

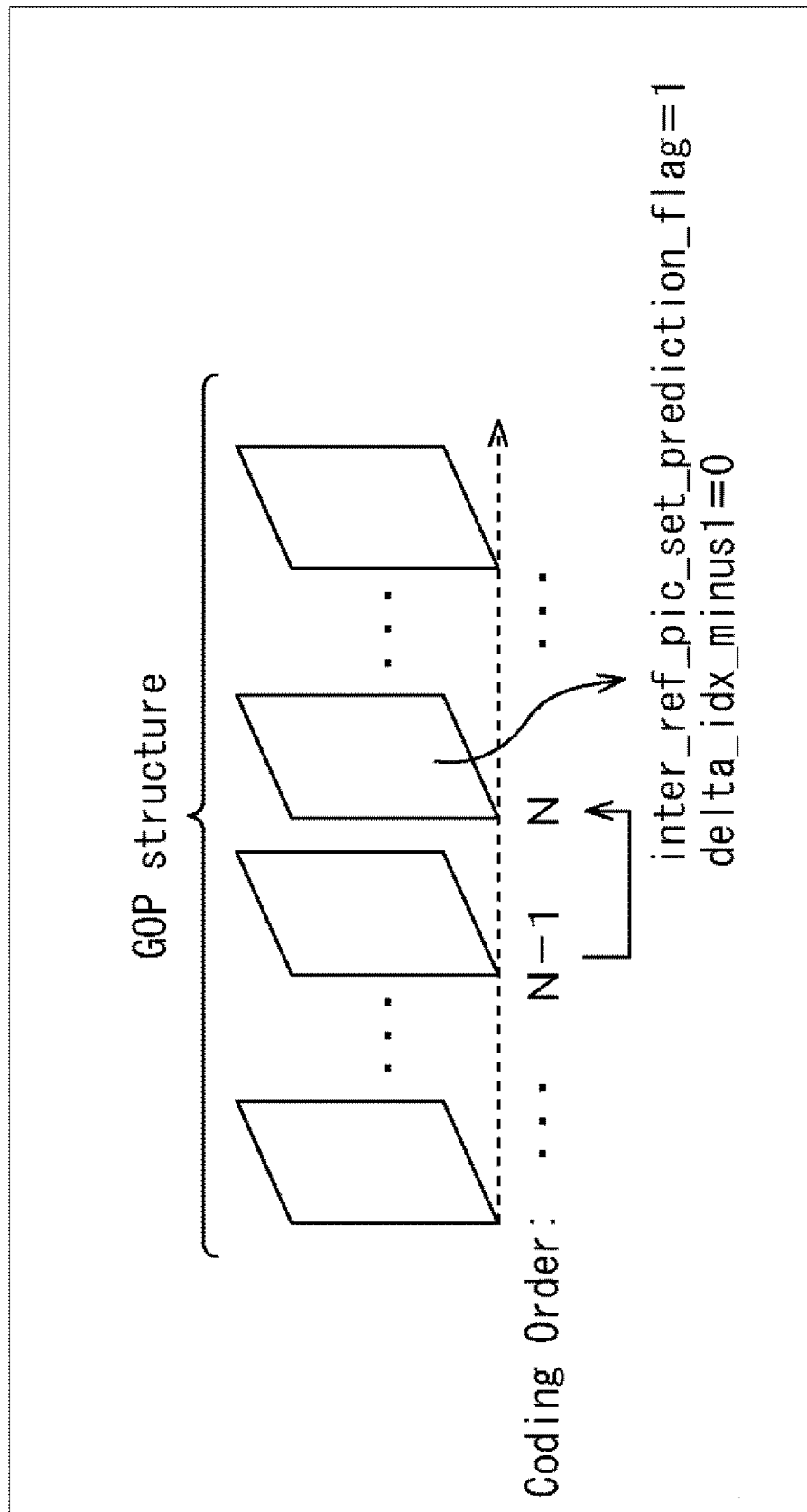
[図1]

図1

|    |                                            |            |
|----|--------------------------------------------|------------|
| 1  | short_term_ref_pic_set(idx) {              | Descriptor |
| 2  | inter_ref_pic_set_prediction_flag          | u(1)       |
| 3  | if(inter_ref_pic_set_prediction_flag) {    |            |
| 4  | delta_idx_minus1                           | ue(v)      |
| 5  | delta_rps_sign                             | u(1)       |
| 6  | abs_delta_rps_minus1                       | ue(v)      |
| 7  | for(j = 0; j <= NumDeltaPocs[RIdx]; j++) { |            |
| 8  | used_by_curr_pic_flag[j]                   | u(1)       |
| 9  | if(!used_by_curr_pic_flag[j])              |            |
| 10 | use_delta_flag[j]                          | u(1)       |
| 11 | }                                          |            |
| 12 | }                                          |            |
| 13 | else{                                      |            |
| 14 | num_negative_pics                          | ue(v)      |
| 15 | num_positive_pics                          | ue(v)      |
| 16 | for(i = 0; i < num_negative_pics; i++) {   |            |
| 17 | delta_poc_s0_minus1[i]                     | ue(v)      |
| 18 | used_by_curr_pic_s0_flag[i]                | u(1)       |
| 19 | }                                          |            |
| 20 | for(i = 0; i < num_positive_pics; i++) {   |            |
| 21 | delta_poc_s1_minus1[i]                     | ue(v)      |
| 22 | used_by_curr_pic_s1_flag[i]                | u(1)       |
| 23 | }                                          |            |
| 24 | }                                          |            |
| 25 | }                                          |            |

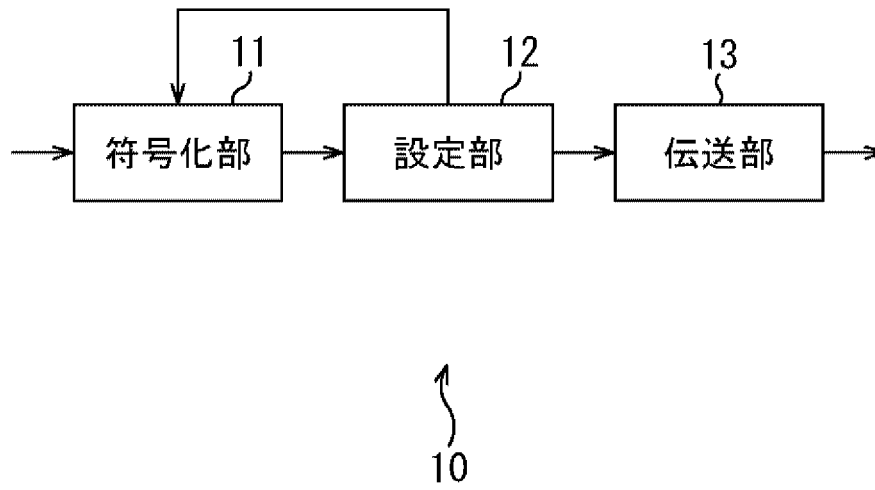
[図2]

図2



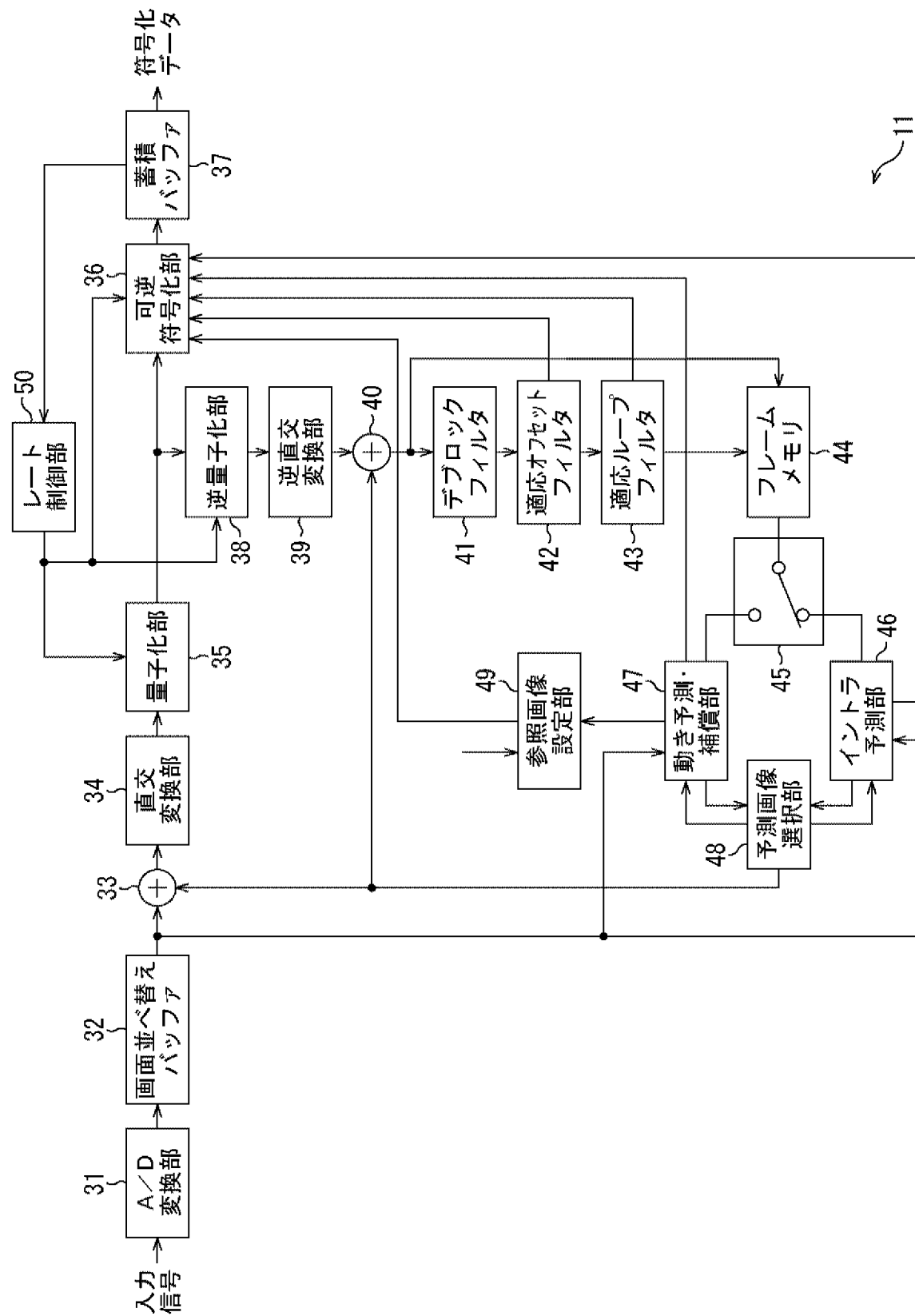
[図3]

図3



[図4]

図4



[図5]

図5

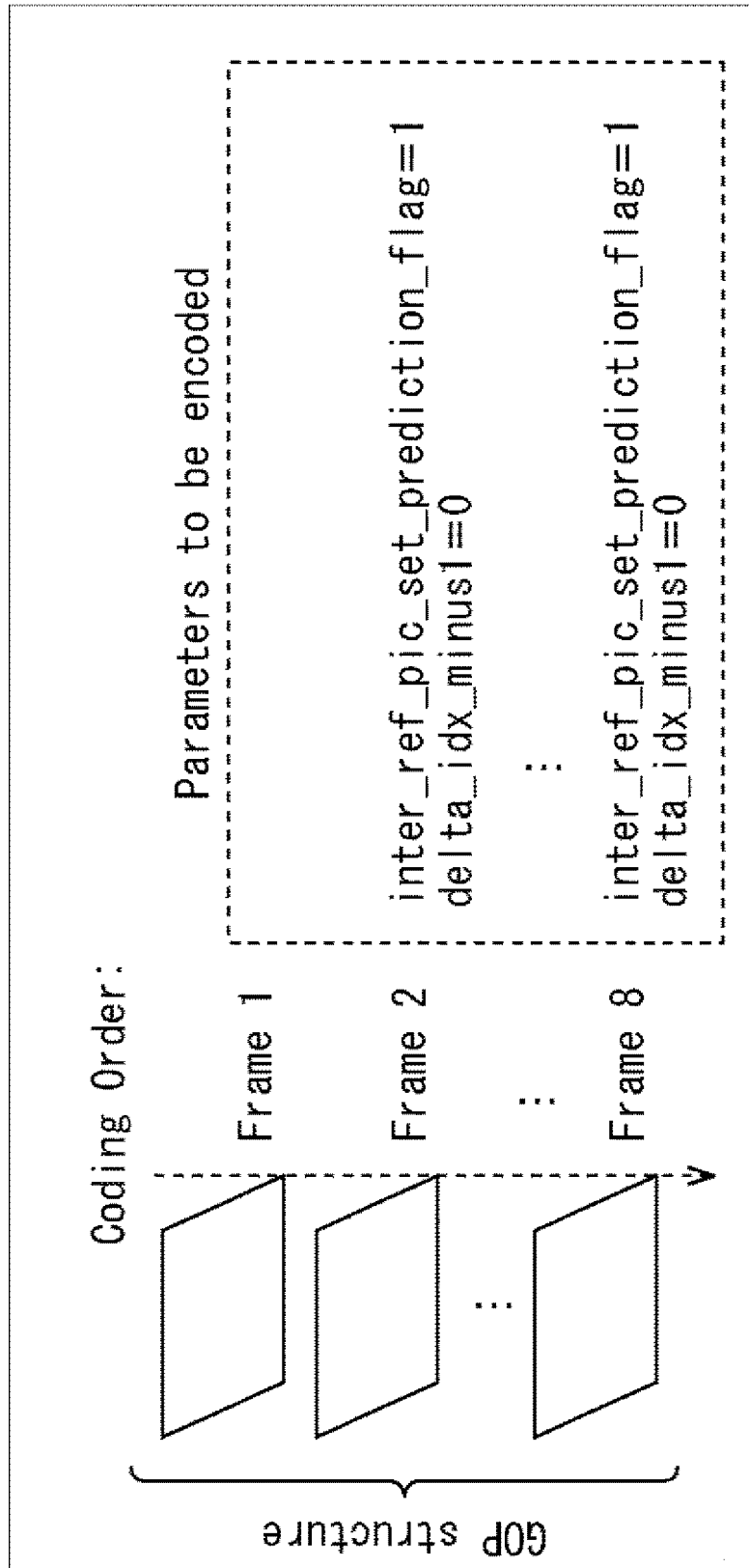
| 1  | seq_parameter_set_rbsp( ) {                                        | Descriptor |
|----|--------------------------------------------------------------------|------------|
| 2  | ...                                                                |            |
| 3  | seq_loop_filter_across_slices_enabled_flag                         | u(1)       |
| 4  | asymmetric_motion_partitions_enabled_flag                          | u(1)       |
| 5  | nsqrt_enabled_flag                                                 | u(1)       |
| 6  | sample_adaptive_offset_enabled_flag                                | u(1)       |
| 7  | adaptive_loop_filter_enabled_flag                                  | u(1)       |
| 8  | if(adaptive_loop_filter_enabled_flag)                              |            |
| 9  | alf_coef_in_slice_flag                                             | u(1)       |
| 10 | if(pcm_enabled_flag)                                               |            |
| 11 | pcm_loop_filter_disable_flag                                       | u(1)       |
| 12 | sps_temporal_id_nesting_flag                                       | u(1)       |
| 13 | [Ed. (BB): xy padding syntax missing here, present in HM software] |            |
| 14 | if(log2_min_coding_block_size_minus3 == 0)                         |            |
| 15 | inter_4x4_enabled_flag                                             | u(1)       |
| 16 | num_short_term_ref_pic_sets                                        | ue(v)      |
| 17 | for( i = 0; i < num_short_term_ref_pic_sets; i++)                  |            |
| 18 | short_term_ref_pic_set(i)                                          |            |
| 19 | long_term_ref_pics_present_flag                                    | u(1)       |
| 20 | sps_temporal_mvp_enable_flag                                       | u(1)       |
| 21 | ...                                                                |            |
| 22 | }                                                                  |            |

[図6]  
図6

|    |                                         |            |
|----|-----------------------------------------|------------|
| 1  | short_term_ref_pic_set(idx) {           | Descriptor |
| 2  | if(idx == 0)                            |            |
| 3  | inter_ref_pic_set_prediction_flag = 0   |            |
| 4  | else                                    |            |
| 5  | inter_ref_pic_set_prediction_flag       | u(1)       |
| 6  | if(inter_ref_pic_set_prediction_flag) { |            |
| 7  | ...                                     |            |
| 8  | }                                       |            |
| 9  | ...                                     |            |
| 10 | }                                       |            |

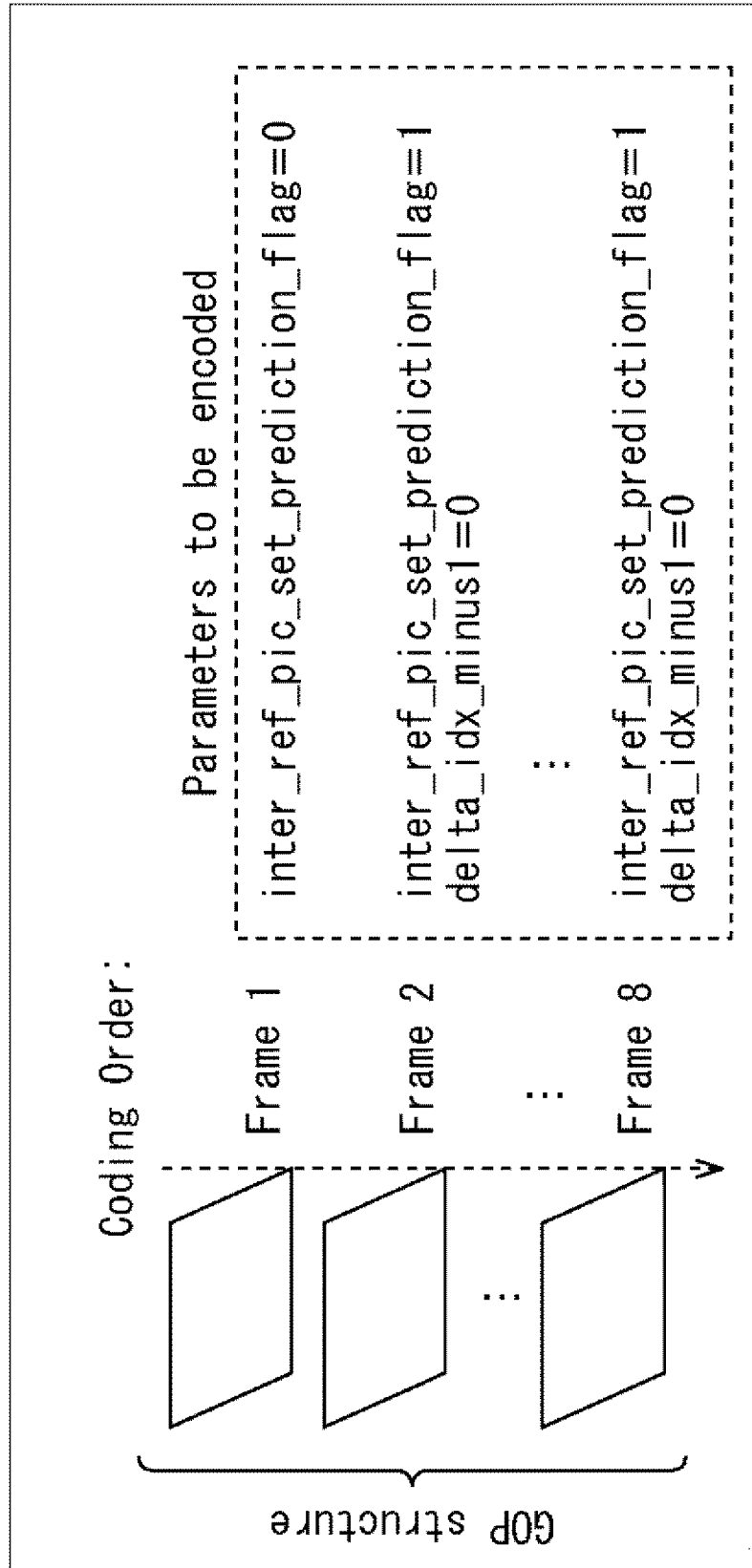
[図7]

図7



[図8]

図8



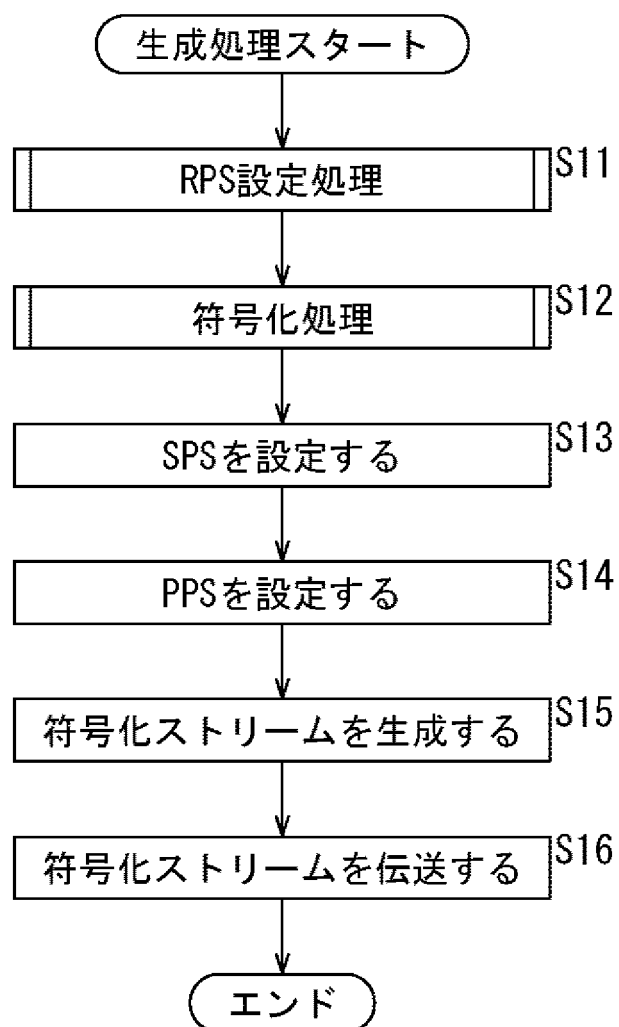
[ 9]

9

|    |                                                     |            |
|----|-----------------------------------------------------|------------|
| 1  | slice_header ( ) {                                  | Descriptor |
| 2  | ...                                                 |            |
| 3  | if (!IdrPicFlag) {                                  |            |
| 4  | pic_order_cnt_lsb                                   | u(v)       |
| 5  | short_term_ref_pic_set_sps_flag                     | u(1)       |
| 6  | if (!short_term_ref_pic_set_sps_flag)               |            |
| 7  | short_term_ref_pic_set(num_short_term_ref_pic_sets) |            |
| 8  | else                                                |            |
| 9  | short_term_ref_pic_set_idx                          | u(v)       |
| 10 | if (long_term_ref_pics_present_flag) {              |            |
| 11 | num_long_term_pics                                  | ue(v)      |
| 12 | for (i = 0; i < num_long_term_pics; i++) {          |            |
| 13 | poc_lsb_lt[i]                                       | u(v)       |
| 14 | delta_poc_msb_present_flag[i]                       | u(1)       |
| 15 | if (delta_poc_msb_present_flag[i])                  |            |
| 16 | delta_poc_msb_cycle_lt[i]                           | ue(v)      |
| 17 | used_by_curr_pic_lt_flag[i]                         | u(1)       |
| 18 | }                                                   |            |
| 19 | }                                                   |            |
| 20 | }                                                   |            |
| 21 | ...                                                 |            |
| 22 | }                                                   |            |

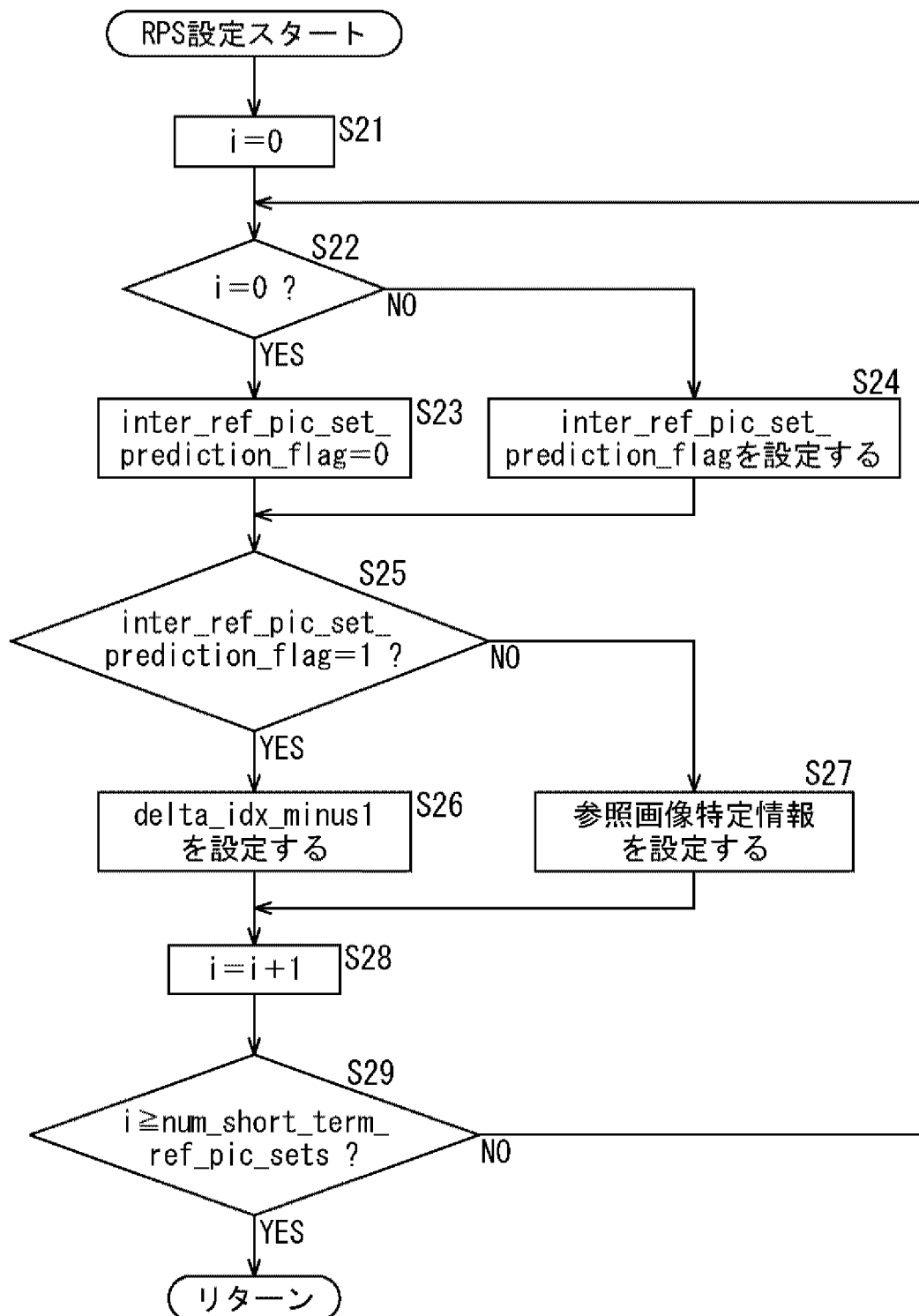
[図10]

図10



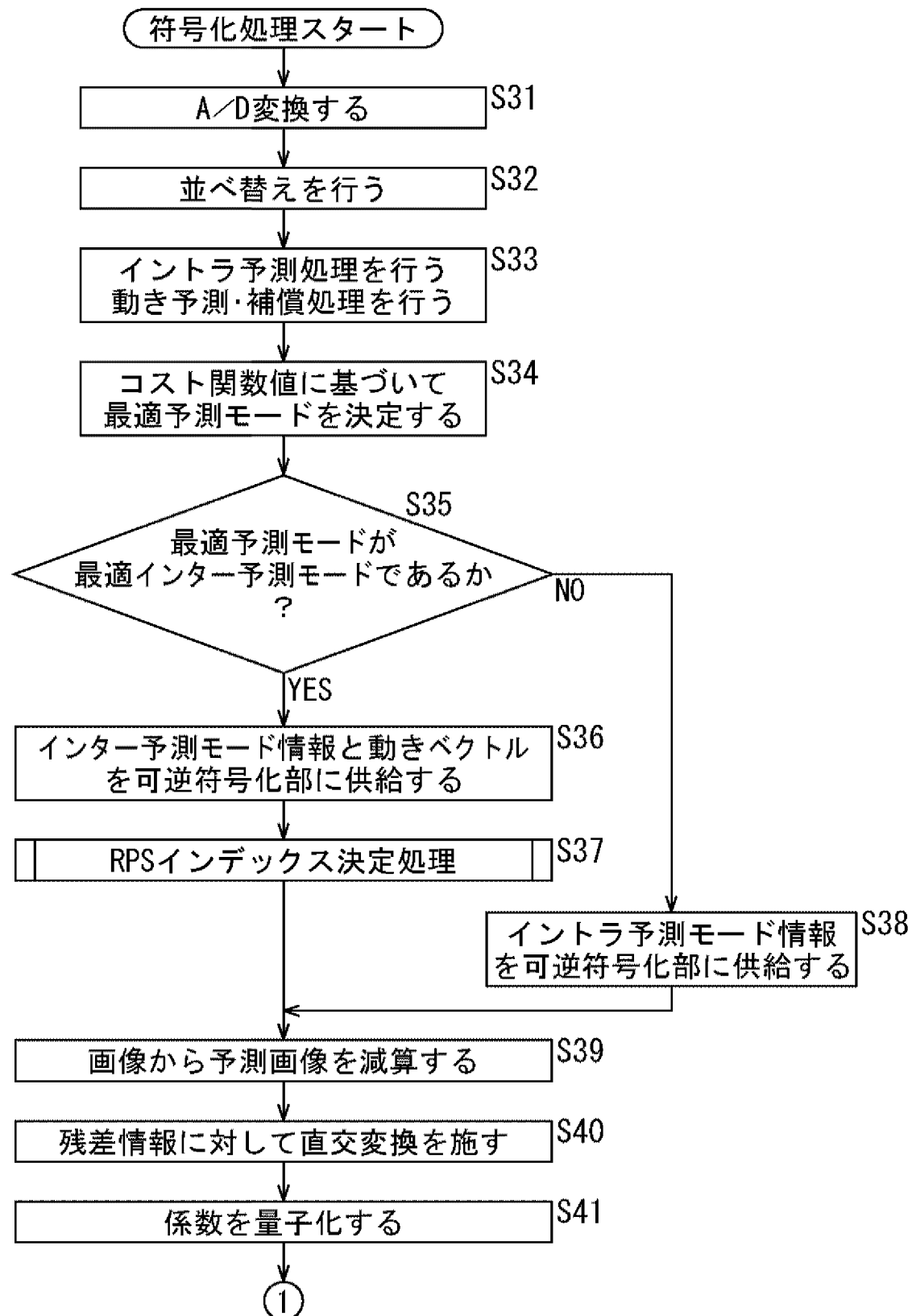
[図11]

図11



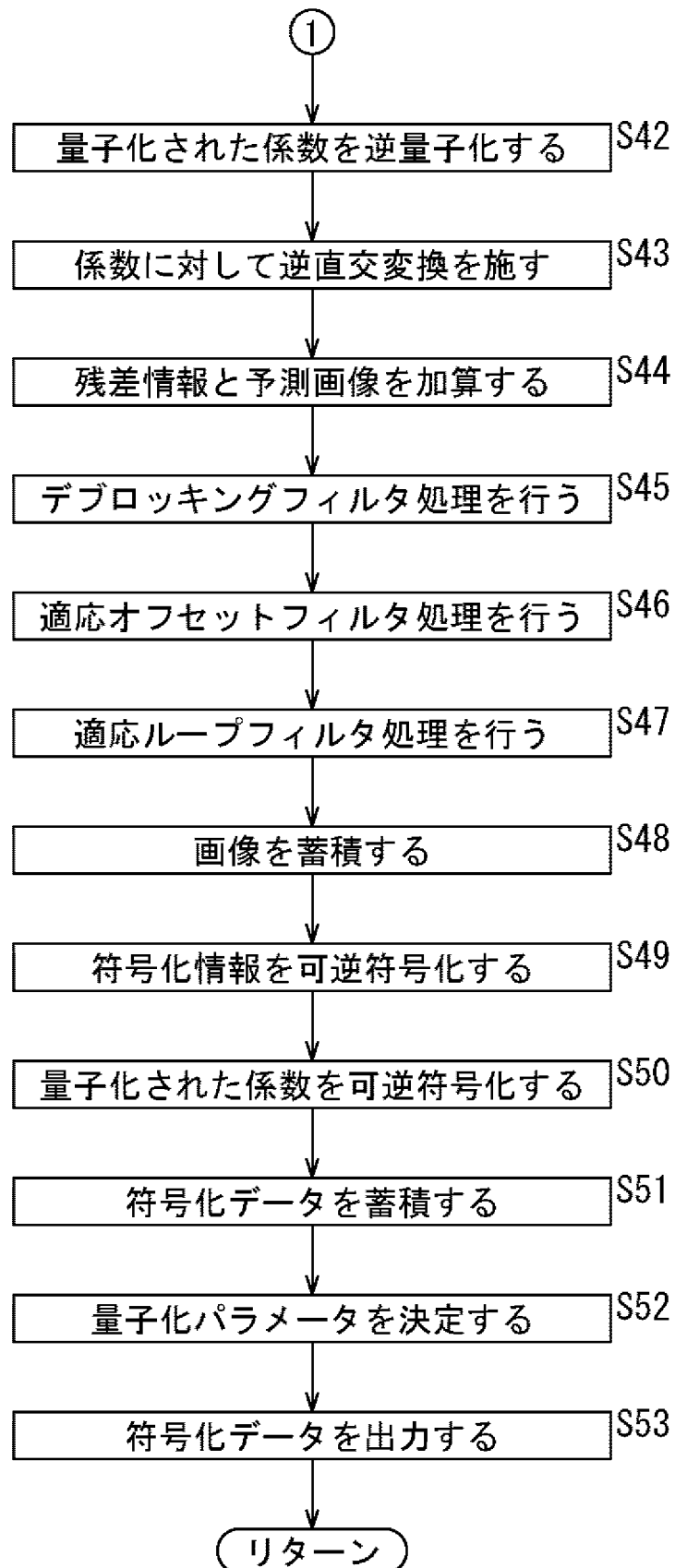
[図12]

図12



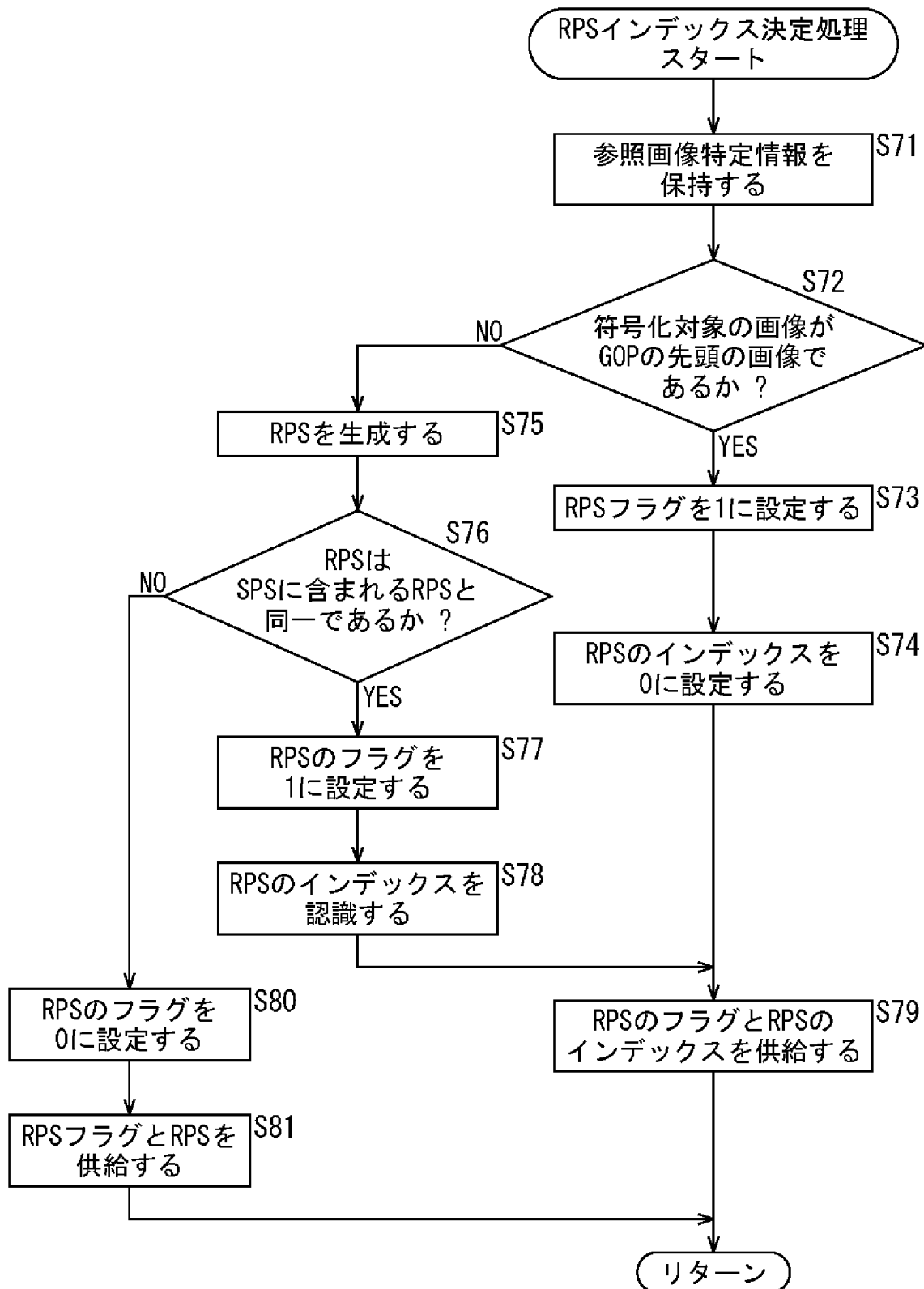
[図13]

図13



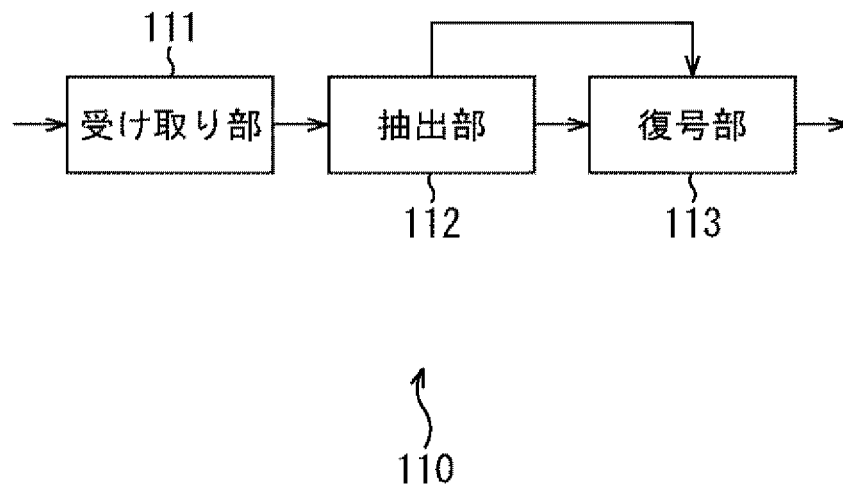
[図14]

図14

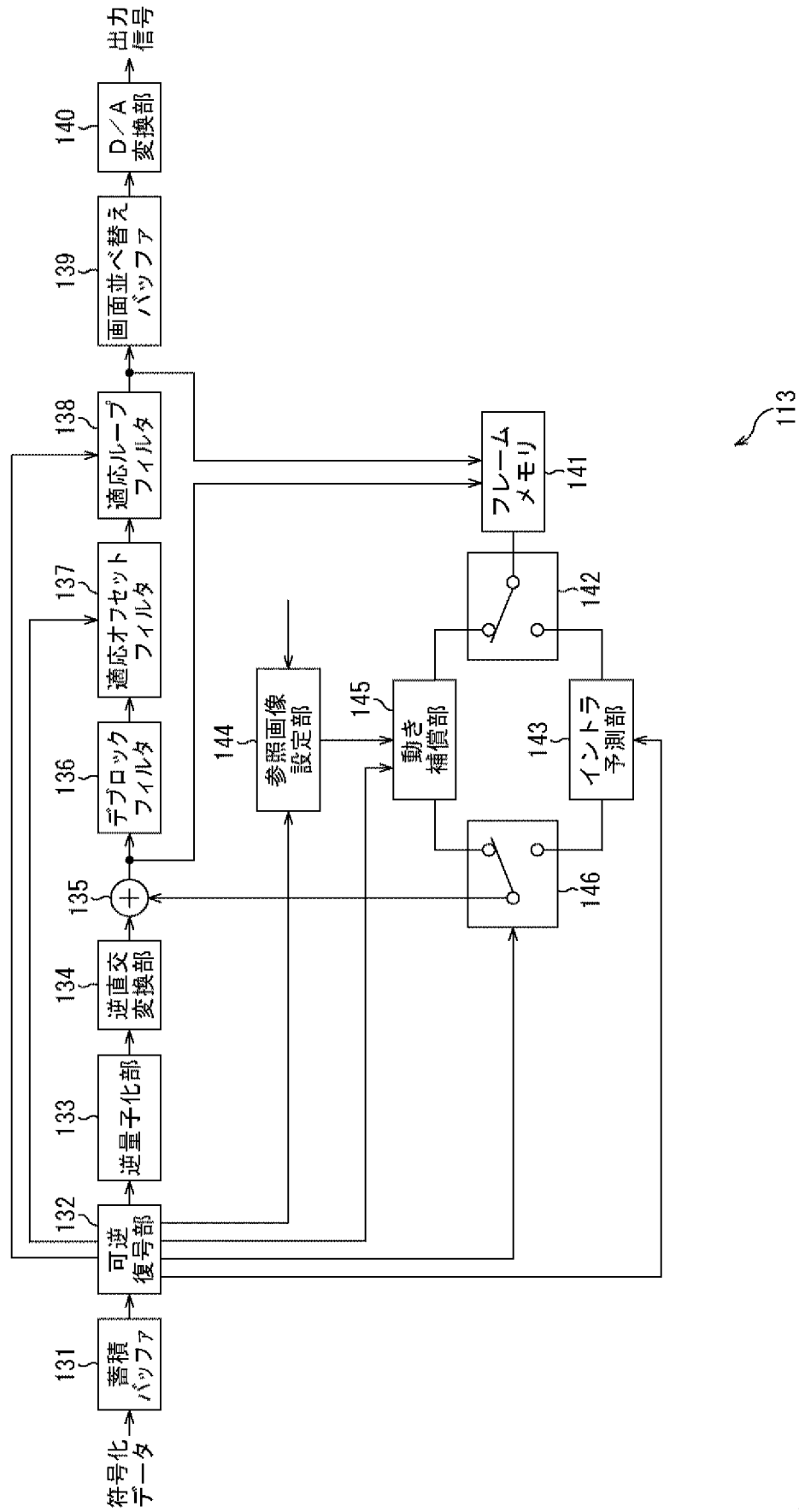


[図15]

図15

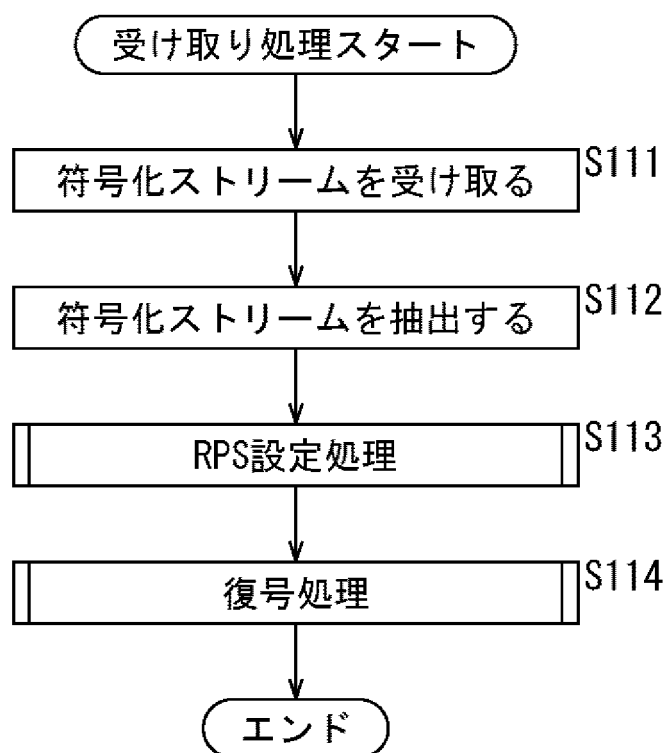


[図16]  
図16



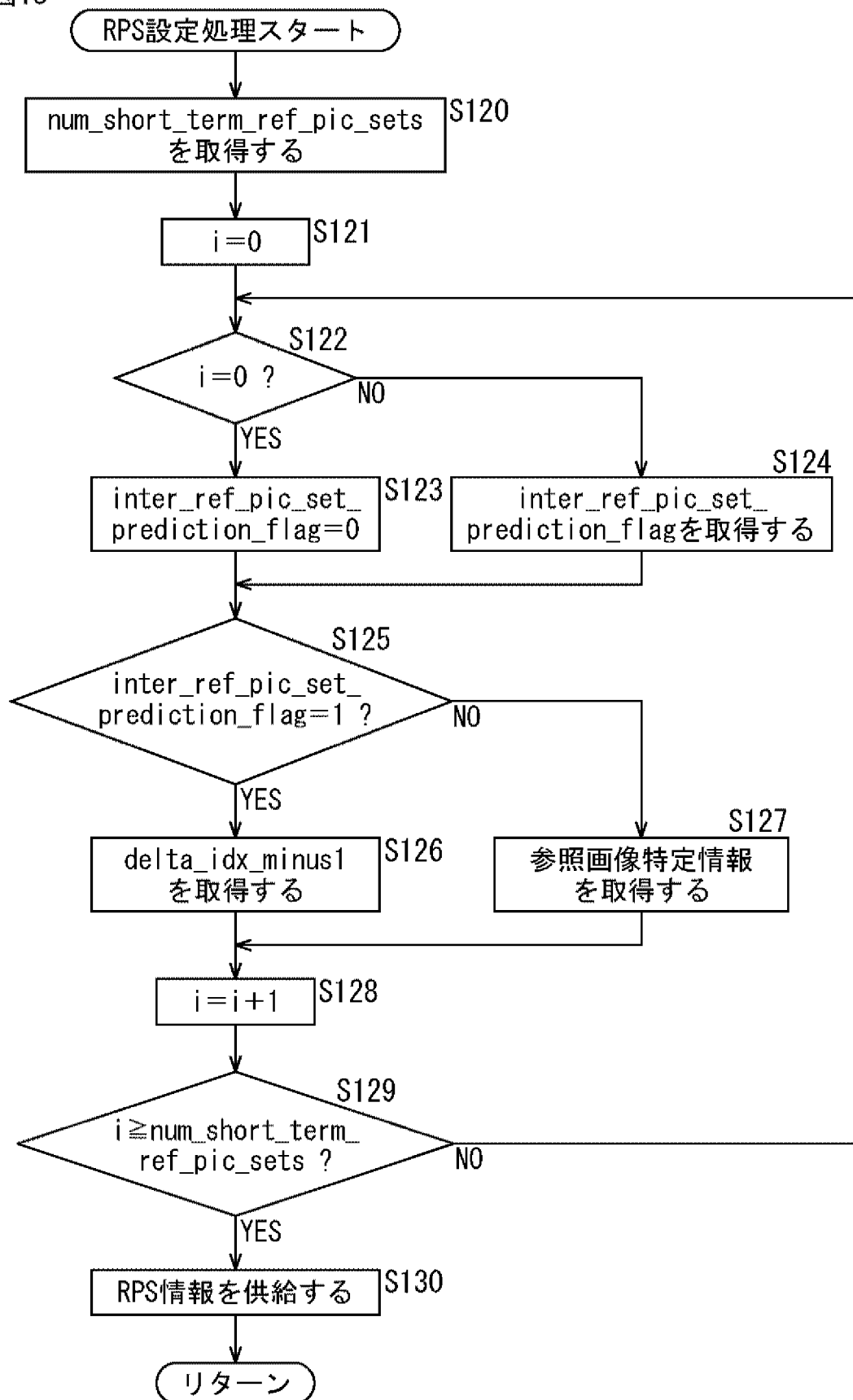
[図17]

図17



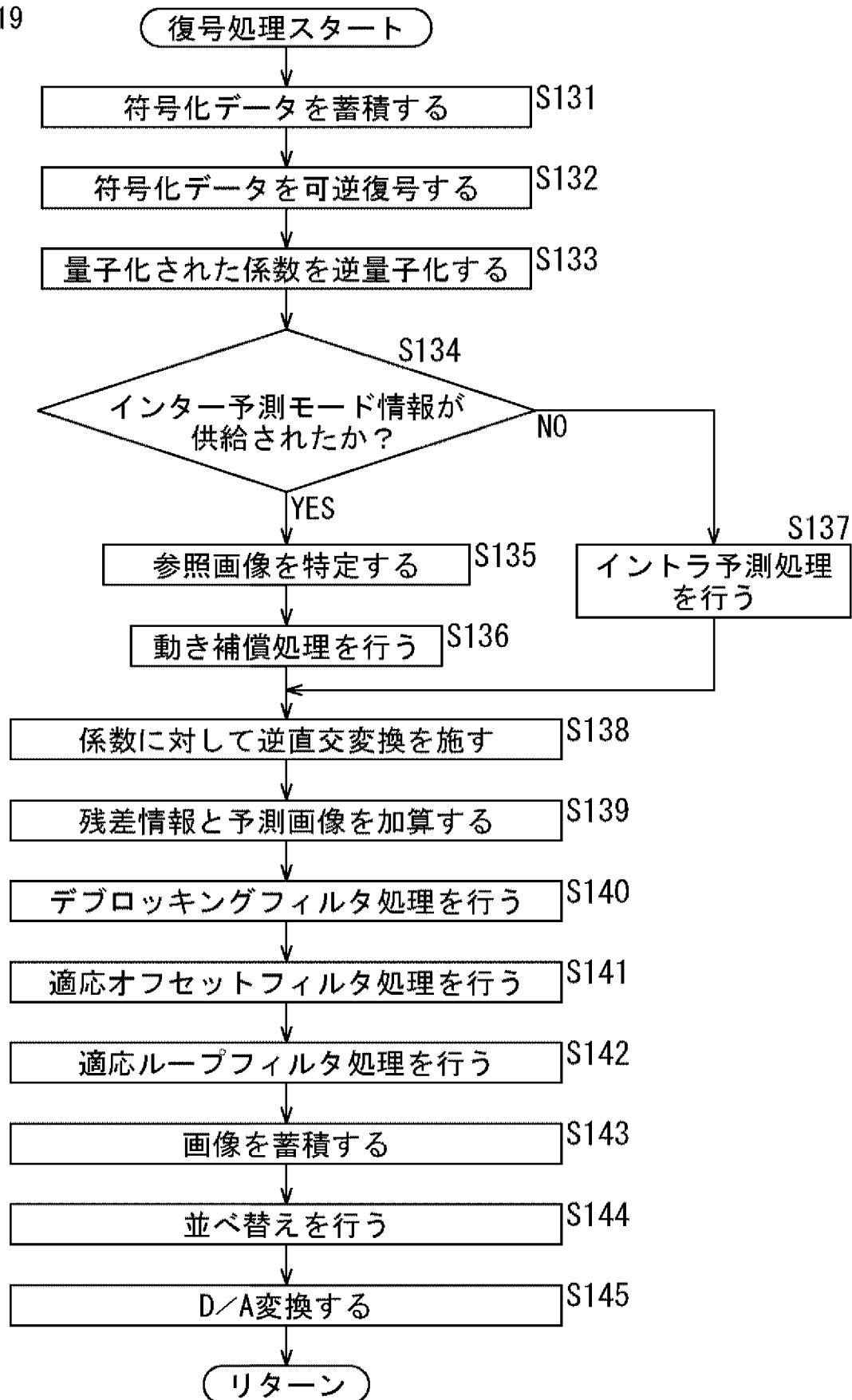
[図18]

図18



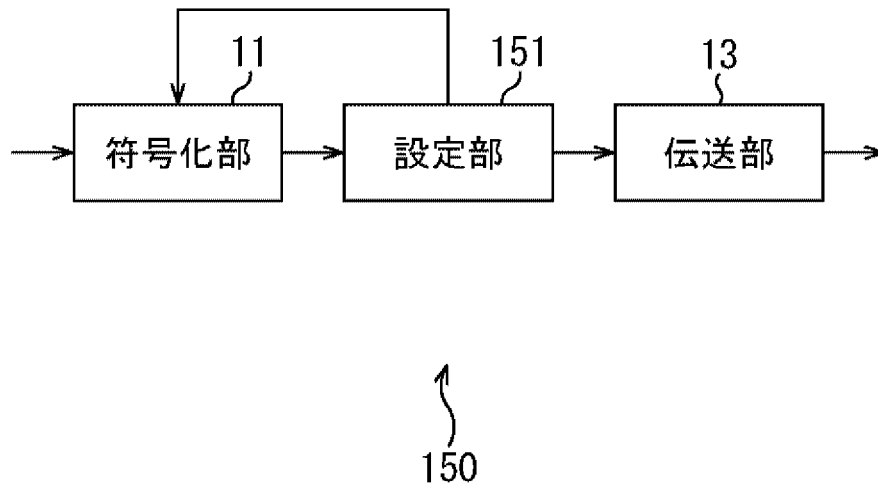
[図19]

図19



[図20]

図20



[図21]

図21

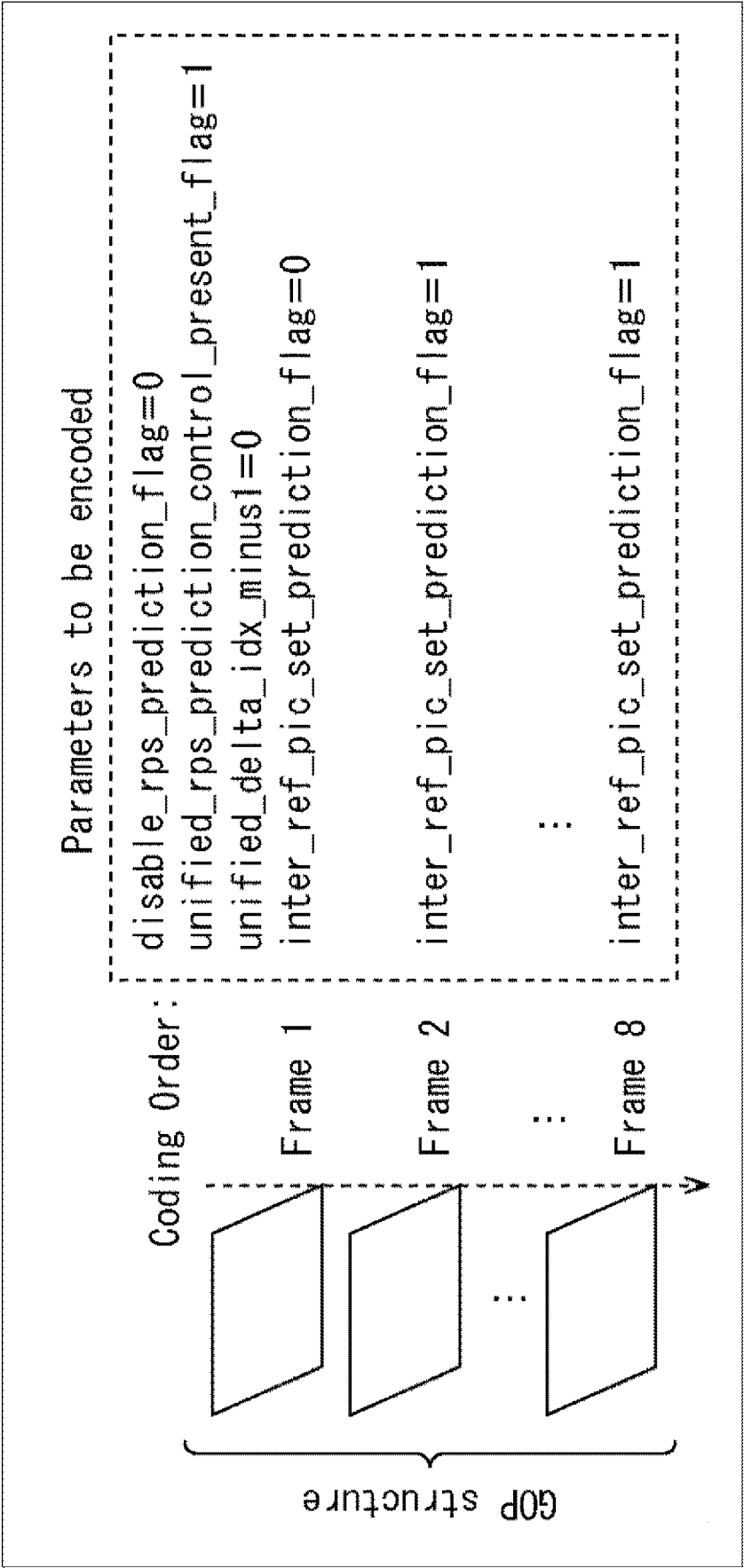
|    |                                                   |            |
|----|---------------------------------------------------|------------|
| 1  | seq_parameter_set_rbsp( ) {                       | Descriptor |
| 2  | ...                                               |            |
| 3  | num_short_term_ref_pic_sets                       | ue(v)      |
| 4  | disable_rps_prediction_flag                       | u(1)       |
| 5  | if(! disable_rps_present_flag) {                  |            |
| 6  | unified_rps_prediction_control_present_flag       | u(1)       |
| 7  | if(unified_rps_prediction_control_present_flag)   |            |
| 8  | unified_delta_idx_minus1                          | ue(v)      |
| 9  | }                                                 |            |
| 10 | for( i = 0; i < num_short_term_ref_pic_sets; i++) |            |
| 11 | short_term_ref_pic_set(i)                         |            |
| 12 | ...                                               |            |
| 13 | }                                                 |            |

[図22]

図22

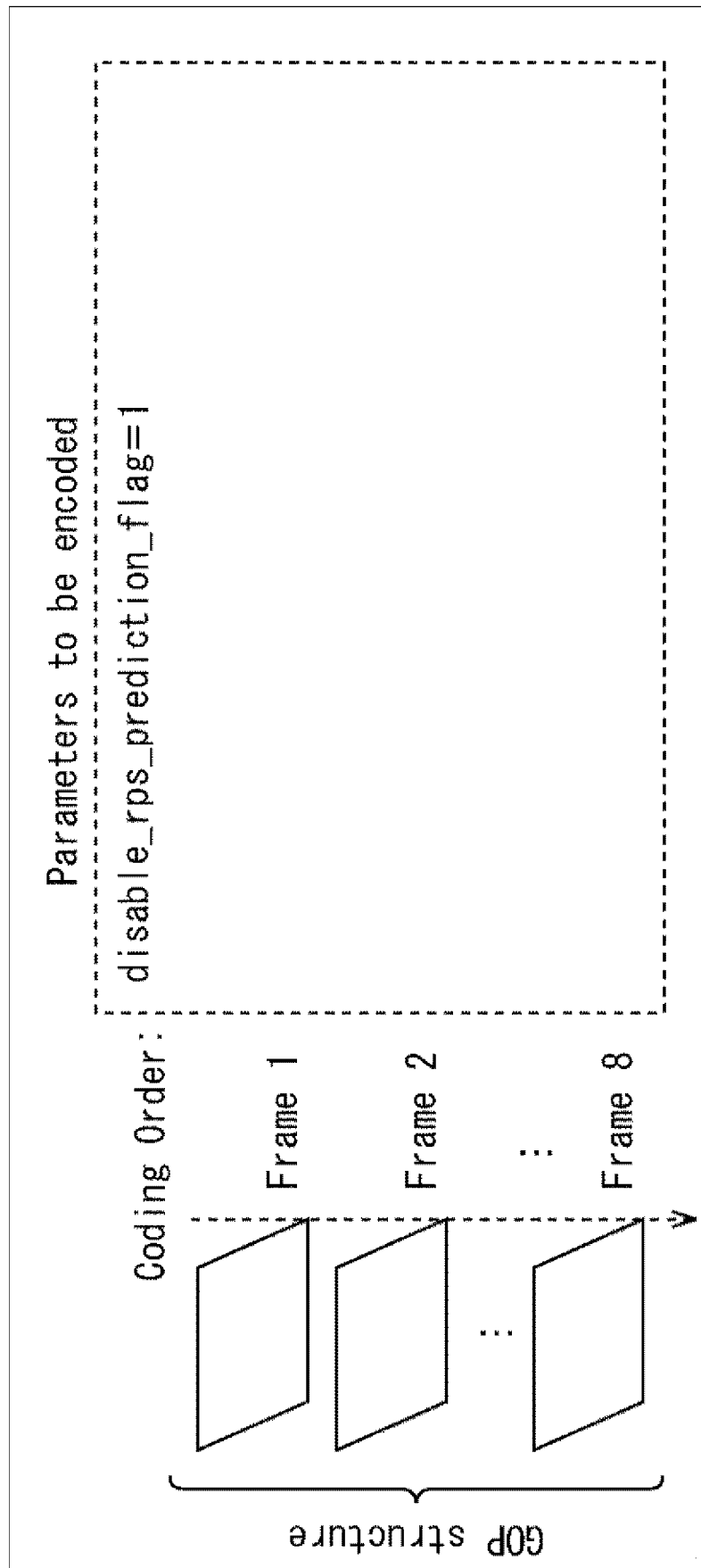
|    |                                                 | Descriptor |
|----|-------------------------------------------------|------------|
| 1  | short_term_ref_pic_set(idx) {                   |            |
| 2  | if(disable_rps_prediction_flag)                 |            |
| 3  | inter_ref_pic_set_prediction_flag = 0           |            |
| 4  | else                                            |            |
| 5  | inter_ref_pic_set_prediction_flag               | u(1)       |
| 6  | if(inter_ref_pic_set_prediction_flag) {         |            |
| 7  | if(unified_rps_prediction_control_present_flag) |            |
| 8  | delta_idx_minus1 = unified_delta_idx_minus1     |            |
| 9  | else                                            |            |
| 10 | delta_idx_minus1                                | ue(v)      |
| 11 | ...                                             |            |
| 12 | }                                               |            |
| 13 | else {                                          |            |
| 14 | ...                                             |            |
| 15 | }                                               |            |

[図23]  
図23



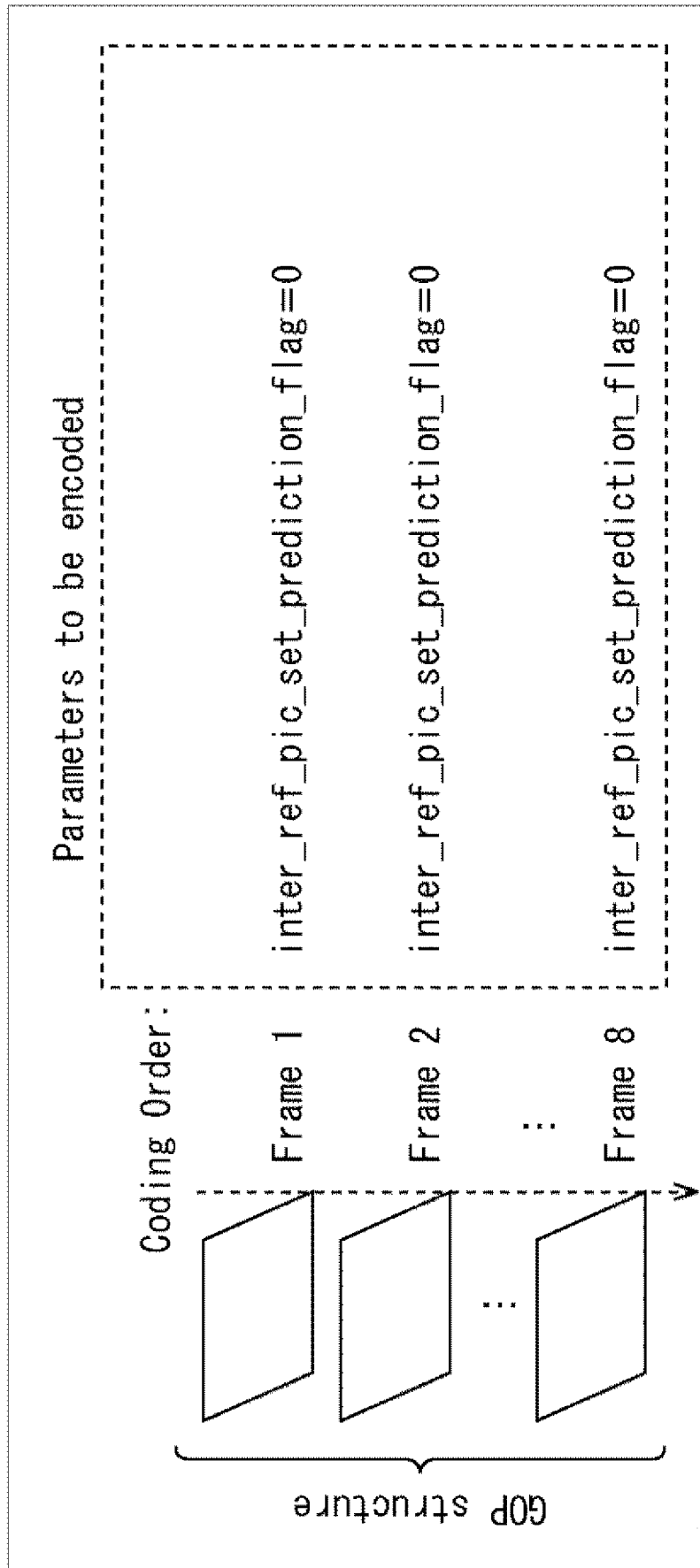
[図24]

図24



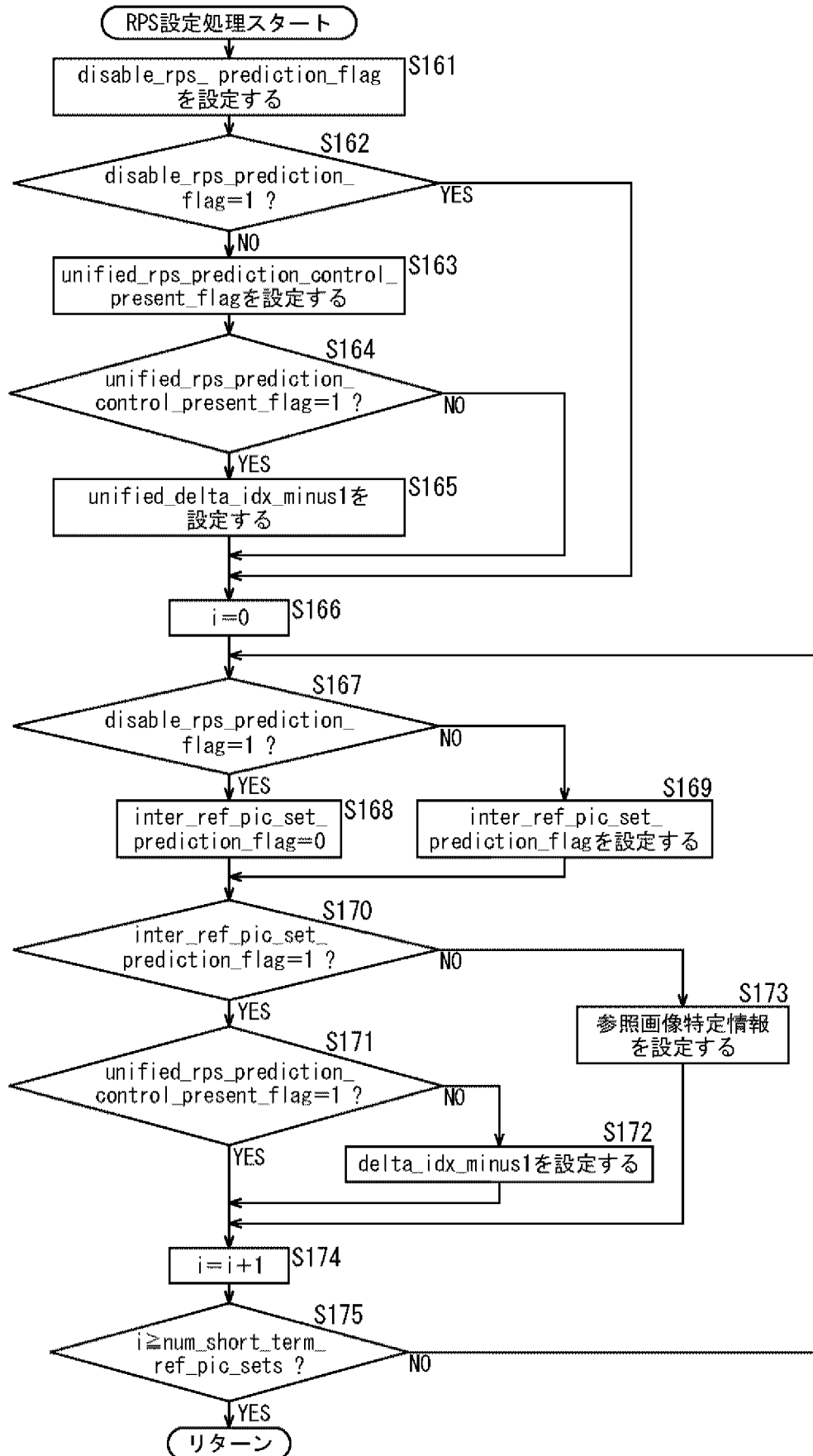
[図25]

図25



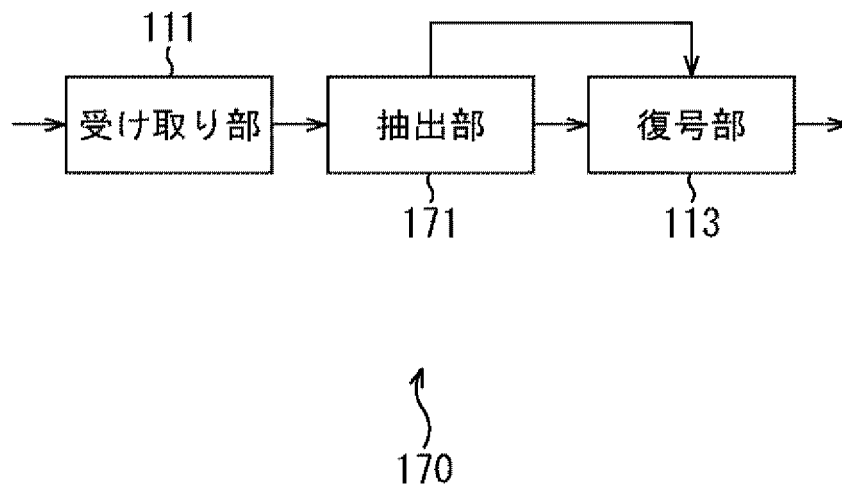
[図26]

図26



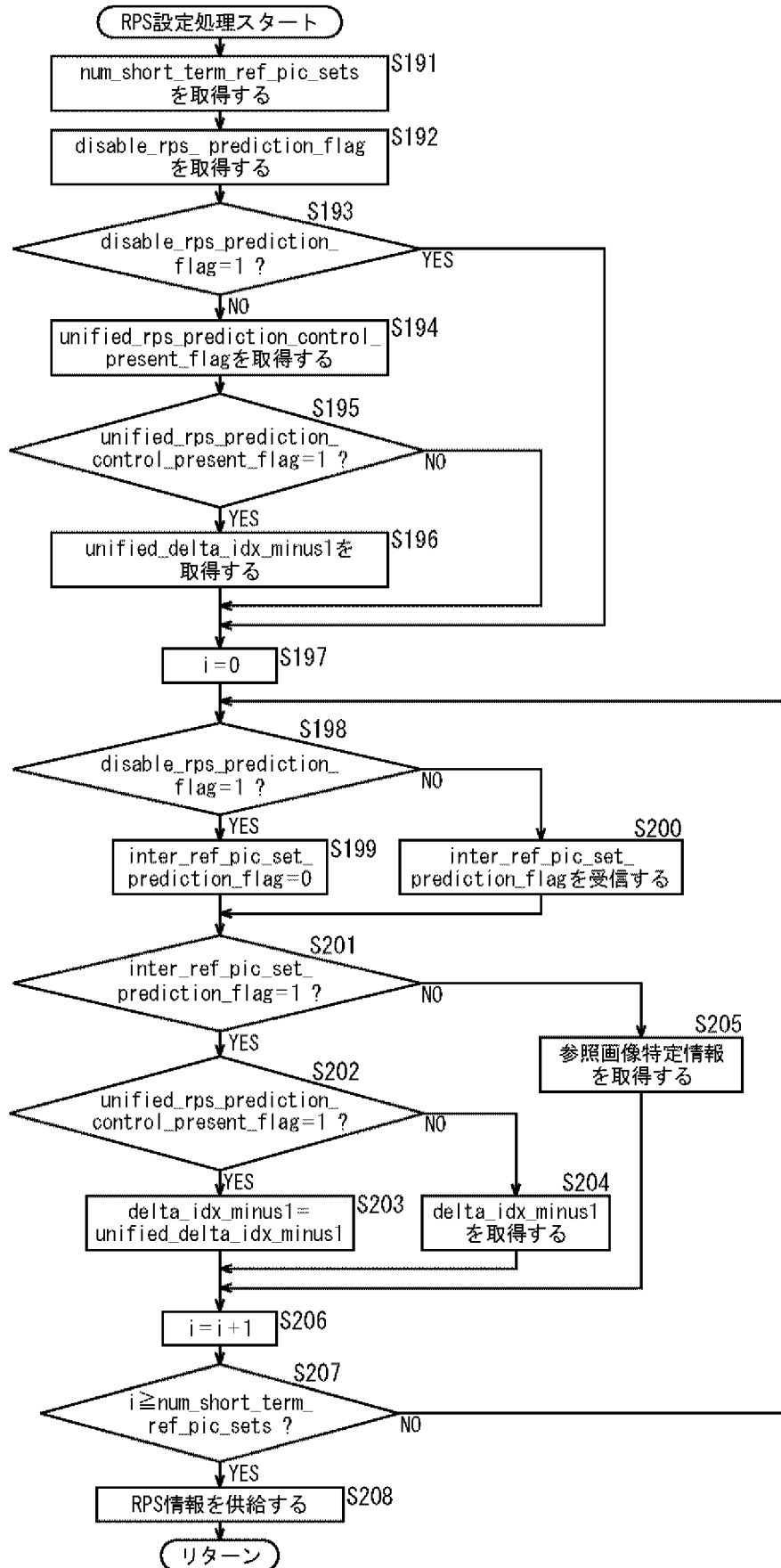
[図27]

図27



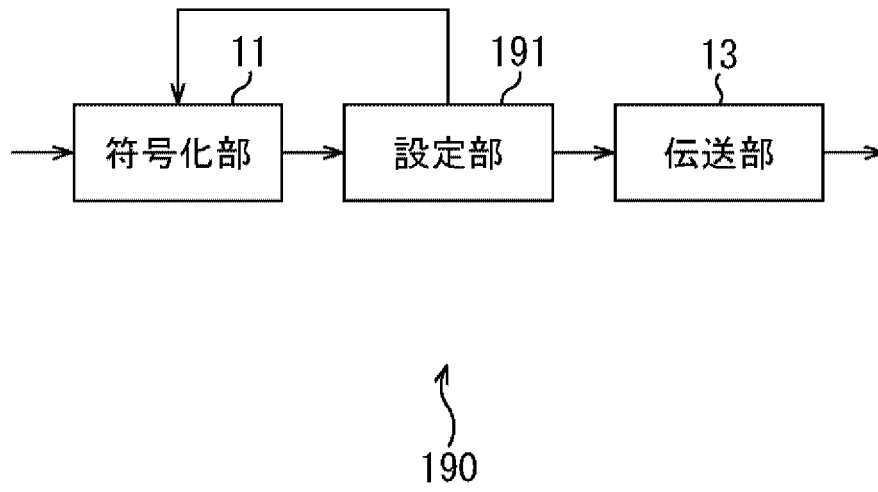
[図28]

図28



[図29]

図29



[図30]

図30

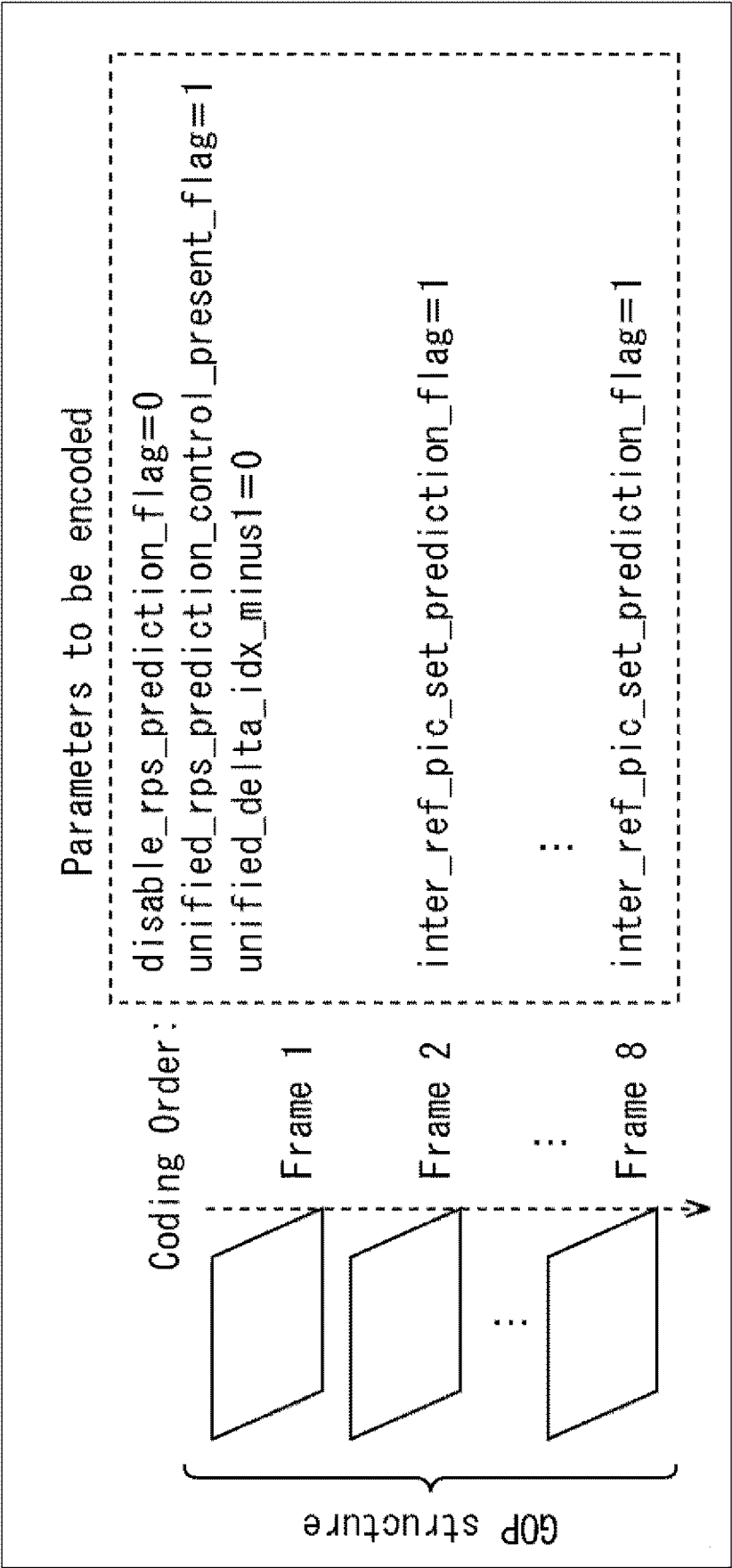
|    |                                                   |            |
|----|---------------------------------------------------|------------|
| 1  | seq_parameter_set_rbsp( ) {                       | Descriptor |
| 2  | ...                                               |            |
| 3  | num_short_term_ref_pic_sets                       | ue(v)      |
| 4  | disable_rps_prediction_flag                       | u(1)       |
| 5  | if(! disable_rps_present_flag) {                  |            |
| 6  | unified_rps_prediction_control_present_flag       | u(1)       |
| 7  | if(unified_rps_prediction_control_present_flag)   |            |
| 8  | unified_delta_idx_minus1                          | ue(v)      |
| 9  | }                                                 |            |
| 10 | for( i = 0; i < num_short_term_ref_pic_sets; i++) |            |
| 11 | short_term_ref_pic_set(i)                         |            |
| 12 | ...                                               |            |
| 13 | }                                                 |            |

[図31]  
図31

|    |                                                 |            |
|----|-------------------------------------------------|------------|
| 1  | short_term_ref_pic_set(idx) {                   | Descriptor |
| 2  | if ( idx == 0    disable_rps_prediction_flag)   |            |
| 3  | inter_ref_pic_set_prediction_flag = 0           |            |
| 4  | else                                            |            |
| 5  | inter_ref_pic_set_prediction_flag               | u(1)       |
| 6  | if(inter_ref_pic_set_prediction_flag) {         |            |
| 7  | if(unified_rps_prediction_control_present_flag) |            |
| 8  | delta_idx_minus1 = unified_delta_idx_minus1     |            |
| 9  | else                                            |            |
| 10 | delta_idx_minus1                                | ue(v)      |
| 11 | ...                                             |            |
| 12 | }                                               |            |
| 13 | else {...}                                      |            |
| 14 | }                                               |            |

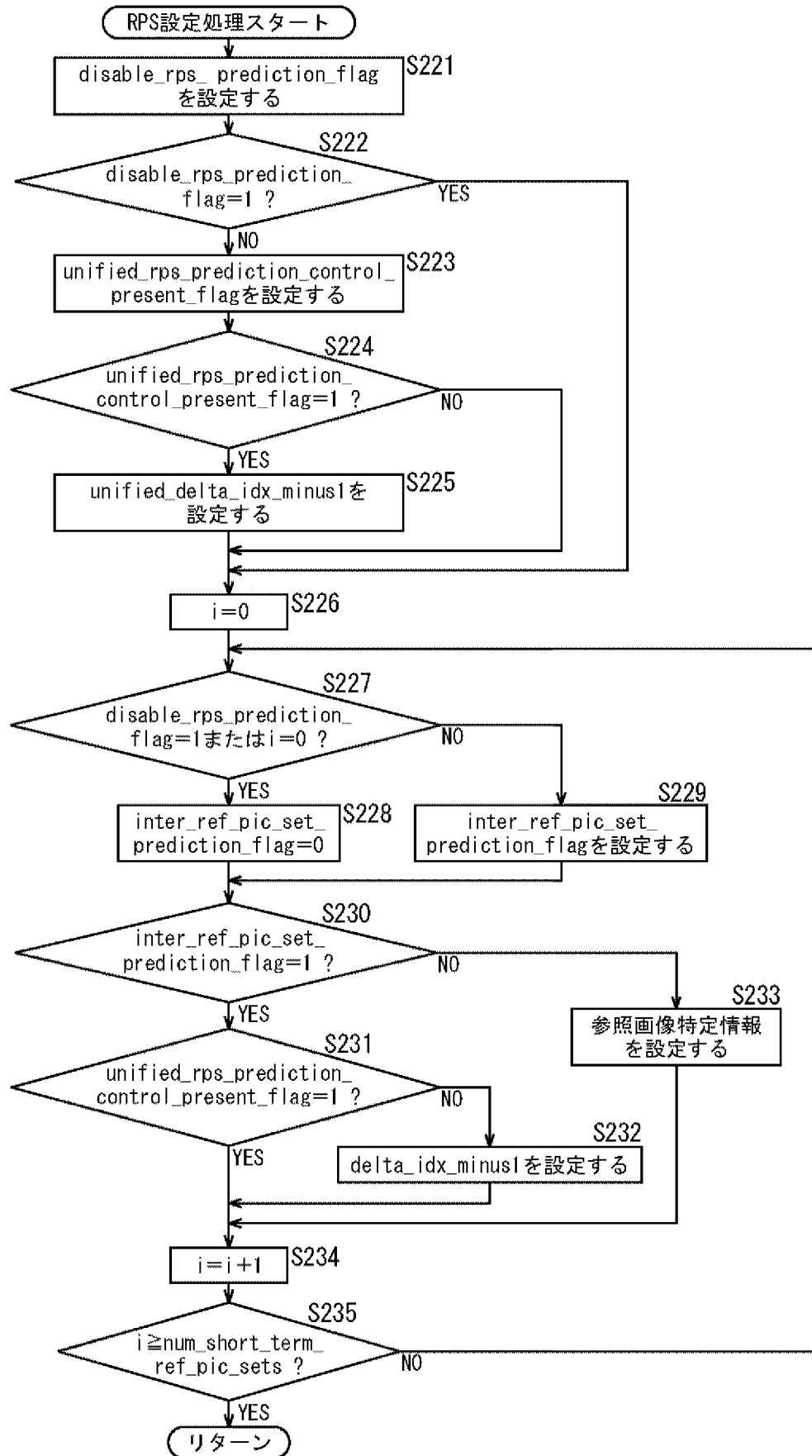
[図32]

32



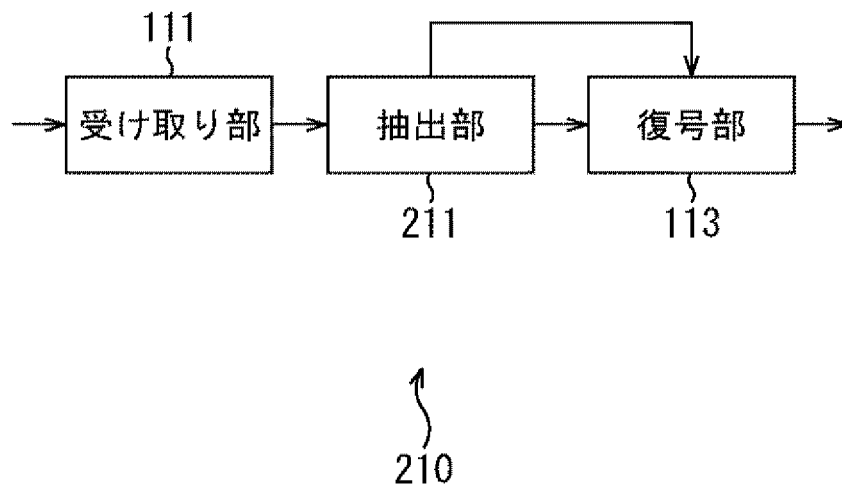
[図33]

図33



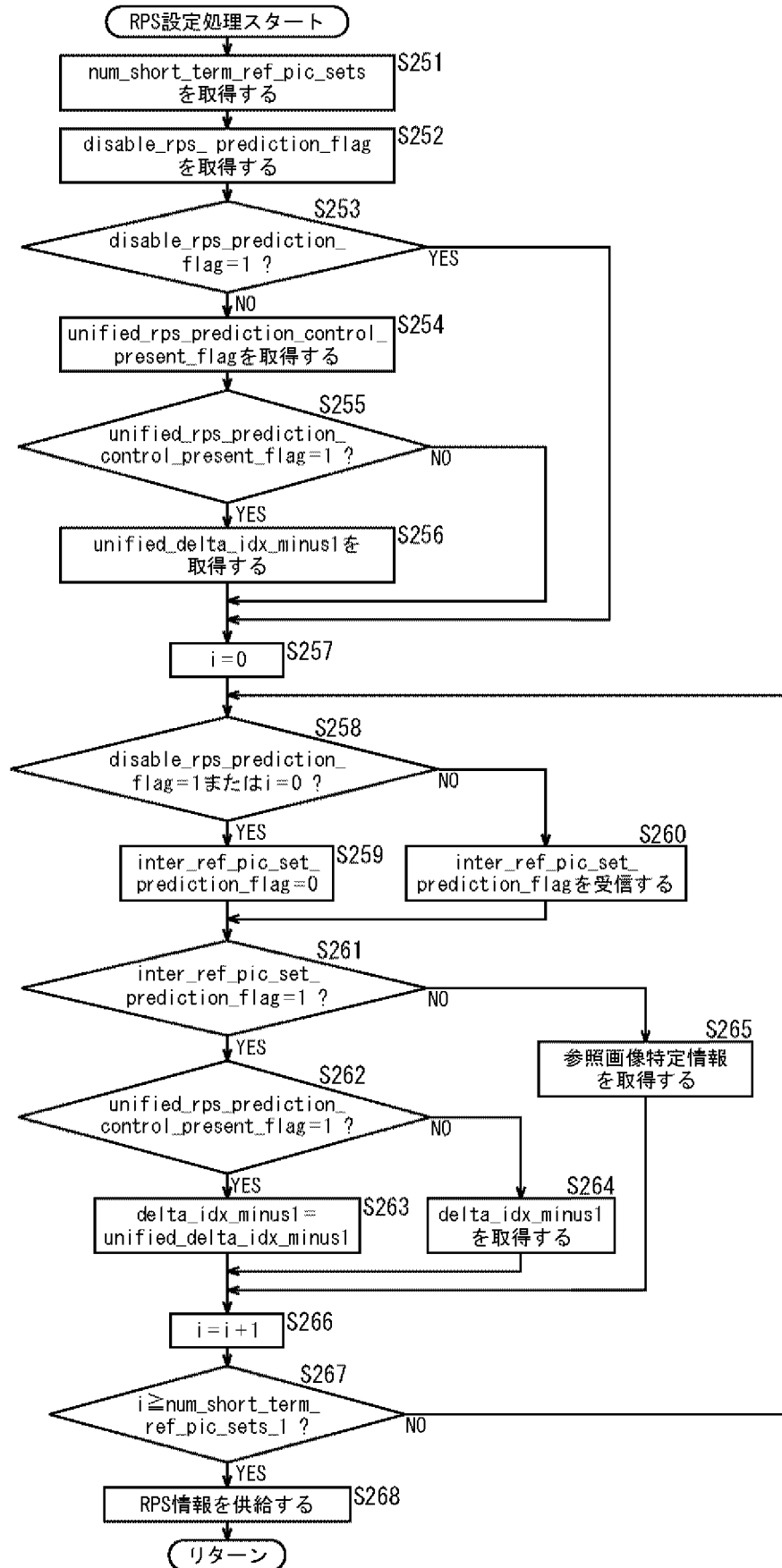
[図34]

図34



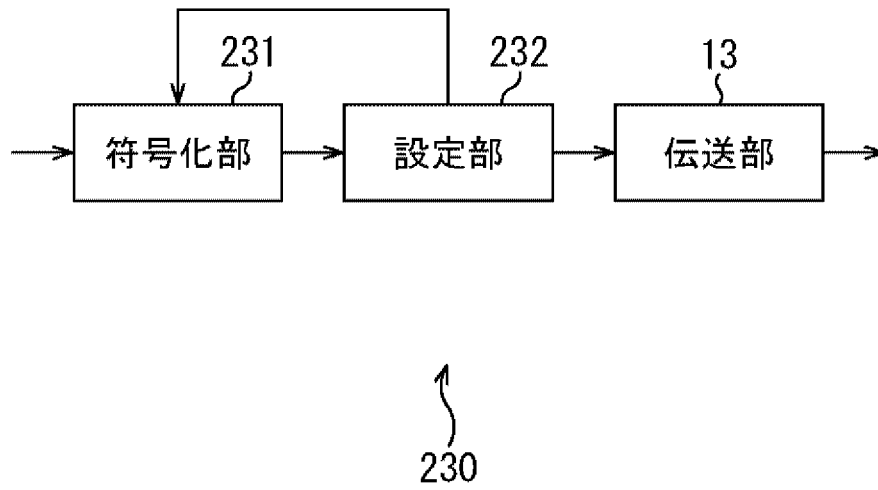
[図35]

図35



[図36]

図36





[図38]

図38

|    |                                                          |            |
|----|----------------------------------------------------------|------------|
| 1  | pic_parameter_set_rbsp( ) {                              | Descriptor |
| 2  | pic_parameter_set_id                                     | ue(v)      |
| 3  | seq_parameter_set_id                                     | ue(v)      |
| 4  | sign_data_hiding_flag                                    | u(1)       |
| 5  | cabac_init_present_flag                                  | u(1)       |
| 6  | unified_slice_type_flag                                  | u(1)       |
| 7  | if(unified_slice_type_flag)                              |            |
| 8  | all_intra_slice_flag                                     | u(1)       |
| 9  | if(!(unified_slice_type_flag && all_intra_slice_flag))   |            |
| 10 | no_b_slice_flag                                          | u(1)       |
| 11 | if(!(unified_slice_type_flag && all_intra_slice_flag)) { |            |
| 12 | num_ref_idx_l0_default_active_minus1                     | ue(v)      |
| 13 | if(!no_b_slice_flag)                                     |            |
| 14 | num_ref_idx_l1_default_active_minus1                     | ue(v)      |
| 15 | }                                                        |            |
| 16 | pic_init_qp_minus26                                      | se(v)      |
| 17 | constrained_intra_pred_flag                              | u(1)       |
| 18 | transform_skip_enabled_flag                              | u(1)       |
| 19 | cu_qp_delta_enabled_flag                                 | u(1)       |
| 20 | if(cu_qp_delta_enabled_flag)                             |            |
| 21 | diff_cu_qp_delta_depth                                   | ue(v)      |
| 22 | pic_cb_qp_offset                                         | se(v)      |
| 23 | pic_cr_qp_offset                                         | se(v)      |
| 24 | pic_slice_level_chroma_qp_offsets_present_flag           | u(1)       |
| 25 | if(!(unified_slice_type_flag && all_intra_slice_flag)) { |            |
| 26 | weighted_pred_flag                                       | u(1)       |
| 27 | if(!no_b_slice_flag)                                     |            |
| 28 | weighted_bipred_flag                                     | u(1)       |
| 29 | }                                                        |            |
| 30 | output_flag_present_flag                                 | u(1)       |
| 31 | transquant_bypass_enable_flag                            | u(1)       |
| 32 | dependent_slice_enabled_flag                             | u(1)       |
| 33 | tiles_enabled_flag                                       | u(1)       |
| 34 | entropy_coding_sync_enabled_flag                         | u(1)       |
| 35 | entropy_slice_enabled_flag                               | u(1)       |
| 36 | if(tiles_enabled_flag) {                                 |            |
| 37 | num_tile_columns_minus1                                  | ue(v)      |
| 38 | num_tile_rows_minus1                                     | ue(v)      |
| 39 | uniform_spacing_flag                                     | u(1)       |
| 40 | if(!uniform_spacing_flag) {                              |            |
| 41 | for(i=0; i<num_tile_columns_minus1; i++)                 |            |
| 42 | column_width_minus1[i]                                   | ue(v)      |

[図39]

図39

|    |                                              |       |
|----|----------------------------------------------|-------|
| 1  | for(i=0;i< num_tile_rows_minus1;i++)         |       |
| 2  | row_height_minus1[i]                         | ue(v) |
| 3  | }                                            |       |
| 4  | loop_filter_across_tiles_enabled_flag        | u(1)  |
| 5  | }                                            |       |
| 6  | loop_filter_across_slices_enabled_flag       | u(1)  |
| 7  | deblocking_filter_control_present_flag       | u(1)  |
| 8  | if(deblocking_filter_control_present_flag) { |       |
| 9  | deblocking_filter_override_enabled_flag      | u(1)  |
| 10 | pps_disable_deblocking_filter_flag           | u(1)  |
| 11 | if(!pps_disable_deblocking_filter_flag) {    |       |
| 12 | beta_offset_div2                             | se(v) |
| 13 | tc_offset_div2                               | se(v) |
| 14 | }                                            |       |
| 15 | }                                            |       |
| 16 | pps_scaling_list_data_present_flag           | u(1)  |
| 17 | if( pps_scaling_list_data_present_flag)      |       |
| 18 | scaling_list_data( )                         |       |
| 19 | log2_parallel_merge_level_minus2             | ue(v) |
| 20 | slice_header_extension_present_flag          | u(1)  |
| 21 | slice_extension_present_flag                 | u(1)  |
| 22 | pps_extension_flag                           | u(1)  |
| 23 | if(pps_extension_flag)                       |       |
| 24 | while(more_rbsp_data( ))                     |       |
| 25 | pps_extension_data_flag                      | u(1)  |
| 26 | rbbsp_trailing_bits( )                       |       |
| 27 | }                                            |       |

[図40]

図40

|    |                                                |            |
|----|------------------------------------------------|------------|
| 1  | pic_parameter_set_rbsp( ) {                    | Descriptor |
| 2  | pic_parameter_set_id                           | ue(v)      |
| 3  | seq_parameter_set_id                           | ue(v)      |
| 4  | sign_data_hiding_flag                          | u(1)       |
| 5  | cabac_init_present_flag                        | u(1)       |
| 6  | num_ref_idx_l0_default_active_minus1           | ue(v)      |
| 7  | num_ref_idx_l1_default_active_minus1           | ue(v)      |
| 8  | pic_init_qp_minus26                            | se(v)      |
| 9  | constrained_intra_pred_flag                    | u(1)       |
| 10 | transform_skip_enabled_flag                    | u(1)       |
| 11 | cu_qp_delta_enabled_flag                       | u(1)       |
| 12 | if(cu_qp_delta_enabled_flag)                   |            |
| 13 | diff_cu_qp_delta_depth                         | ue(v)      |
| 14 | pic_cb_qp_offset                               | se(v)      |
| 15 | pic_cr_qp_offset                               | se(v)      |
| 16 | pic_slice_level_chroma_qp_offsets_present_flag | u(1)       |
| 17 | weighted_pred_flag                             | u(1)       |
| 18 | weighted_bipred_flag                           | u(1)       |
| 19 | output_flag_present_flag                       | u(1)       |
| 20 | transquant_bypass_enable_flag                  | u(1)       |
| 21 | dependent_slice_enabled_flag                   | u(1)       |
| 22 | tiles_enabled_flag                             | u(1)       |
| 23 | entropy_coding_sync_enabled_flag               | u(1)       |
| 24 | entropy_slice_enabled_flag                     | u(1)       |
| 25 | if(tiles_enabled_flag) {                       |            |
| 26 | num_tile_columns_minus1                        | ue(v)      |
| 27 | num_tile_rows_minus1                           | ue(v)      |
| 28 | uniform_spacing_flag                           | u(1)       |
| 29 | if(!uniform_spacing_flag) {                    |            |
| 30 | for(i=0; i<num_tile_columns_minus1; i++)       |            |
| 31 | column_width_minus1[i]                         | ue(v)      |
| 32 | for(i=0; i<num_tile_rows_minus1; i++)          |            |
| 33 | row_height_minus1[i]                           | ue(v)      |
| 34 | }                                              |            |
| 35 | loop_filter_across_tiles_enabled_flag          | u(1)       |
| 36 | }                                              |            |
| 37 | loop_filter_across_slices_enabled_flag         | u(1)       |
| 38 | deblocking_filter_control_present_flag         | u(1)       |
| 39 | if(deblocking_filter_control_present_flag) {   |            |
| 40 | deblocking_filter_override_enabled_flag        | u(1)       |
| 41 | pps_disable_deblocking_filter_flag             | u(1)       |
| 42 | if(!pps_disable_deblocking_filter_flag) {      |            |
| 43 | beta_offset_div2                               | se(v)      |

[図41]

図41

|    |                                        |       |
|----|----------------------------------------|-------|
| 1  | tc_offset_div2                         | se(v) |
| 2  | }                                      |       |
| 3  | }                                      |       |
| 4  | pps_scaling_list_data_present_flag     | u(1)  |
| 5  | if(pps_scaling_list_data_present_flag) |       |
| 6  | scaling_list_data( )                   |       |
| 7  | log2_parallel_merge_level_minus2       | ue(v) |
| 8  | slice_header_extension_present_flag    | u(1)  |
| 9  | slice_extension_present_flag           | u(1)  |
| 10 | pps_extension_flag                     | u(1)  |
| 11 | if(pps_extension_flag)                 |       |
| 12 | while(more_rbsp_data( ))               |       |
| 13 | pps_extension_data_flag                | u(1)  |
| 14 | rbp_trailing_bits( )                   |       |
| 15 | }                                      |       |

[図42]

図42

|    |                                                                                                        |            |
|----|--------------------------------------------------------------------------------------------------------|------------|
| 1  | slice_header() {                                                                                       | Descriptor |
| 2  | first_slice_in_pic_flag                                                                                | u(1)       |
| 3  | if (RapPicFlag)                                                                                        |            |
| 4  | no_output_of_prior_pics_flag                                                                           | u(1)       |
| 5  | pic_parameter_set_id                                                                                   | ue(v)      |
| 6  | if (!first_slice_in_pic_flag)                                                                          |            |
| 7  | slice_address                                                                                          | u(v)       |
| 8  | if (dependent_slice_enabled_flag && !first_slice_in_pic_flag)                                          |            |
| 9  | dependent_slice_flag                                                                                   | u(1)       |
| 10 | if (!dependent_slice_flag) {                                                                           |            |
| 11 | <b>if (!(unified_slice_type_flag)    (unified_slice_type_flag &amp;&amp; first_slice_in_pic_flag))</b> |            |
| 12 | slice_type                                                                                             | ue(v)      |
| 13 | if (output_flag_present_flag)                                                                          |            |
| 14 | pic_output_flag                                                                                        | u(1)       |
| 15 | if (separate_colour_plane_flag == 1)                                                                   |            |
| 16 | colour_plane_id                                                                                        | u(2)       |
| 17 | if (!IdrPicFlag) {                                                                                     |            |
| 18 | pic_order_cnt_lsb                                                                                      | u(v)       |
| 19 | short_term_ref_pic_set_sps_flag                                                                        | u(1)       |
| 20 | if (!short_term_ref_pic_set_sps_flag)                                                                  |            |
| 21 | short_term_ref_pic_set(num_short_term_ref_pic_sets)                                                    |            |
| 22 | else                                                                                                   |            |
| 23 | short_term_ref_pic_set_idx                                                                             | u(v)       |
| 24 | if (long_term_ref_pics_present_flag) {                                                                 |            |
| 25 | if (num_long_term_ref_pics_sps > 0)                                                                    |            |
| 26 | num_long_term_sps                                                                                      | ue(v)      |
| 27 | num_long_term_pics                                                                                     | ue(v)      |
| 28 | for (i=0; i<num_long_term_sps+num_long_term_pics; i++) {                                               |            |
| 29 | if (i<num_long_term_sps)                                                                               |            |
| 30 | lt_idx_sps[i]                                                                                          | u(v)       |
| 31 | else {                                                                                                 |            |
| 32 | poc_lsb_lt[i]                                                                                          | u(v)       |
| 33 | used_by_curr_pic_lt_flag[i]                                                                            | u(1)       |
| 34 | }                                                                                                      |            |
| 35 | delta_poc_msb_present_flag[i]                                                                          | u(1)       |
| 36 | if ( delta_poc_msb_present_flag[i])                                                                    |            |
| 37 | delta_poc_msb_cycle_lt[i]                                                                              | ue(v)      |
| 38 | }                                                                                                      |            |
| 39 | }                                                                                                      |            |
| 40 | }                                                                                                      |            |
| 41 | if (sample_adaptive_offset_enabled_flag) {                                                             |            |
| 42 | slice_sao_luma_flag                                                                                    | u(1)       |
| 43 | slice_sao_chroma_flag                                                                                  | u(1)       |

[図43]

図43

|    |                                                                                                                                       |       |
|----|---------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1  | }                                                                                                                                     |       |
| 2  | if(slice_type == P    slice_type == B) {                                                                                              |       |
| 3  | if(sps_temporal_mvp_enable_flag)                                                                                                      |       |
| 4  | slice_temporal_mvp_enable_flag                                                                                                        | u(1)  |
| 5  | num_ref_idx_active_override_flag                                                                                                      | u(1)  |
| 6  | if(num_ref_idx_active_override_flag) {                                                                                                |       |
| 7  | num_ref_idx_l0_active_minus1                                                                                                          | ue(v) |
| 8  | if(slice_type == B)                                                                                                                   |       |
| 9  | num_ref_idx_l1_active_minus1                                                                                                          | ue(v) |
| 10 | }                                                                                                                                     |       |
| 11 | if(lists_modification_present_flag)                                                                                                   |       |
| 12 | ref_pic_list_modification( )                                                                                                          |       |
| 13 | if(slice_type == B)                                                                                                                   |       |
| 14 | mvd_l1_zero_flag                                                                                                                      | u(1)  |
| 15 | if(cabac_init_present_flag)                                                                                                           |       |
| 16 | cabac_init_flag                                                                                                                       | u(1)  |
| 17 | if(slice_temporal_mvp_enable_flag) {                                                                                                  |       |
| 18 | if( slice_type == B)                                                                                                                  |       |
| 19 | collocated_from_l0_flag                                                                                                               | u(1)  |
| 20 | if((collocated_from_l0_flag && num_ref_idx_l0_active_minus1>0)<br>   (!collocated_from_l0_flag &&<br>num_ref_idx_l1_active_minus1>0)) |       |
| 21 | collocated_ref_idx                                                                                                                    | ue(v) |
| 22 | }                                                                                                                                     |       |
| 23 | if((weighted_pred_flag && slice_type == P)   <br>(weighted_bipred_flag && slice_type == B))                                           |       |
| 24 | pred_weight_table( )                                                                                                                  |       |
| 25 | five_minus_max_num_merge_cand                                                                                                         | ue(v) |
| 26 | }                                                                                                                                     |       |
| 27 | slice_qp_delta                                                                                                                        | se(v) |
| 28 | if(pic_slice_level_chroma_qp_offsets_present_flag) {                                                                                  |       |
| 29 | slice_cb_qp_offset                                                                                                                    | se(v) |
| 30 | slice_cr_qp_offset                                                                                                                    | se(v) |
| 31 | }                                                                                                                                     |       |
| 32 | if(deblocking_filter_control_present_flag) {                                                                                          |       |
| 33 | if(deblocking_filter_override_enabled_flag)                                                                                           |       |
| 34 | deblocking_filter_override_flag                                                                                                       | u(1)  |
| 35 | if(deblocking_filter_override_flag) {                                                                                                 |       |
| 36 | slice_header_disable_deblocking_filter_flag                                                                                           | u(1)  |
| 37 | if(!slice_header_disable_deblocking_filter_flag) {                                                                                    |       |
| 38 | beta_offset_div2                                                                                                                      | se(v) |
| 39 | tc_offset_div2                                                                                                                        | se(v) |
| 40 | }                                                                                                                                     |       |
| 41 | }                                                                                                                                     |       |

[図44]

図44

|    |                                                                                                                                        |       |
|----|----------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1  | }                                                                                                                                      |       |
| 2  | if( loop_filter_across_slices_enabled_flag &&<br>(slice_sao_luma_flag    slice_sao_chroma_flag   <br>!disable_deblocking_filter_flag)) |       |
| 3  | slice_loop_filter_across_slices_enabled_flag                                                                                           | u(1)  |
| 4  | }                                                                                                                                      |       |
| 5  | if(tiles_enabled_flag    entropy_coding_sync_enabled_flag) {                                                                           |       |
| 6  | num_entry_point_offsets                                                                                                                | ue(v) |
| 7  | if(num_entry_point_offsets>0) {                                                                                                        |       |
| 8  | offset_len_minus1                                                                                                                      | ue(v) |
| 9  | for(i=0;i<num_entry_point_offsets;i++)                                                                                                 |       |
| 10 | entry_point_offset[i]                                                                                                                  | u(v)  |
| 11 | }                                                                                                                                      |       |
| 12 | }                                                                                                                                      |       |
| 13 | if(slice_header_extension_present_flag) {                                                                                              |       |
| 14 | slice_header_extension_length                                                                                                          | ue(v) |
| 15 | for(i=0;i<slice_header_extension_length;i++)                                                                                           |       |
| 16 | slice_header_extension_data_byte[i]                                                                                                    | u(8)  |
| 17 | }                                                                                                                                      |       |
| 18 | byte_alignment( )                                                                                                                      |       |
| 19 | }                                                                                                                                      |       |

[図45]

図45

|    |                                                               |            |
|----|---------------------------------------------------------------|------------|
| 1  | slice_header() {                                              | Descriptor |
| 2  | first_slice_in_pic_flag                                       | u(1)       |
| 3  | if (RapPicFlag)                                               |            |
| 4  | no_output_of_prior_pics_flag                                  | u(1)       |
| 5  | pic_parameter_set_id                                          | ue(v)      |
| 6  | if (!first_slice_in_pic_flag)                                 |            |
| 7  | slice_address                                                 | u(v)       |
| 8  | if (dependent_slice_enabled_flag && !first_slice_in_pic_flag) |            |
| 9  | dependent_slice_flag                                          | u(1)       |
| 10 | if (!dependent_slice_flag) {                                  |            |
| 11 | slice_type                                                    | ue(v)      |
| 12 | if (output_flag_present_flag)                                 |            |
| 13 | pic_output_flag                                               | u(1)       |
| 14 | if (separate_colour_plane_flag == 1)                          |            |
| 15 | colour_plane_id                                               | u(2)       |
| 16 | if (!IdrPicFlag) {                                            |            |
| 17 | pic_order_cnt_lsb                                             | u(v)       |
| 18 | short_term_ref_pic_set_sps_flag                               | u(1)       |
| 19 | if (!short_term_ref_pic_set_sps_flag)                         |            |
| 20 | short_term_ref_pic_set(num_short_term_ref_pic_sets)           |            |
| 21 | else                                                          |            |
| 22 | short_term_ref_pic_set_idx                                    | u(v)       |
| 23 | if (long_term_ref_pics_present_flag) {                        |            |
| 24 | if ( num_long_term_ref_pics_sps>0)                            |            |
| 25 | num_long_term_sps                                             | ue(v)      |
| 26 | num_long_term_pics                                            | ue(v)      |
| 27 | for (i=0; i<num_long_term_sps + num_long_term_pics; i++) {    |            |
| 28 | if (i<num_long_term_sps)                                      |            |
| 29 | lt_idx_sps[i]                                                 | u(v)       |
| 30 | else {                                                        |            |
| 31 | poc_lsb_lt[i]                                                 | u(v)       |
| 32 | used_by_curr_pic_lt_flag[i]                                   | u(1)       |
| 33 | }                                                             |            |
| 34 | delta_poc_msb_present_flag[i]                                 | u(1)       |
| 35 | if ( delta_poc_msb_present_flag[i])                           |            |
| 36 | delta_poc_msb_cycle_lt[i]                                     | ue(v)      |
| 37 | }                                                             |            |
| 38 | }                                                             |            |
| 39 | }                                                             |            |
| 40 | if (sample_adaptive_offset_enabled_flag) {                    |            |
| 41 | slice_sao_luma_flag                                           | u(1)       |
| 42 | slice_sao_chroma_flag                                         | u(1)       |
| 43 | }                                                             |            |

[図46]

図46

|    |                                                                                                                                       |       |
|----|---------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1  | if(slice_type == P    slice_type == B) {                                                                                              |       |
| 2  | if(sps_temporal_mvp_enable_flag)                                                                                                      |       |
| 3  | slice_temporal_mvp_enable_flag                                                                                                        | u(1)  |
| 4  | num_ref_idx_active_override_flag                                                                                                      | u(1)  |
| 5  | if( num_ref_idx_active_override_flag) {                                                                                               |       |
| 6  | num_ref_idx_l0_active_minus1                                                                                                          | ue(v) |
| 7  | if(slice_type == B)                                                                                                                   |       |
| 8  | num_ref_idx_l1_active_minus1                                                                                                          | ue(v) |
| 9  | }                                                                                                                                     |       |
| 10 | if(lists_modification_present_flag)                                                                                                   |       |
| 11 | ref_pic_list_modification( )                                                                                                          |       |
| 12 | if(slice_type == B)                                                                                                                   |       |
| 13 | mvd_l1_zero_flag                                                                                                                      | u(1)  |
| 14 | if(cabac_init_present_flag)                                                                                                           |       |
| 15 | cabac_init_flag                                                                                                                       | u(1)  |
| 16 | if(slice_temporal_mvp_enable_flag) {                                                                                                  |       |
| 17 | if(slice_type == B)                                                                                                                   |       |
| 18 | collocated_from_l0_flag                                                                                                               | u(1)  |
| 19 | if((collocated_from_l0_flag && num_ref_idx_l0_active_minus1>0)<br>   (!collocated_from_l0_flag &&<br>num_ref_idx_l1_active_minus1>0)) |       |
| 20 | collocated_ref_idx                                                                                                                    | ue(v) |
| 21 | }                                                                                                                                     |       |
| 22 | if((weighted_pred_flag && slice_type == P)   <br>(weighted_bipred_flag && slice_type == B))                                           |       |
| 23 | pred_weight_table( )                                                                                                                  |       |
| 24 | five_minus_max_num_merge_cand                                                                                                         | ue(v) |
| 25 | }                                                                                                                                     |       |
| 26 | slice_qp_delta                                                                                                                        | se(v) |
| 27 | if(pic_slice_level_chroma_qp_offsets_present_flag) {                                                                                  |       |
| 28 | slice_cb_qp_offset                                                                                                                    | se(v) |
| 29 | slice_cr_qp_offset                                                                                                                    | se(v) |
| 30 | }                                                                                                                                     |       |
| 31 | if(deblocking_filter_control_present_flag) {                                                                                          |       |
| 32 | if(deblocking_filter_override_enabled_flag)                                                                                           |       |
| 33 | deblocking_filter_override_flag                                                                                                       | u(1)  |
| 34 | if(deblocking_filter_override_flag) {                                                                                                 |       |
| 35 | slice_header_disable_deblocking_filter_flag                                                                                           | u(1)  |
| 36 | if(!slice_header_disable_deblocking_filter_flag) {                                                                                    |       |
| 37 | beta_offset_div2                                                                                                                      | se(v) |
| 38 | tc_offset_div2                                                                                                                        | se(v) |
| 39 | }                                                                                                                                     |       |
| 40 | }                                                                                                                                     |       |
| 41 | }                                                                                                                                     |       |

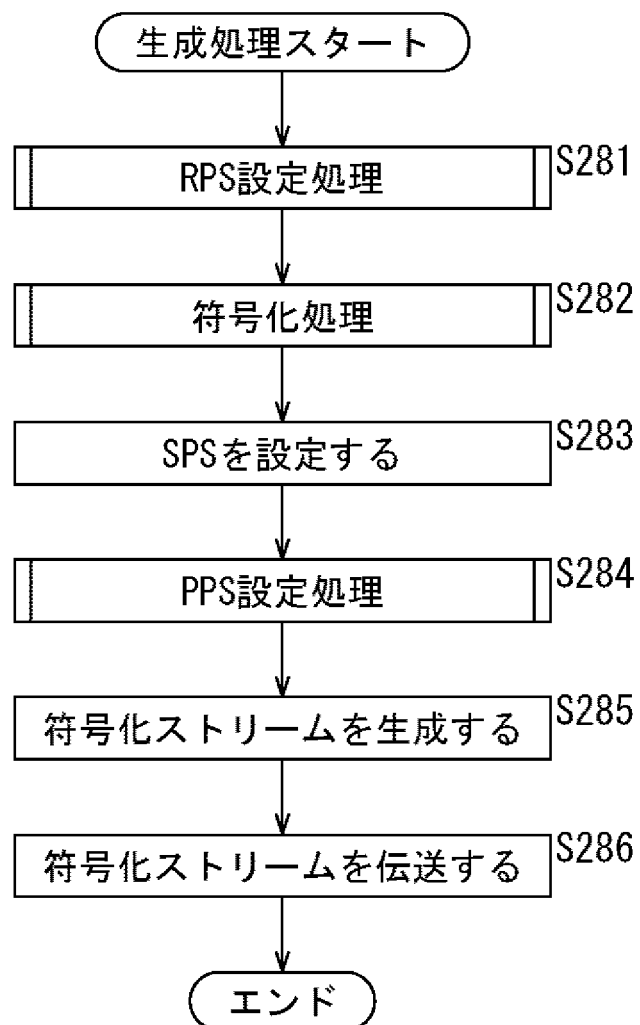
[図47]

図47

|    |                                                                                                                                       |       |
|----|---------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1  | if(loop_filter_across_slices_enabled_flag &&<br>(slice_sao_luma_flag    slice_sao_chroma_flag   <br>!disable_deblocking_filter_flag)) |       |
| 2  | slice_loop_filter_across_slices_enabled_flag                                                                                          | u(1)  |
| 3  | }                                                                                                                                     |       |
| 4  | if(tiles_enabled_flag    entropy_coding_sync_enabled_flag) {                                                                          |       |
| 5  | num_entry_point_offsets                                                                                                               | ue(v) |
| 6  | if(num_entry_point_offsets>0) {                                                                                                       |       |
| 7  | offset_len_minus1                                                                                                                     | ue(v) |
| 8  | for(i=0;i<num_entry_point_offsets;i++)                                                                                                |       |
| 9  | entry_point_offset[i]                                                                                                                 | u(v)  |
| 10 | }                                                                                                                                     |       |
| 11 | }                                                                                                                                     |       |
| 12 | if(slice_header_extension_present_flag) {                                                                                             |       |
| 13 | slice_header_extension_length                                                                                                         | ue(v) |
| 14 | for(i=0;i<slice_header_extension_length;i++)                                                                                          |       |
| 15 | slice_header_extension_data_byte[i]                                                                                                   | u(8)  |
| 16 | }                                                                                                                                     |       |
| 17 | byte_alignment( )                                                                                                                     |       |
| 18 | }                                                                                                                                     |       |

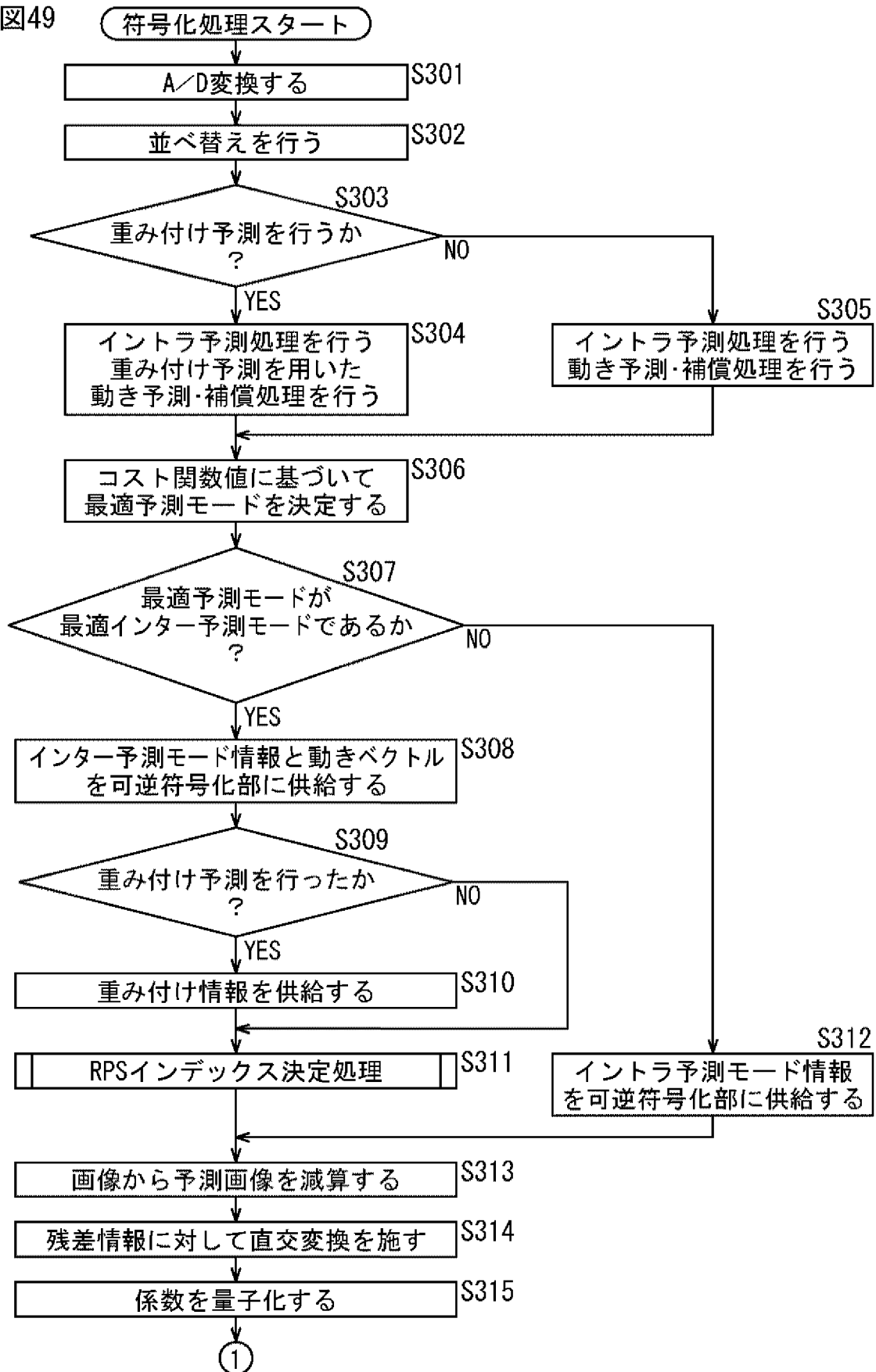
[図48]

図48



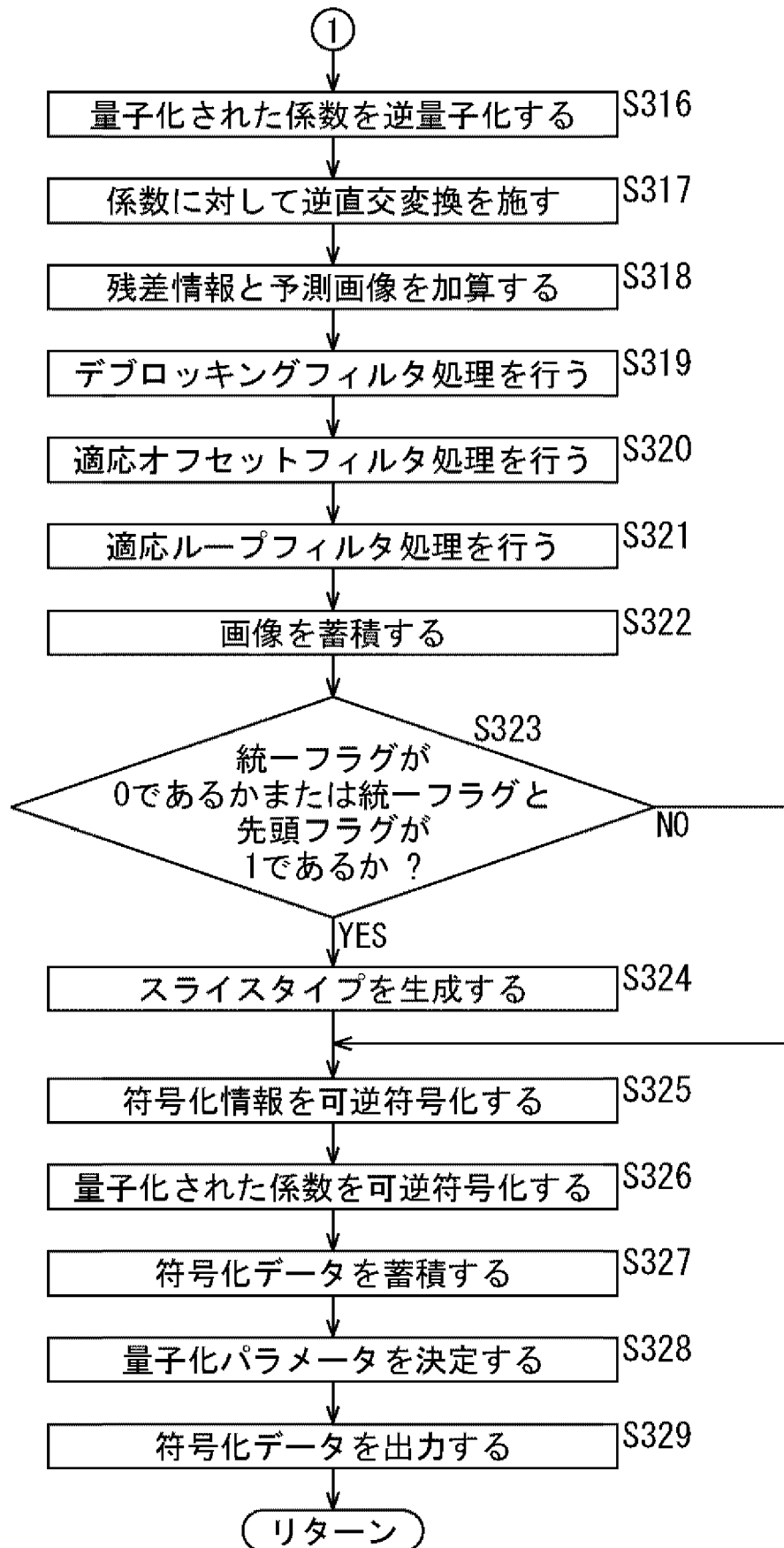
[図49]

図49



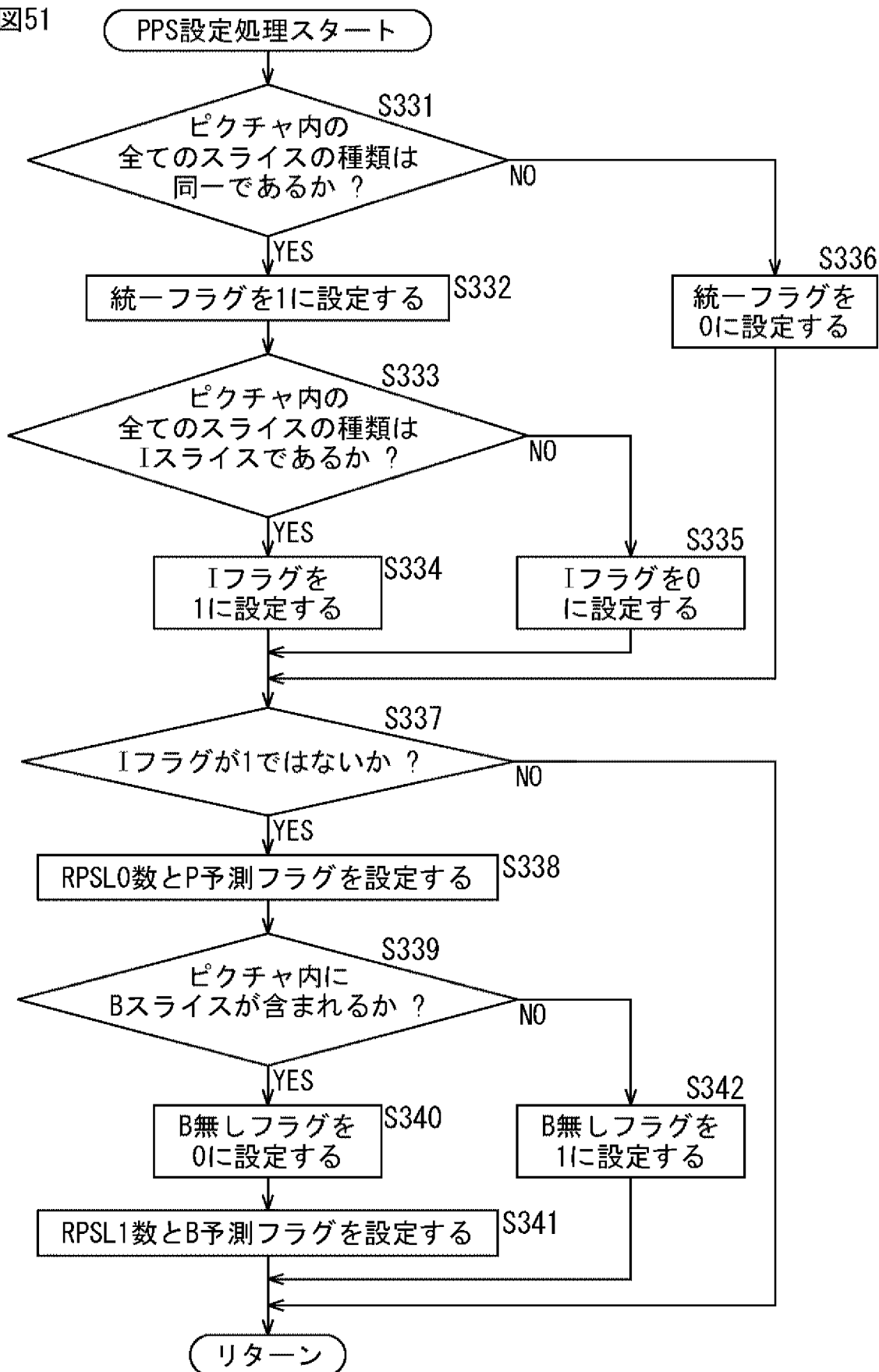
[図50]

図50



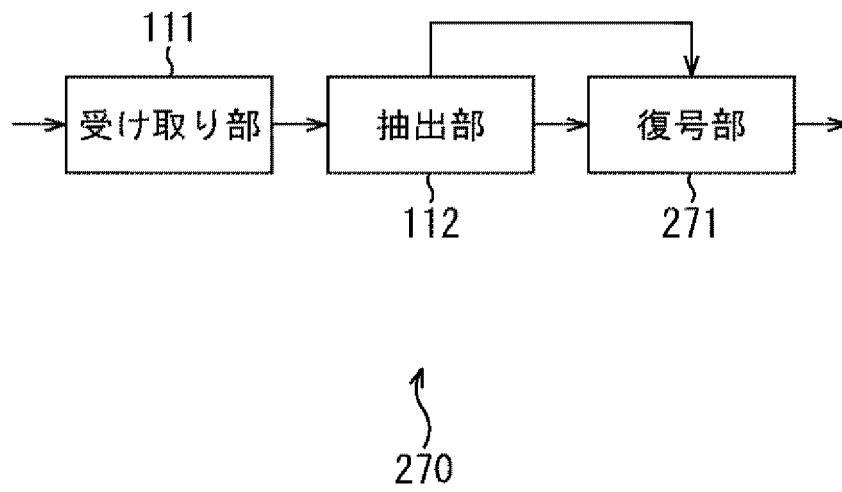
[図51]

図51



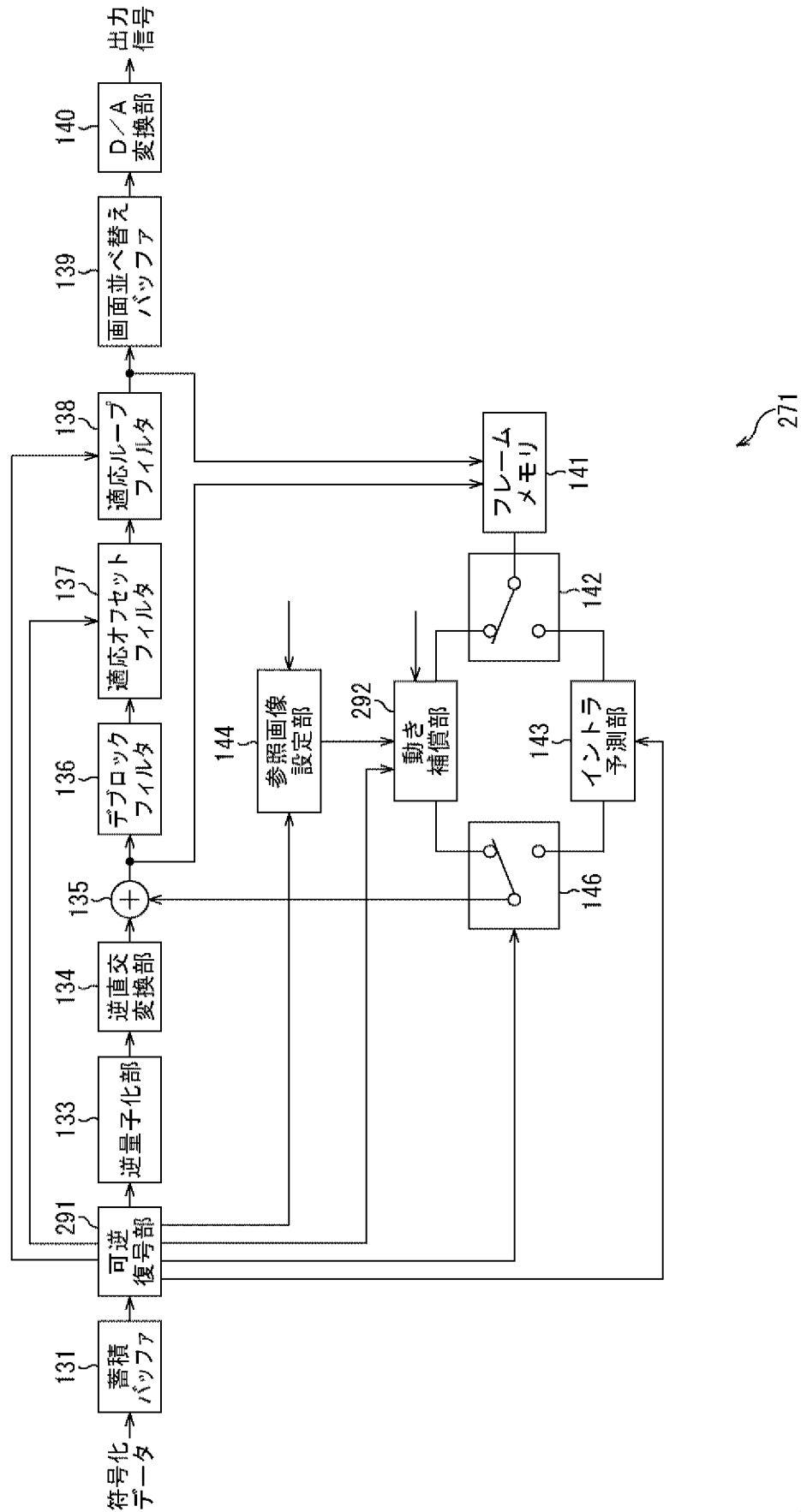
[図52]

図52



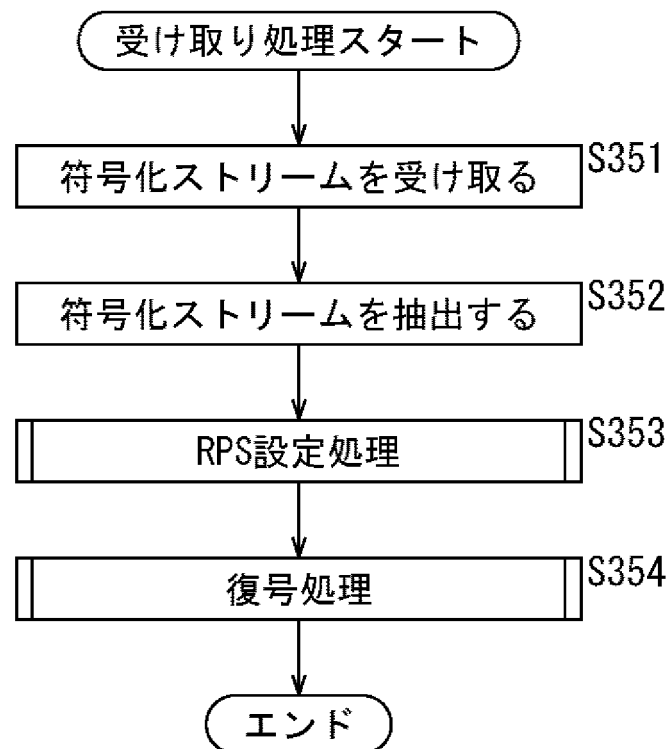
[図53]

図53



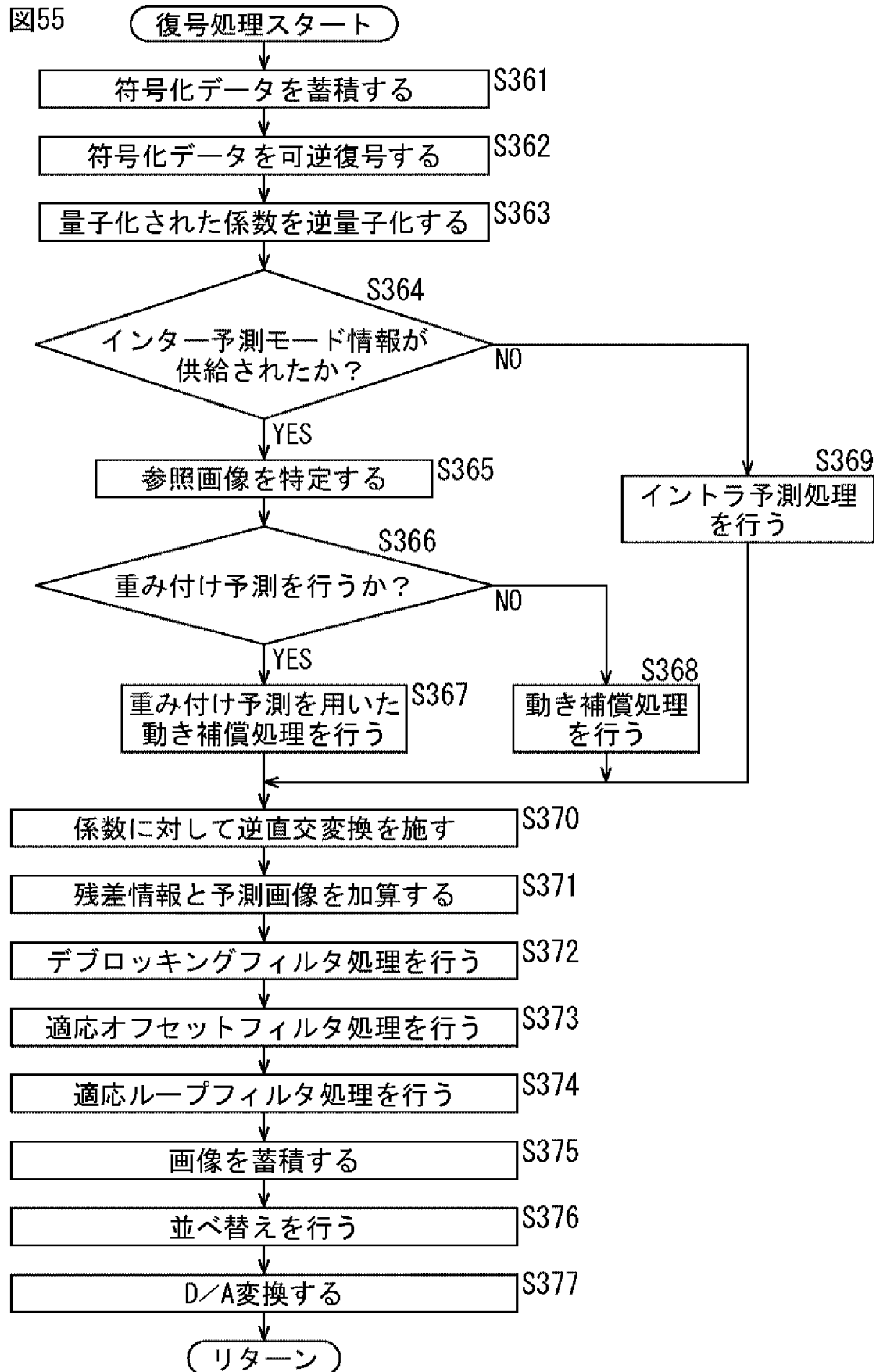
[図54]

図54



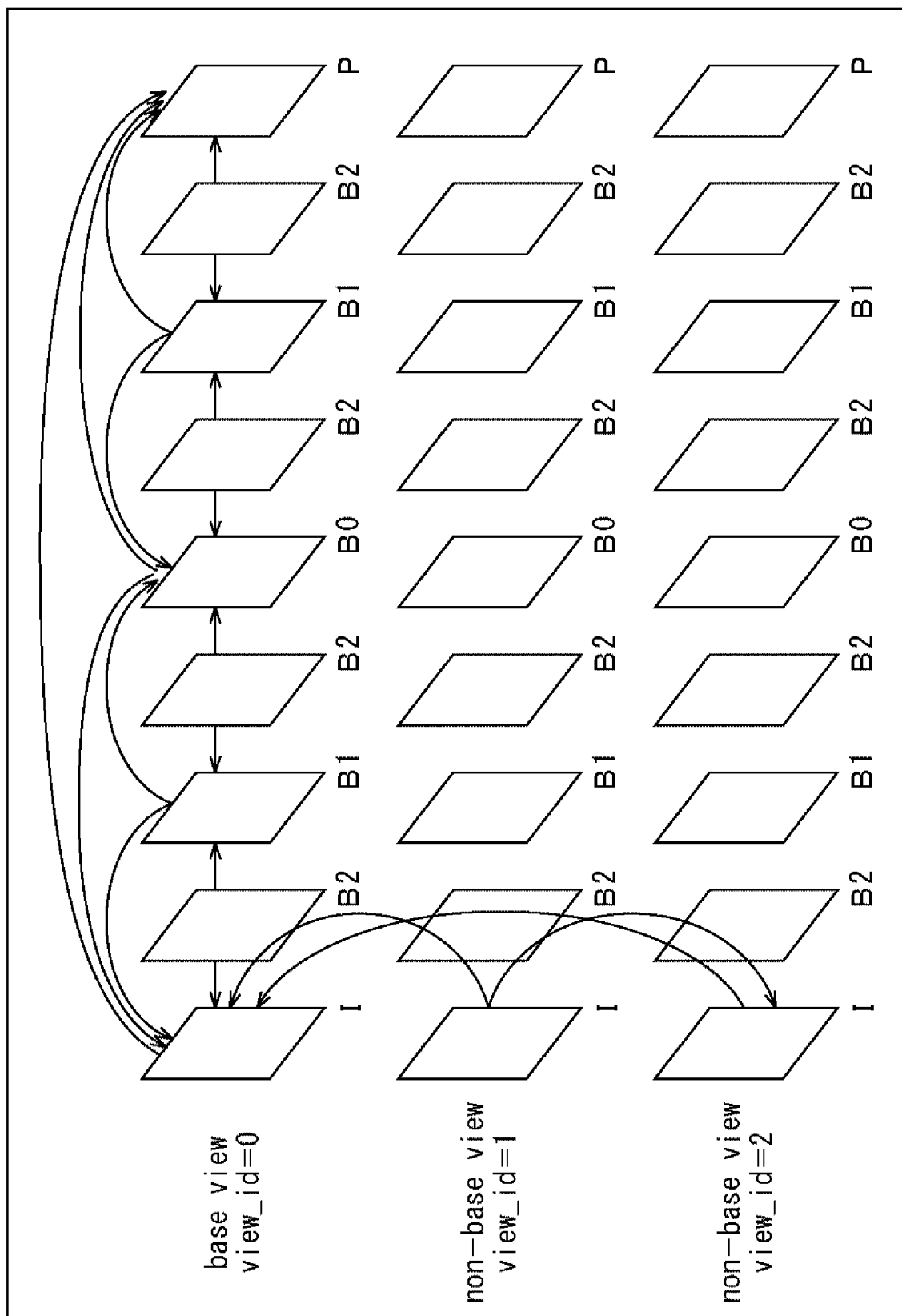
[図55]

図55



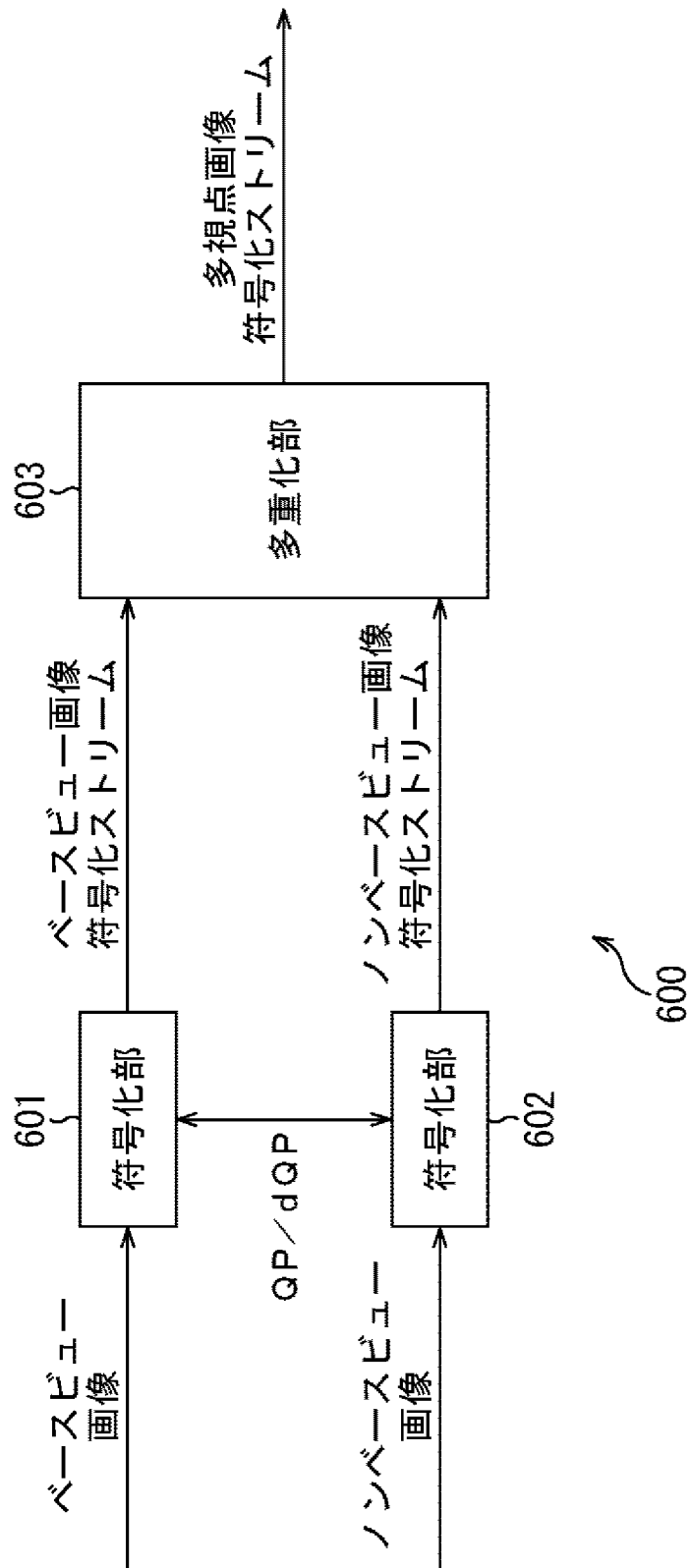
[図56]

図56



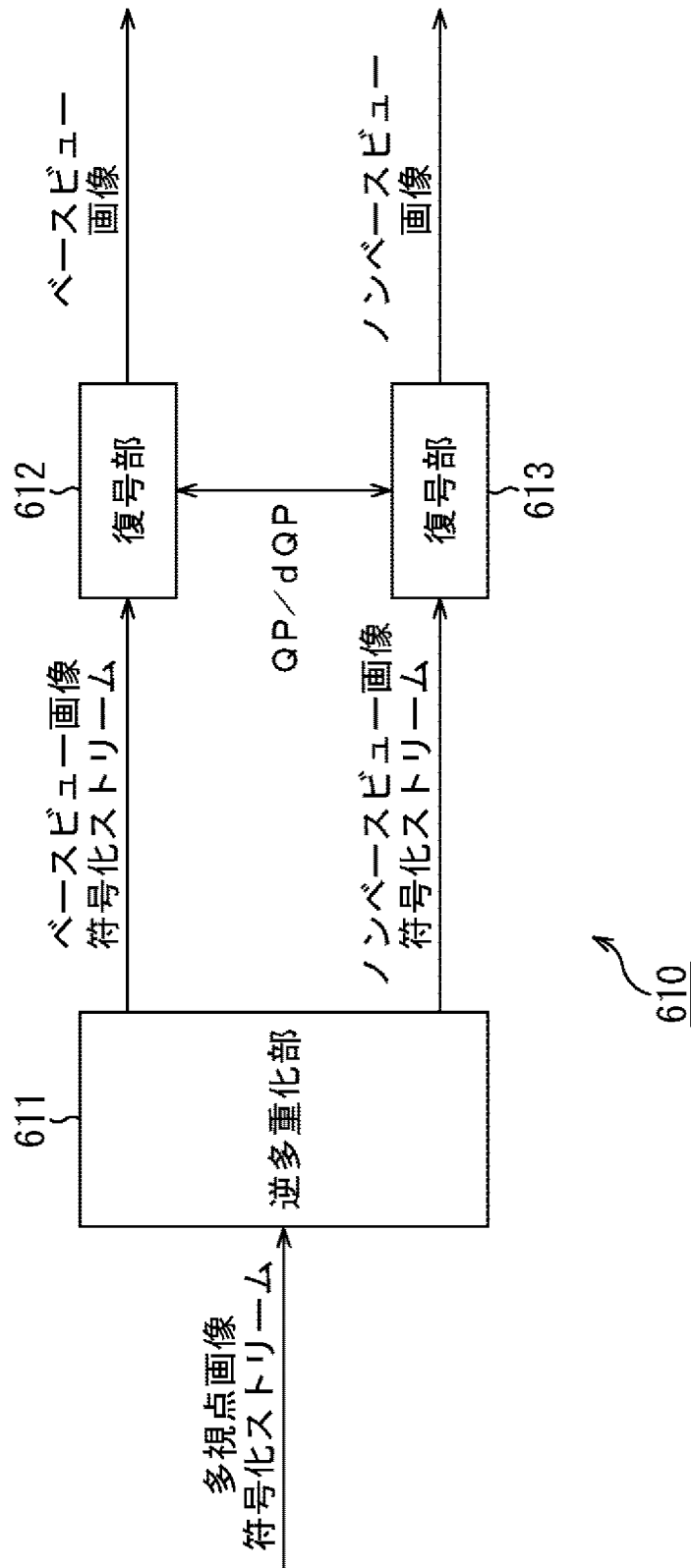
[図57]

図57



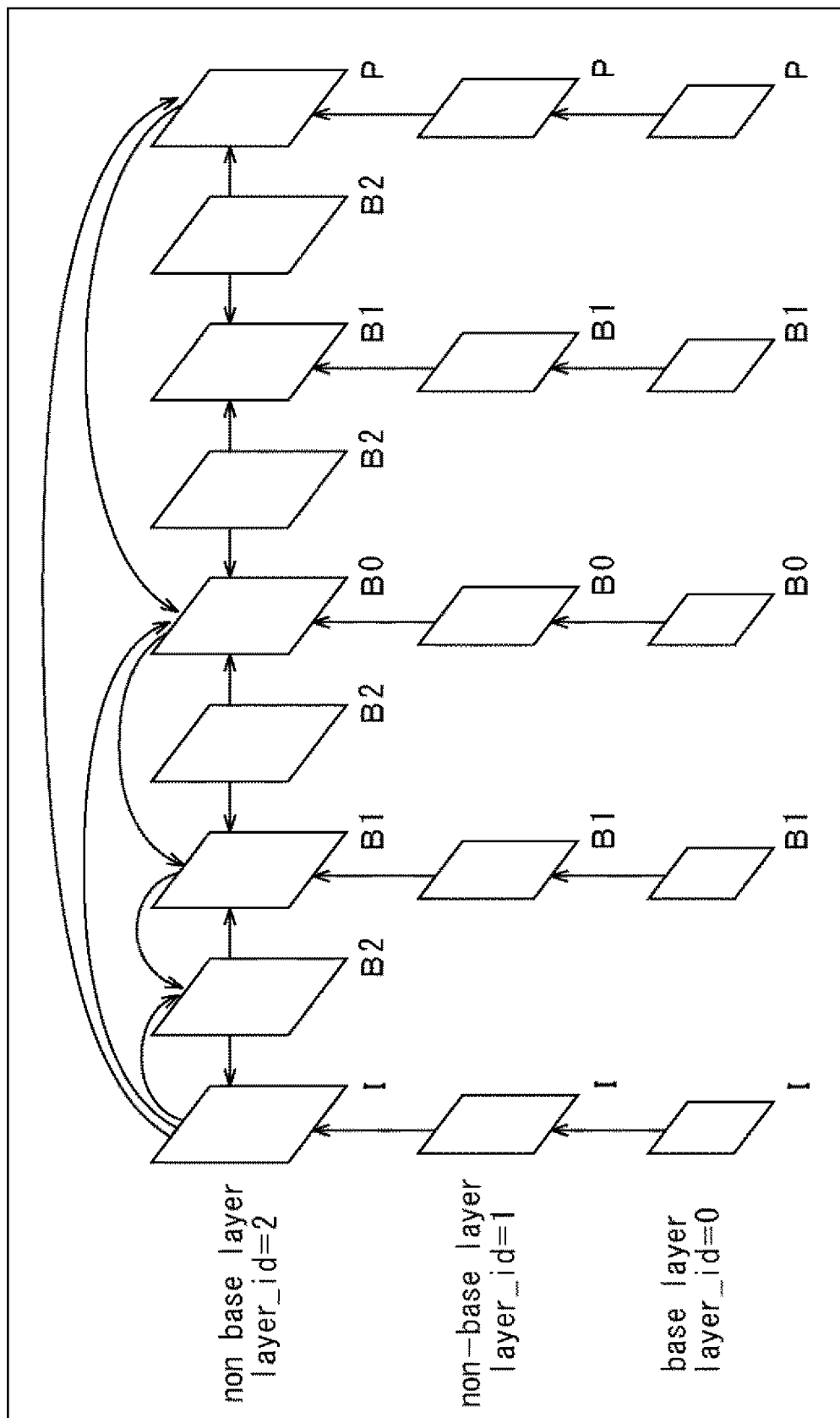
[図58]

図58



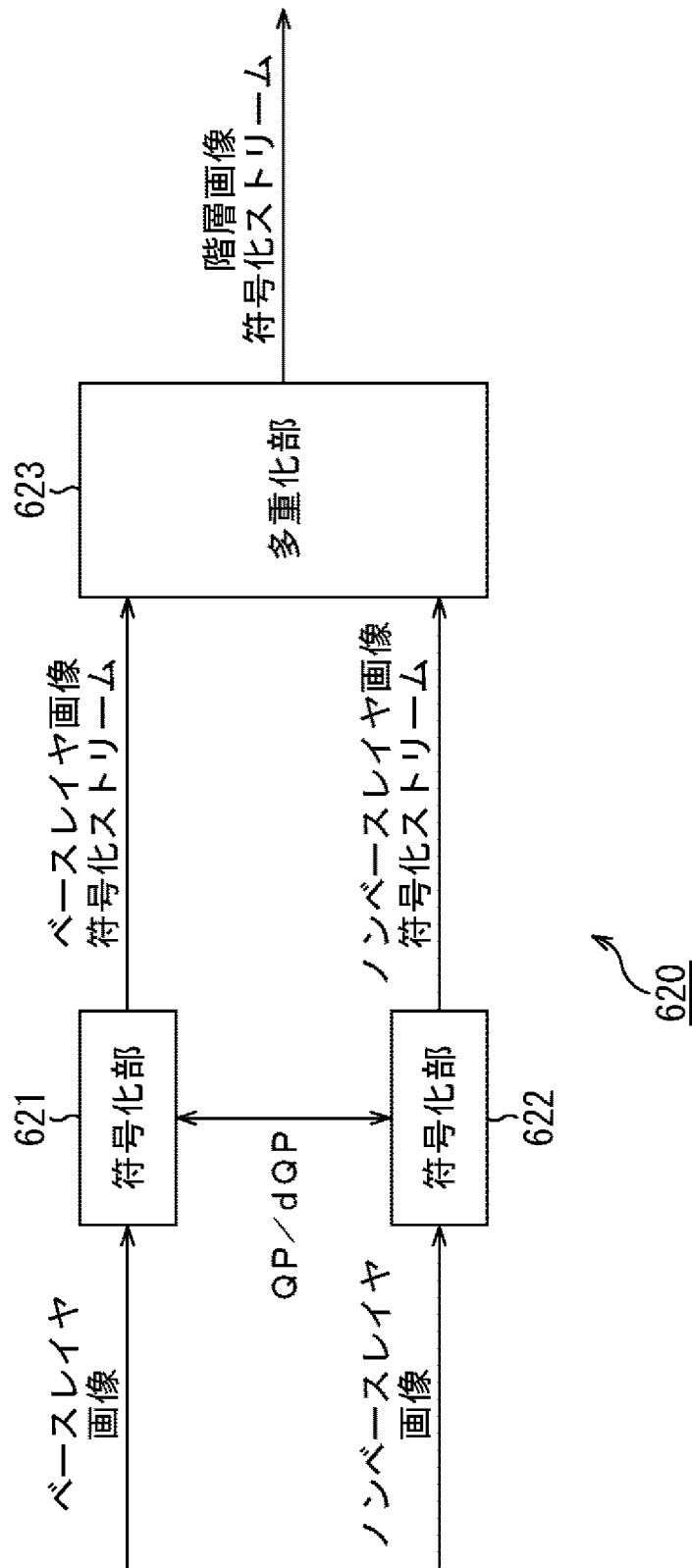
[図59]

図59



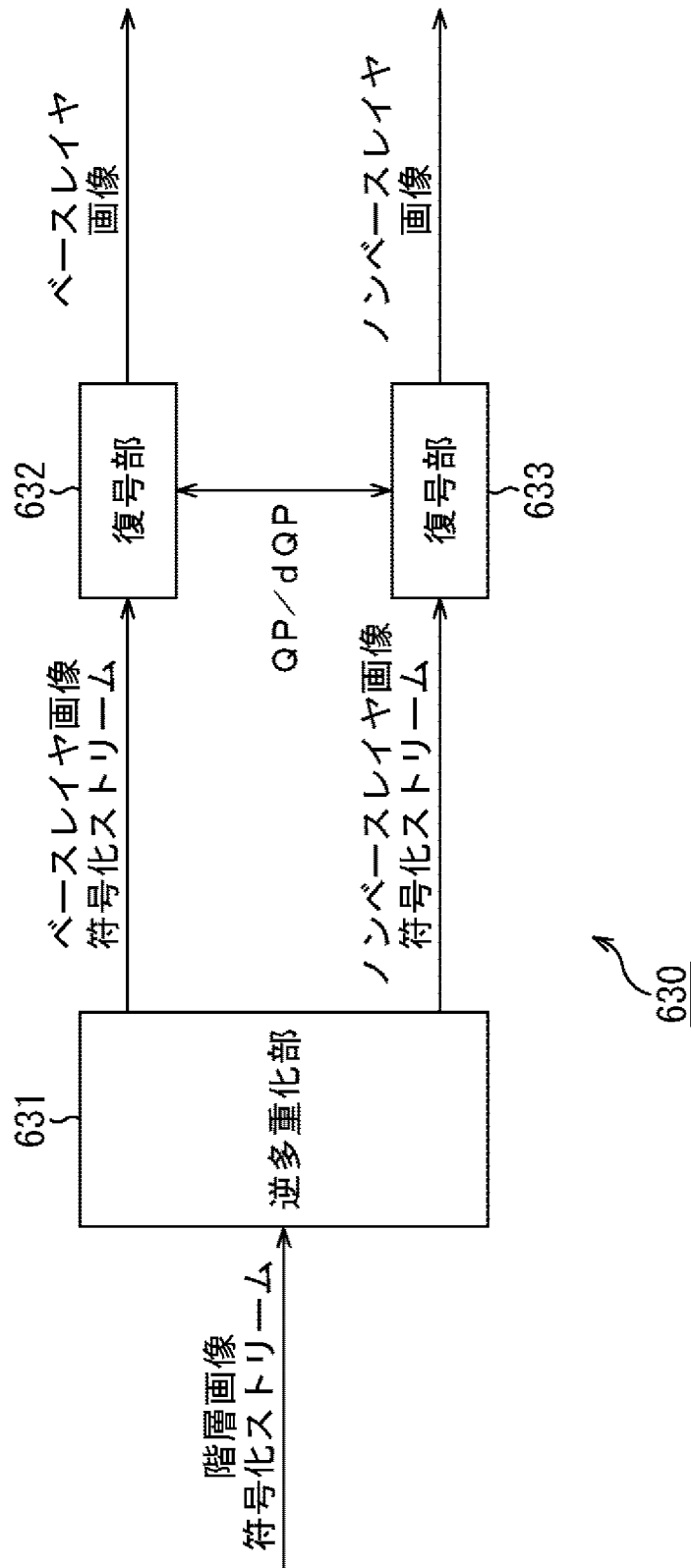
[図60]

図60



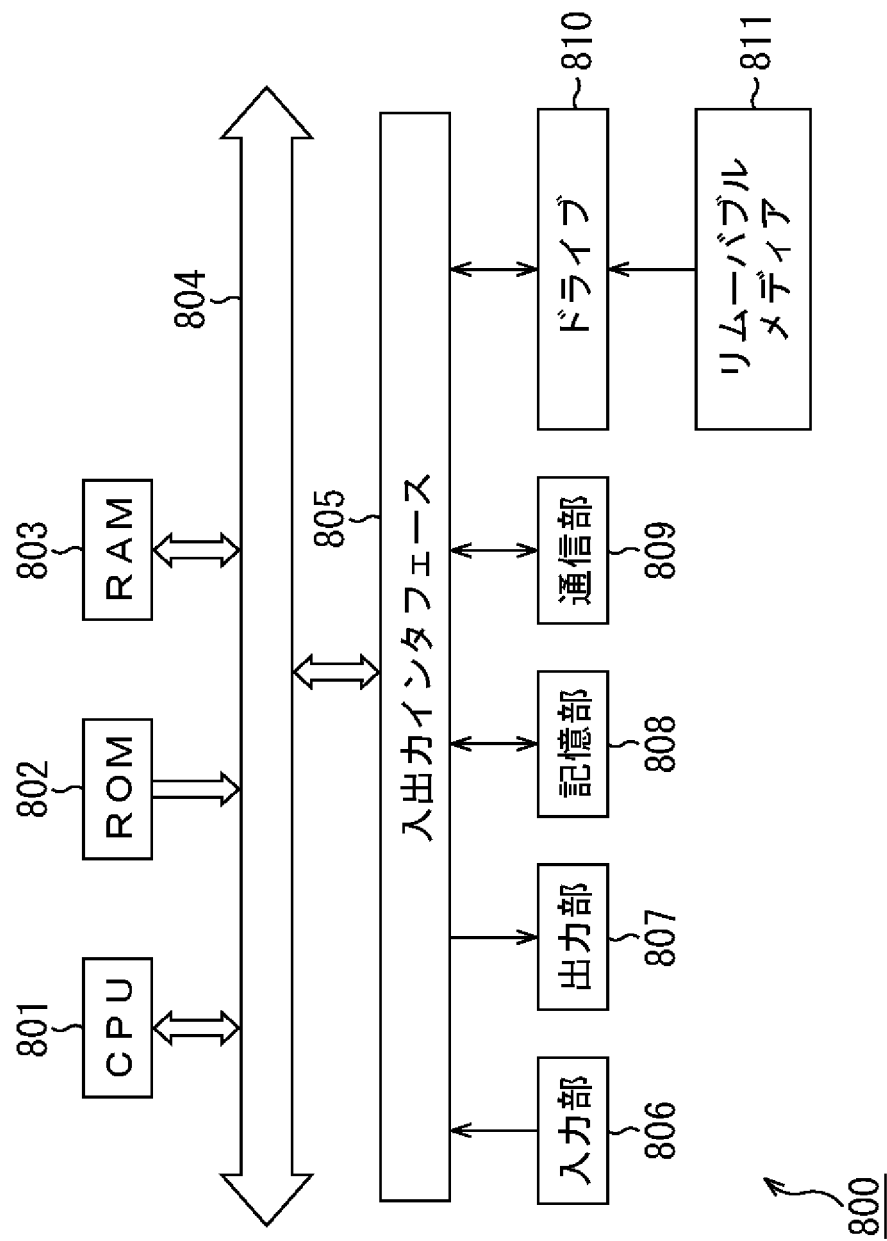
[図61]

図61



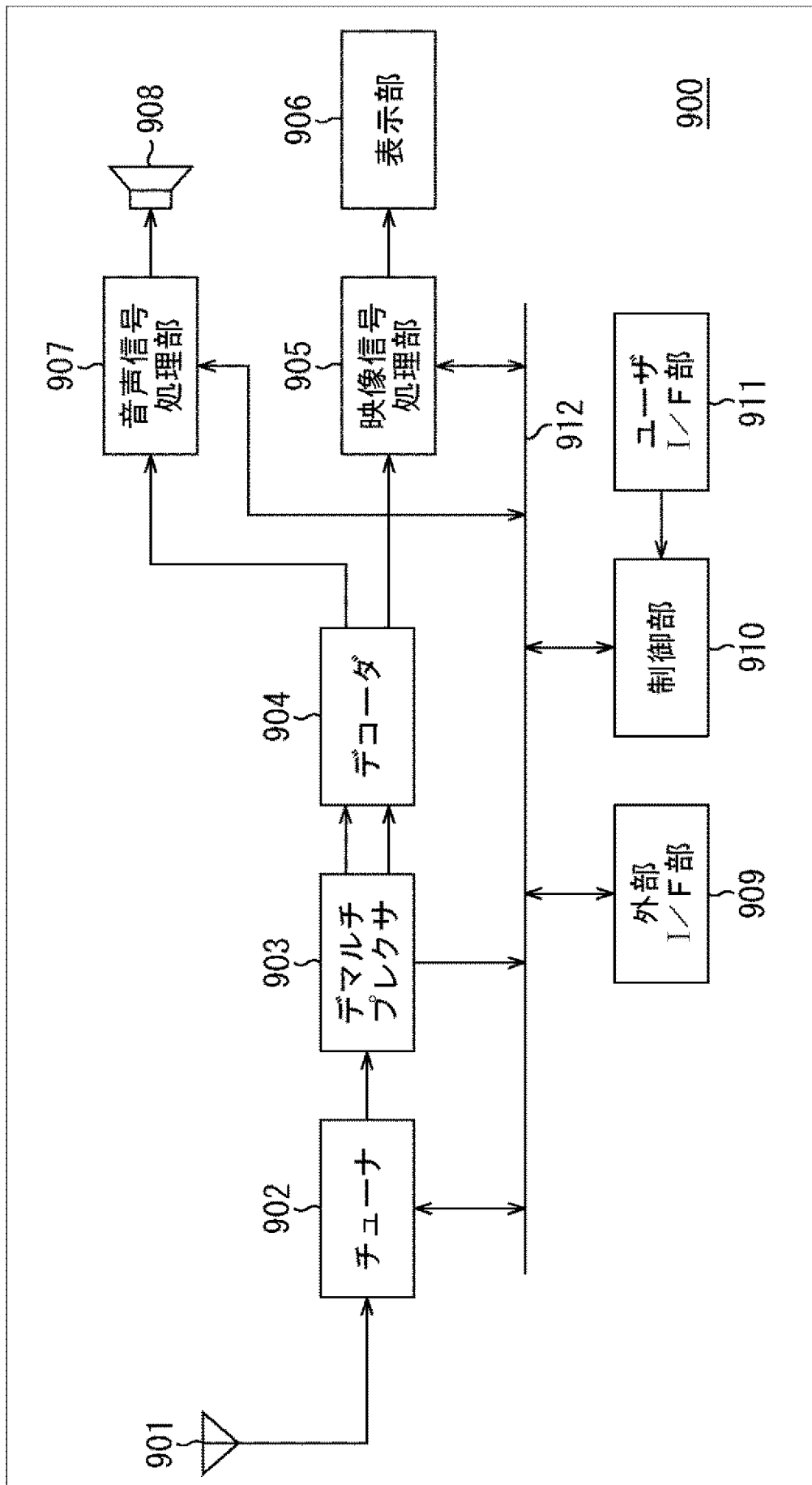
[図62]

図62



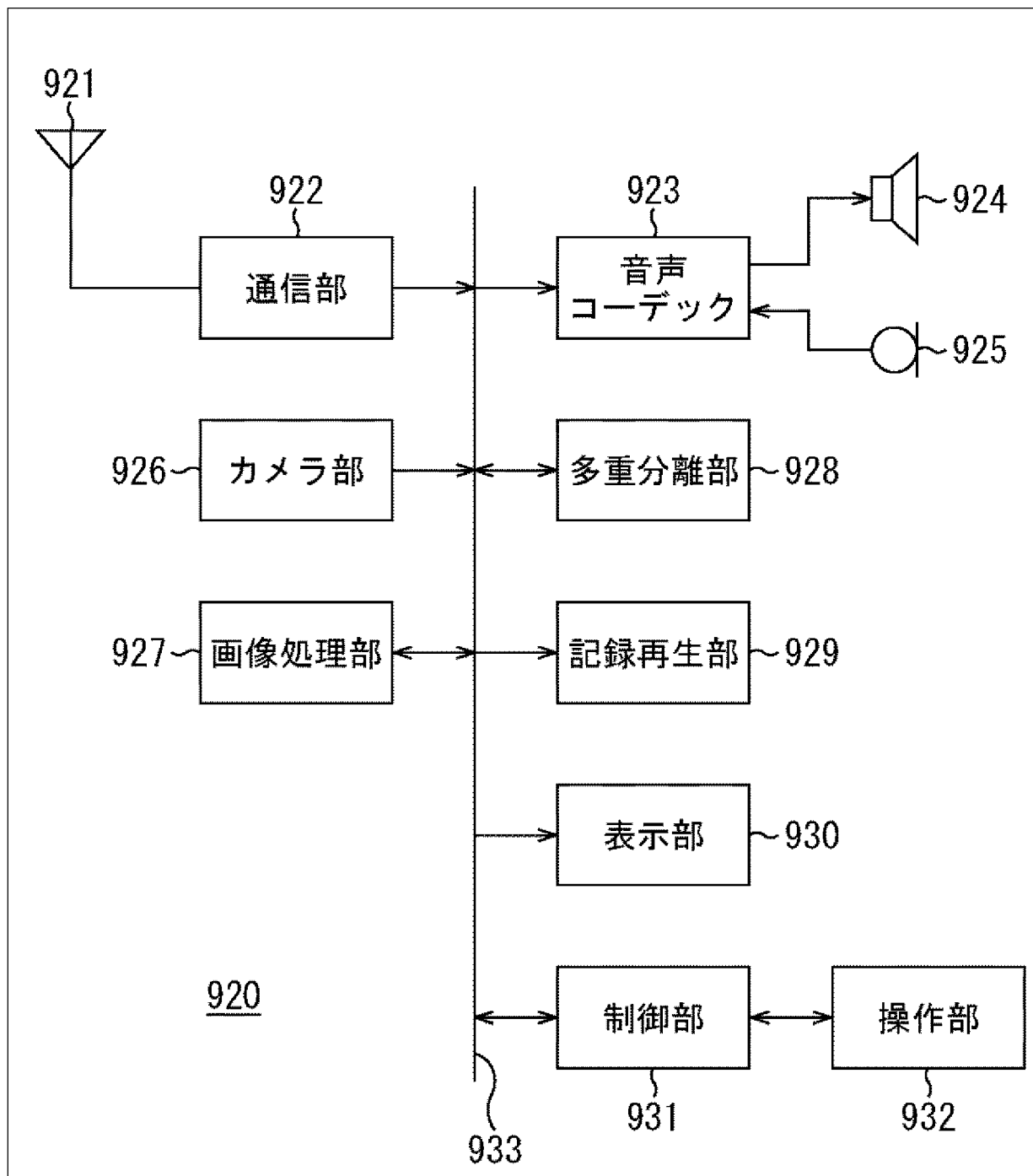
[図63]

図63



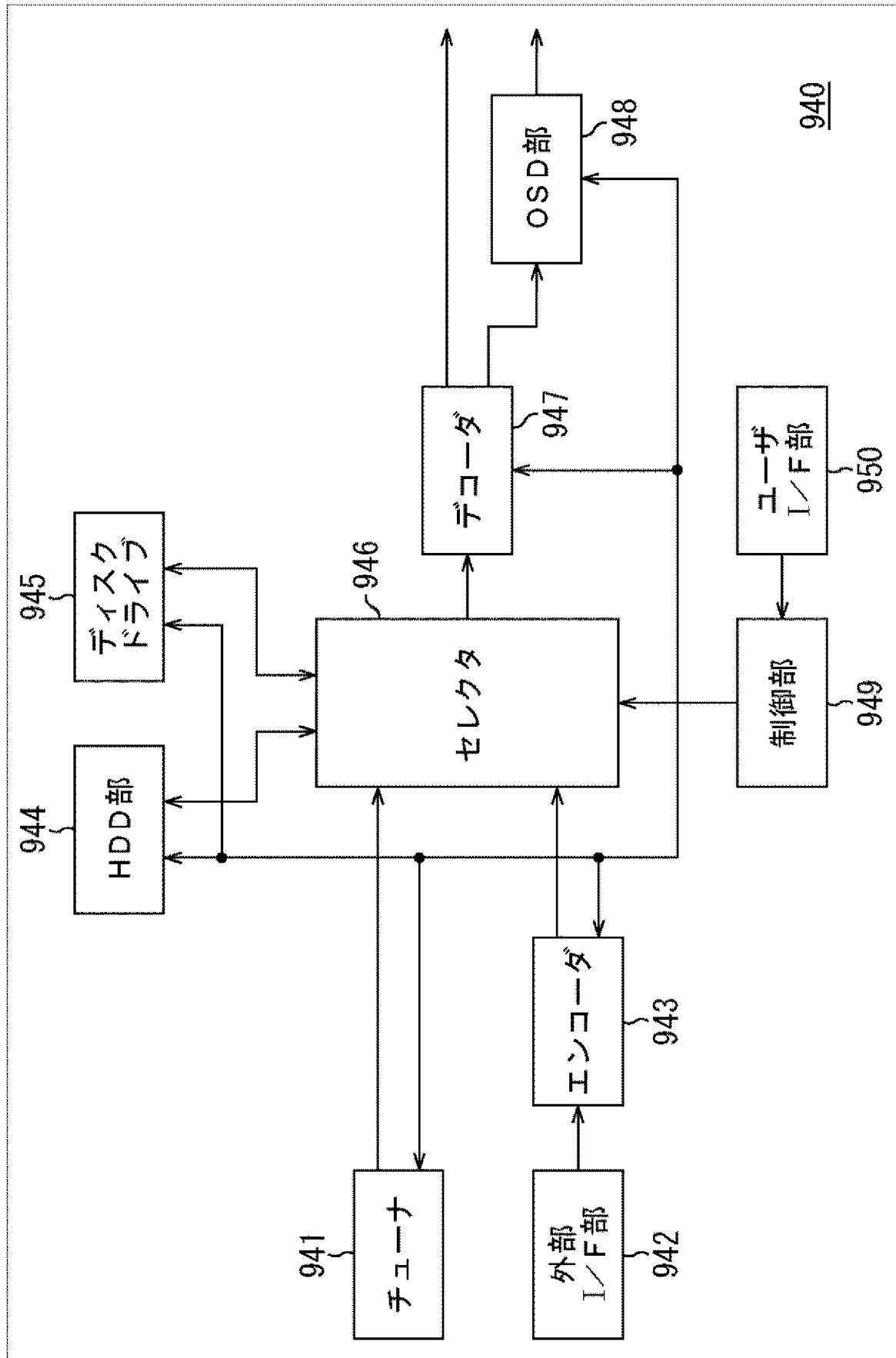
[図64]

図64



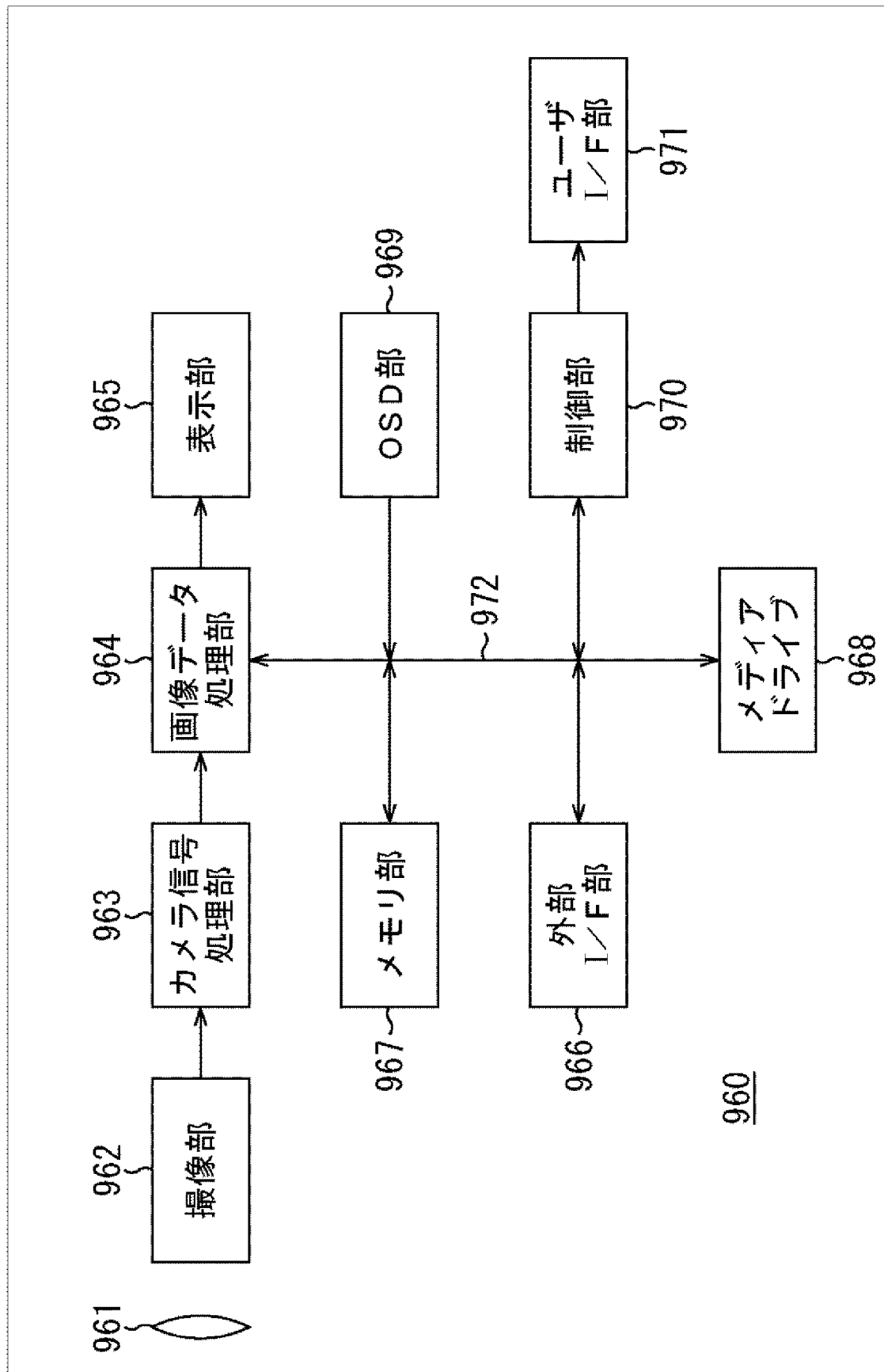
[図65]

図65



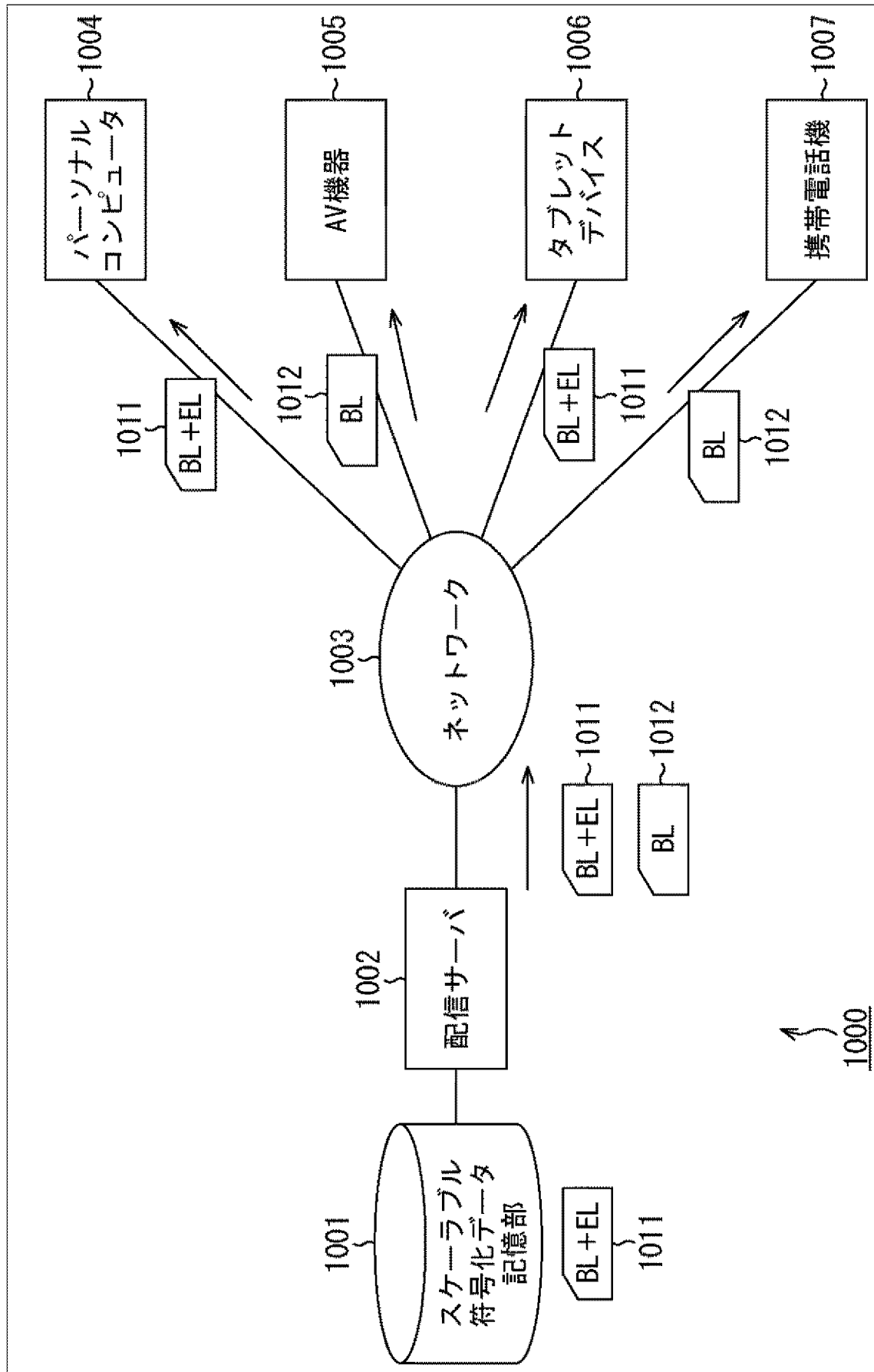
[図66]

図66



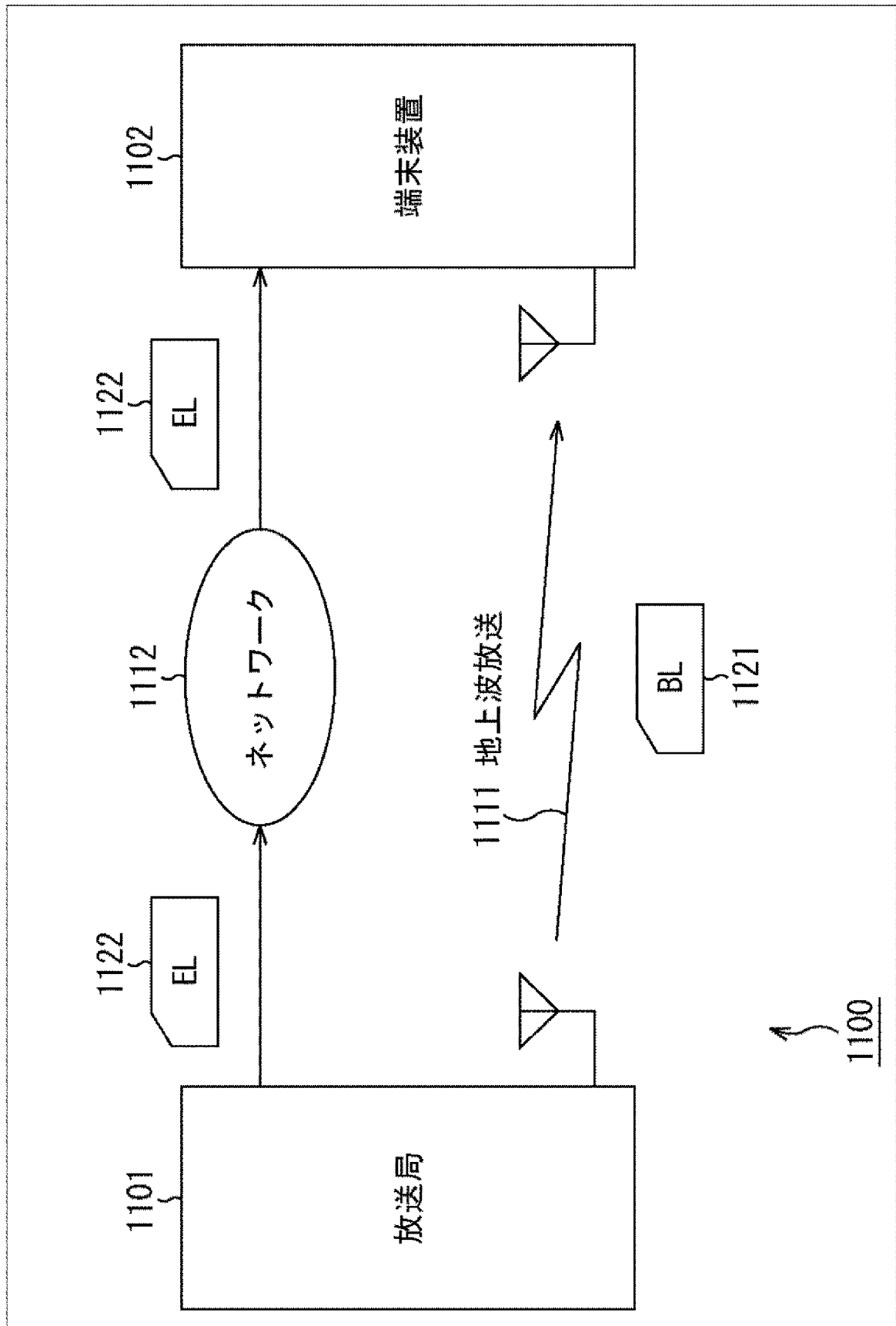
[図67]

図67



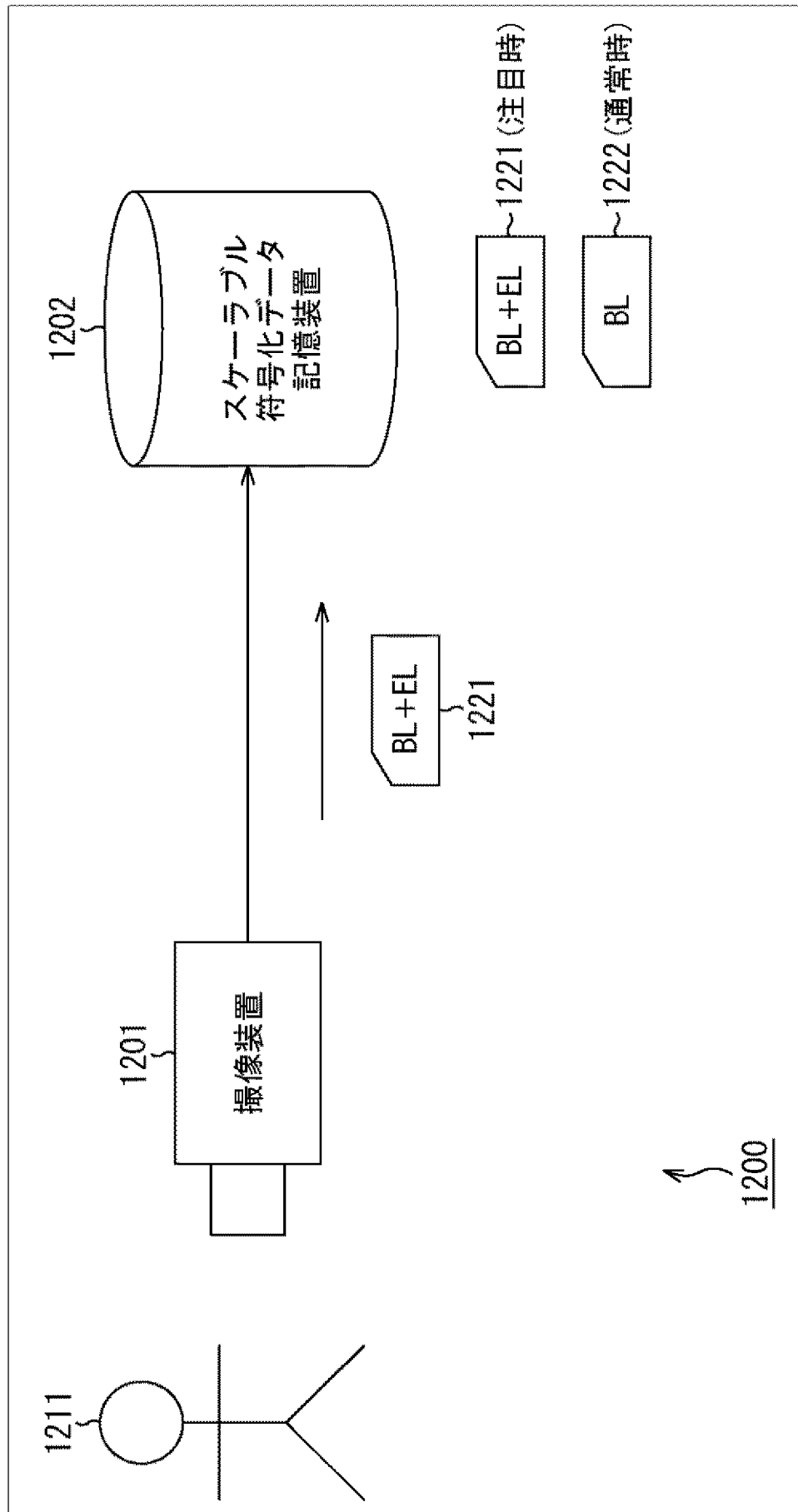
[図68]

図68



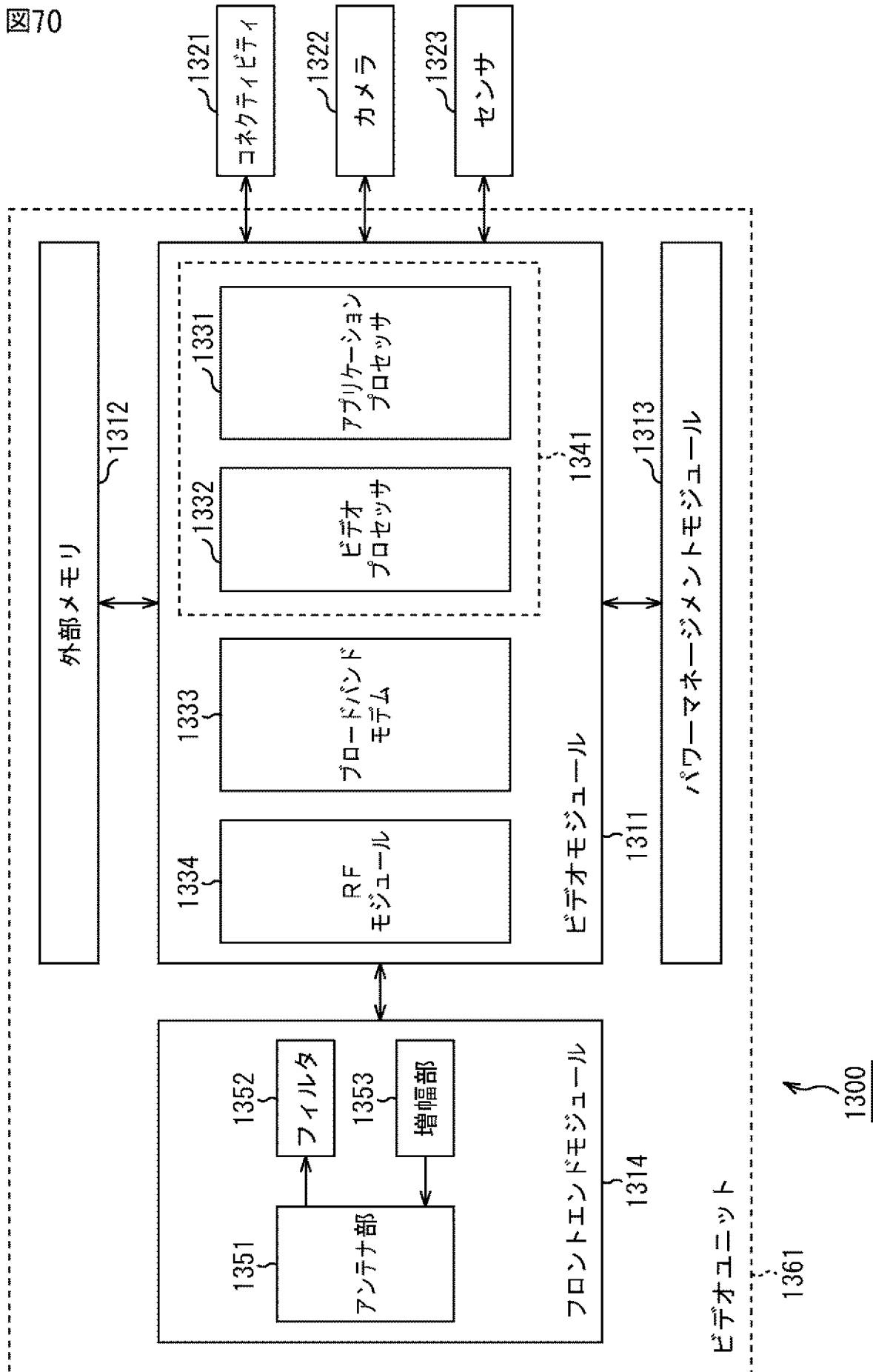
[図69]

図69



[図70]

図70





[図72]

図72

