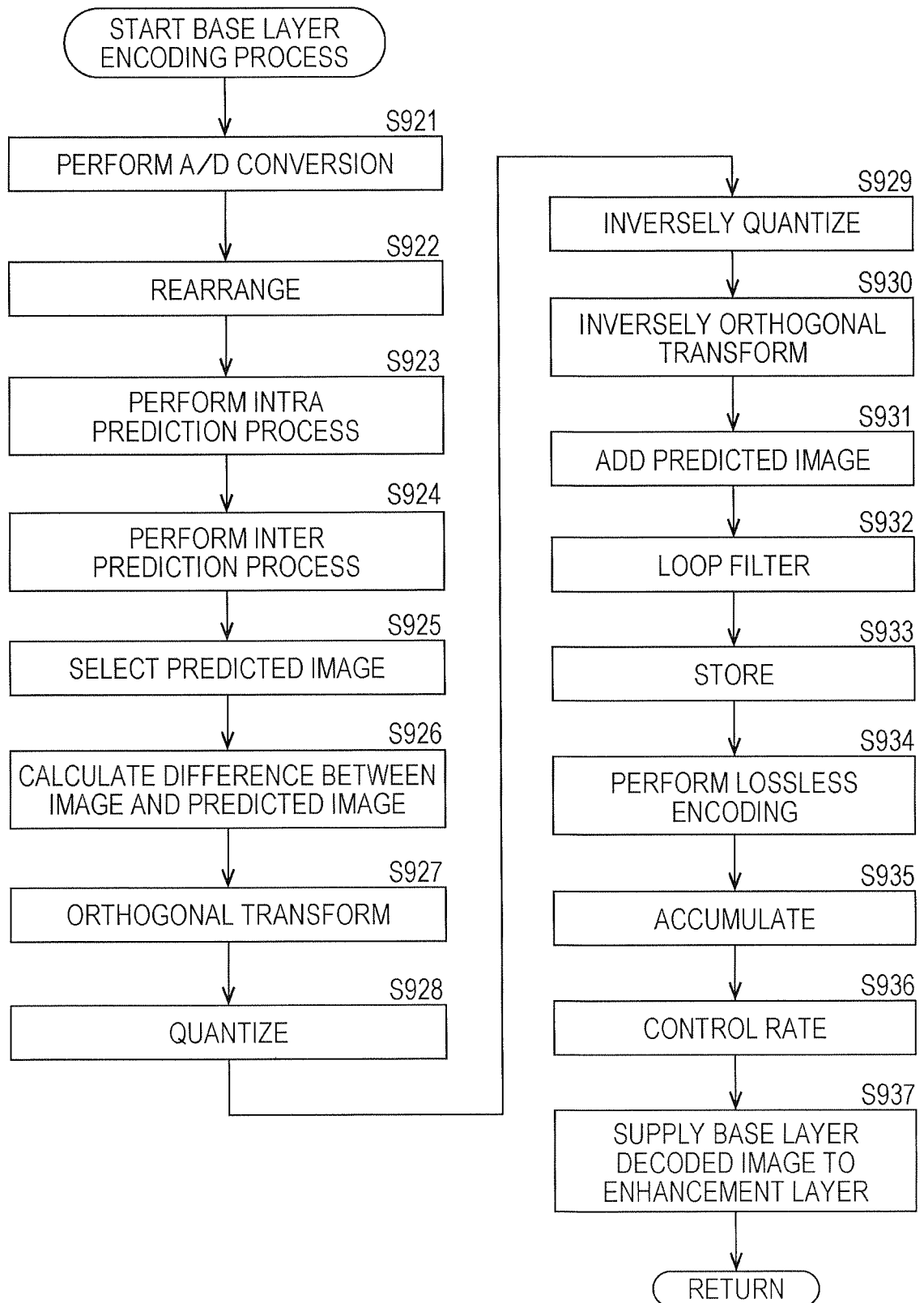


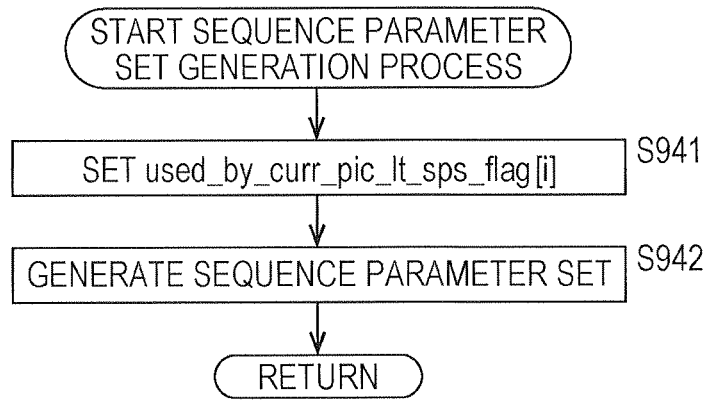
FIG. 67

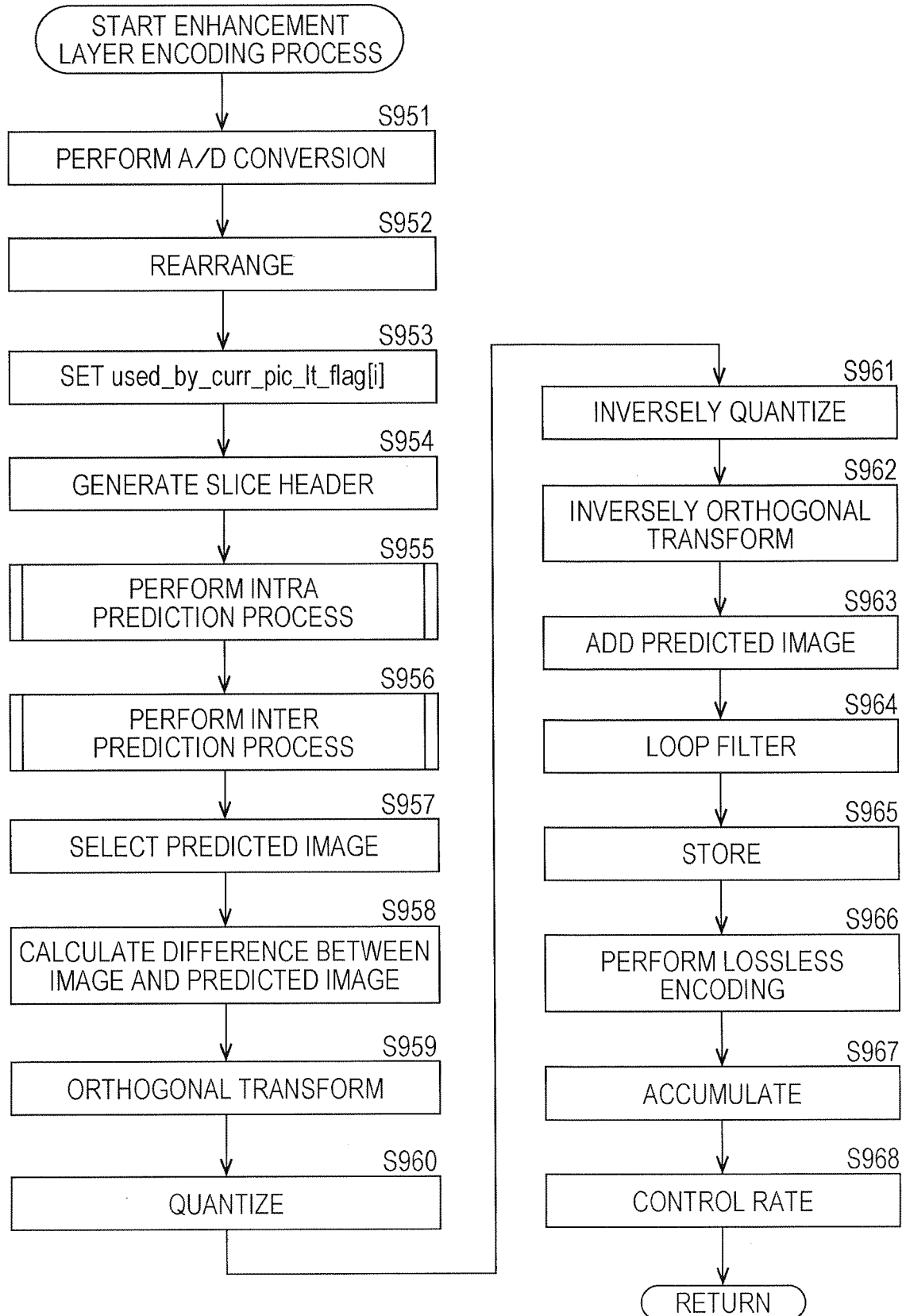
FIG. 68

FIG. 69

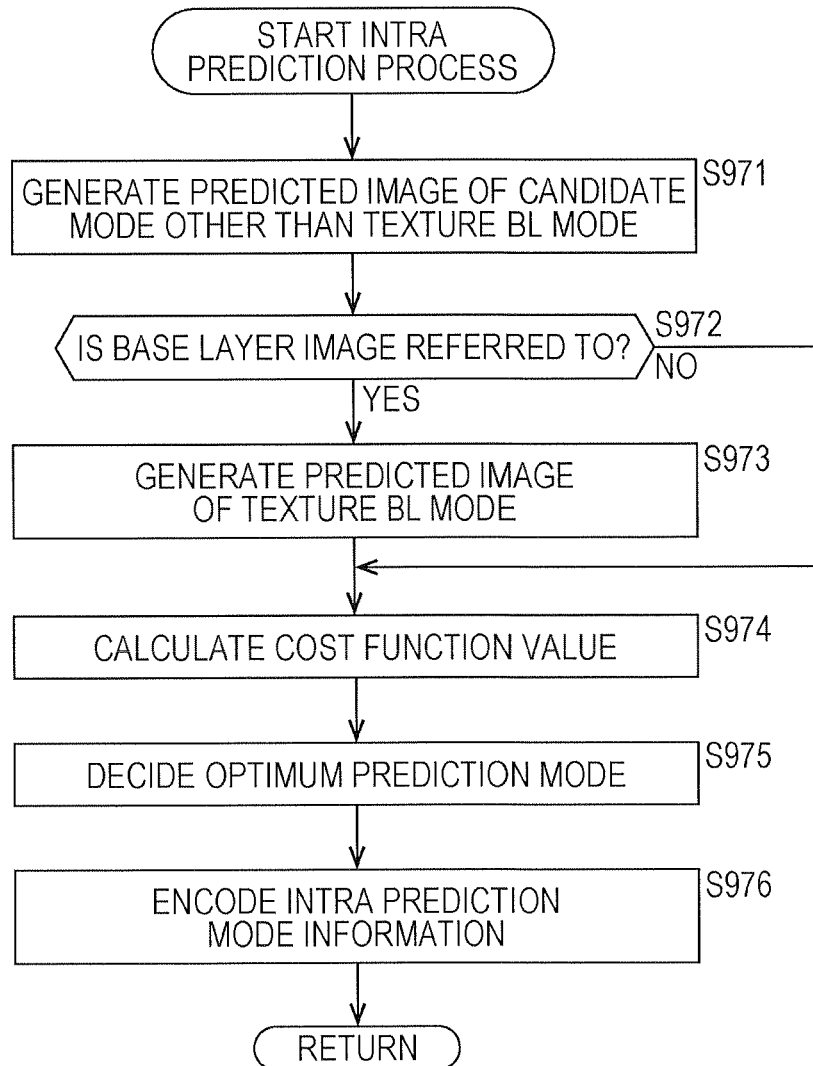


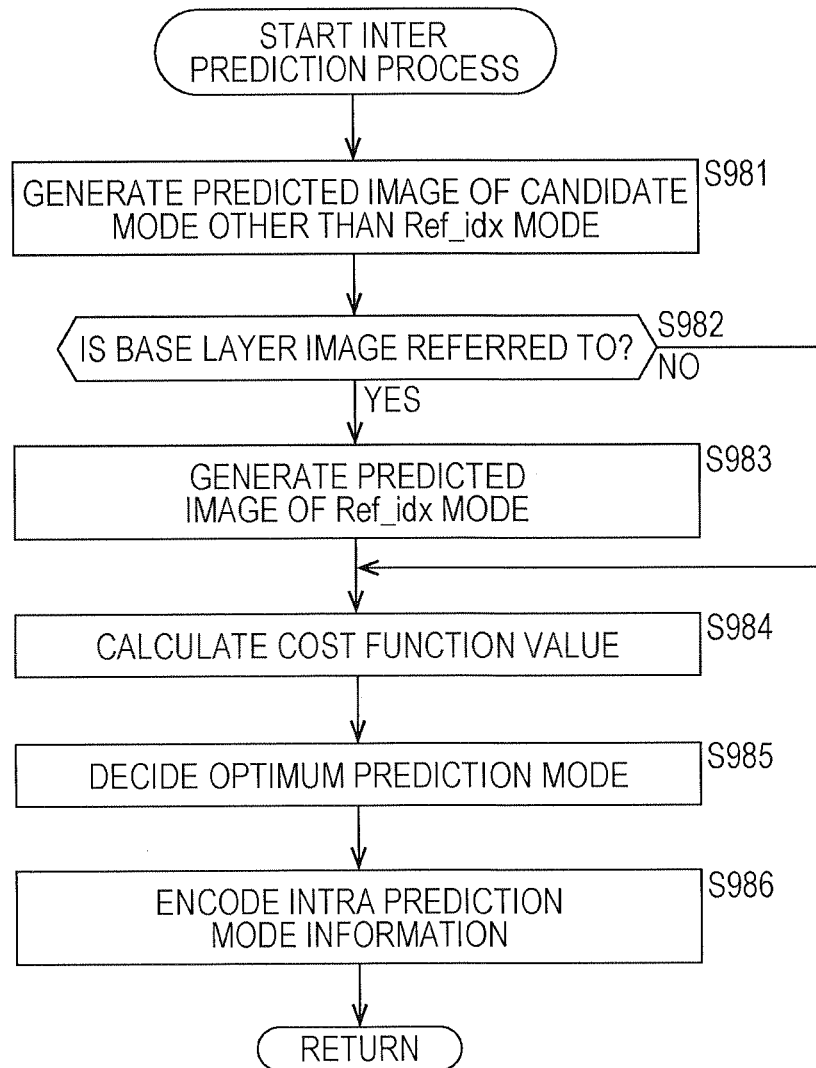
FIG. 70

FIG. 71

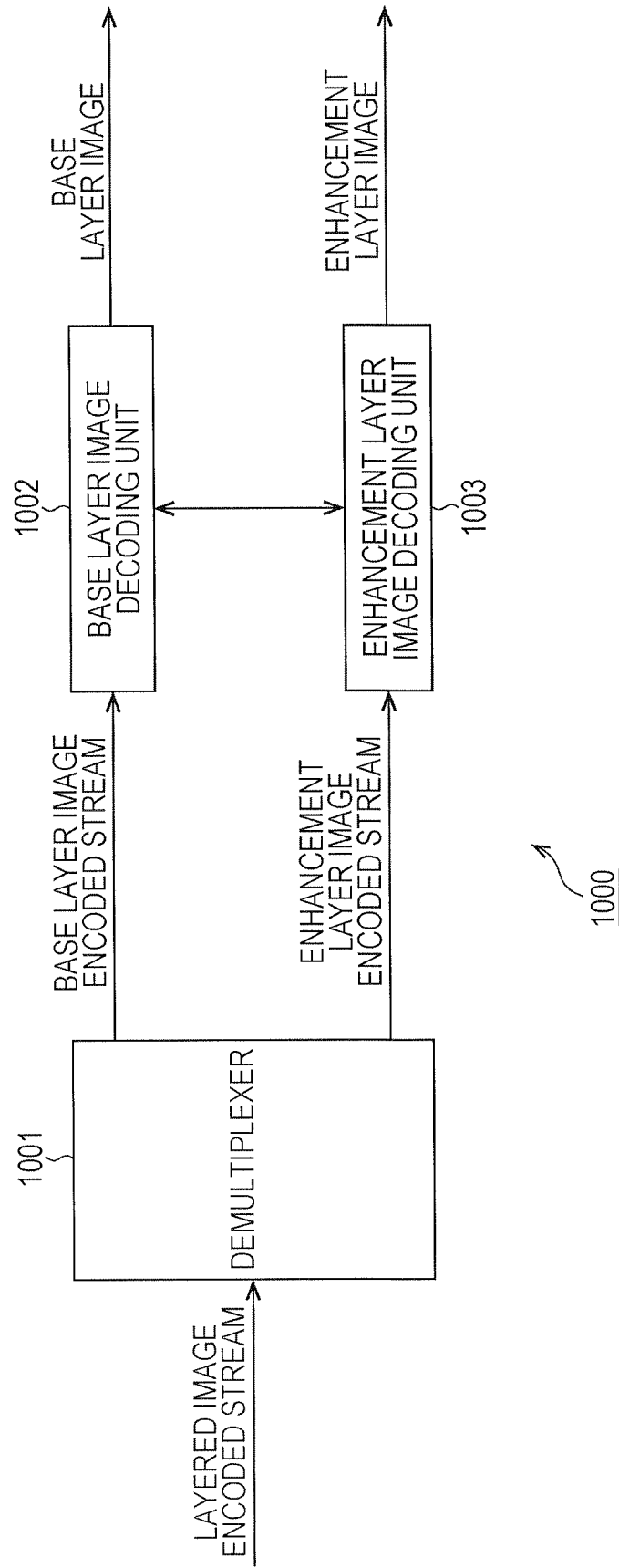


FIG. 72

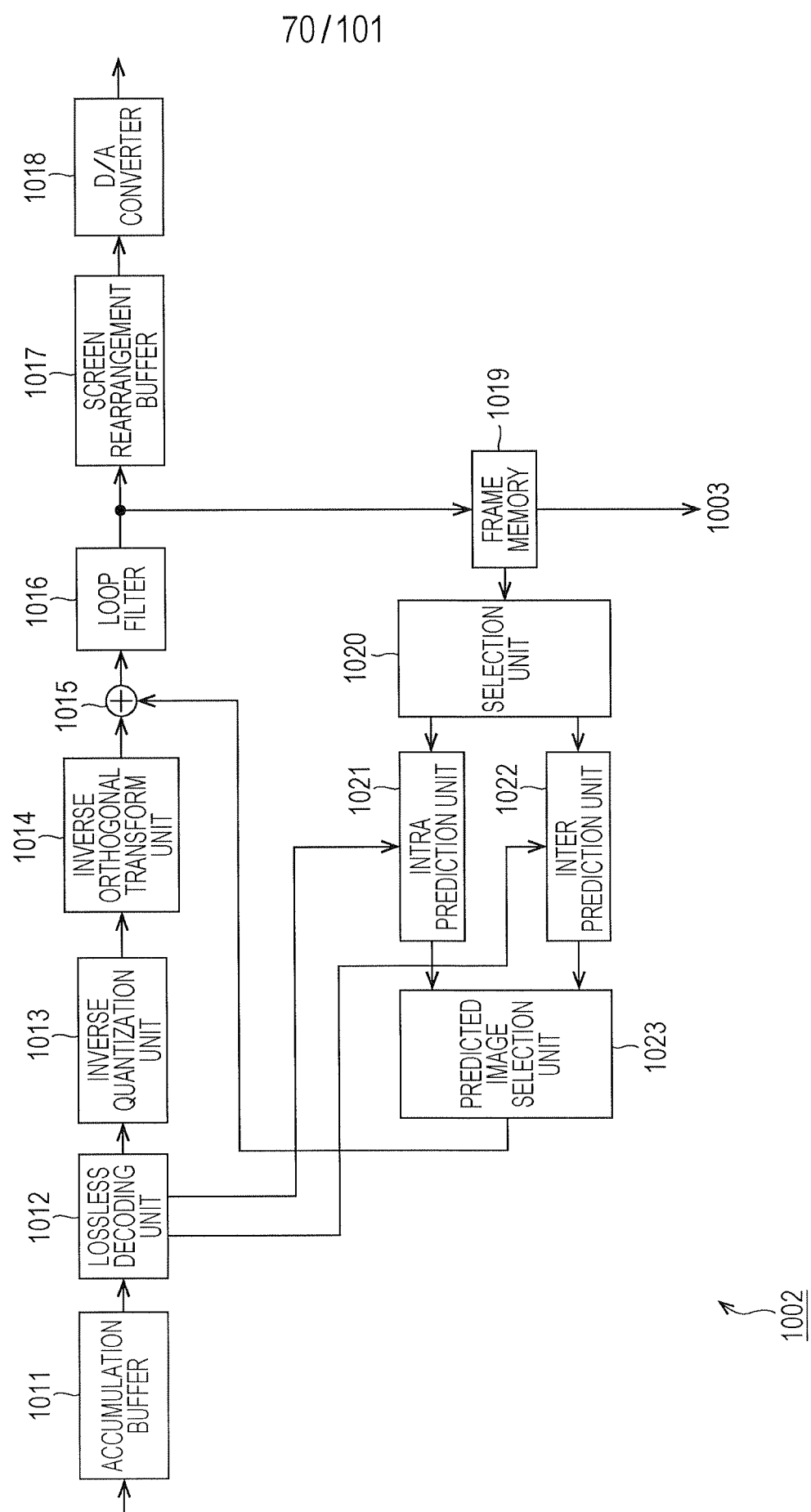


FIG. 73

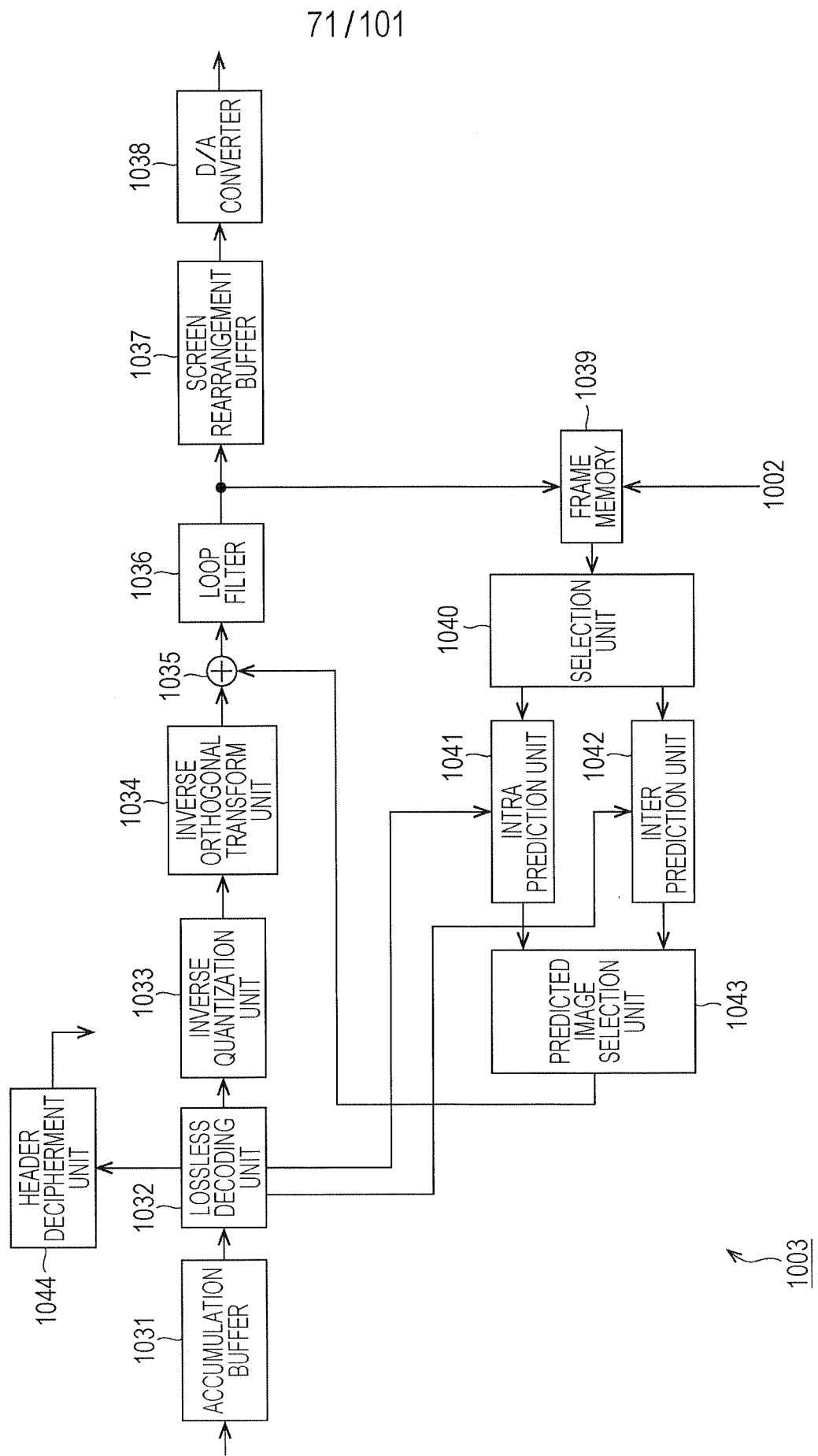


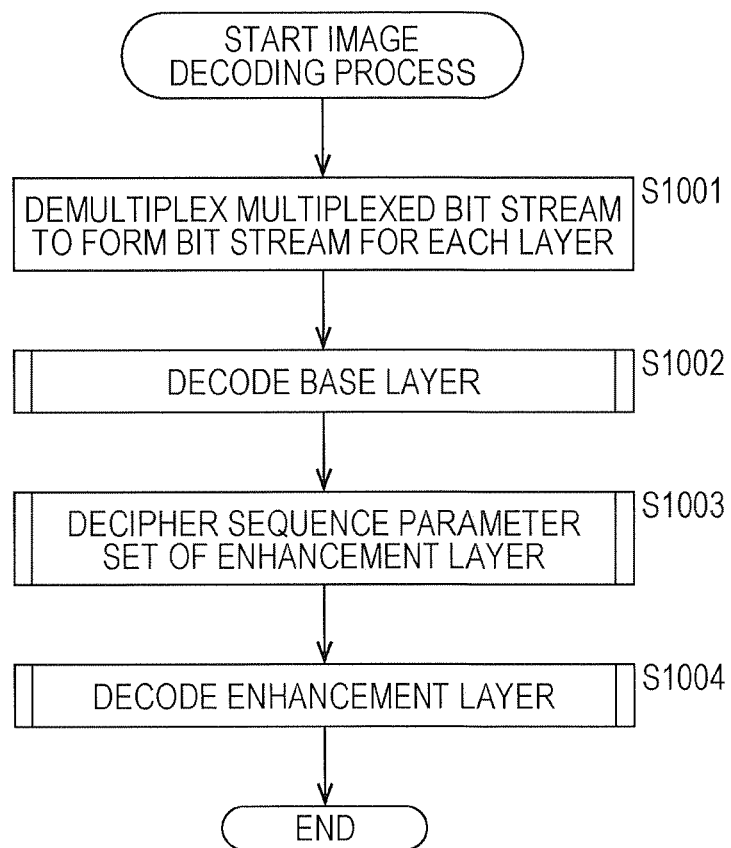
FIG. 74

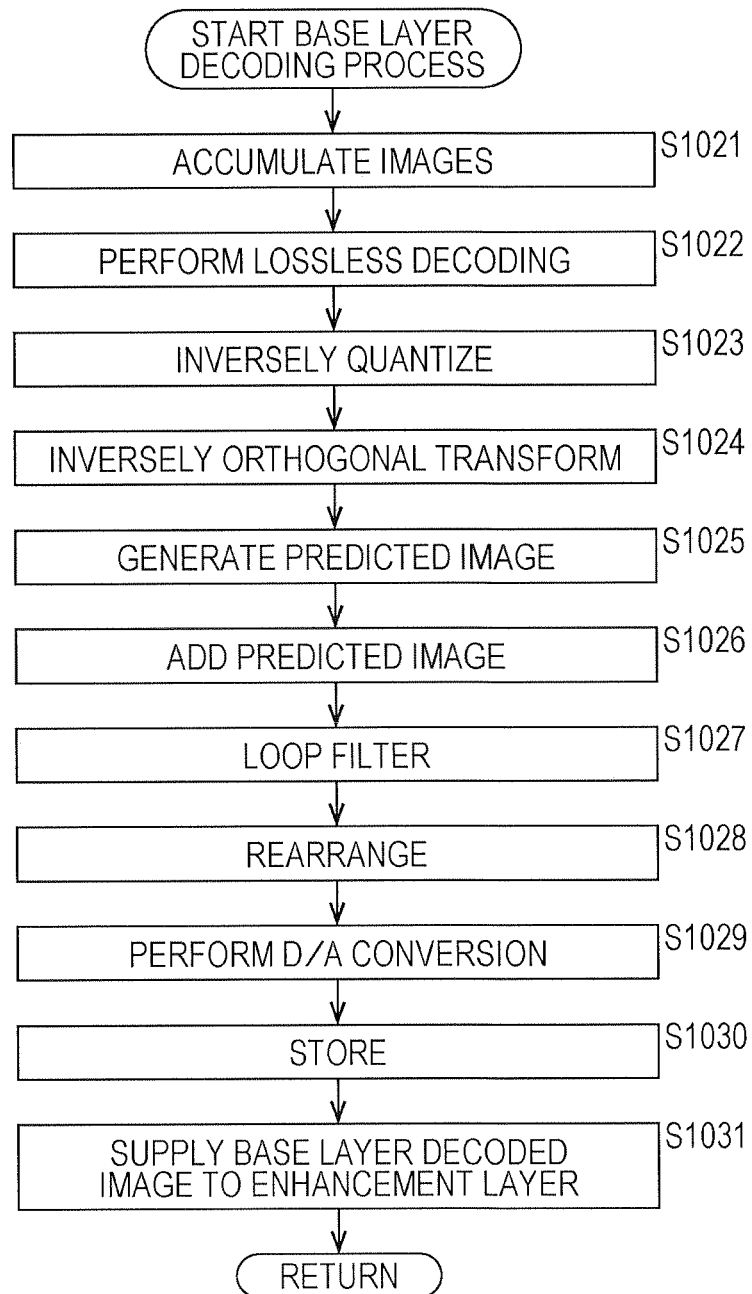
FIG. 75

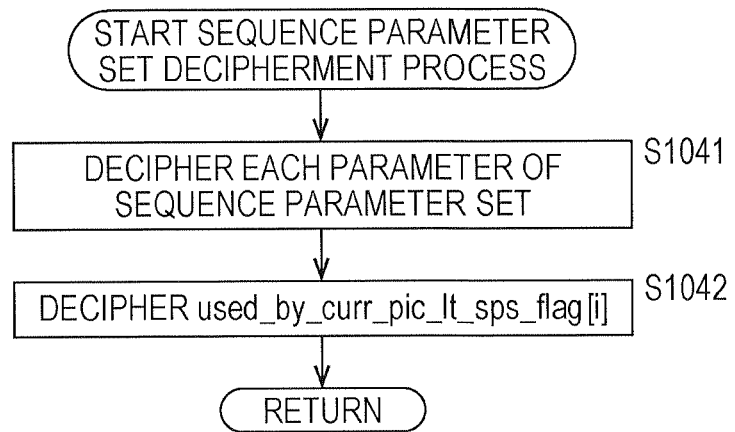
FIG. 76

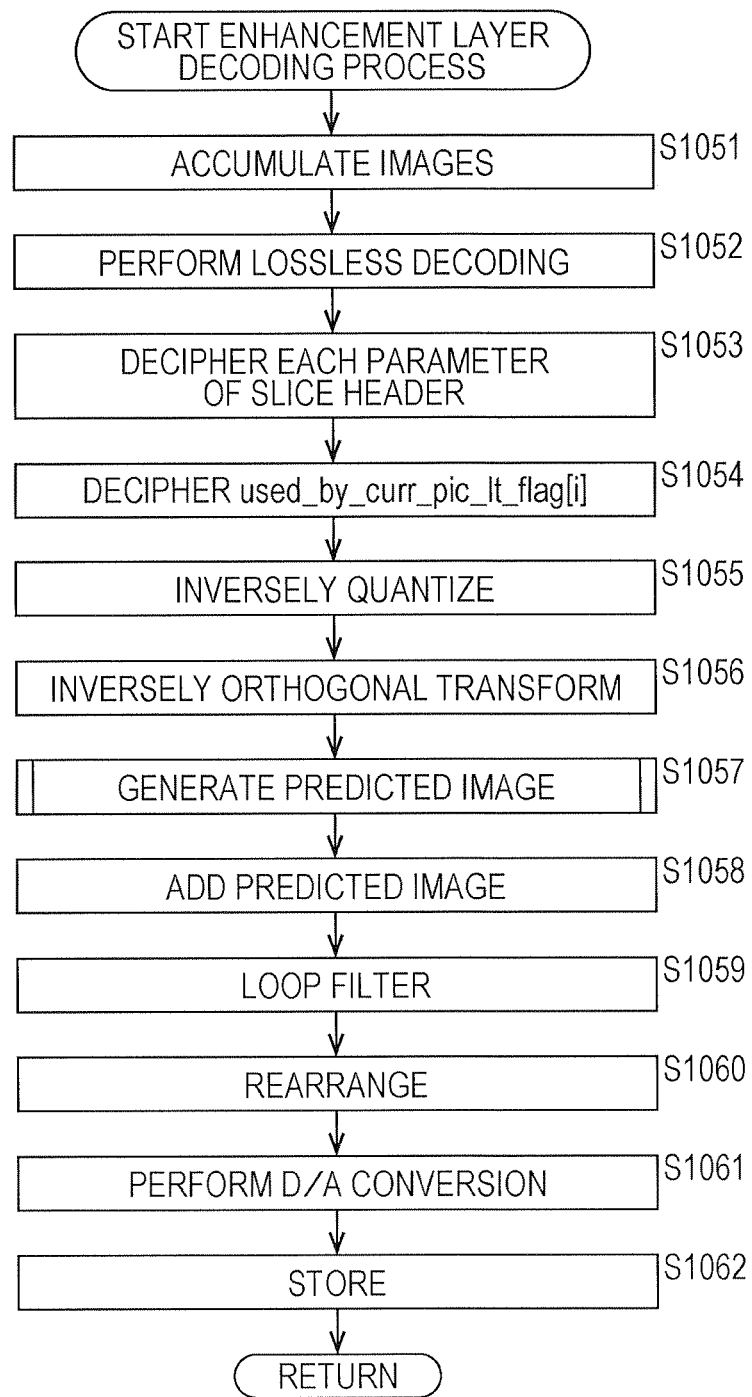
FIG. 77

FIG. 78

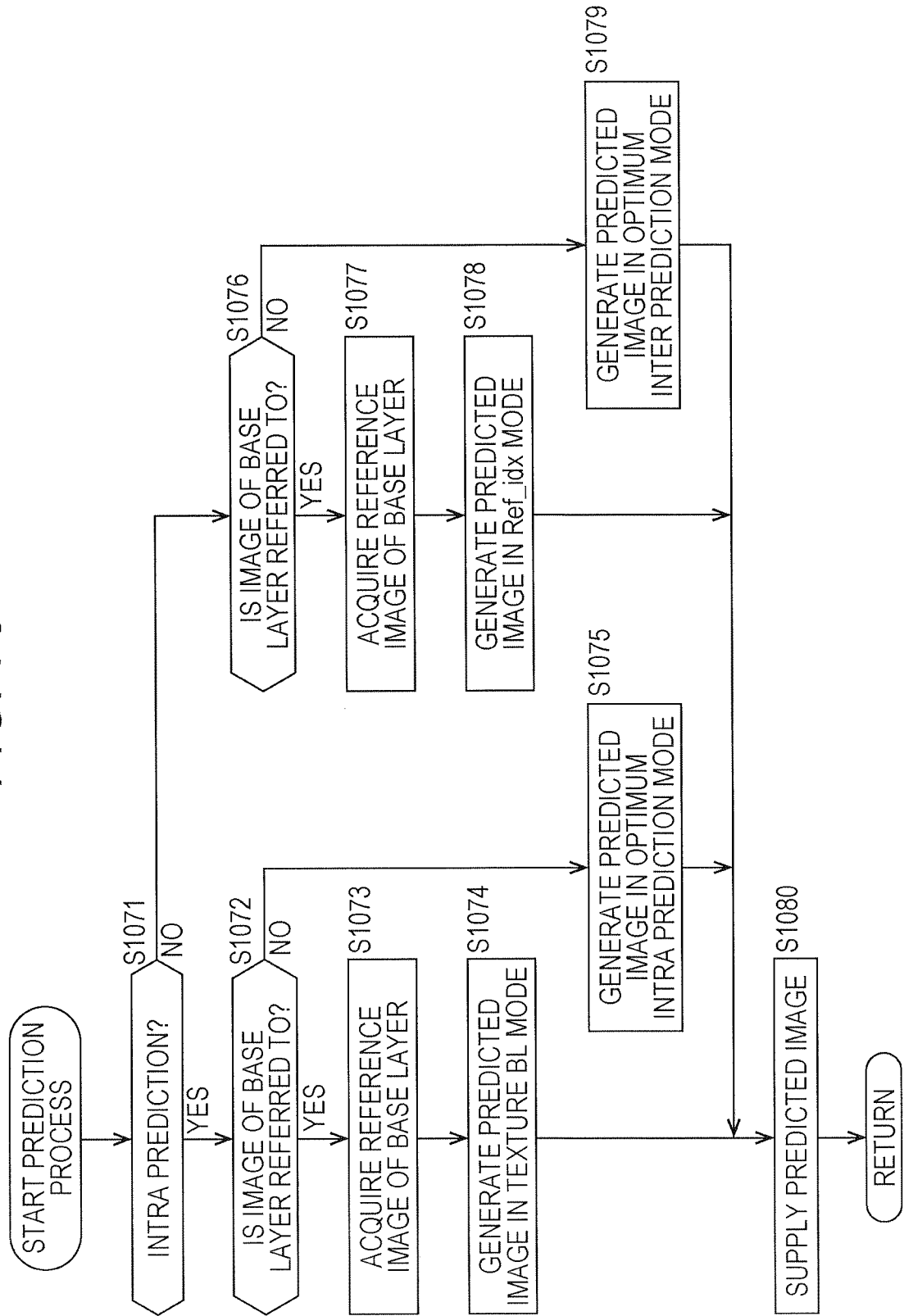


FIG. 79

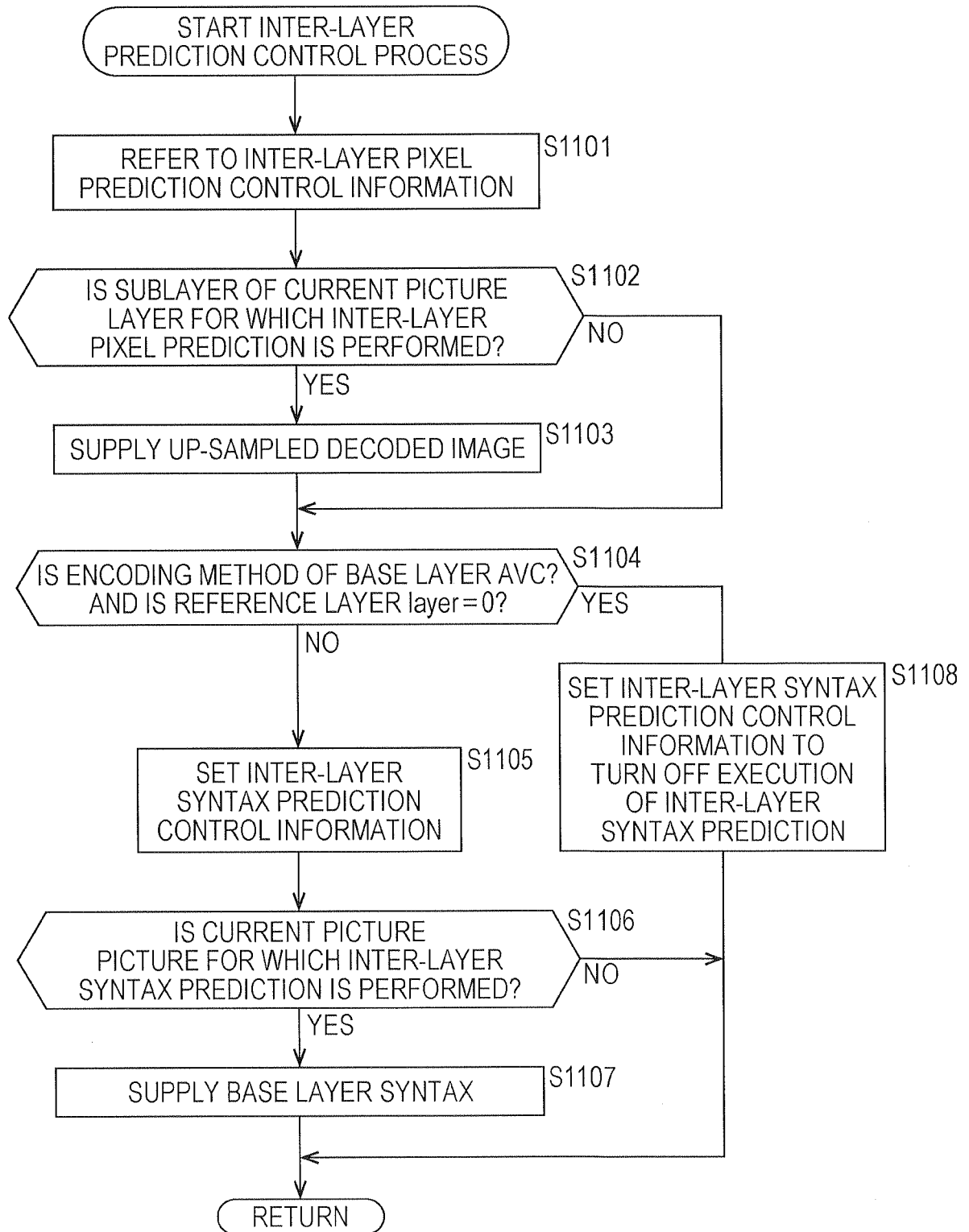


FIG. 80

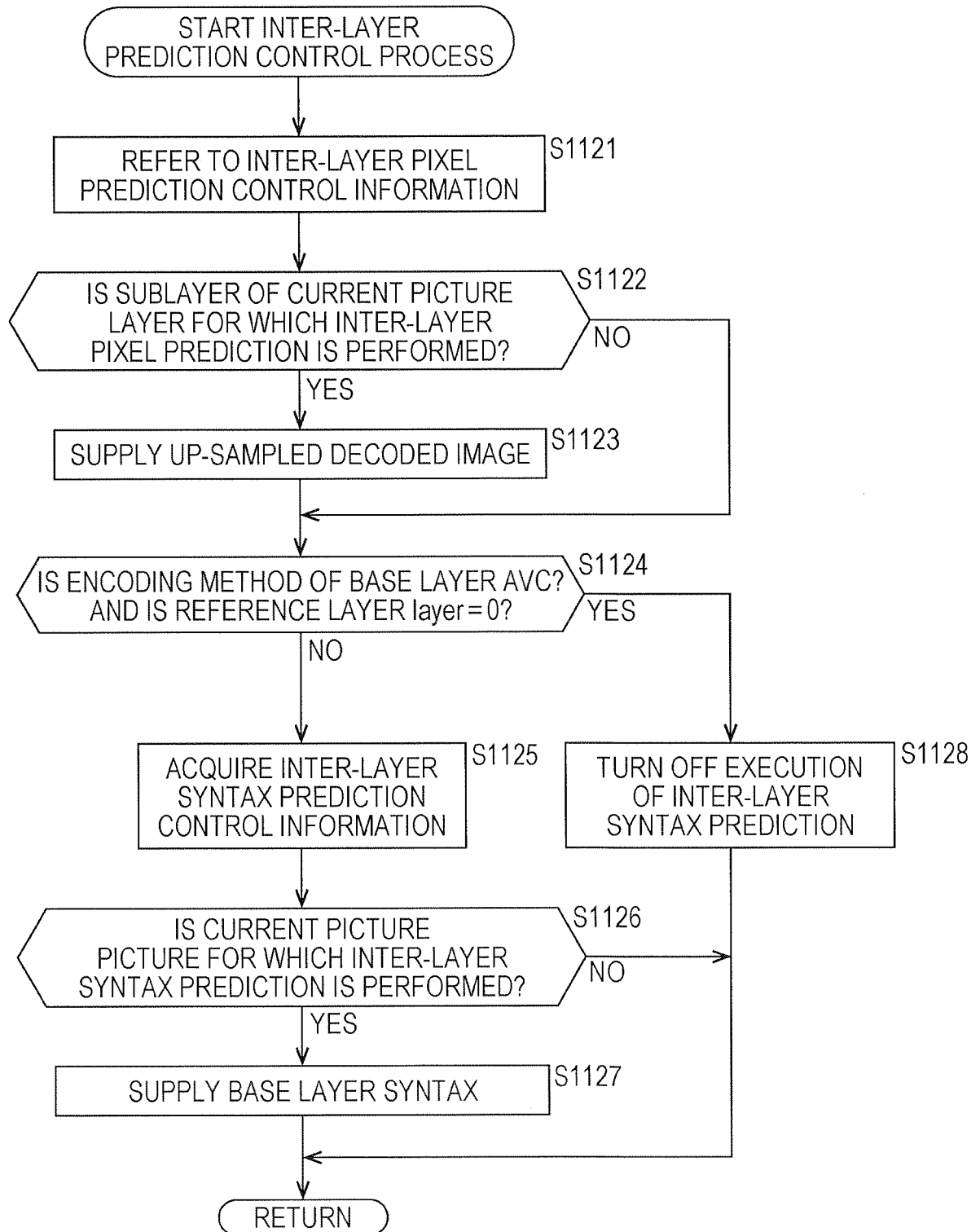


FIG. 81

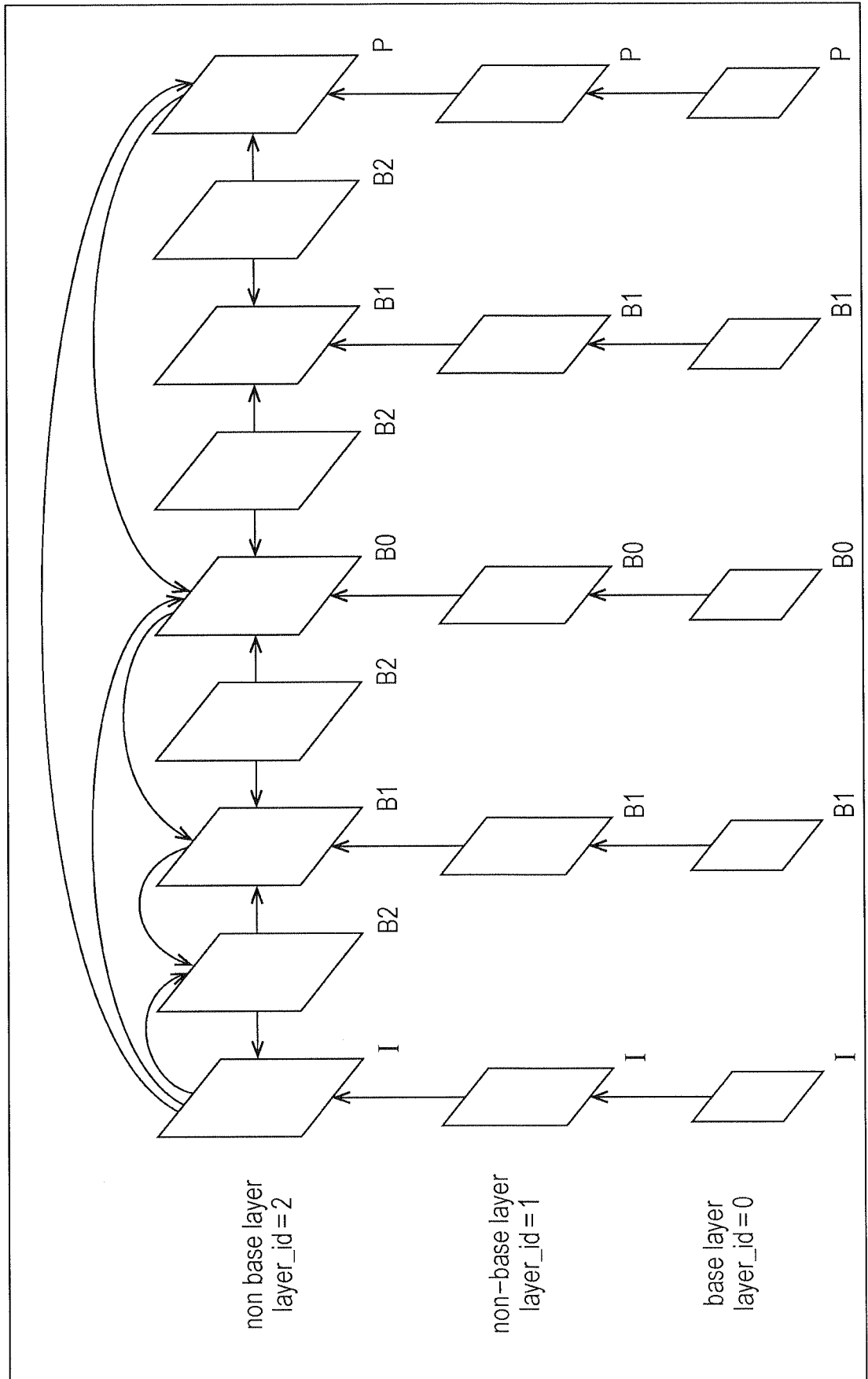


FIG. 82

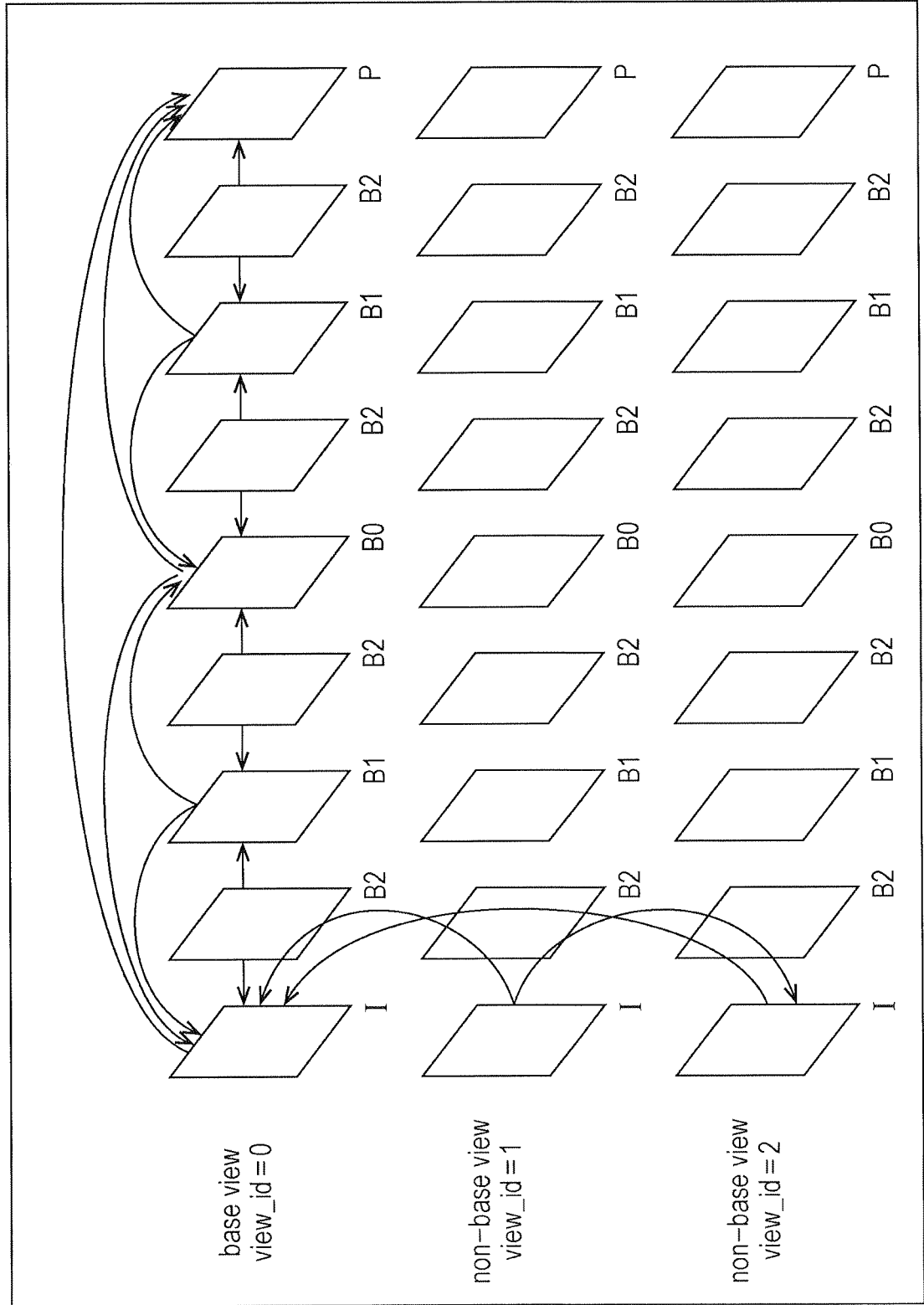


FIG. 83

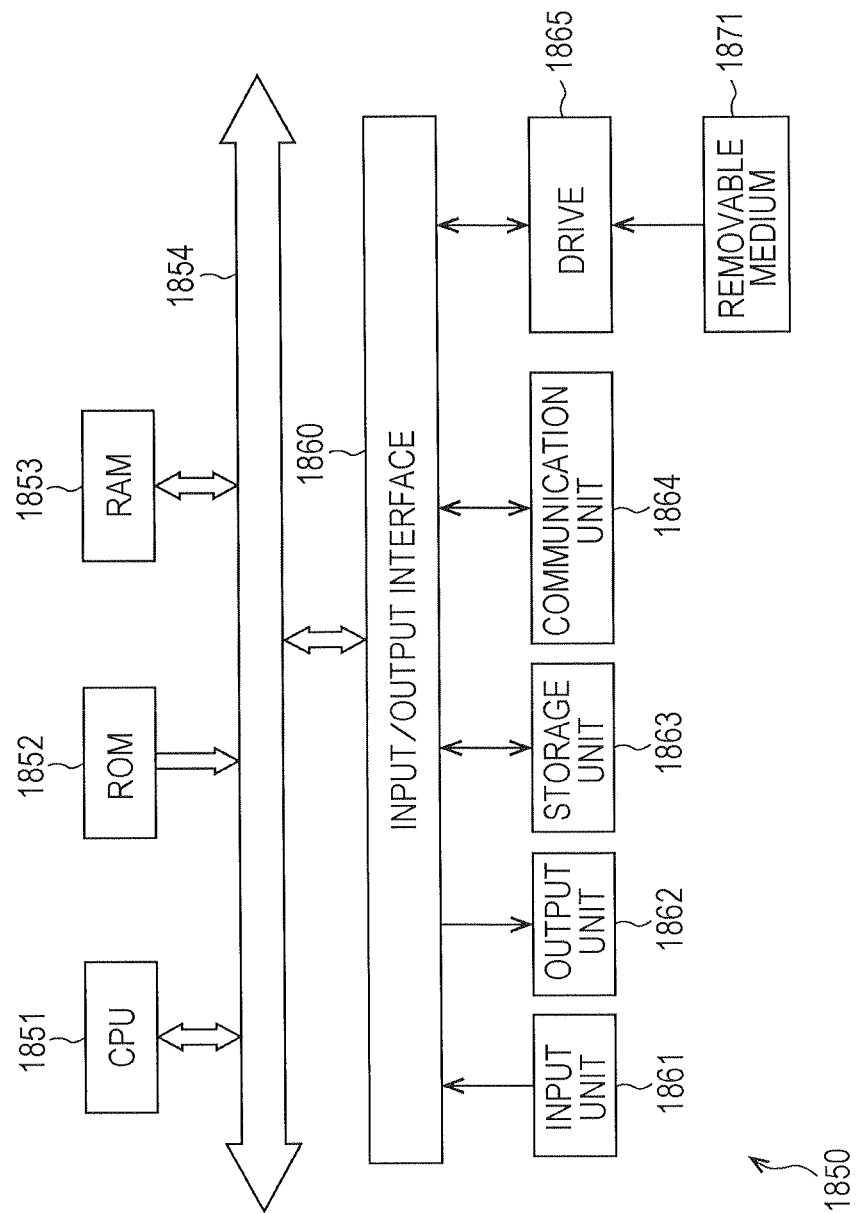


FIG. 84

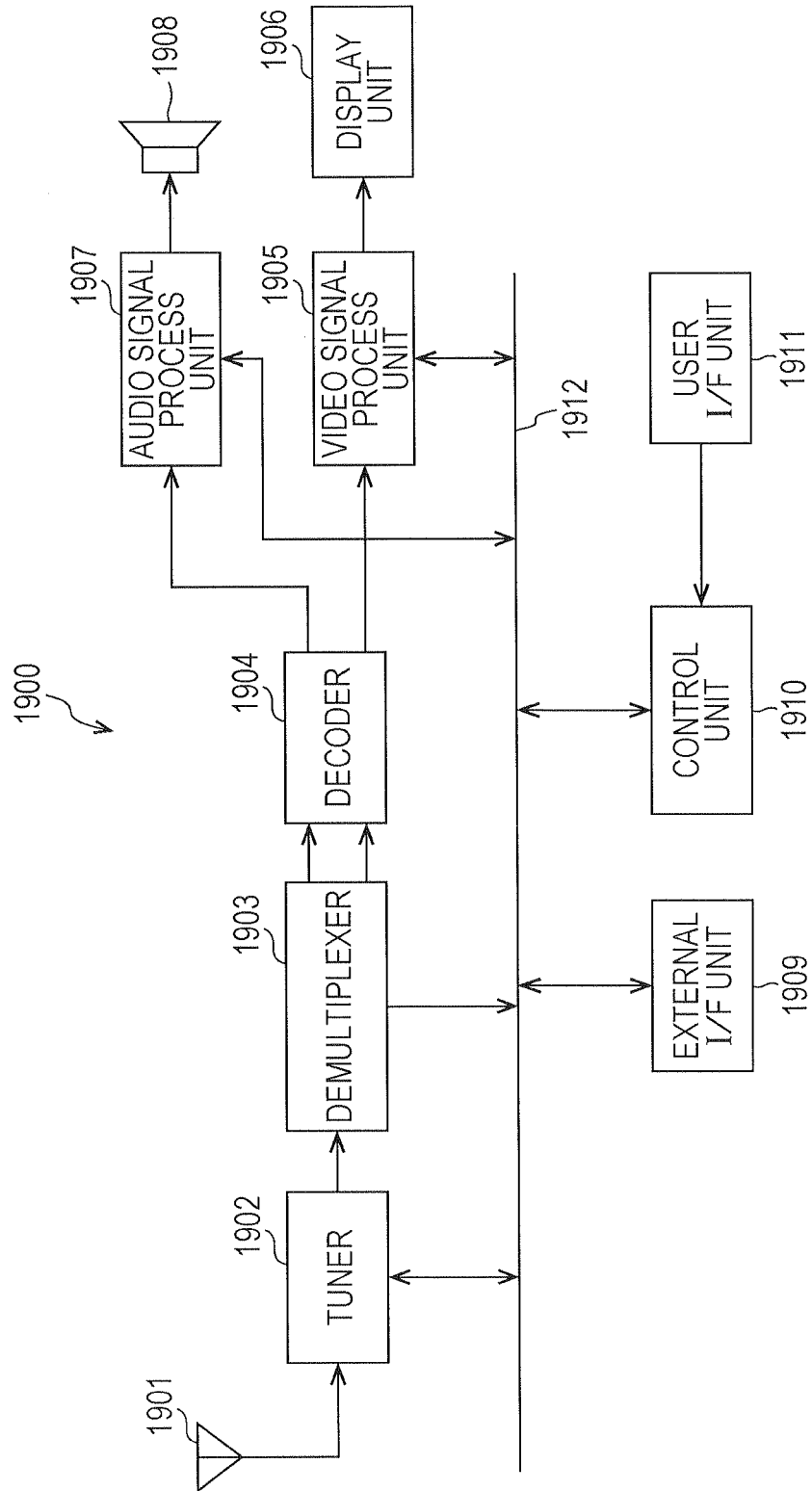


FIG. 85

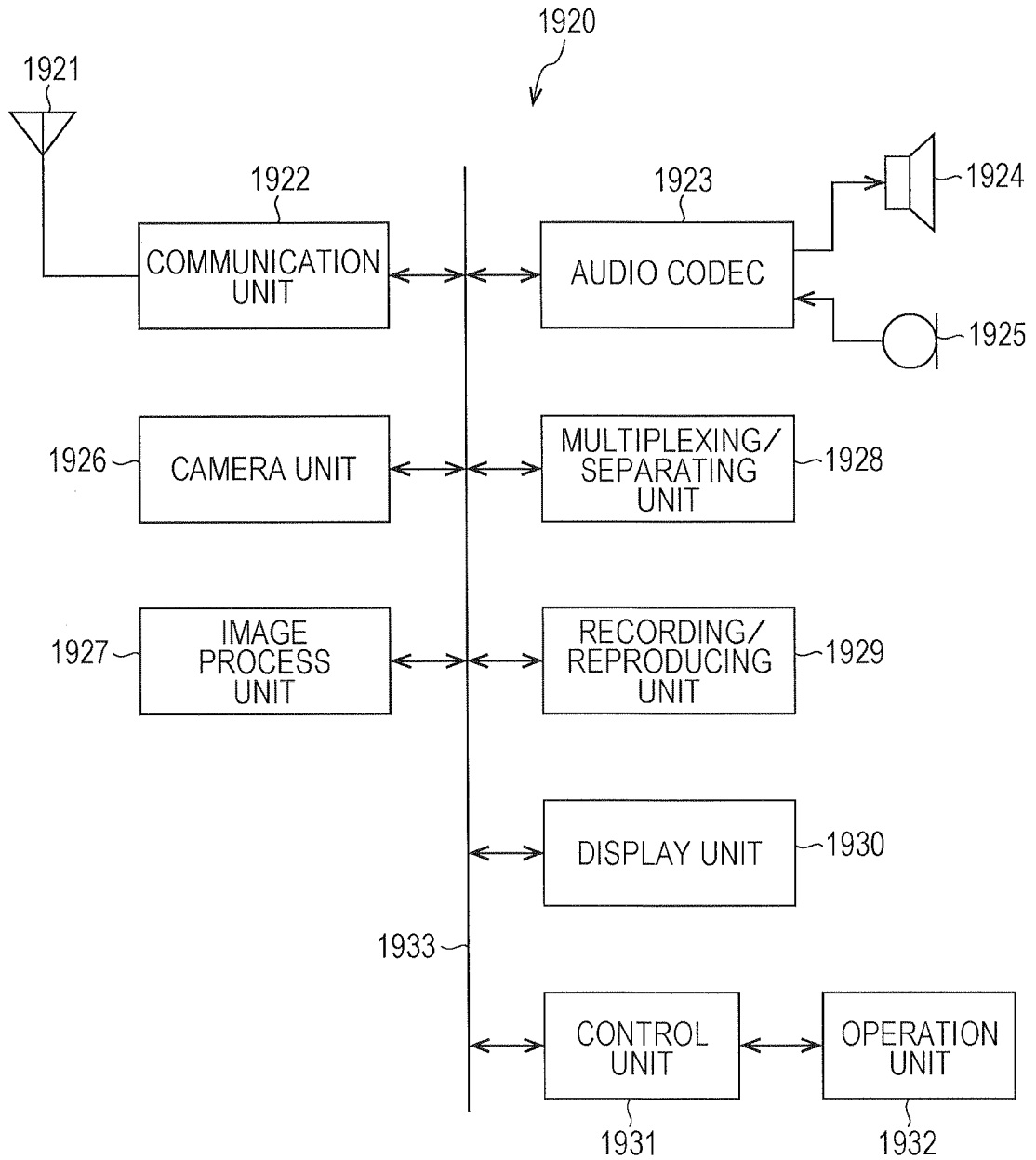


FIG. 86

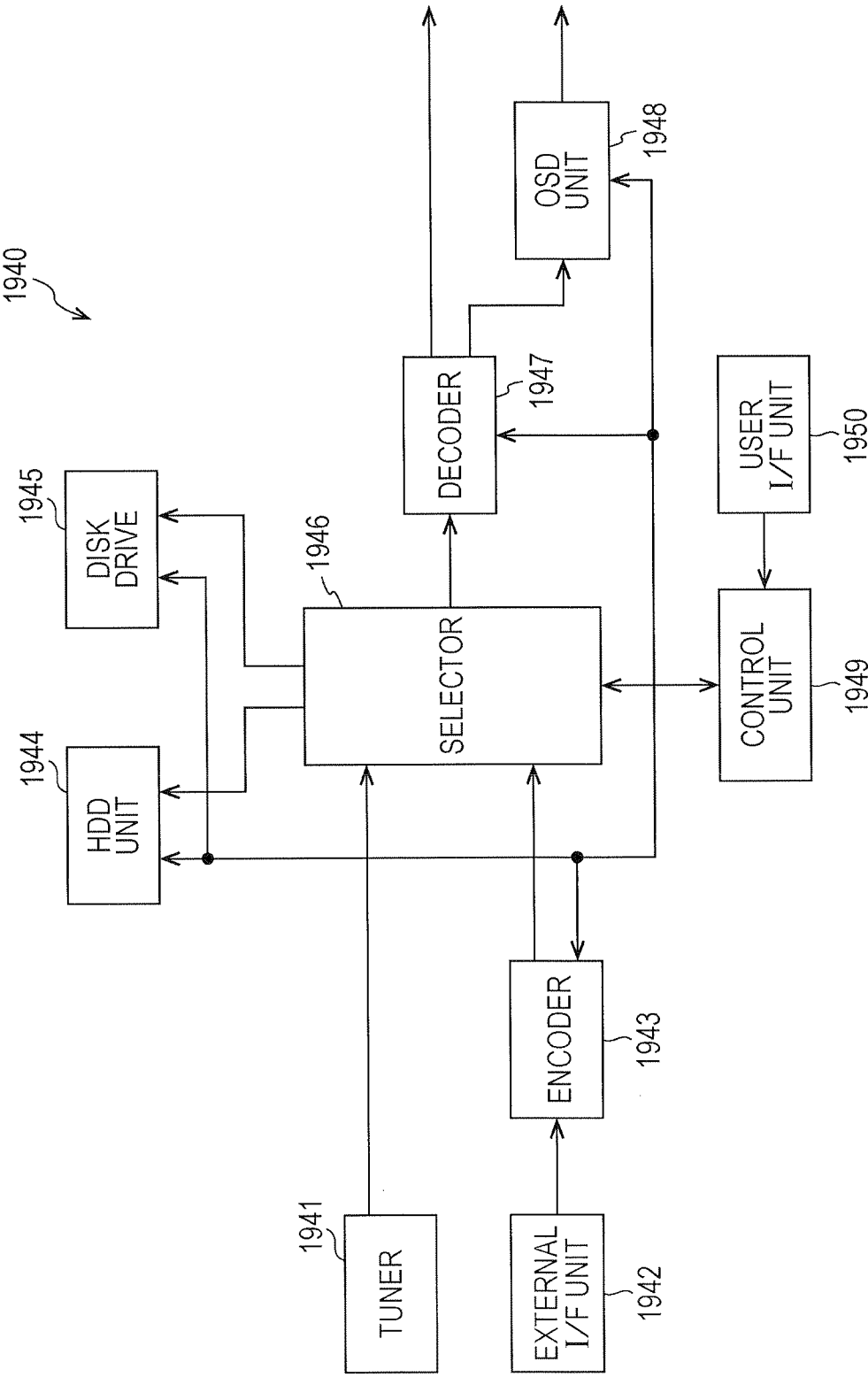


FIG. 87

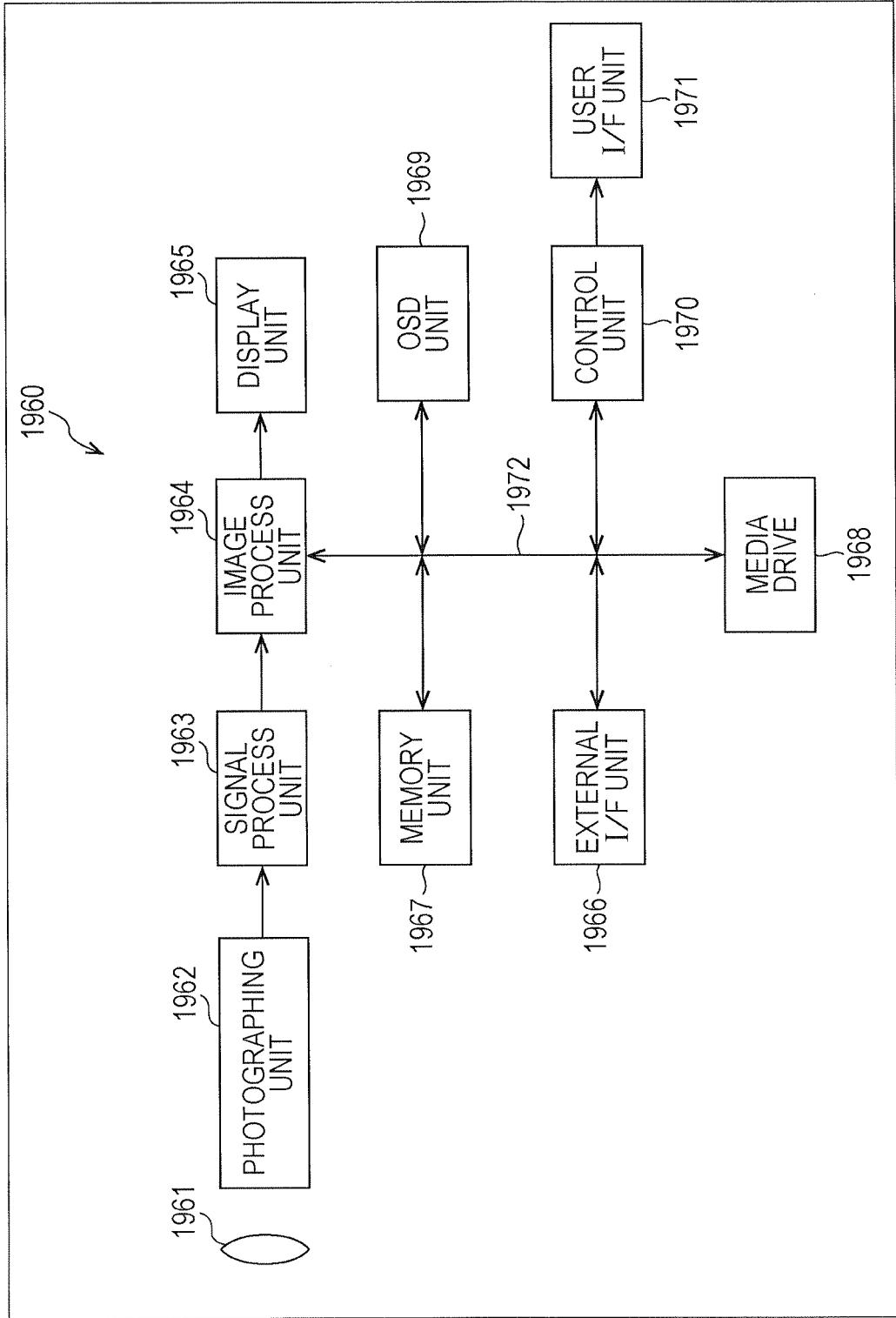


FIG. 88

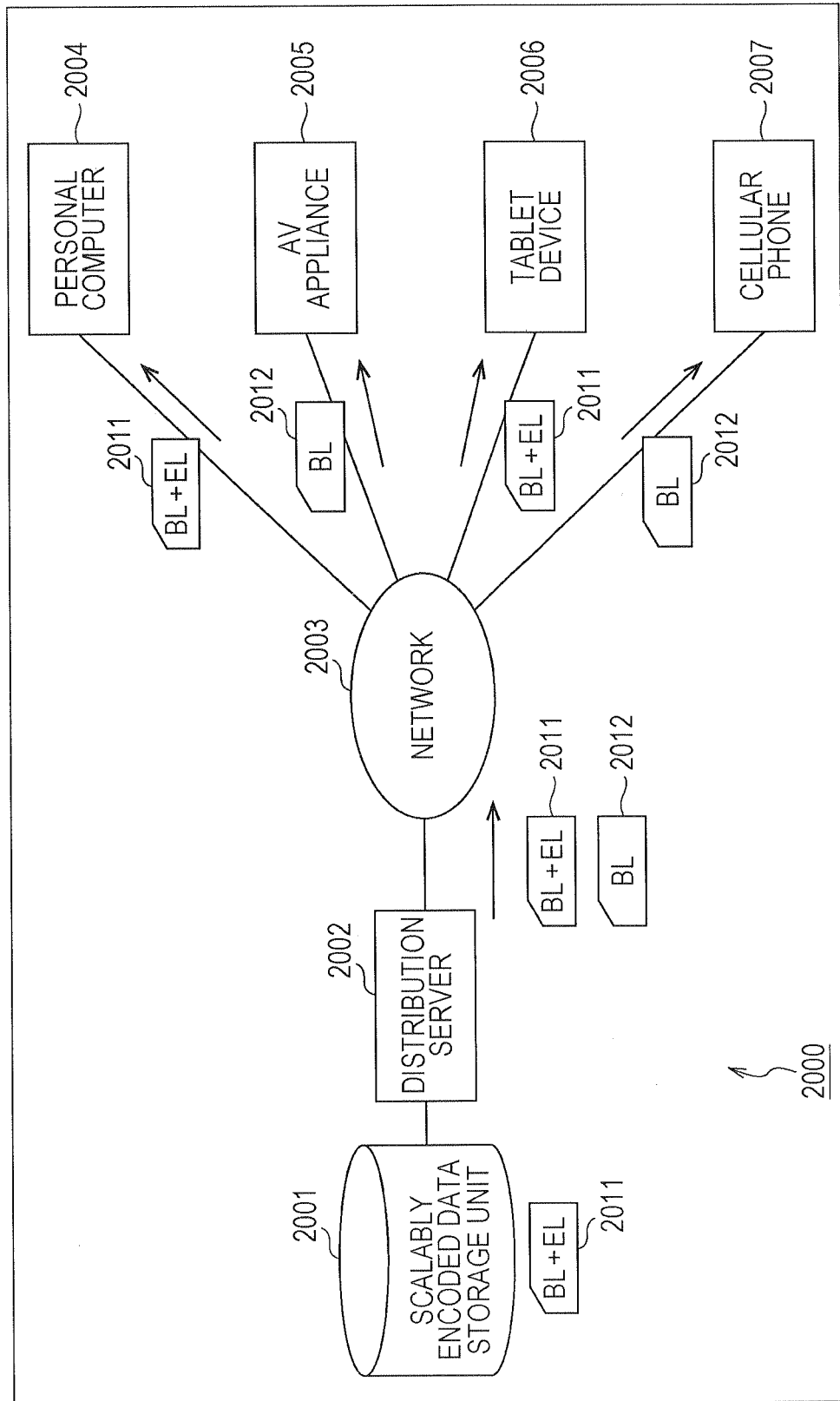


FIG. 89

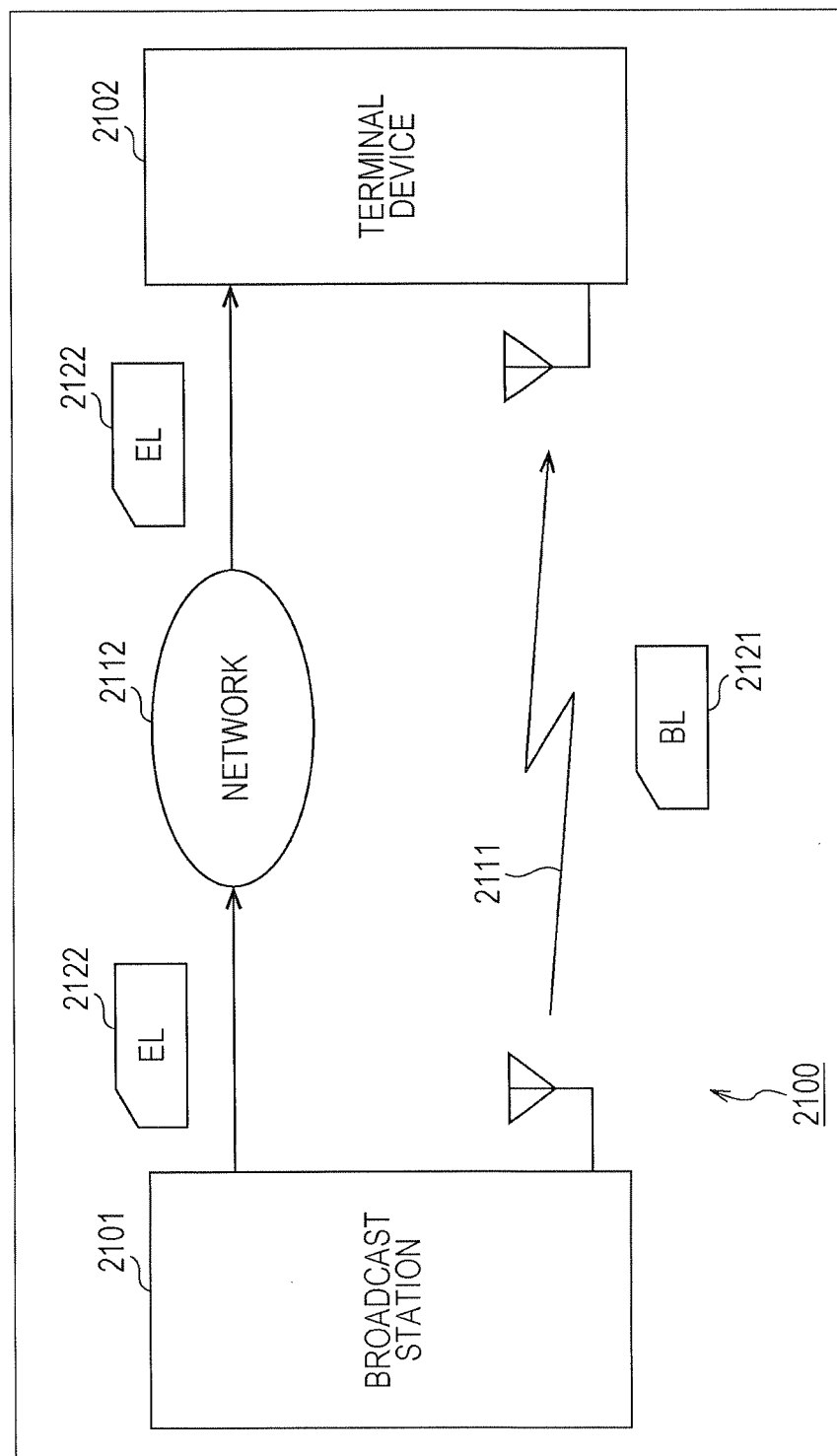


FIG. 90

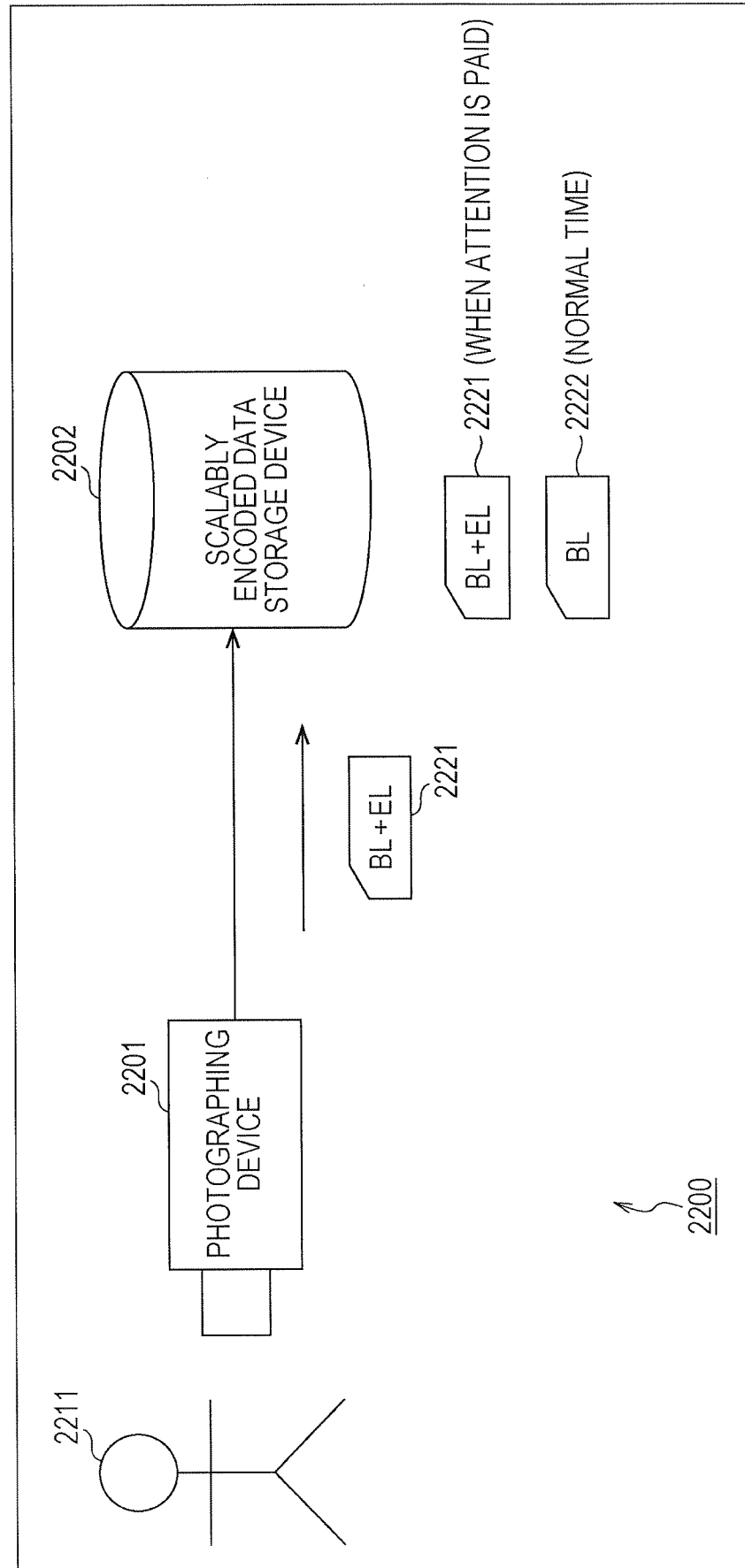


FIG. 91

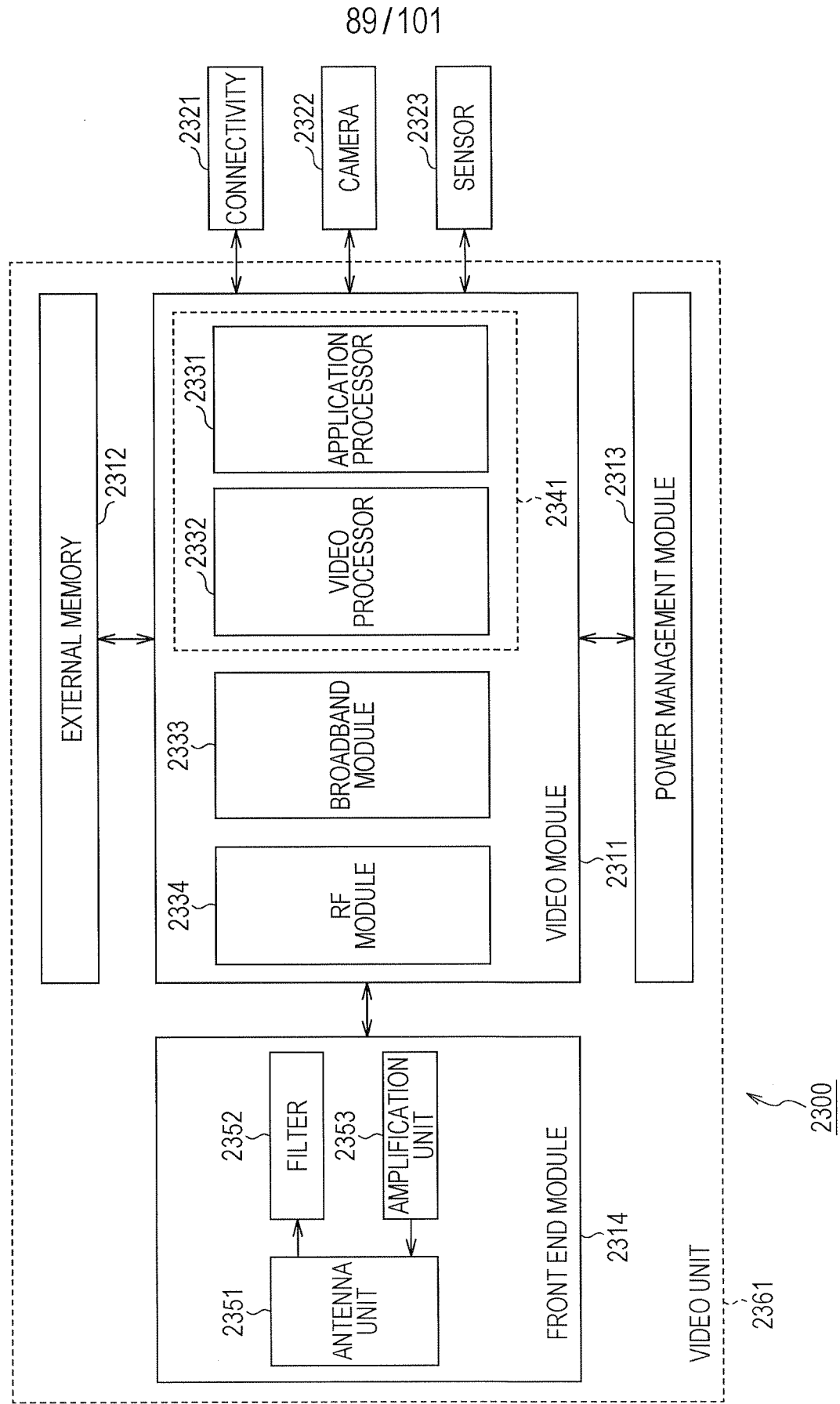


FIG. 92

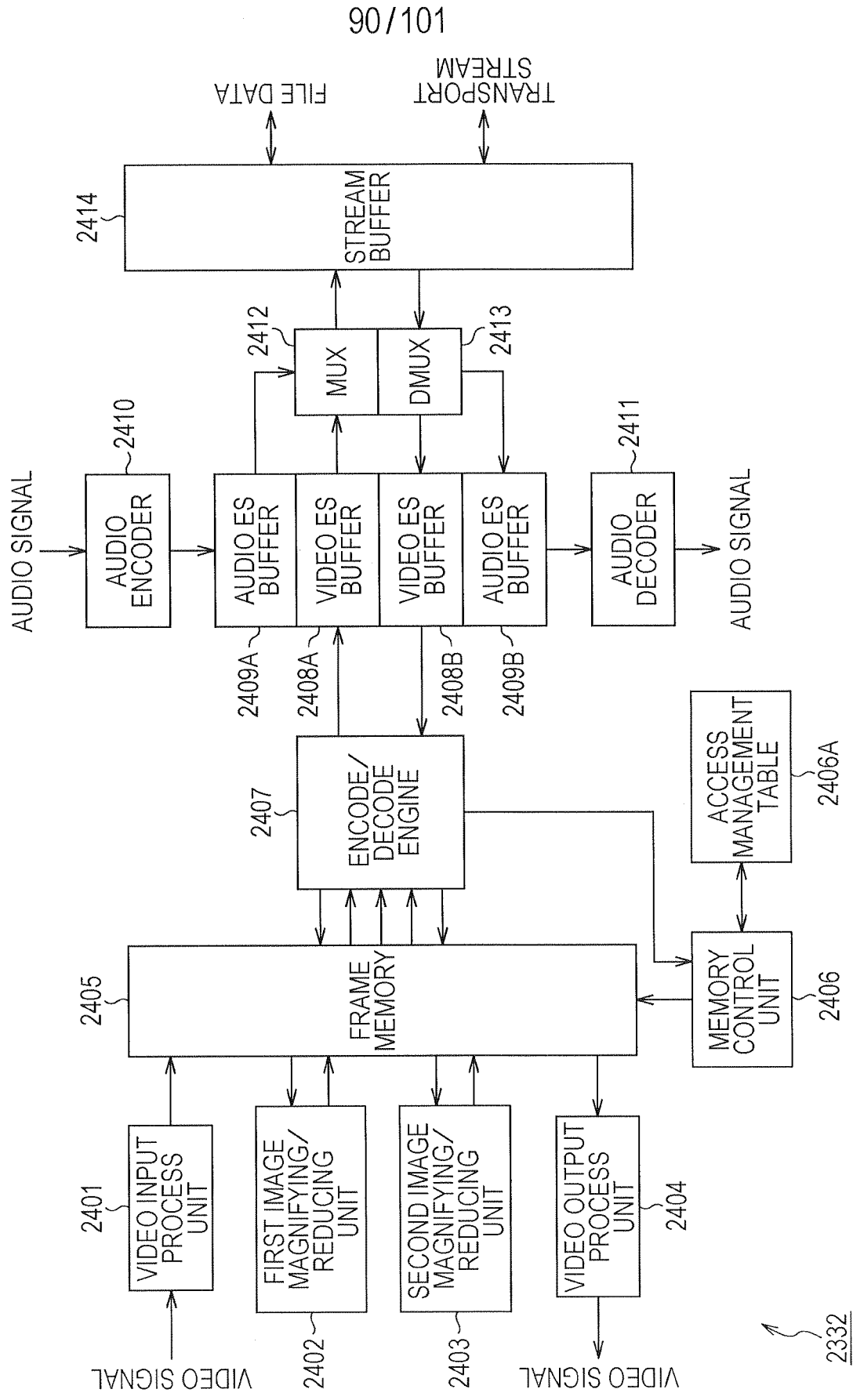


FIG. 93

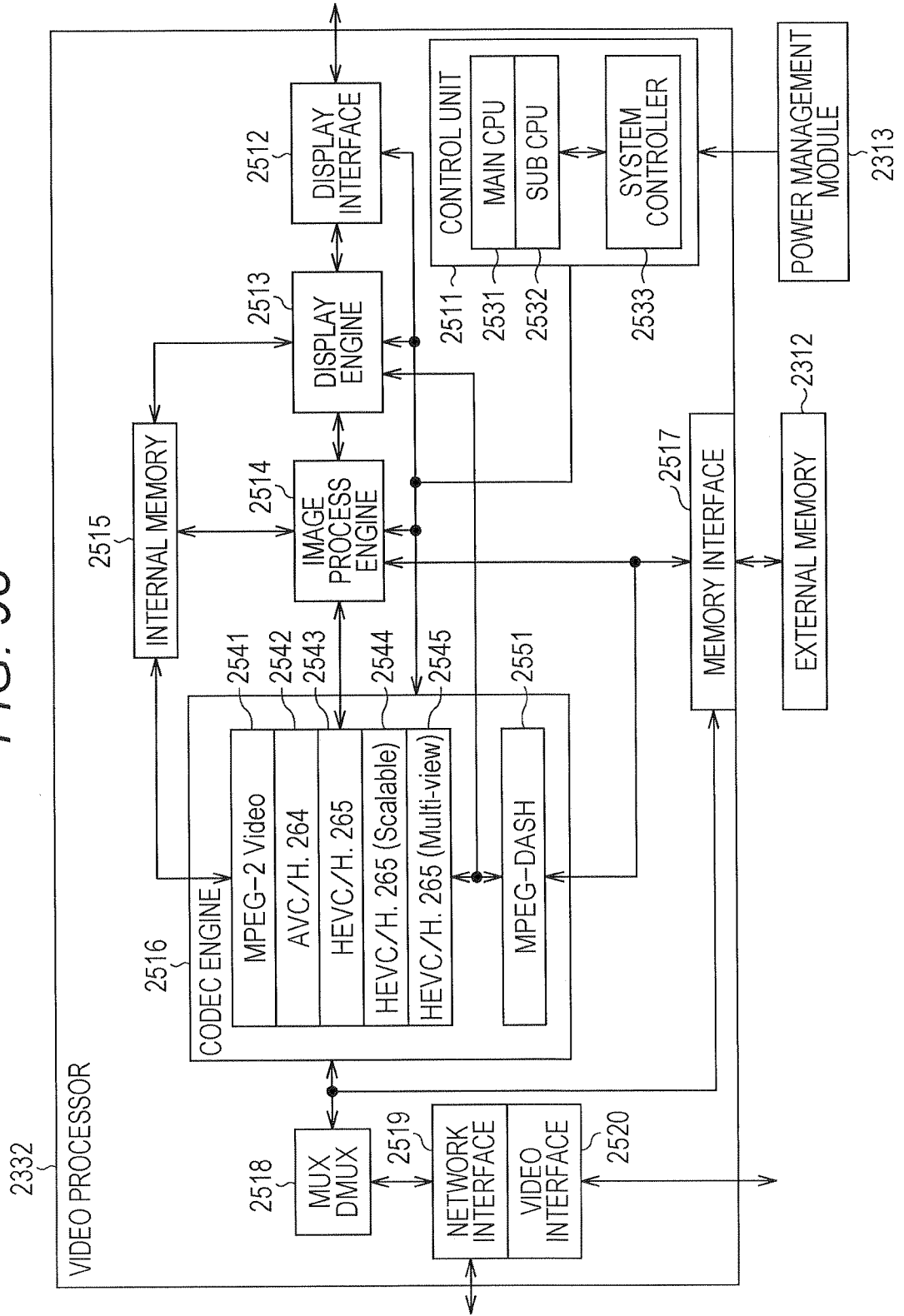


FIG. 94

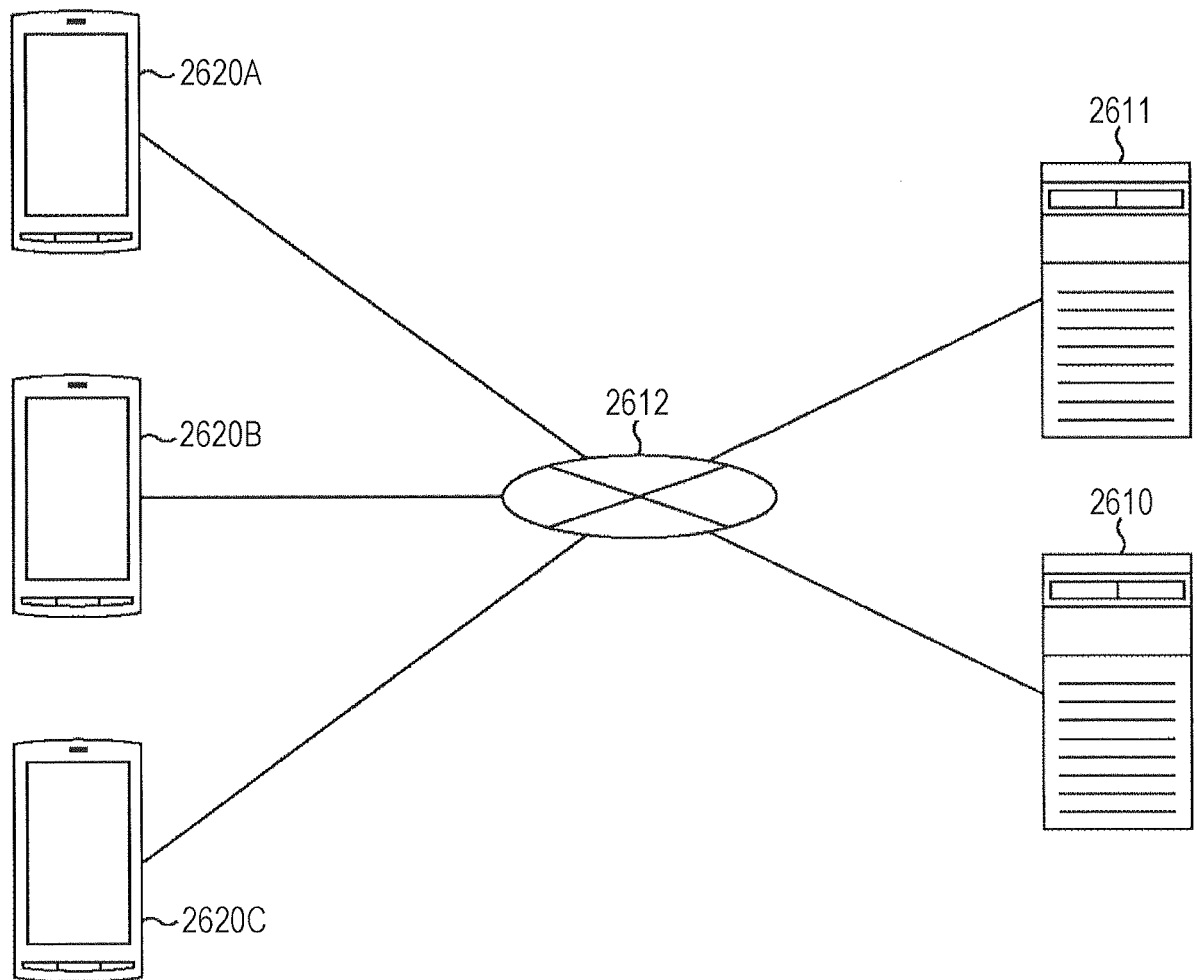


FIG. 95

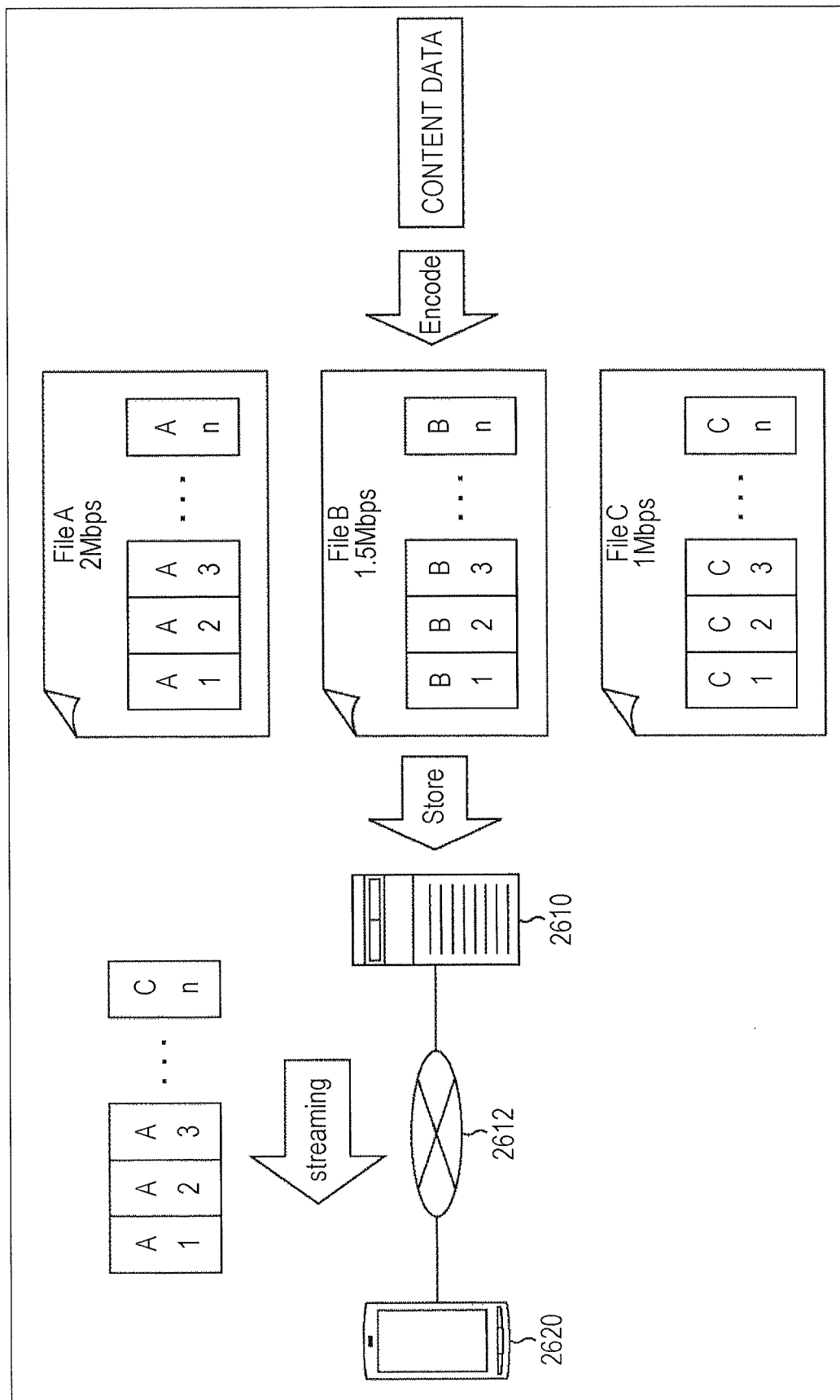


FIG. 96

```

<?xml version="1.0"?>
<MPD
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:mpeg:DASH:schema:MPD:2011"
  xsi:schemaLocation="urn:mpeg:DASH:schema:MPD:2011 DASH-MPD.xsd"
  type="static"
  mediaPresentationDuration="PT3256S"
  minBufferTime="PT1.2S"
  profiles="urn:mpeg:dash:profile:isoff-on-demand:2011">
  <BaseURL>http://cdn1.example.com/</BaseURL>
  <BaseURL>http://cdn2.example.com/</BaseURL>
  <Period>
    <!--English Audio-->
    <AdaptationSet mimeType="audio/mp4" codecs="mp4a.0x40" lang="en" subsegmentAlignment="true" subsegmentStartsWithSAP="1">
      <ContentProtection schemeIdUri="urn:uuid:70608953-656C-5244-4D48-656164657221"/>
      <Representation id="1" bandwidth="64000">
        <BaseURL>7657412348.mp4</BaseURL>
      </Representation>
      <Representation id="2" bandwidth="32000">
        <BaseURL>3463646346.mp4</BaseURL>
      </Representation>
    </AdaptationSet>
    <!--Video-->
    <AdaptationSet mimeType="video/mp4" codecs="avc1.4d0228" subsegmentAlignment="true" subsegmentStartsWithSAP="2">
      <ContentProtection schemeIdUri="urn:uuid:70608953-656C-5244-4D48-656164657221"/>
      <Representation id="6" bandwidth="256000" width="320" height="240">
        <BaseURL>8563456473.mp4</BaseURL>
      </Representation>
      <Representation id="7" bandwidth="512000" width="320" height="240">
        <BaseURL>56363634.mp4</BaseURL>
      </Representation>
      <Representation id="8" bandwidth="1024000" width="640" height="480">
        <BaseURL>562465736.mp4</BaseURL>
      </Representation>
      <Representation id="9" bandwidth="1384000" width="640" height="480">
        <BaseURL>41325645.mp4</BaseURL>
      </Representation>
      <Representation id="A" bandwidth="1536000" width="1280" height="720">
        <BaseURL>89045625.mp4</BaseURL>
      </Representation>
      <Representation id="B" bandwidth="2048000" width="1280" height="720">
        <BaseURL>23536745734.mp4</BaseURL>
      </Representation>
    </AdaptationSet>
  </Period>
</MPD>

```

FIG. 97

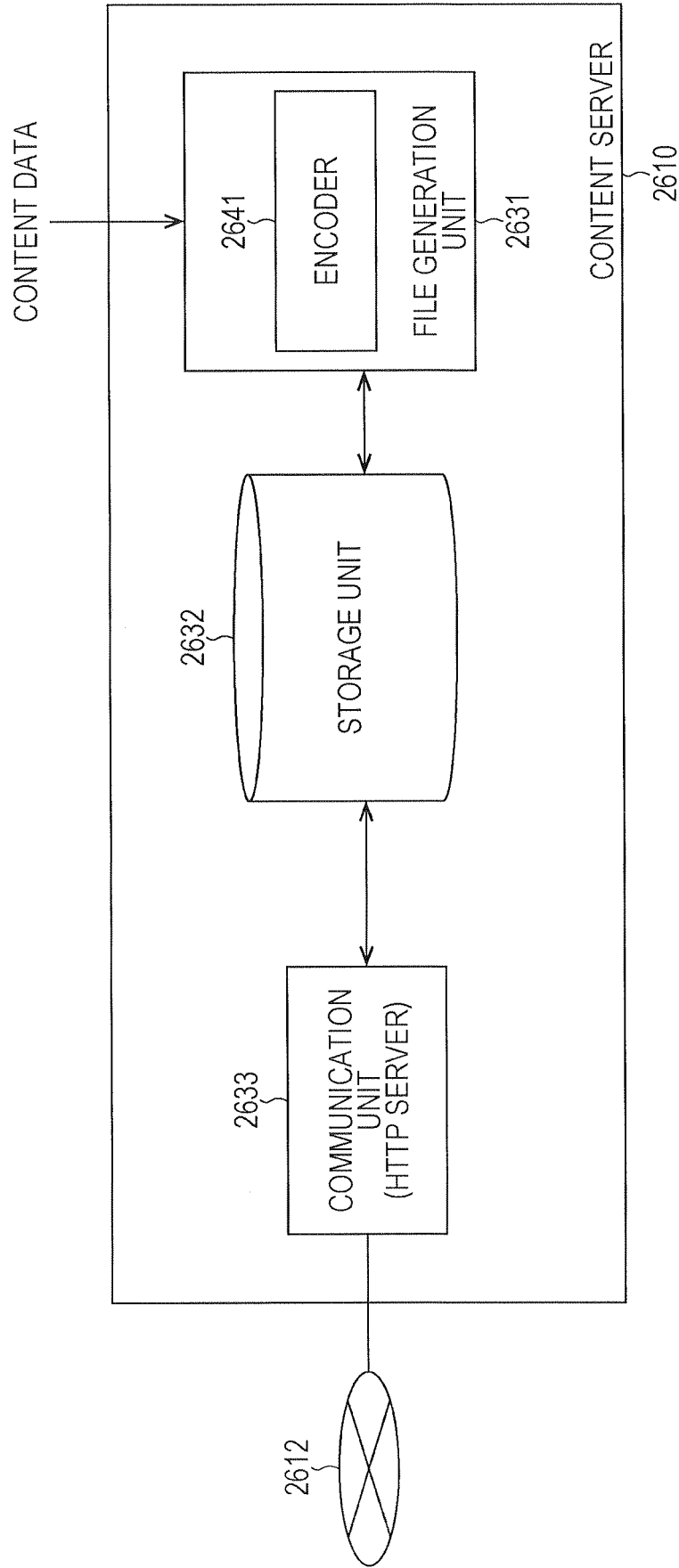


FIG. 98

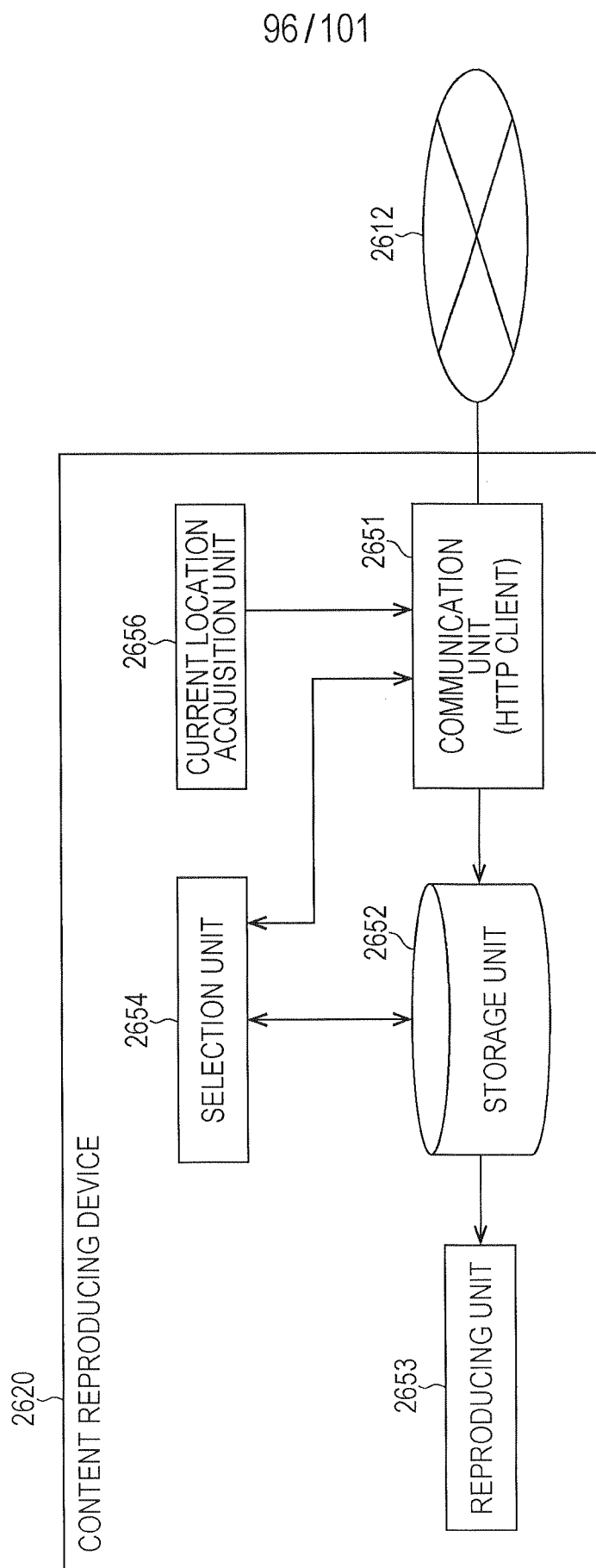
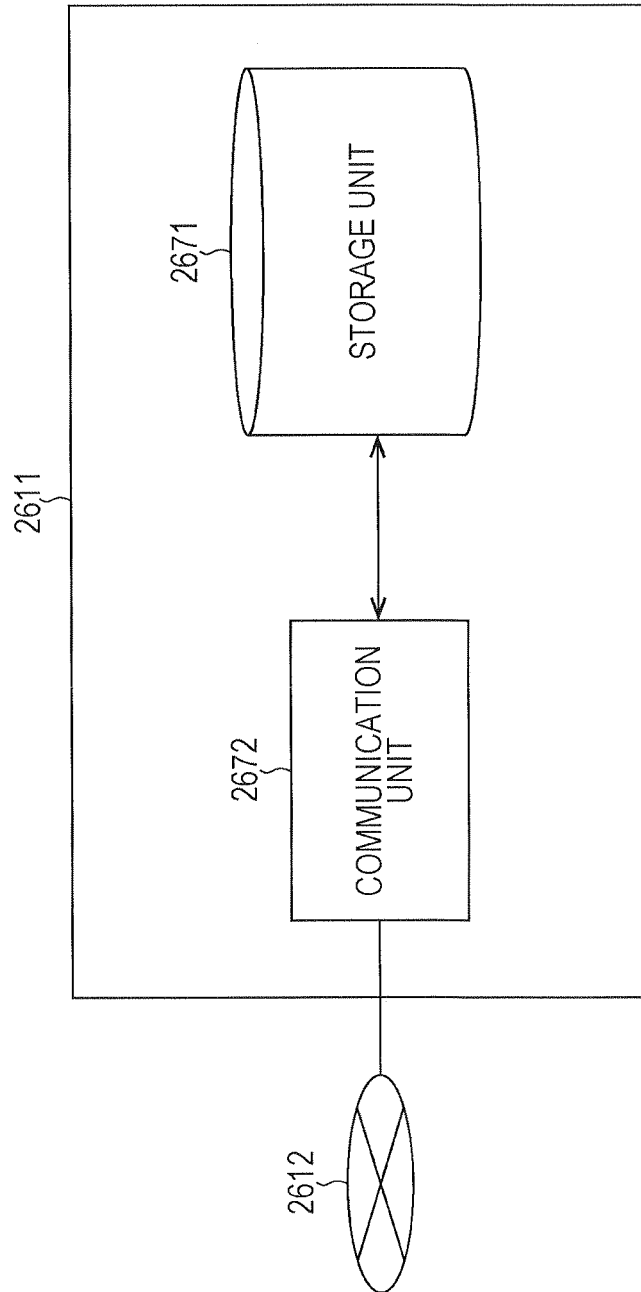


FIG. 99



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FIG. 100

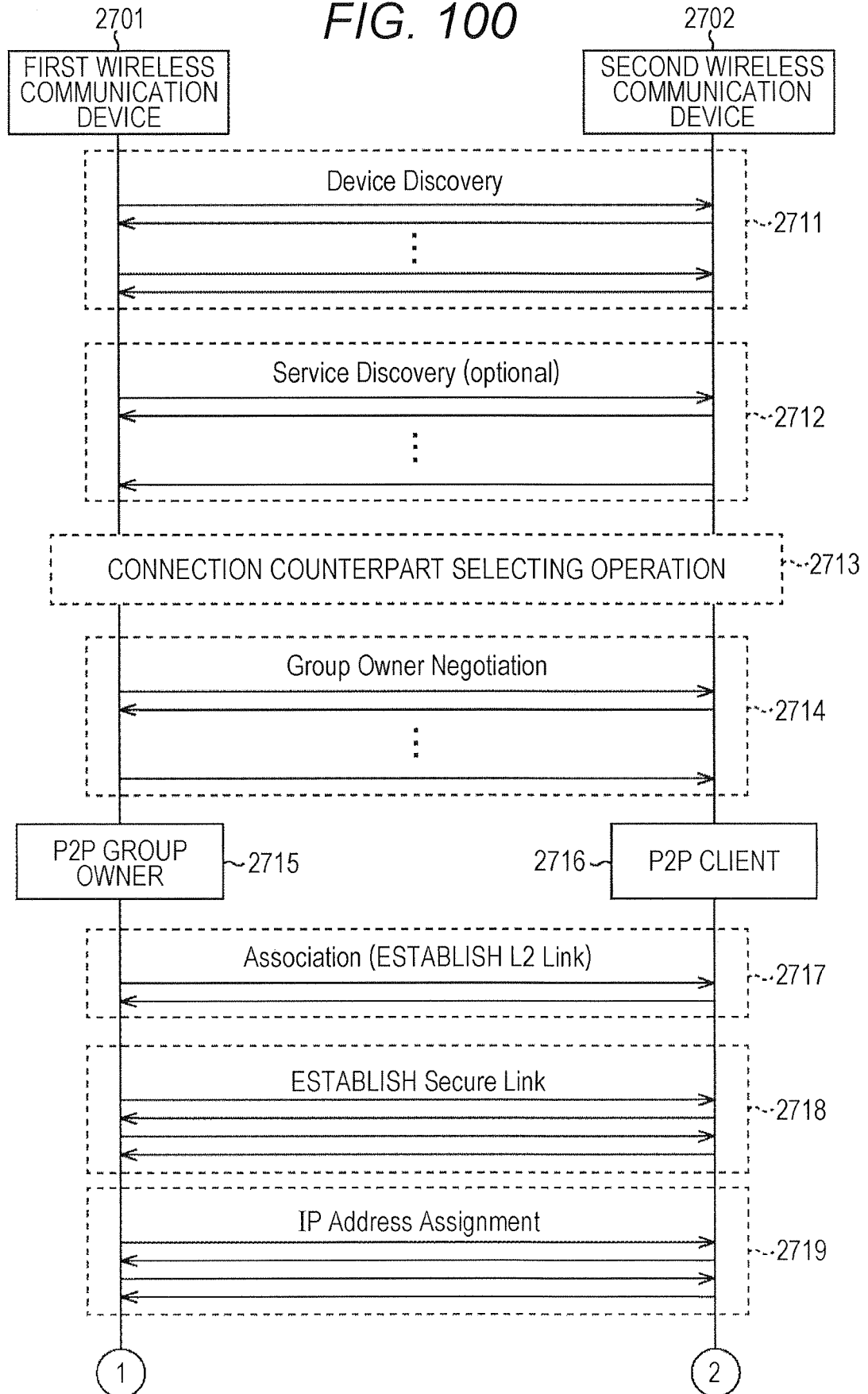


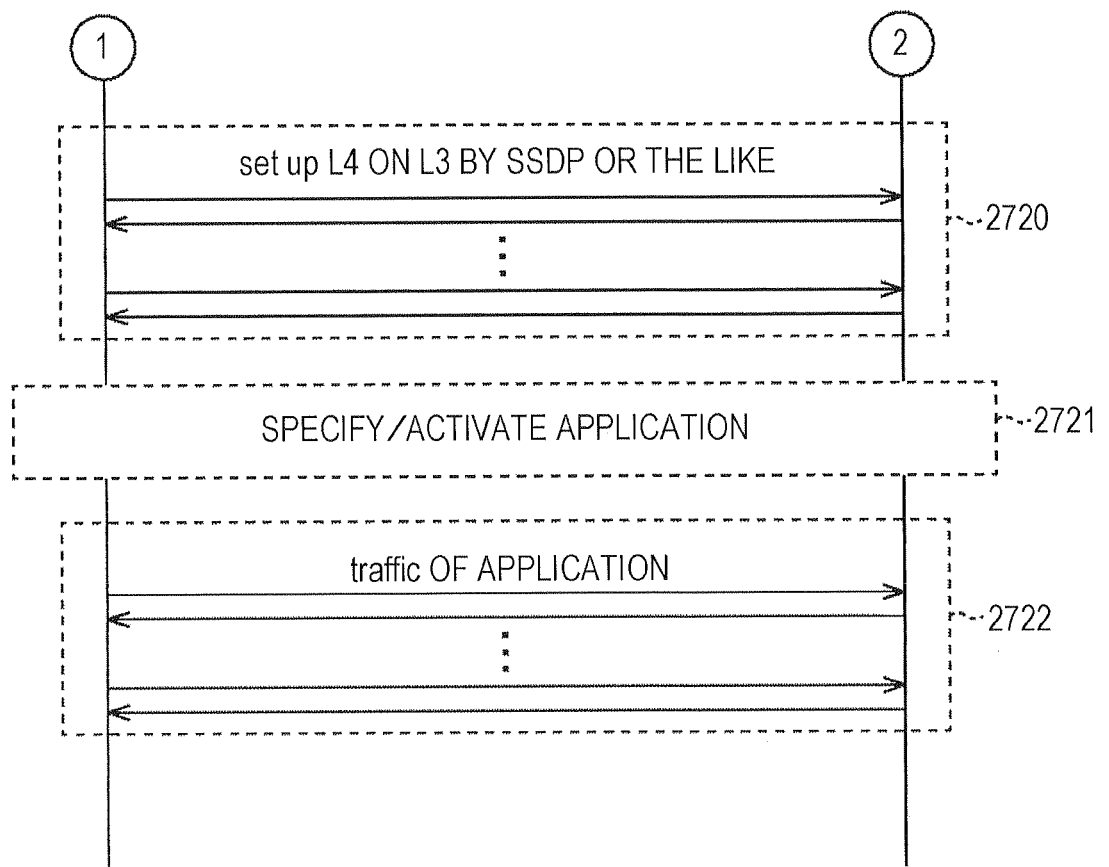
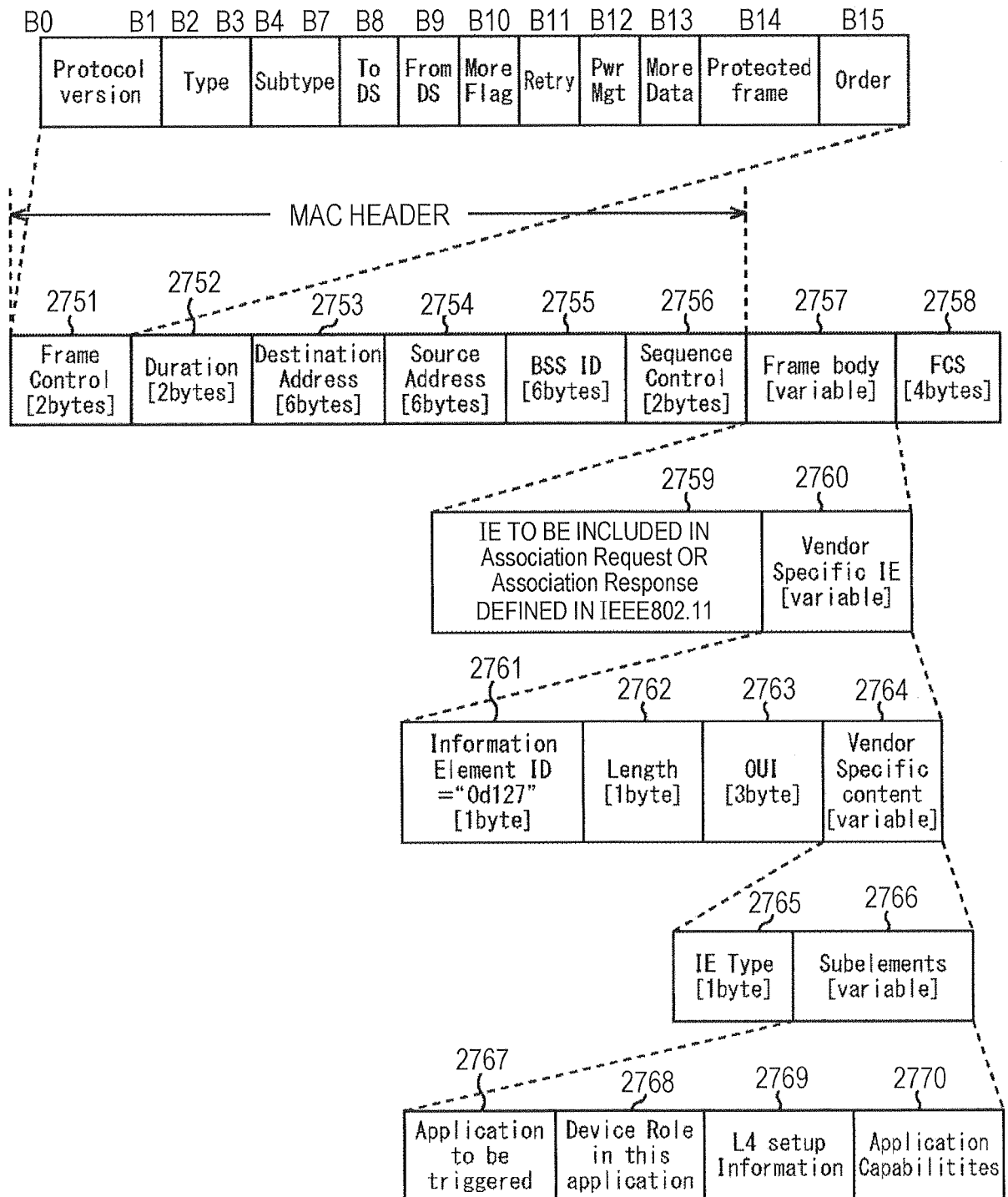
FIG. 101

FIG. 102



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FIG. 103

