

FIG. 1

100

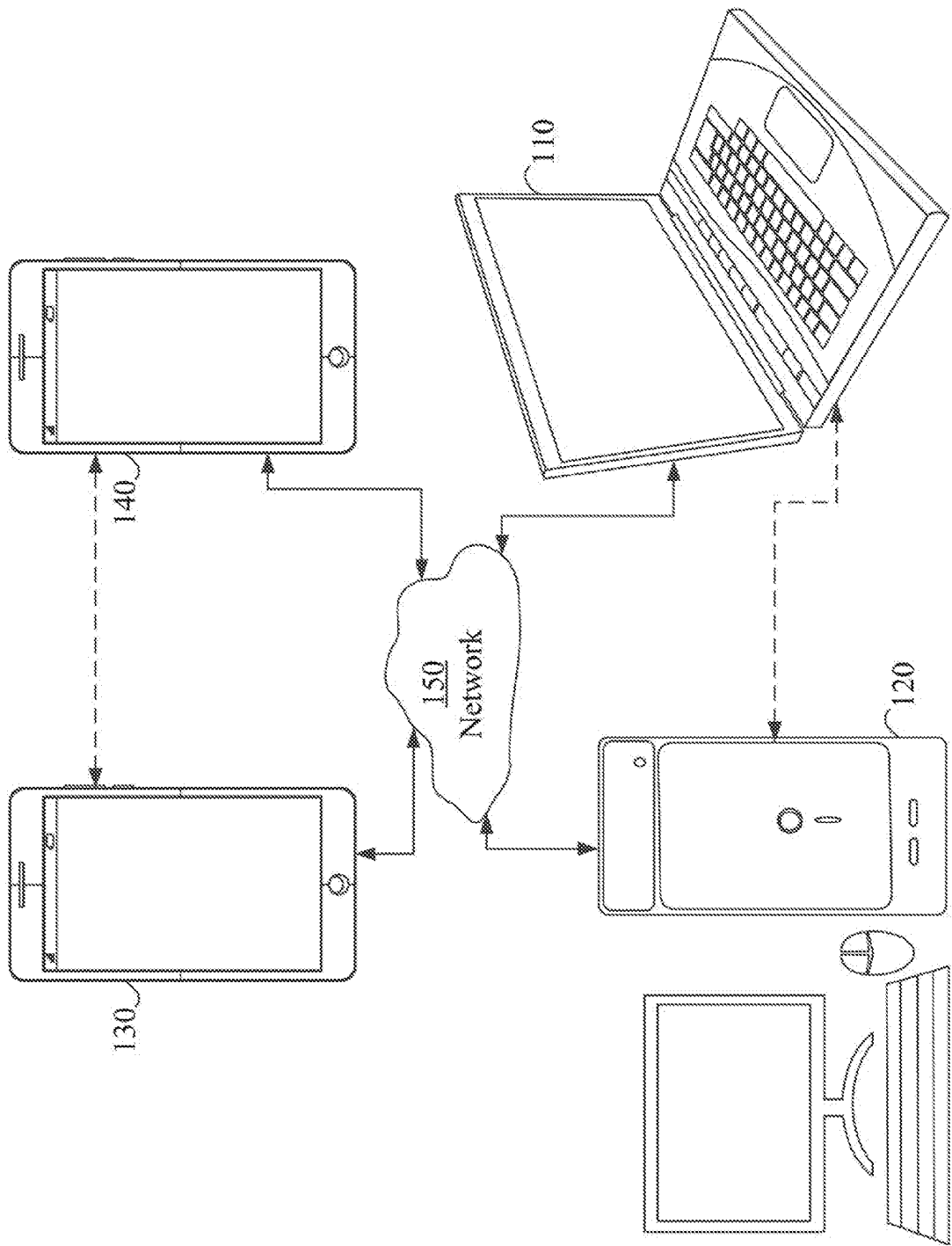


FIG. 2

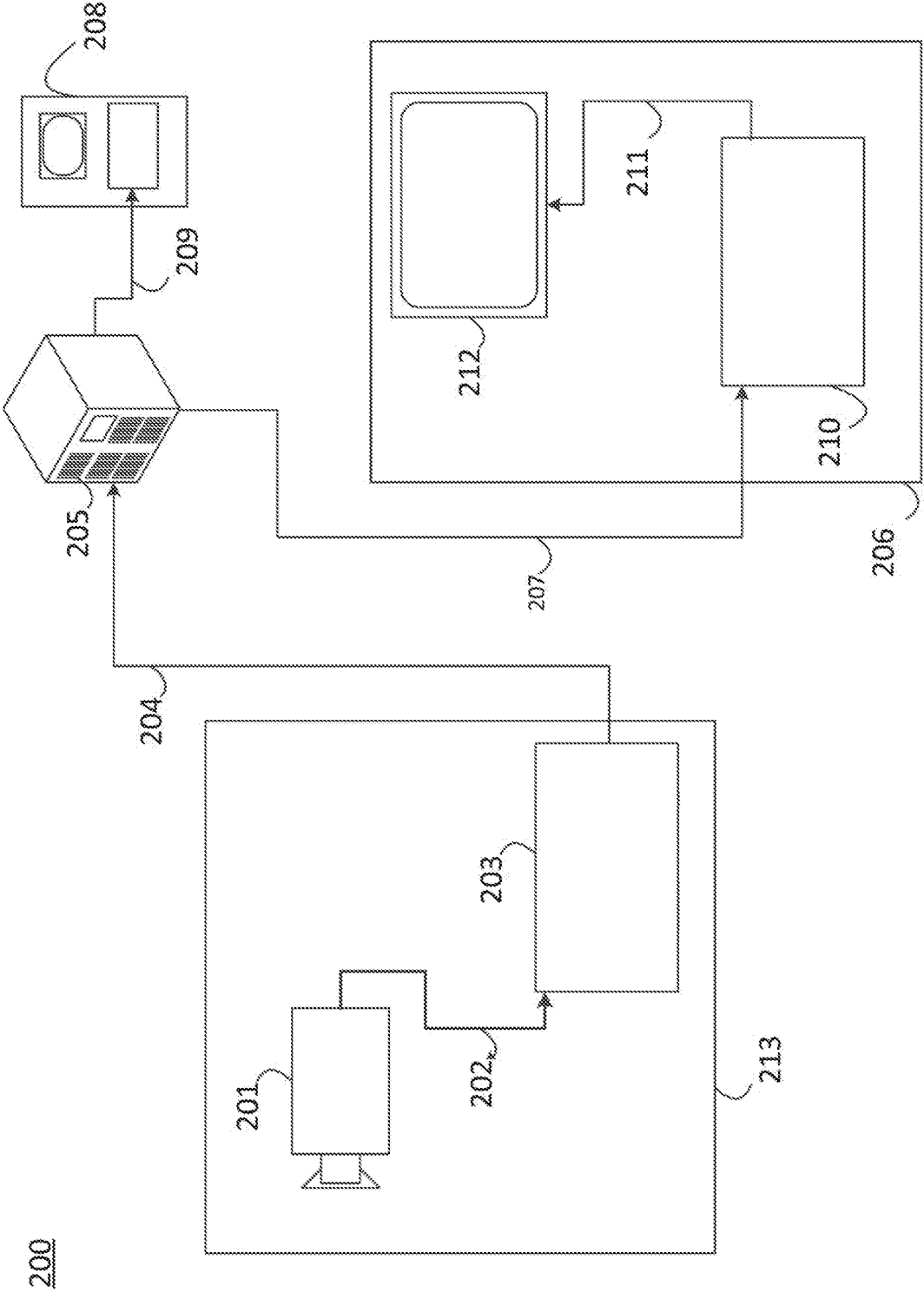


FIG. 3

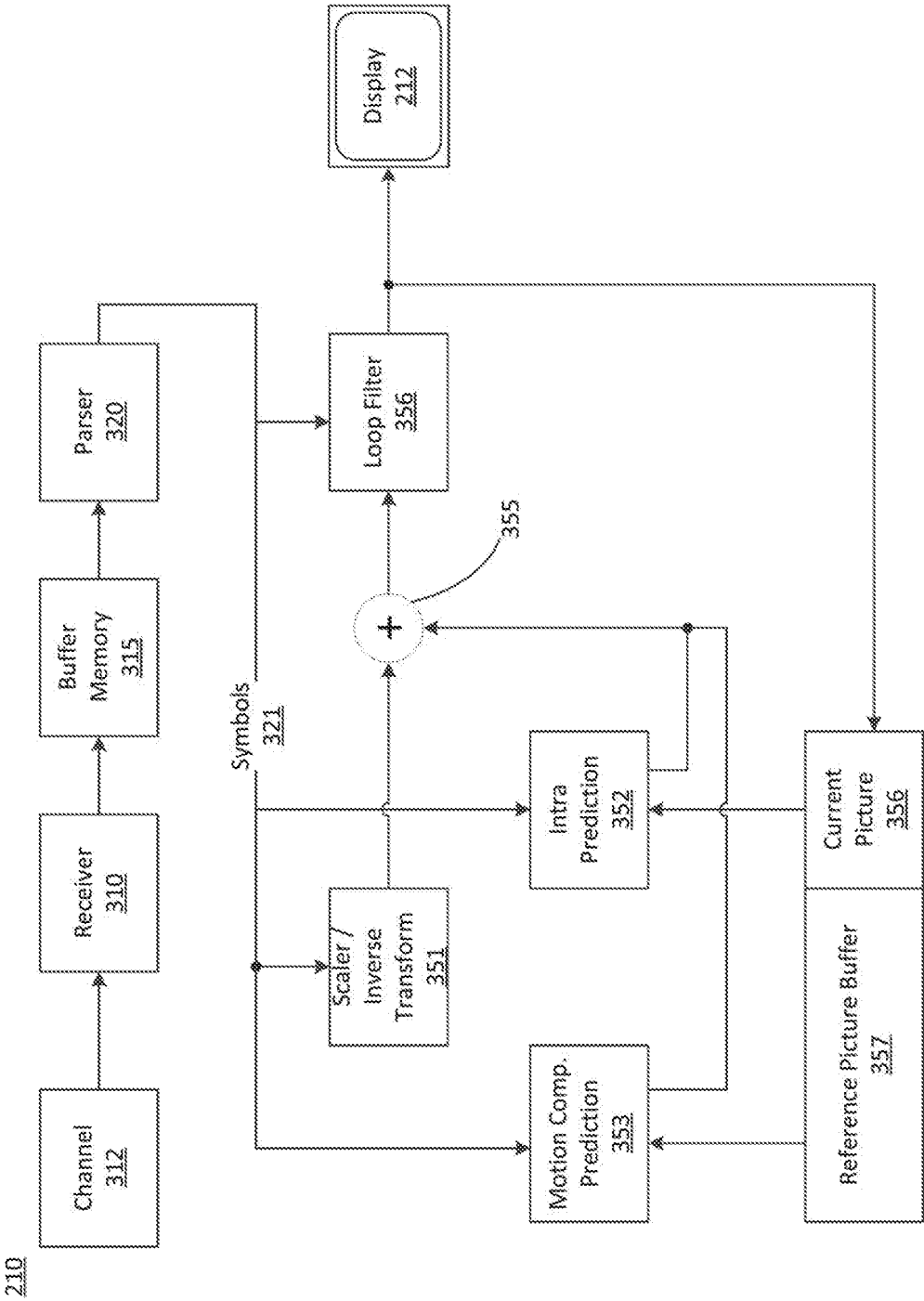


FIG. 4

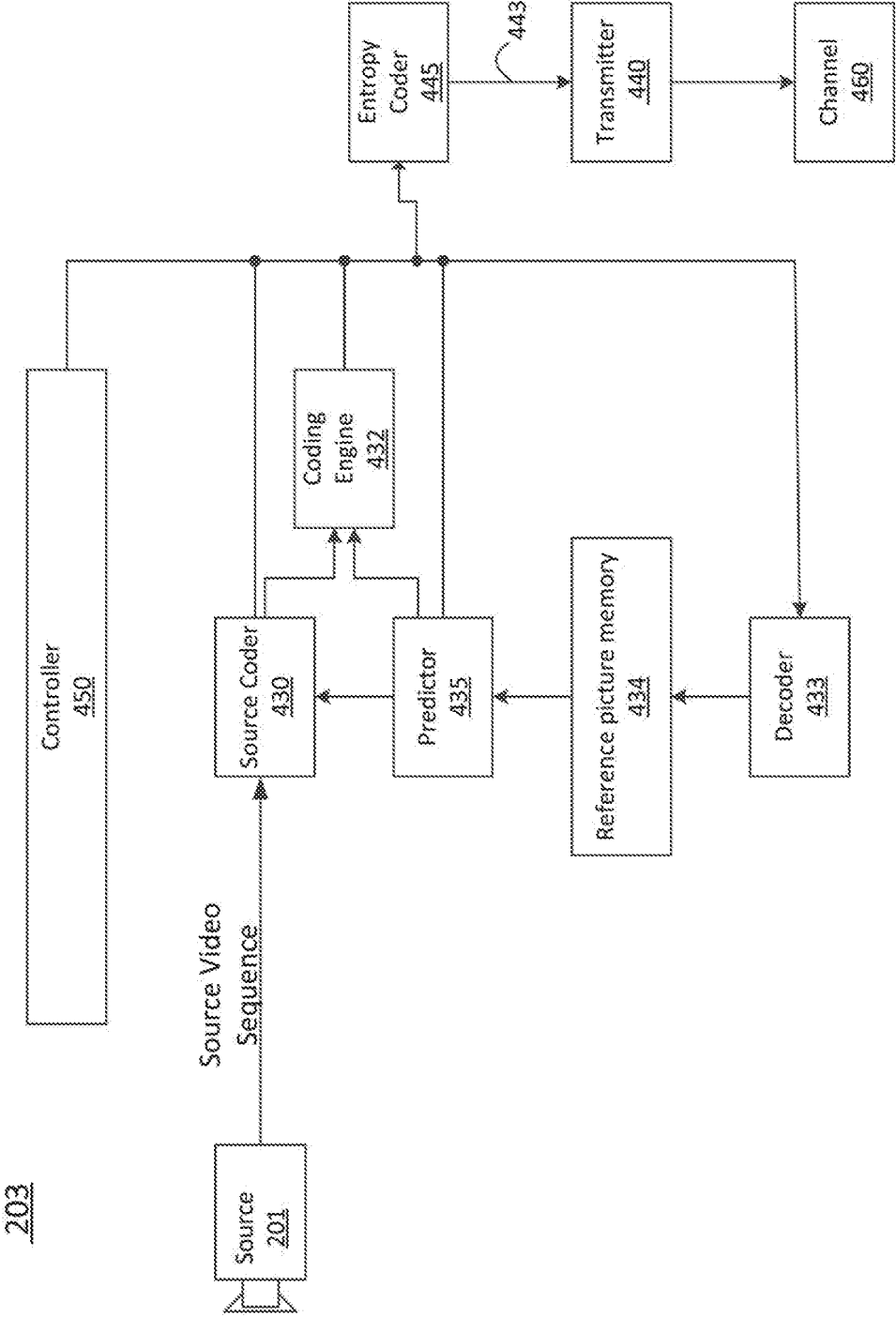


FIG. 5A

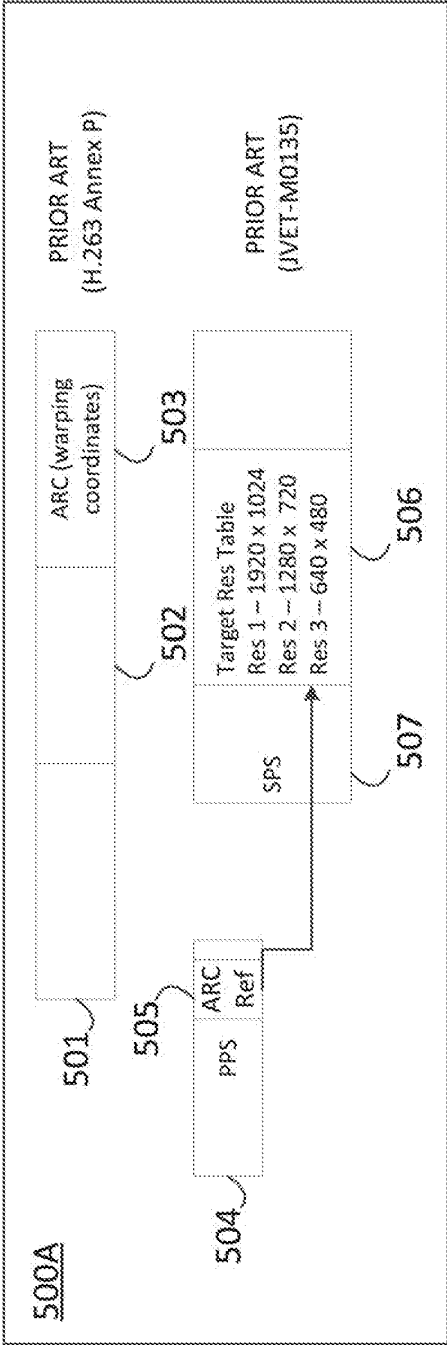


FIG. 5B

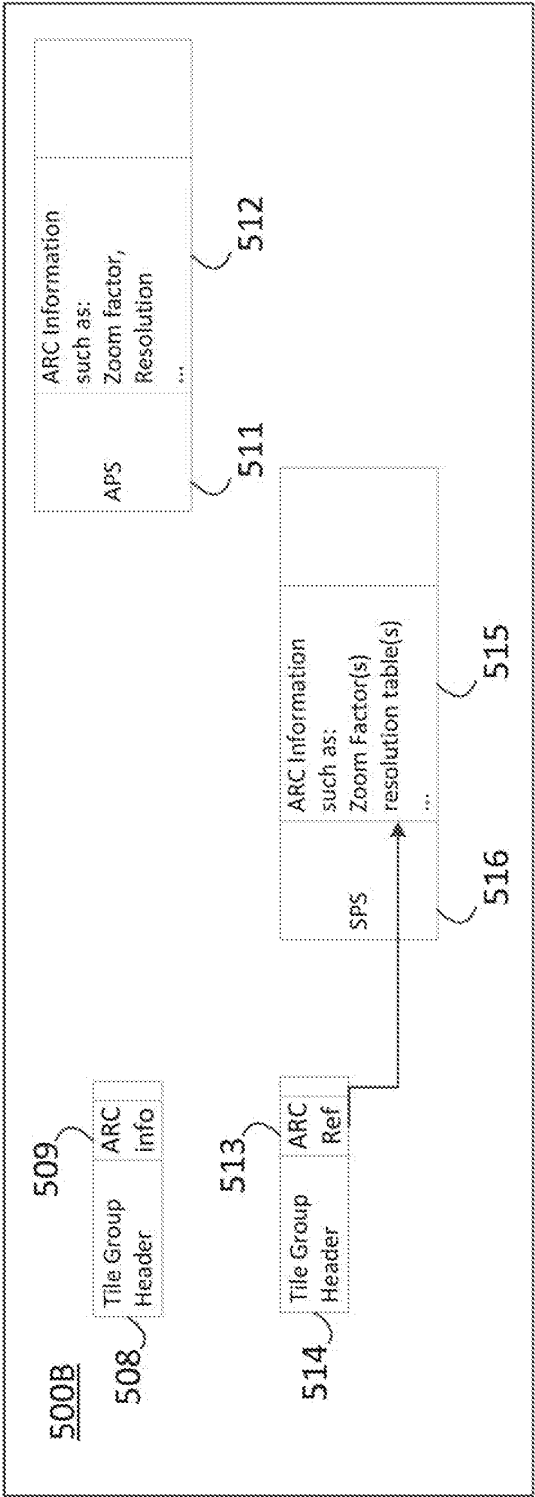


Fig. 6

600			
601	tile_group_header() {		
	...		
603	if(adaptive_pic_resolution_change_flag) {		
602	dec_pic_size_idx		u(1)
	}		
	...		
	}		

610	seq_parameter_set_rbsp() {		Descriptor
	...		
611	adaptive_pic_resolution_change_flag		u(1)
612	if(adaptive_pic_resolution_change_flag) {		
	output_pic_width_in_luma_samples		ue(v)
613	output_pic_height_in_luma_samples		ue(v)
614	reference_pic_size_present_flag		u(1)
	if(reference_pic_size_present_flag)		
	{		
	reference_pic_width_in_luma_samples		ue(v)
615	reference_pic_height_in_luma_samples		ue(v)
	}		
616	num_dec_pic_size_in_luma_samples_minus1		ue(v)
	for(i = 0; i <= num_dec_pic_size_in_luma_samples_minus1; i++) {		
	dec_pic_width_in_luma_samples[i]		ue(v)
617	dec_pic_height_in_luma_samples[i]		ue(v)
	}		
	}		
	...		
	}		

FIG. 7

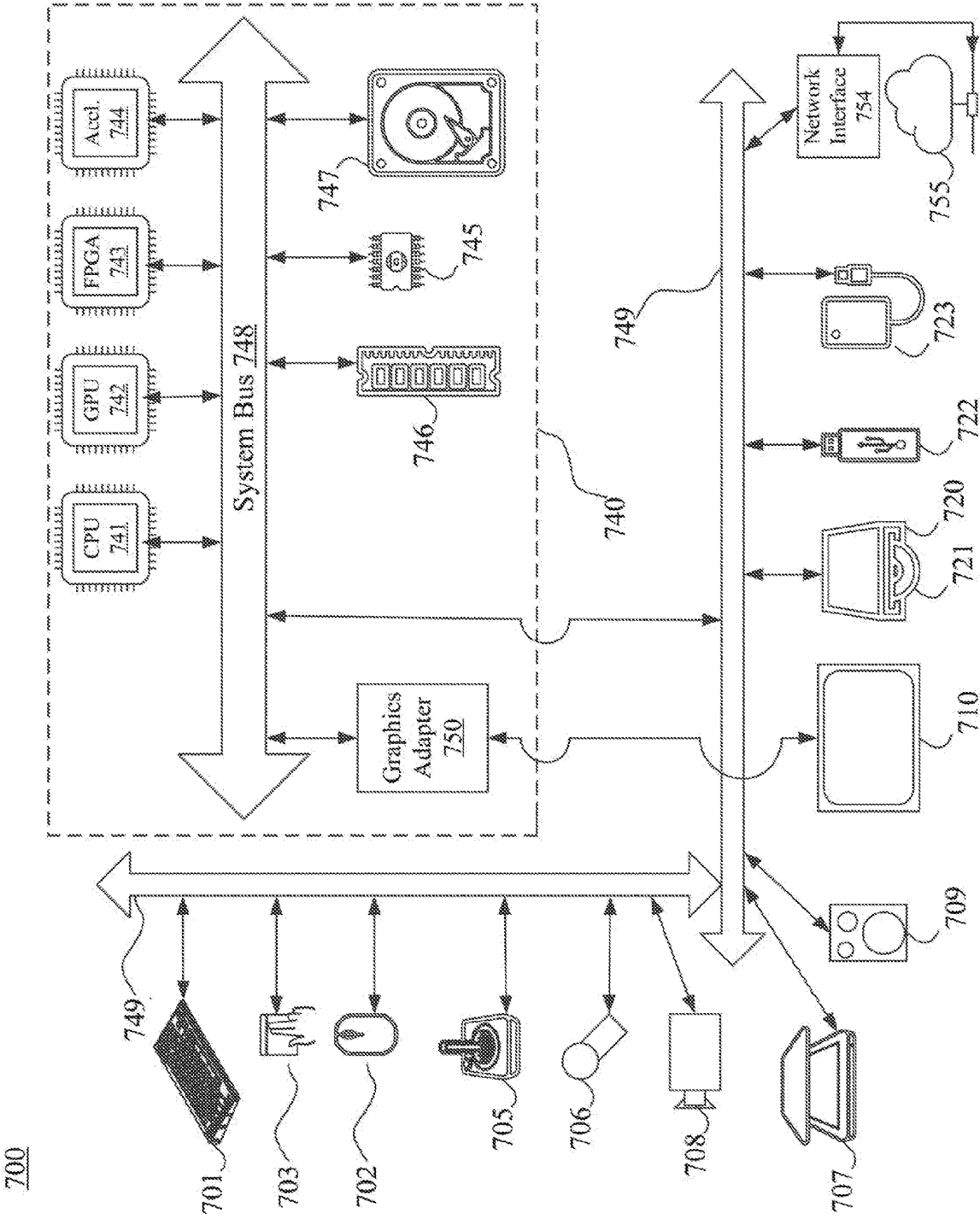
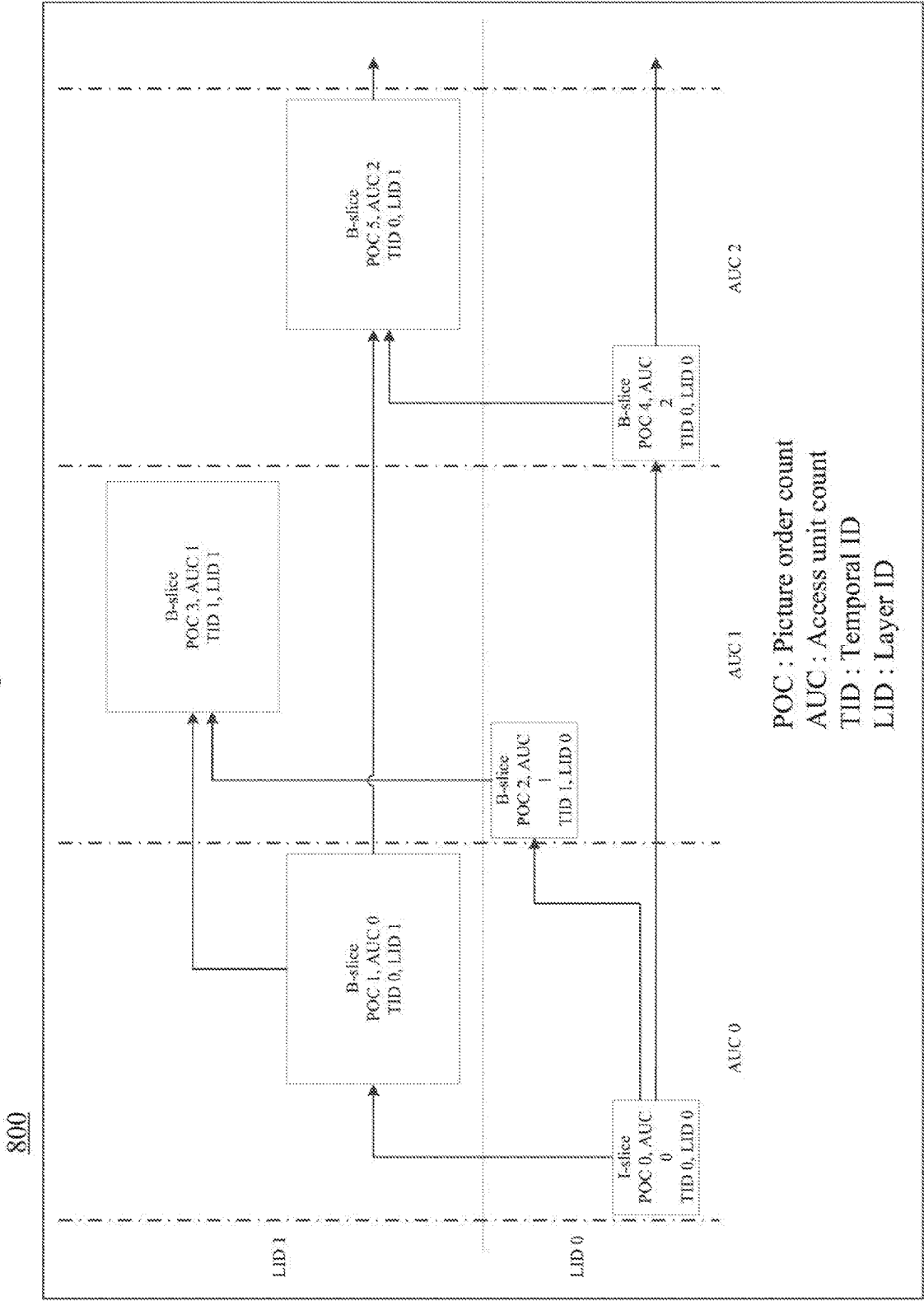


Fig. 8



900

Fig. 9

video_parameter_set_rbsp() {	Descriptor
vps_video_parameter_set_id	u(4)
vps_max_layers_minus1	u(8)
for(i = 0; i <= vps_max_layers_minus1; i++) {	
vps_included_layer_id[i]	u(7)
vps_reserved_zero_bit	u(1)
}	
vps_constraint_info_present_flag	u(1)
vps_constant_poc_cycle_per_au	u(1)
if(vps_constant_poc_cycle_per_au)	
vps_poc_cycle_au	u(8)
...	
}	

slice_header() {	Descriptor
slice_pic_parameter_set_id	ue(v)
if(!rect_slice_flag NumBricksInPic > 1)	
slice_address	u(v)
if(!rect_slice_flag && !single_brick_per_slice_flag)	
num_bricks_in_slice_minus1	ue(v)
slice_type	ue(v)
if(!NalUnitType == GRA_NUT)	
recovery_poc_cnt	se(v)
slice_pic_order_cnt_lsb	u(v)
...	
if(!vps_constant_poc_cycle_per_au)	
slice_poc_cycle_au	u(8)
...	
}	

Fig. 10

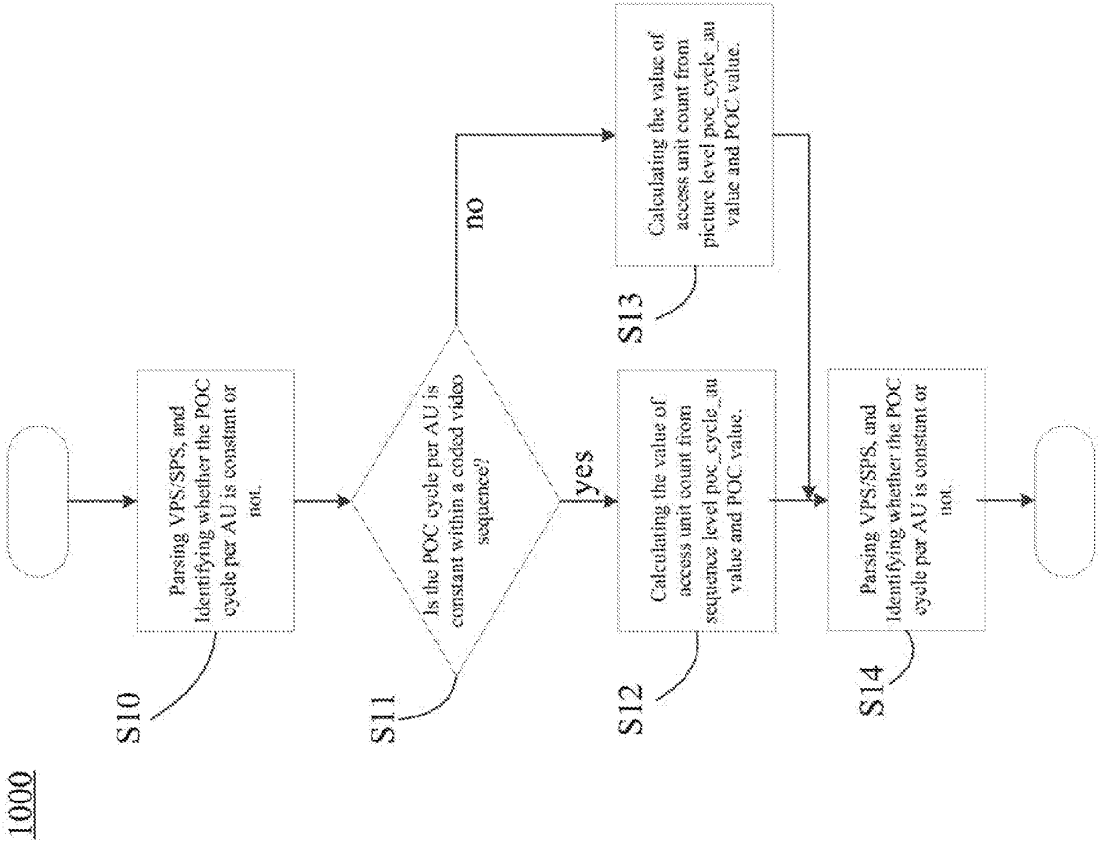


FIG. 11

1100

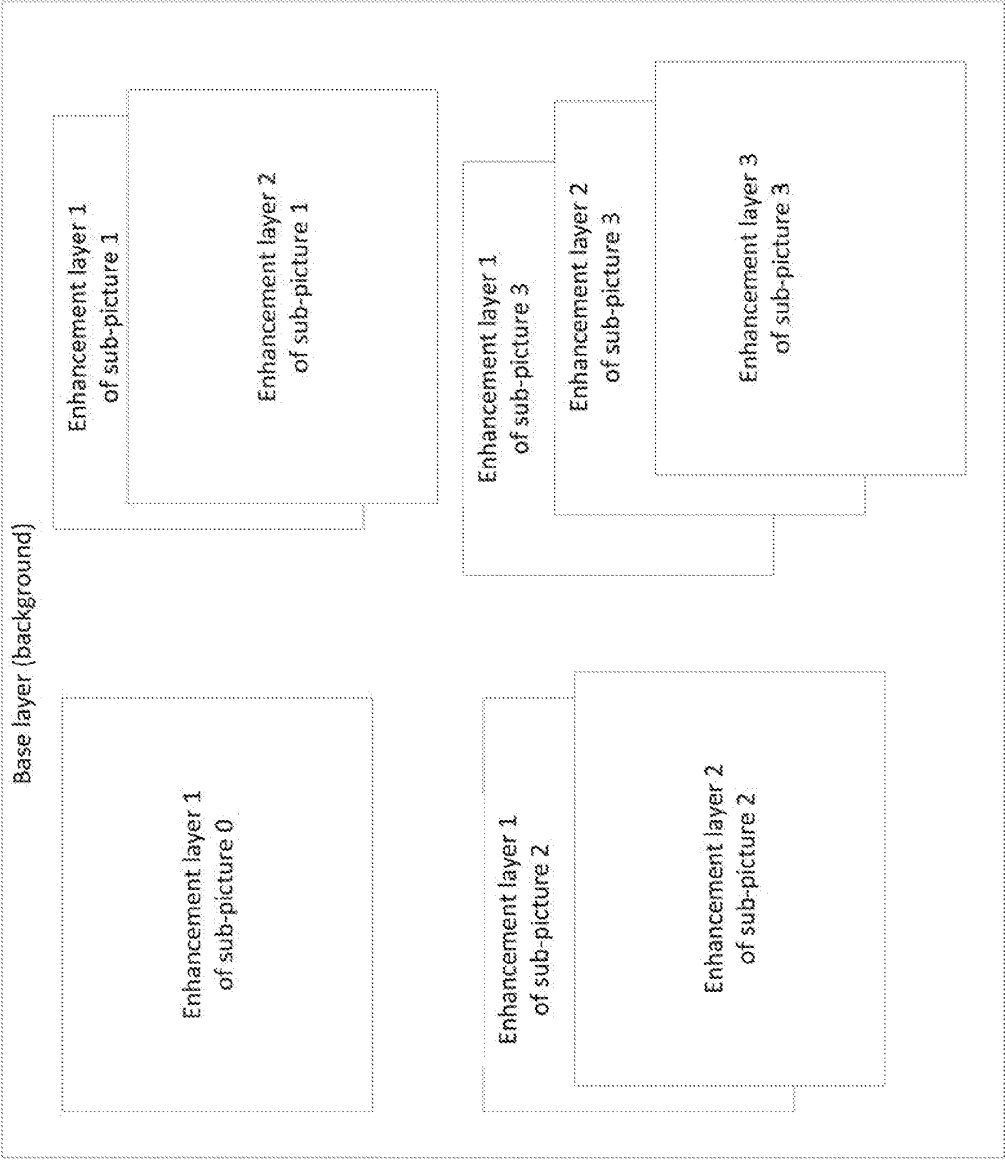


FIG. 12

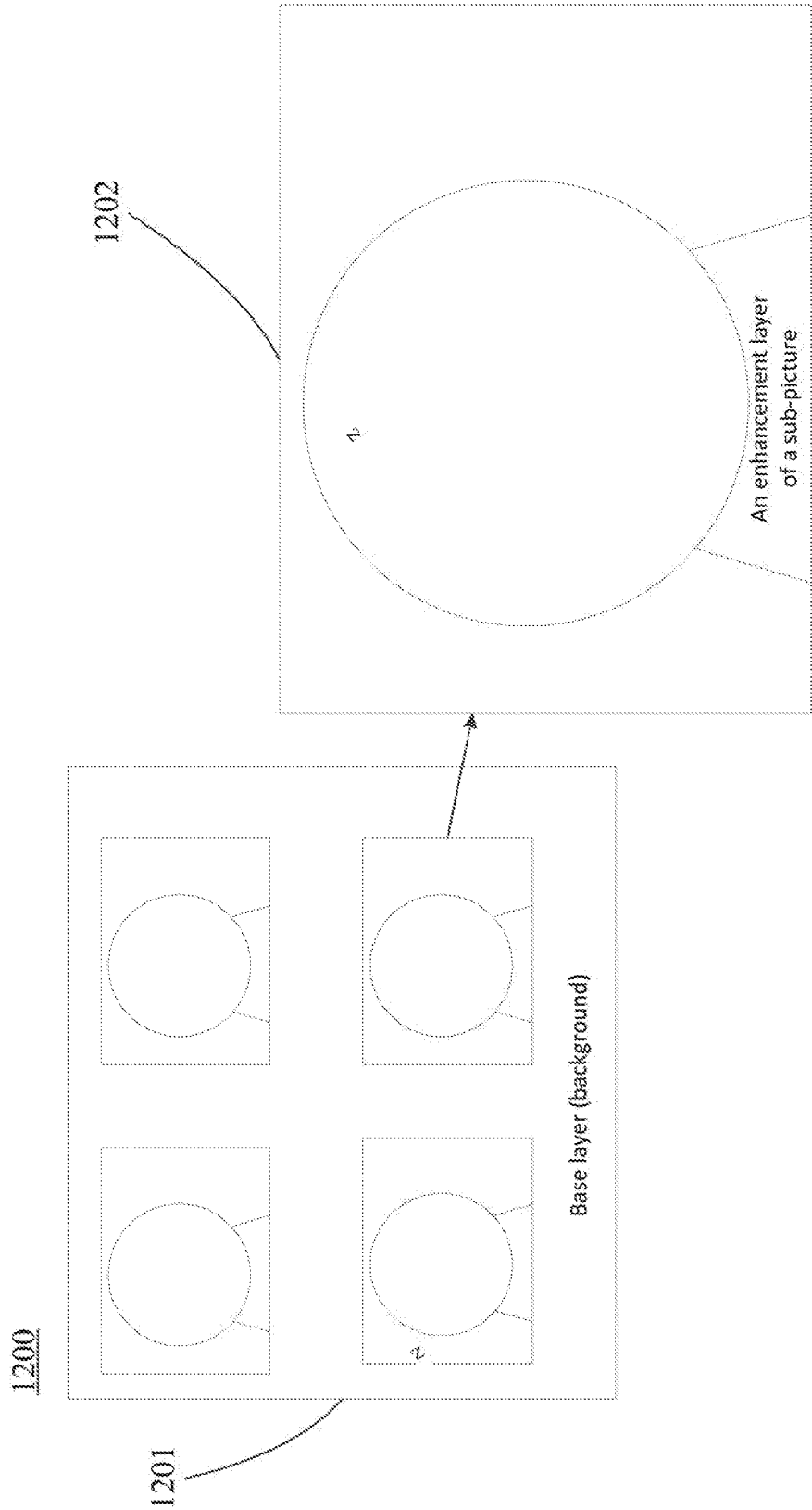


Fig. 13

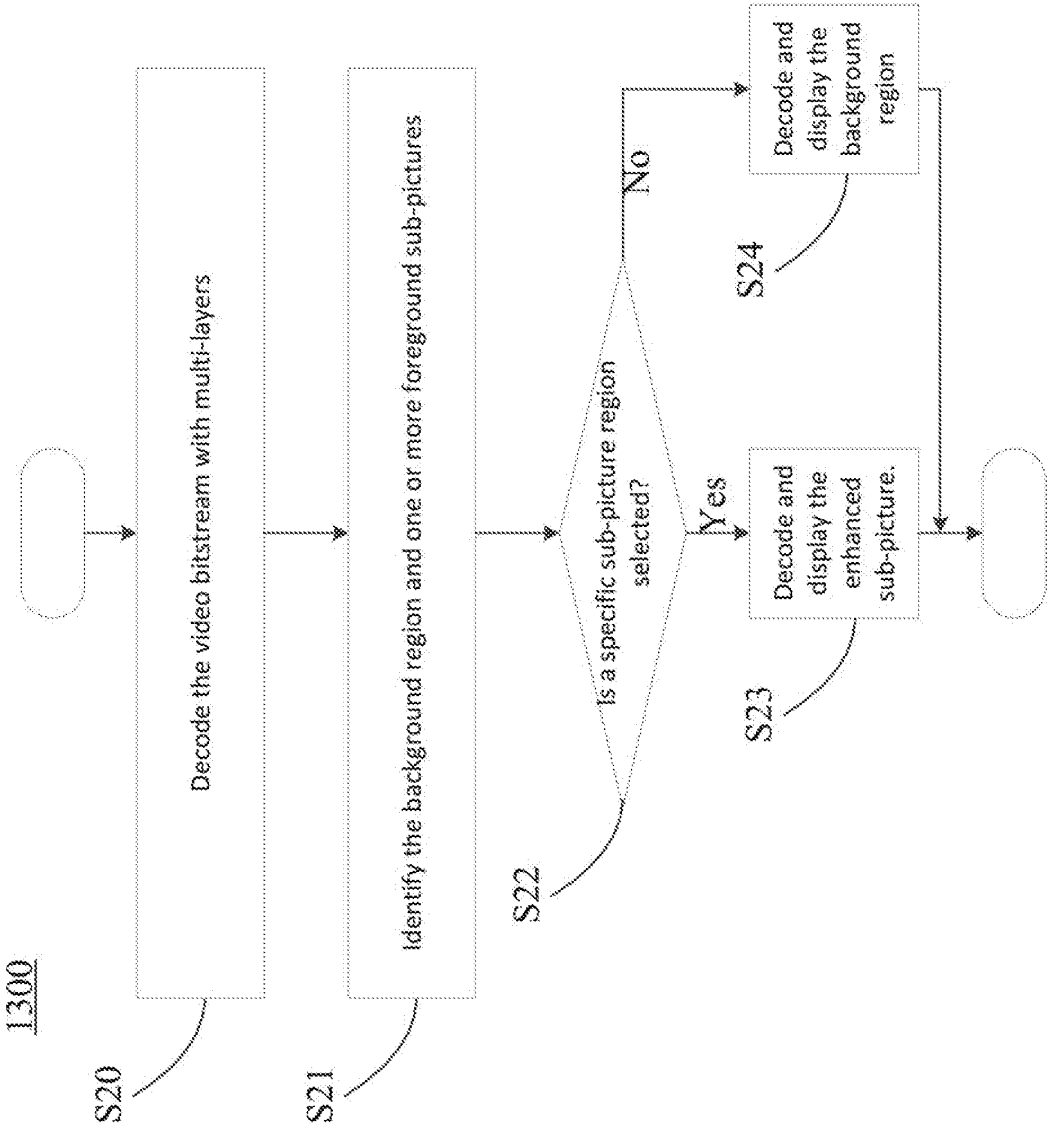


Fig. 14

1400

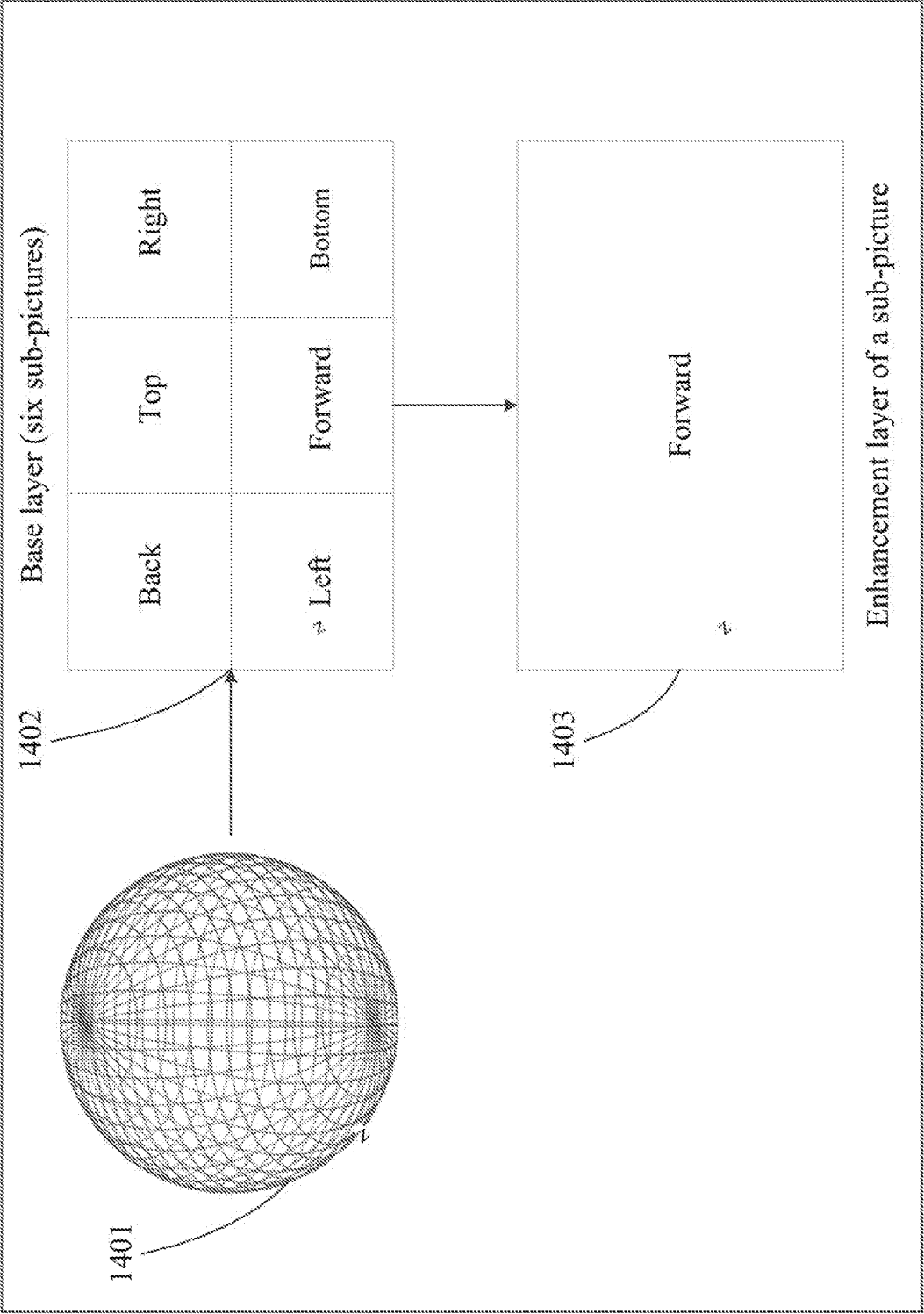
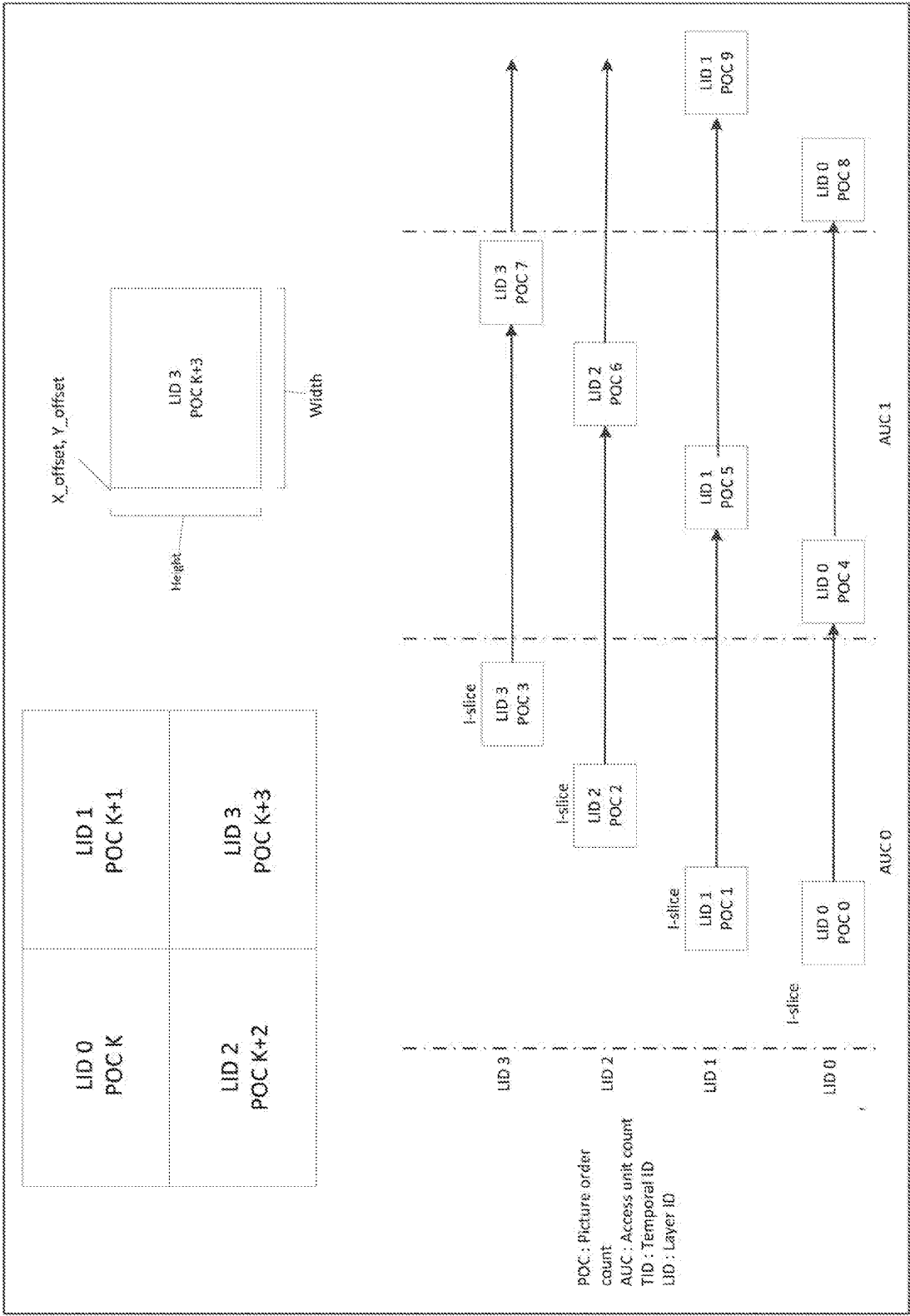


Fig. 15

1500



19

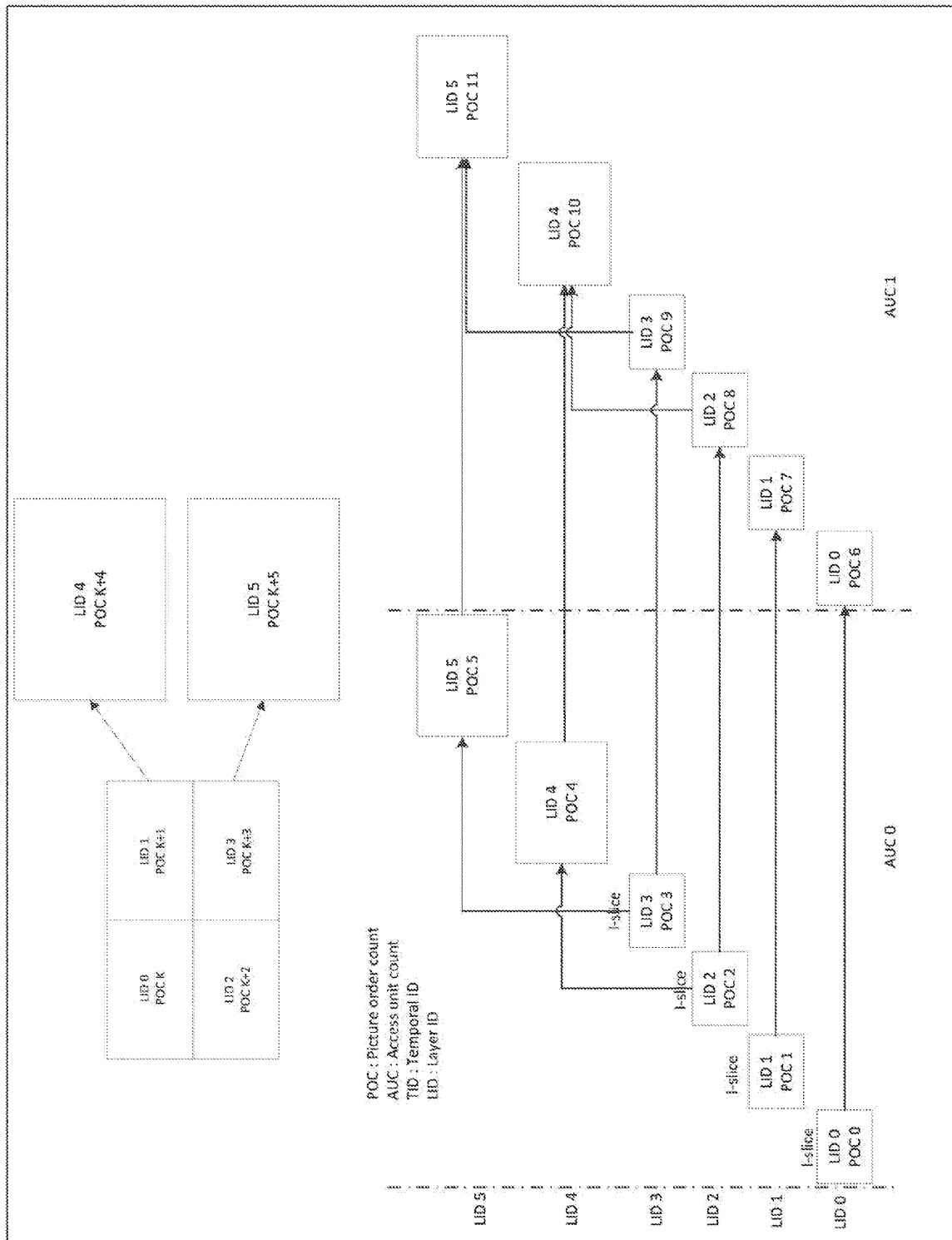


Fig. 17

1700

video_parameter_set_rbsp() {	Descriptor
vps_video_parameter_set_id	u(4)
vps_max_layers_minus1	u(8)
for(i = 0; i <= vps_max_layers_minus1; i++) {	
vps_included_layer_id[i]	u(7)
vps_reserved_zero_bit	u(1)
}	
...	
vps_sub_picture_dividing_flag	u(1)
if(vps_sub_picture_dividing_flag)	
vps_full_pic_width_in_luma_samples	ue(v)
vps_full_pic_height_in_luma_samples	ue(v)
}	
...	
}	

seq_parameter_set_rbsp() {	Descriptor
sps_decoding_parameter_set_id	u(4)
sps_video_parameter_set_id	u(4)
sps_max_sub_layers_minus1	u(3)
...	
pic_width_in_luma_samples	ue(v)
pic_height_in_luma_samples	ue(v)
if(vps_sub_picture_dividing_flag) {	
pic_offset_x	se(v)
pic_offset_y	u(v)
}	
...	
}	

Fig. 18

1800

sub region partitioning info(payloadSize) {		Descriptor
num_sub_region		ue(v)
num_layers		ue(v)
for(i = 0; i <= num_layers; i++) {		
layer_id[i]		ue(v)
for(i = 1; i < num_layers; i++) {		
for(i = 0; j < i; j++) {		
direct_dependency_flag		u(1)
for(i = 0; i < num_sub_region[i]; j++) {		
num_layers_for_region[i]		ue(v)
for(i = 0; j < num_layers_for_region[i]; j++) {		
sub_region_layer_id[i][j]		ue(v)
sub_region_offset_x[i]		ue(v)
sub_region_offset_y[i]		ue(v)
sub_region_width[i]		ue(v)
sub_region_height[i]		ue(v)
}		
...		
}		

Fig. 19

1900

	Descriptor
video parameter set rbsp() {	
...	
vps_max_layers_minus1	u(6)
num_output_layer_sets	ue(v)
num_profile_tier_level	ue(v)
for(i = 0; i < num_profile_tier_level; i++)	
profile_tier_level(vps_max_sub_layers_minus1)	
for(i = 0; i < num_output_layer_sets; i++)	
for(j = 0; j < NumLayersInList[i]; j++) {	
output_layer_flag[i][j]	u(1)
profile_tier_level_idx[i][j]	u(v)
}	
...	
}	

Fig. 20

2000

	Descriptor
video parameter set rsp() {	
...	
vps_max_layers_minus1	u(6)
if(vps_max_layers_minus1 > 0) {	
num_output_layer_sets	ue(v)
num_profile_tier_level	ue(v)
}	
for(i = 0; i < num_profile_tier_level; i++)	
profile_tier_level[vps_max_sub_layers_minus1]	
for(i = 0; i < num_output_layer_sets; i++) {	
vps_output_layers_mode[i]	u(2)
vps_ptl_signal_flag[i]	u(1)
for(j = 0; j < NumLayersInList[i]; j++) {	
if(vps_output_layers_mode[i] == 2)	
output_layer_flag[i][j]	u(1)
if(vps_ptl_signal_flag[i])	
profile_tier_level_idx[i][j]	u(v)
}	
}	
...	
}	

Fig. 21

2100

video_parameter_set_rbsp() {	Descriptor
...	
vps_max_layers_minus1	u(6)
if(vps_max_layers_minus1 > 0) {	
num_output_layer_sets	ue(v)
num_profile_tier_level	ue(v)
}	
max_subpics_minus1	u(8)
for(i = 0; i < max_subpics_minus1; i++) {	
sub_pic_id[i]	u(8)
}	
for(i = 0; i < num_profile_tier_level; i++)	
profile_tier_level[vps_max_sub_layers_minus1]	
for(j = 0; j < num_output_layer_sets; j++) {	
vps_output_layers_model[i][j]	u(2)
vps_ptl_signal_flag[i][j]	u(1)
for(j = 0; j < NumLayersInIdList[i][j++]) {	
num_output_subpic_layer[i][j]	ue(v)
for(k = 0; k < num_output_subpic_layer[i][j]; k++)	
sub_pic_id_layer[i][j][k]	u(8)
if(vps_output_layers_model[i][j] == 2)	
output_layer_flag[i][j][k]	u(1)
if(vps_ptl_signal_flag[i][j])	
profile_tier_level_idx[i][j][k]	u(v)
}	
}	
...	
}	

Fig. 22

2200

