

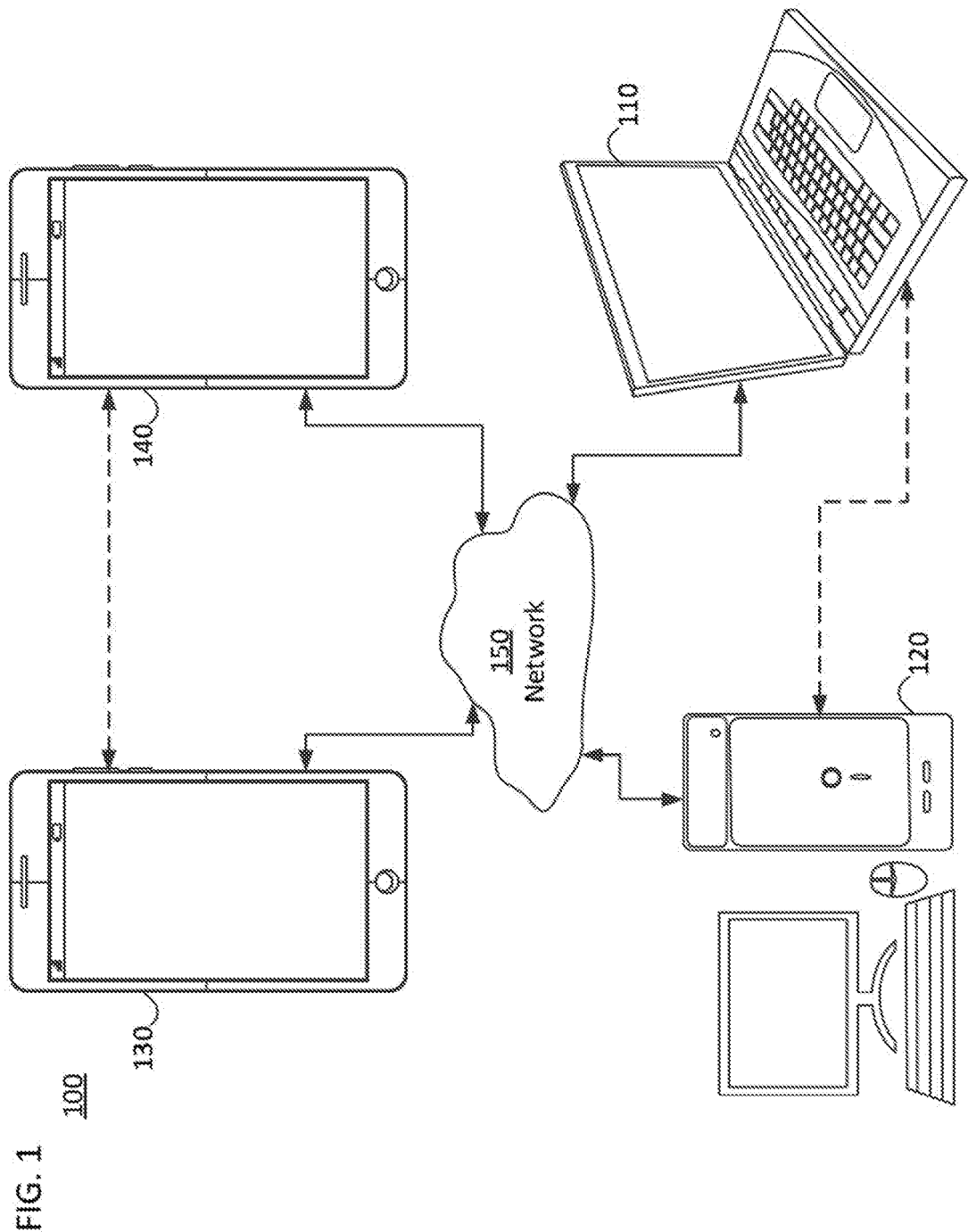
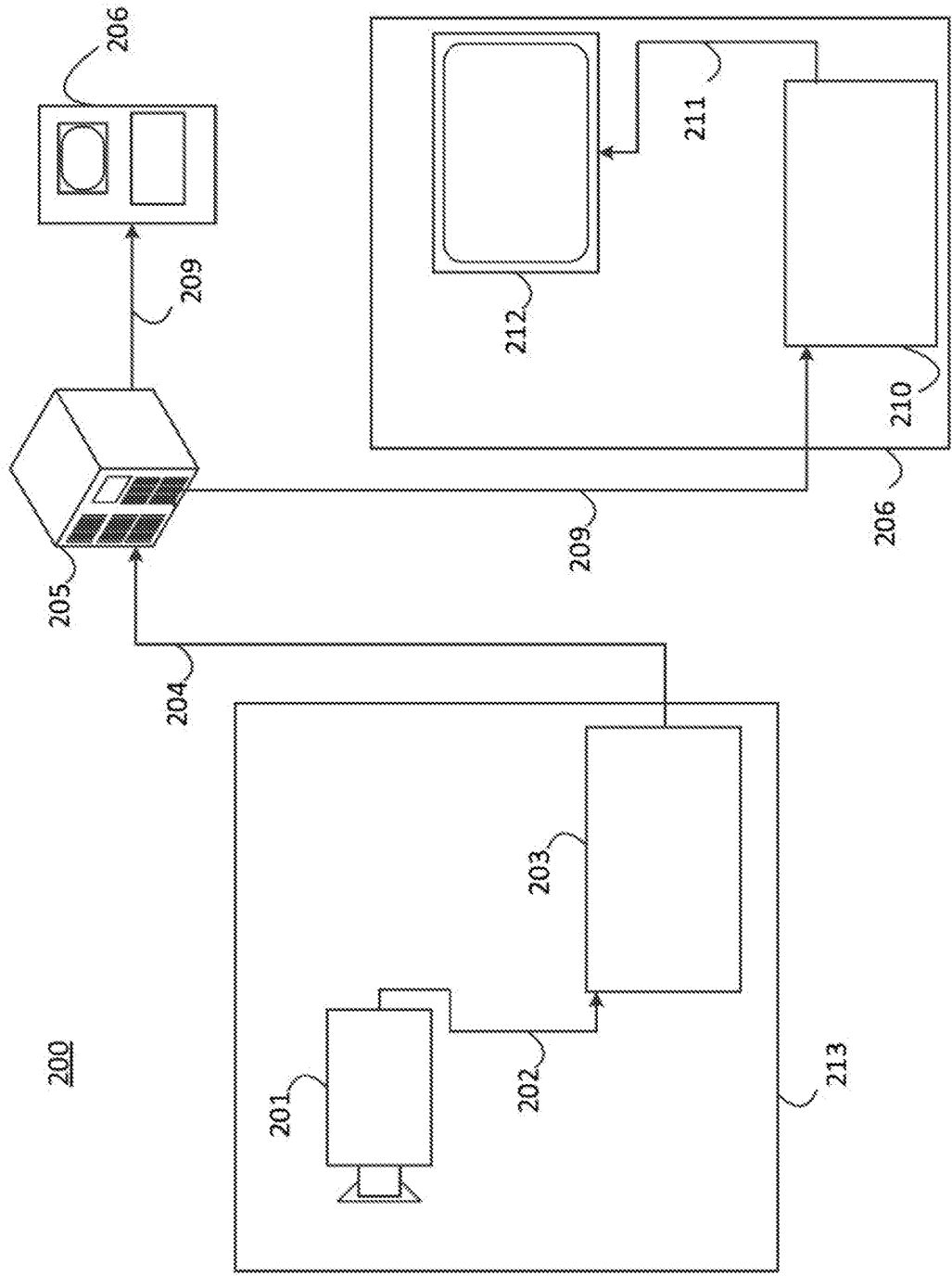


FIG. 2



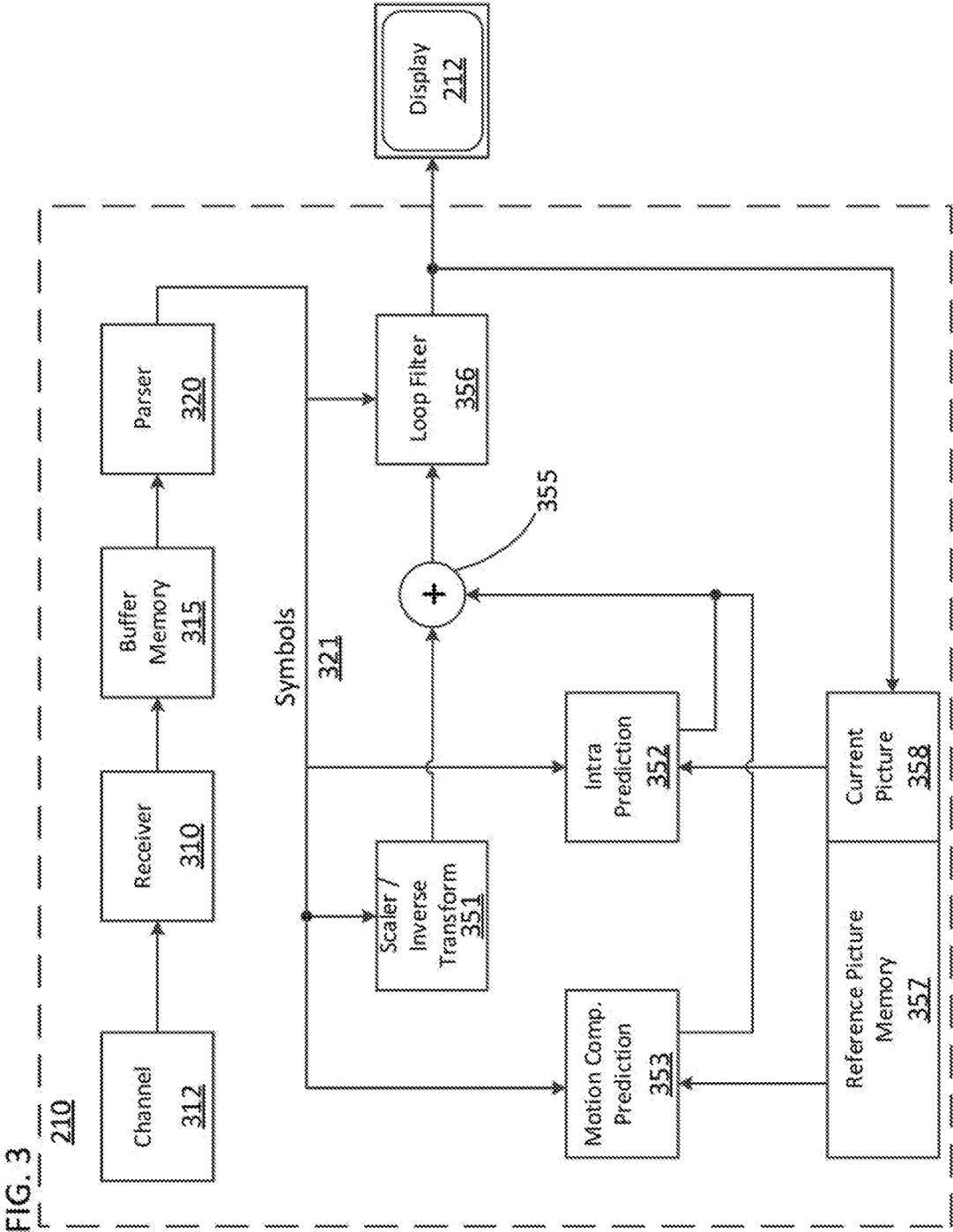


FIG. 4 203

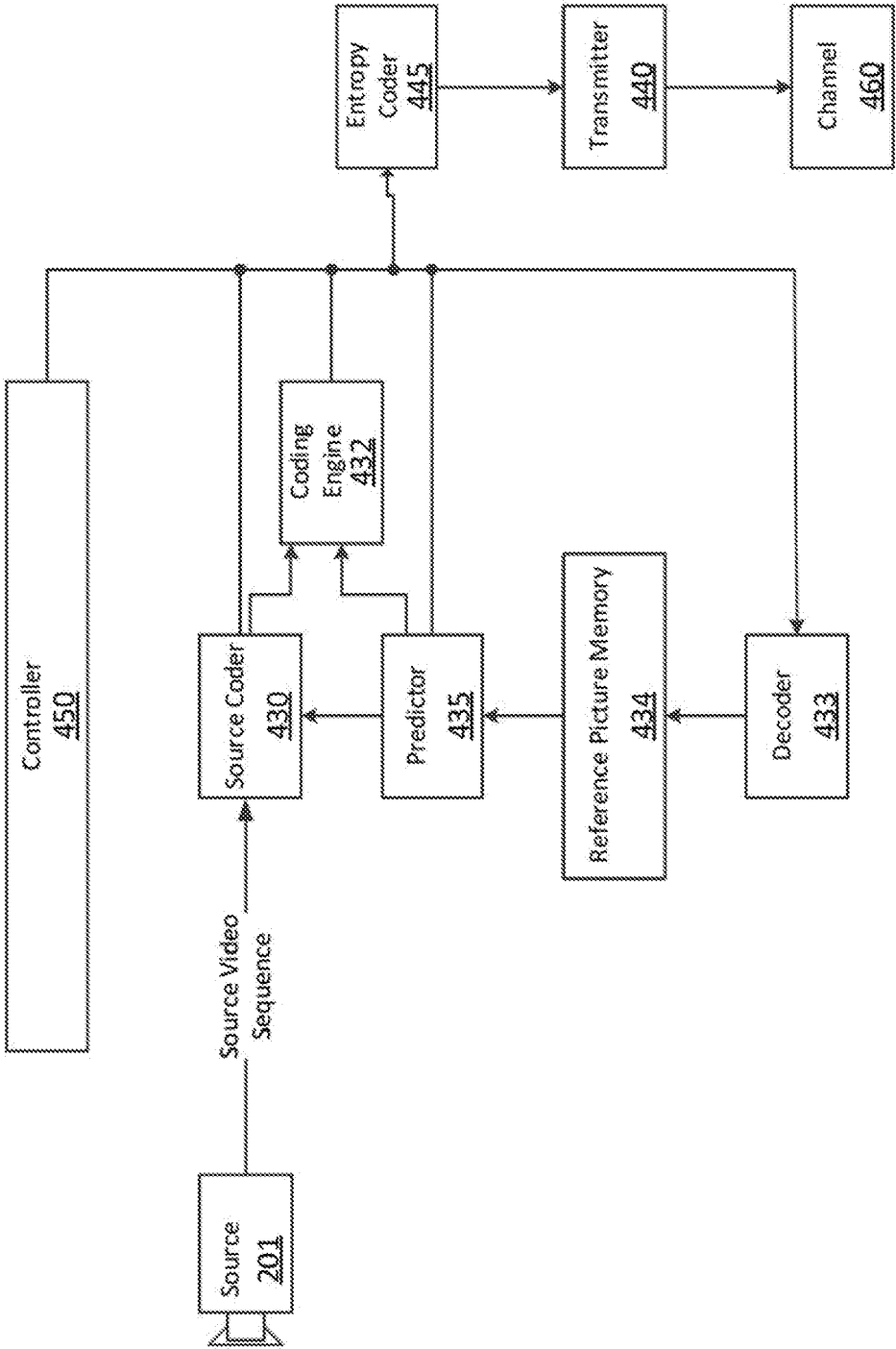


FIG. 5A



FIG. 5B

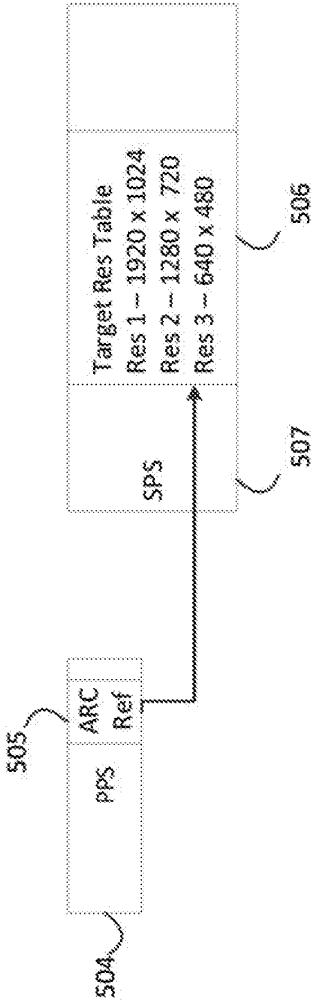


FIG. 6A

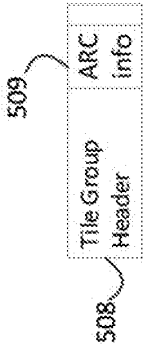


FIG. 6B

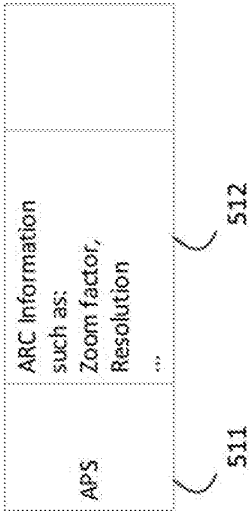


FIG. 6C

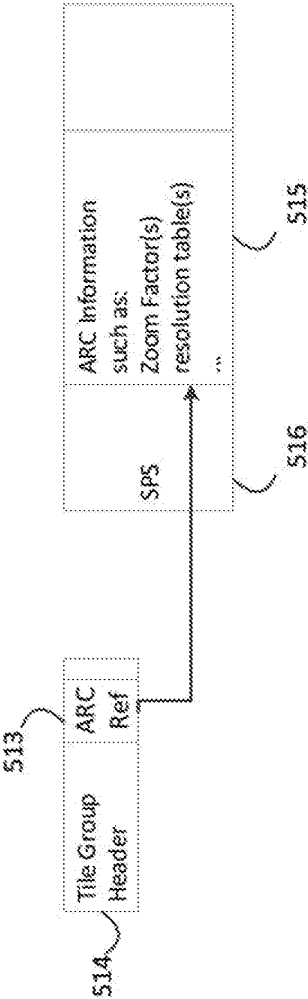
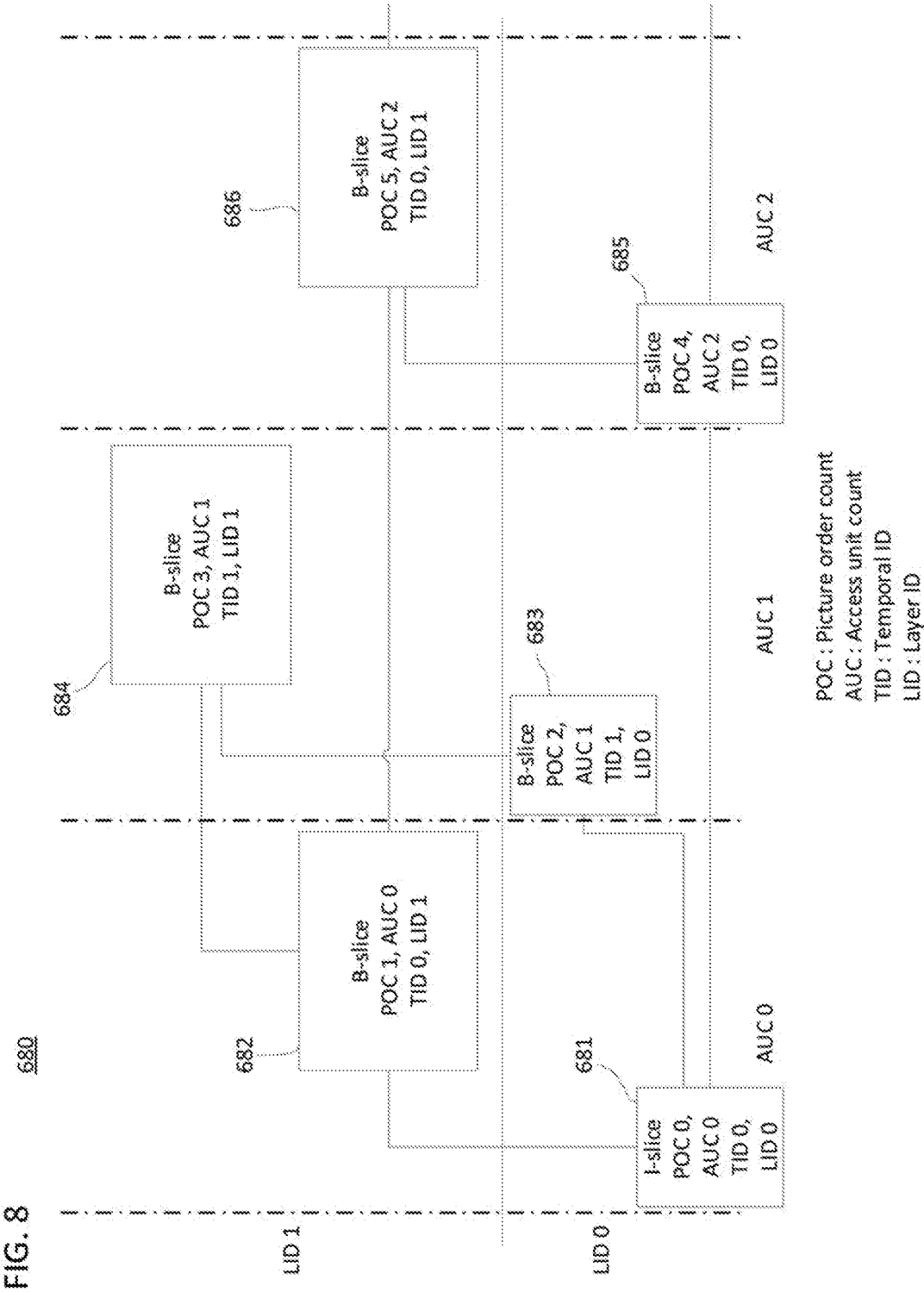


FIG. 7A

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

FIG. 7B

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



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FIG. 9A

630	video_parameter_set_rbsp() { vps_video_parameter_set_id vps_max_layers_minus1 for(i = 0; i <= vps_max_layers_minus1; i++) { vps_included_layer_id[i] vps_reserved_zero_bit } vps_constraint_info_present_flag vps_constant_poc_cycle_per_au if(vps_constant_poc_cycle_per_au) vps_poc_cycle_au ... }	Descriptor u(4) u(8) u(7) u(1) u(1) u(1) u(8)
634		
632		

FIG. 9B

640	slice_header() {	Descriptor
	slice_pic_parameter_set_id	ue(v)
	if (rect_slice_flag NumBricksInPic > 1)	
	slice_address	u(v)
	if (irect_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)
642	...	
	if (!vps_constant_poc_cycle_per_au)	
	slice_poc_cycle_au	u(8)

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FIG. 10

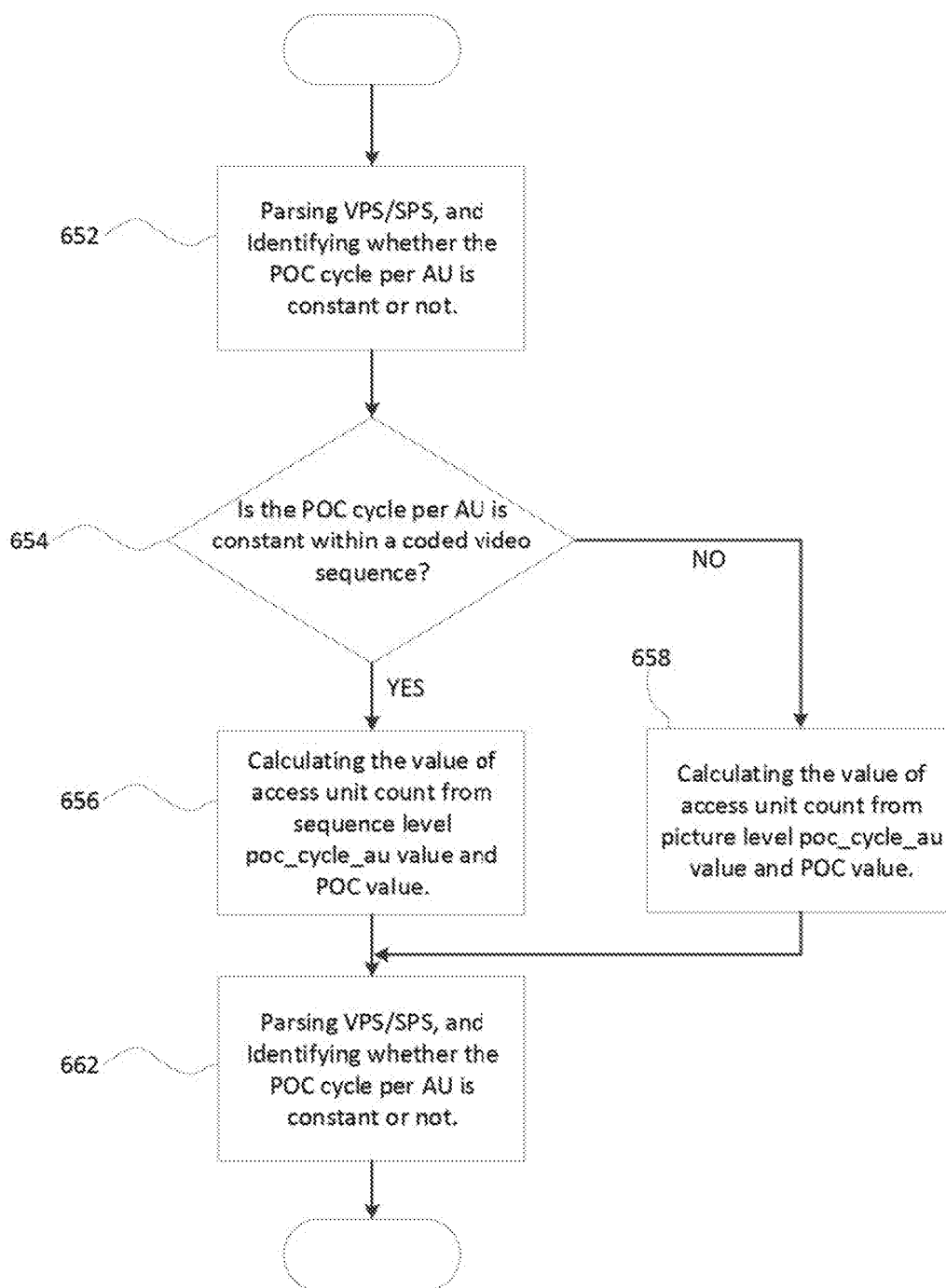


FIG. 11

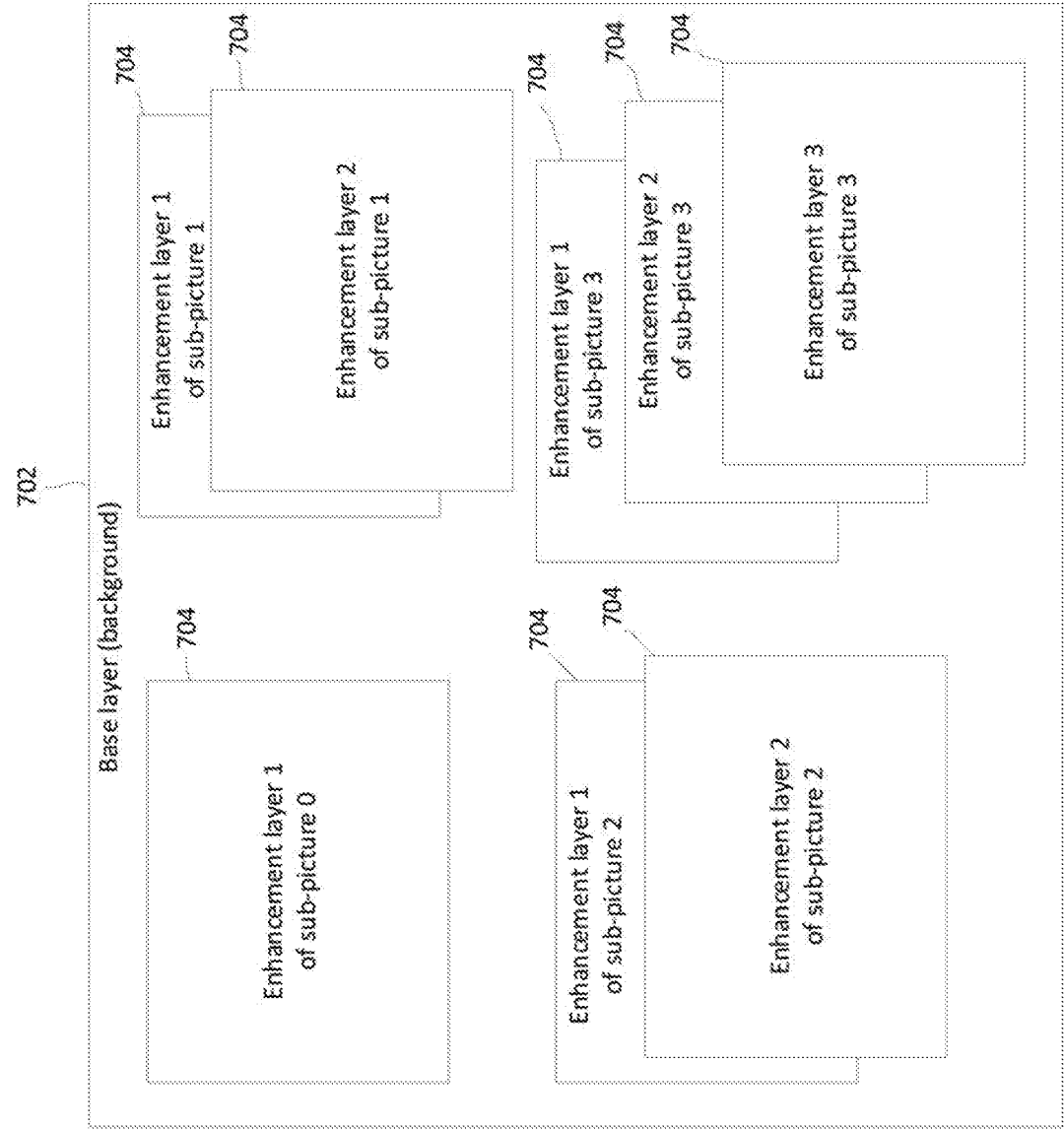


FIG. 12

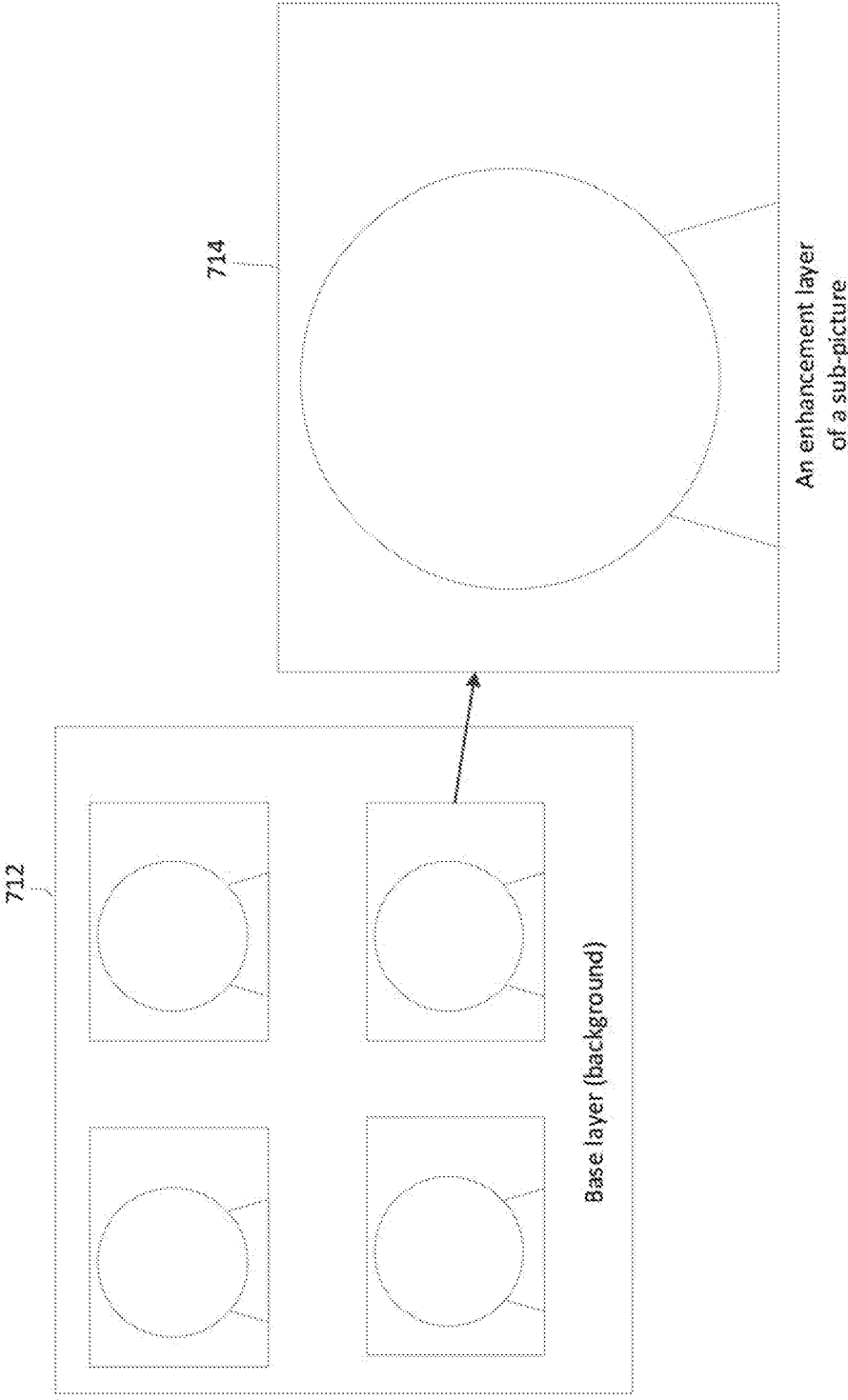


FIG. 13

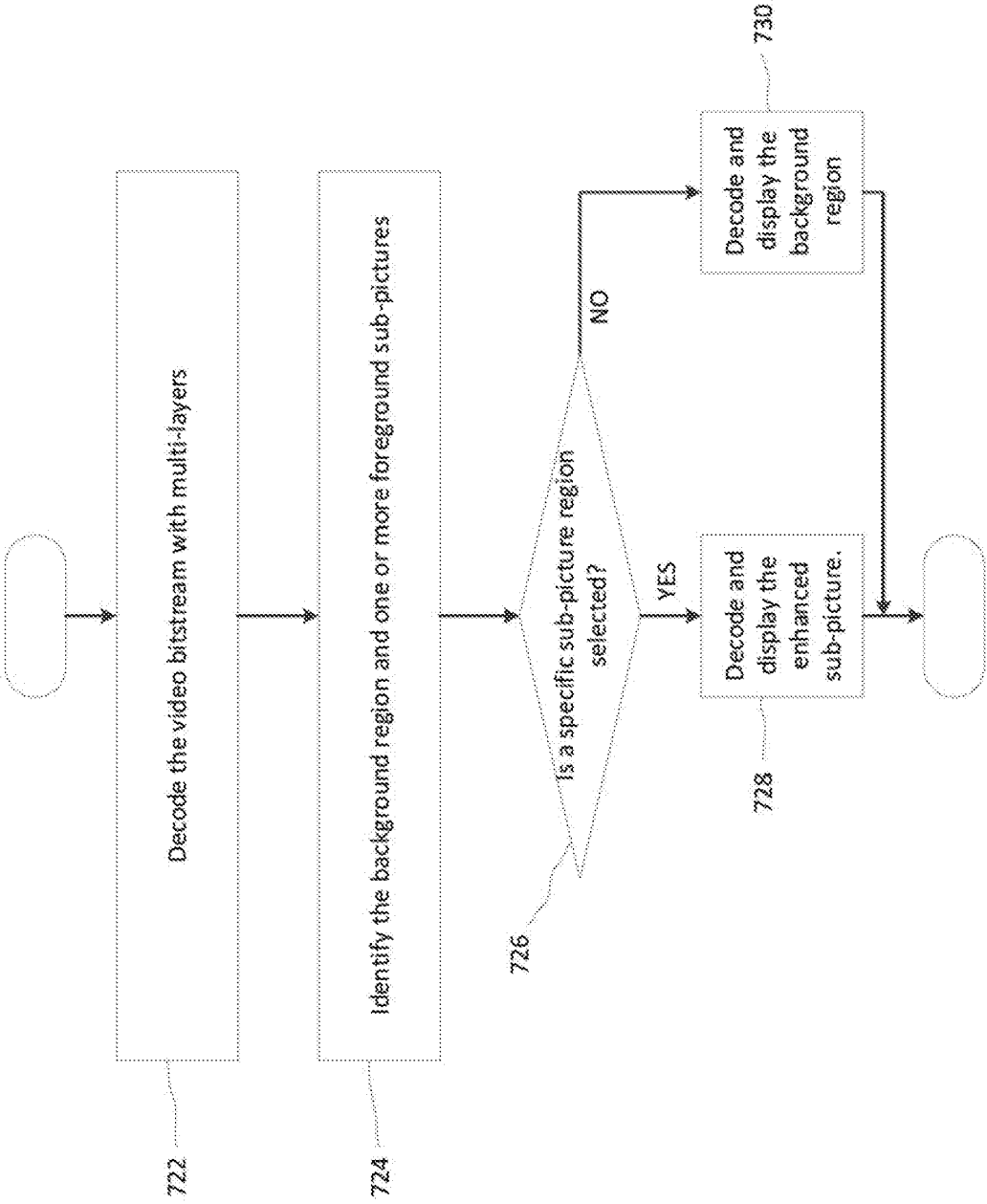


FIG. 14

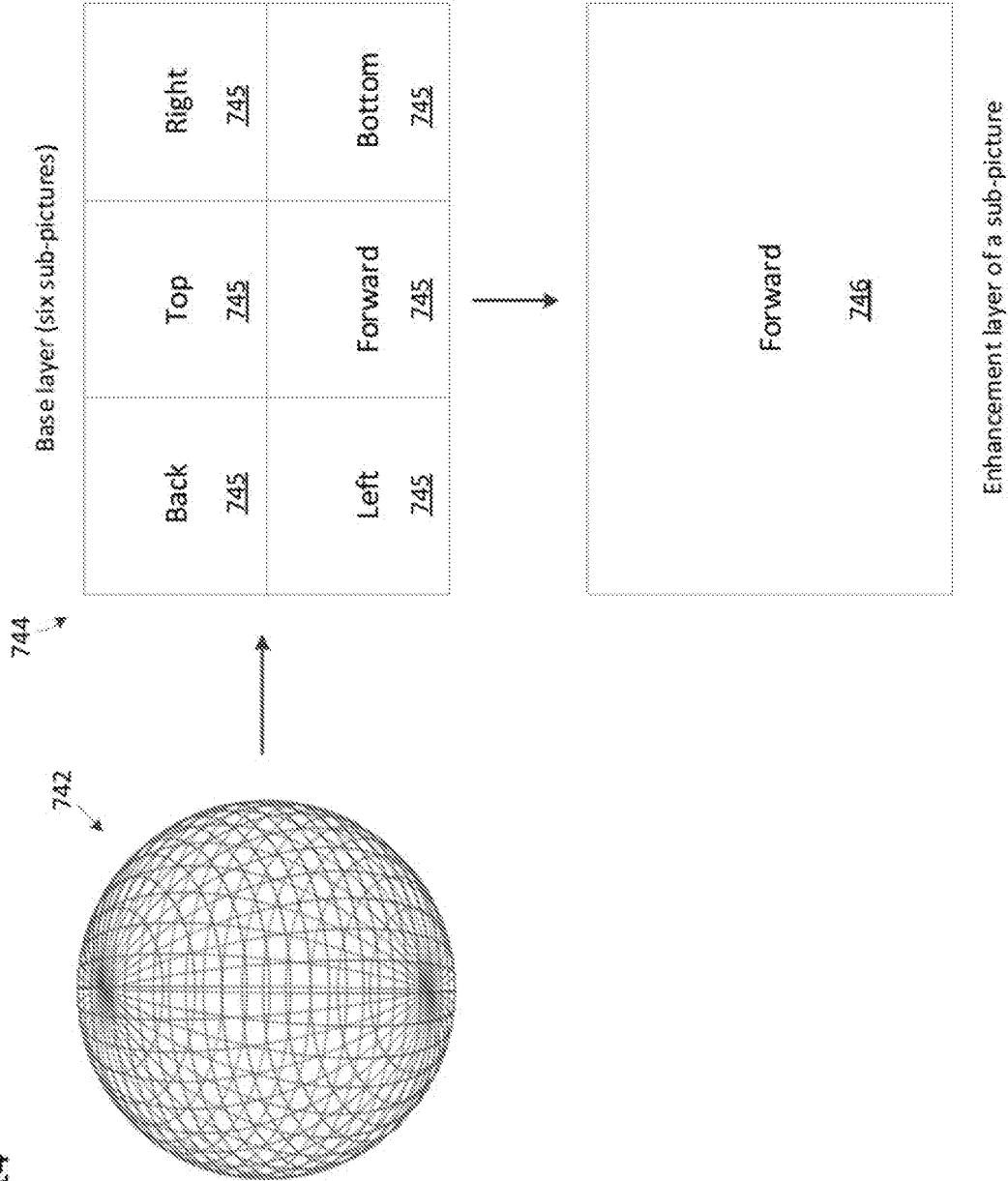


FIG. 15A

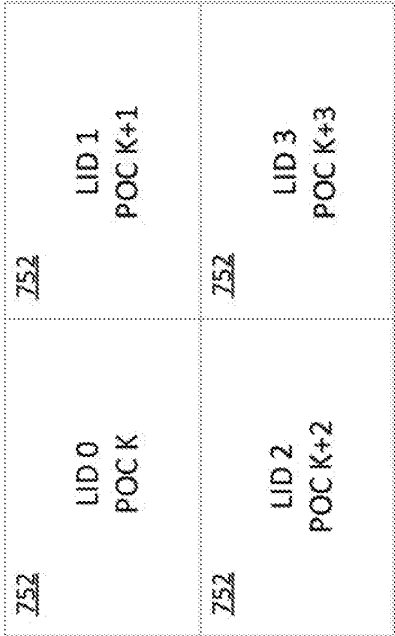


FIG. 15B

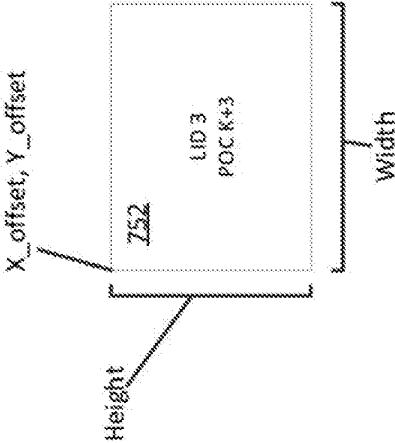


FIG. 16

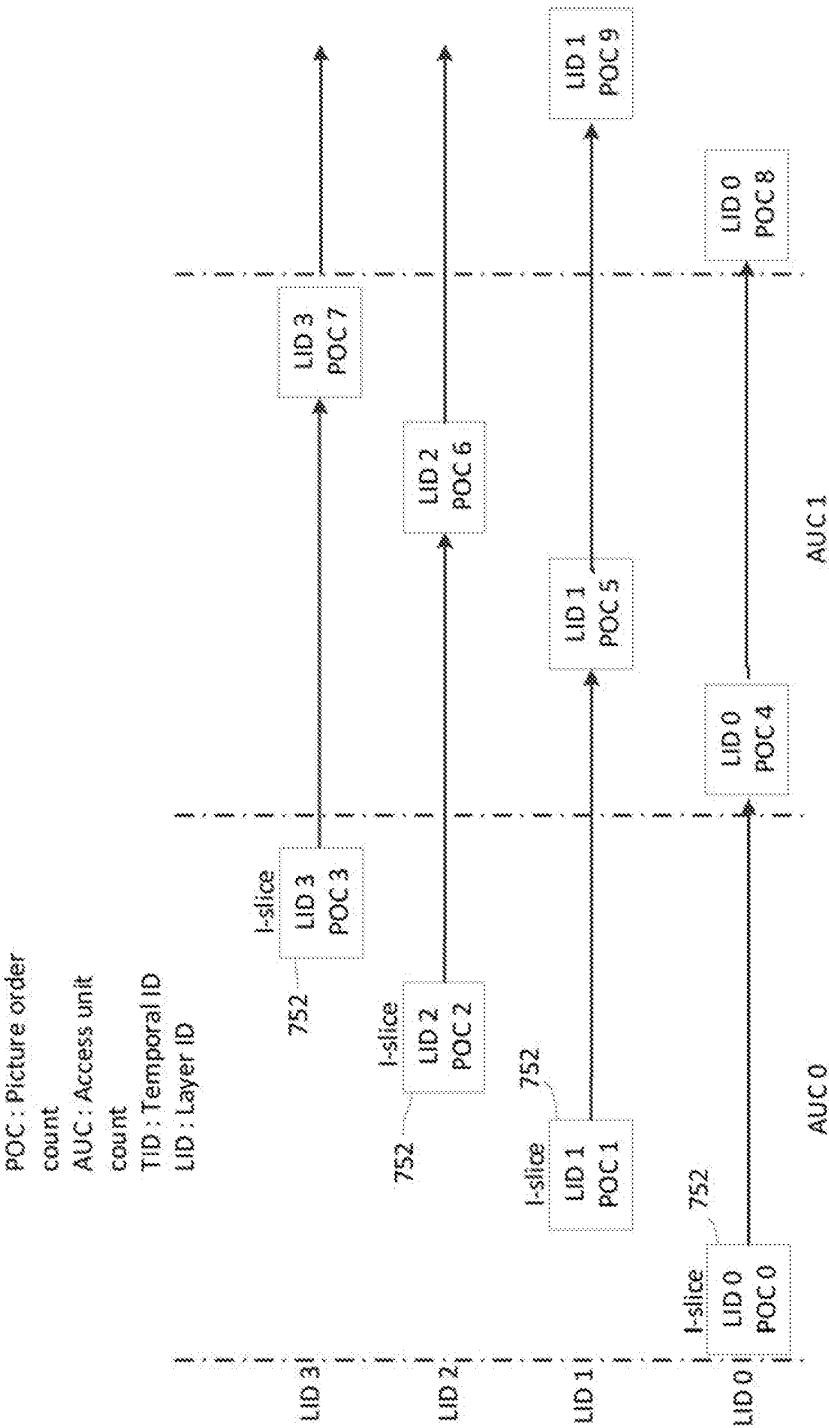


FIG. 17

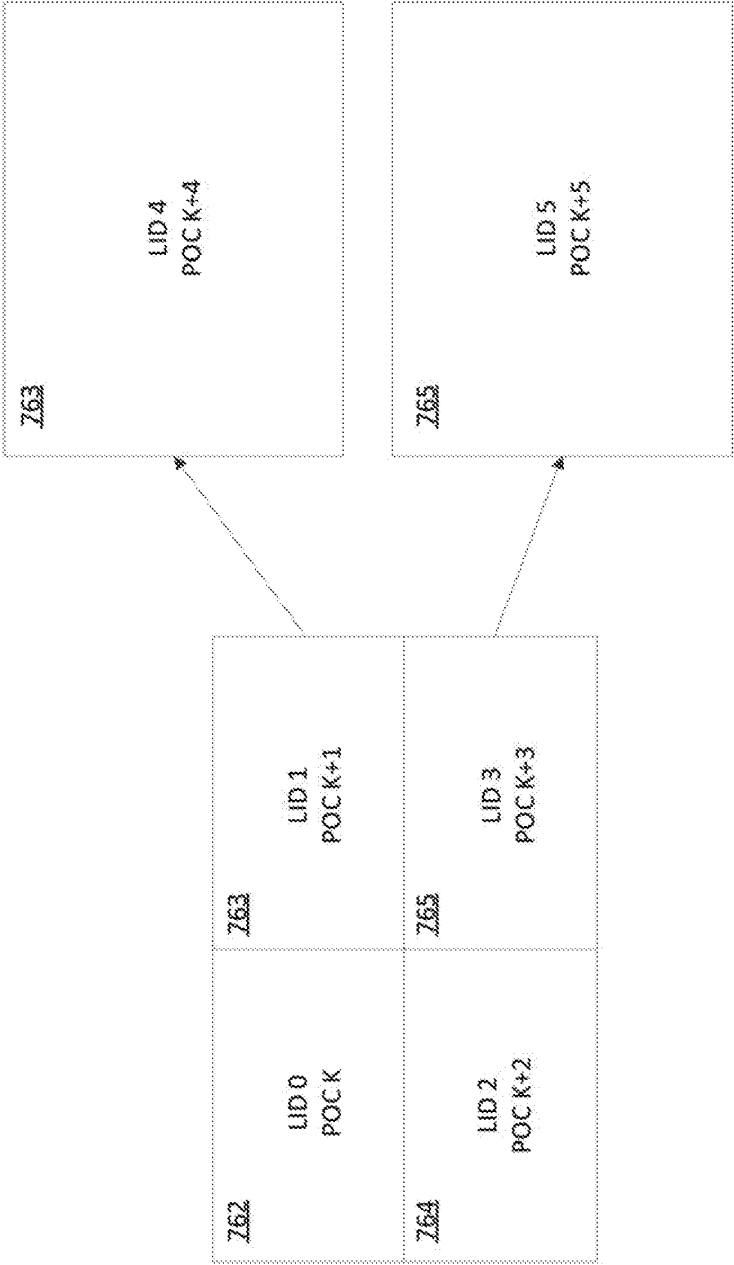


FIG. 18

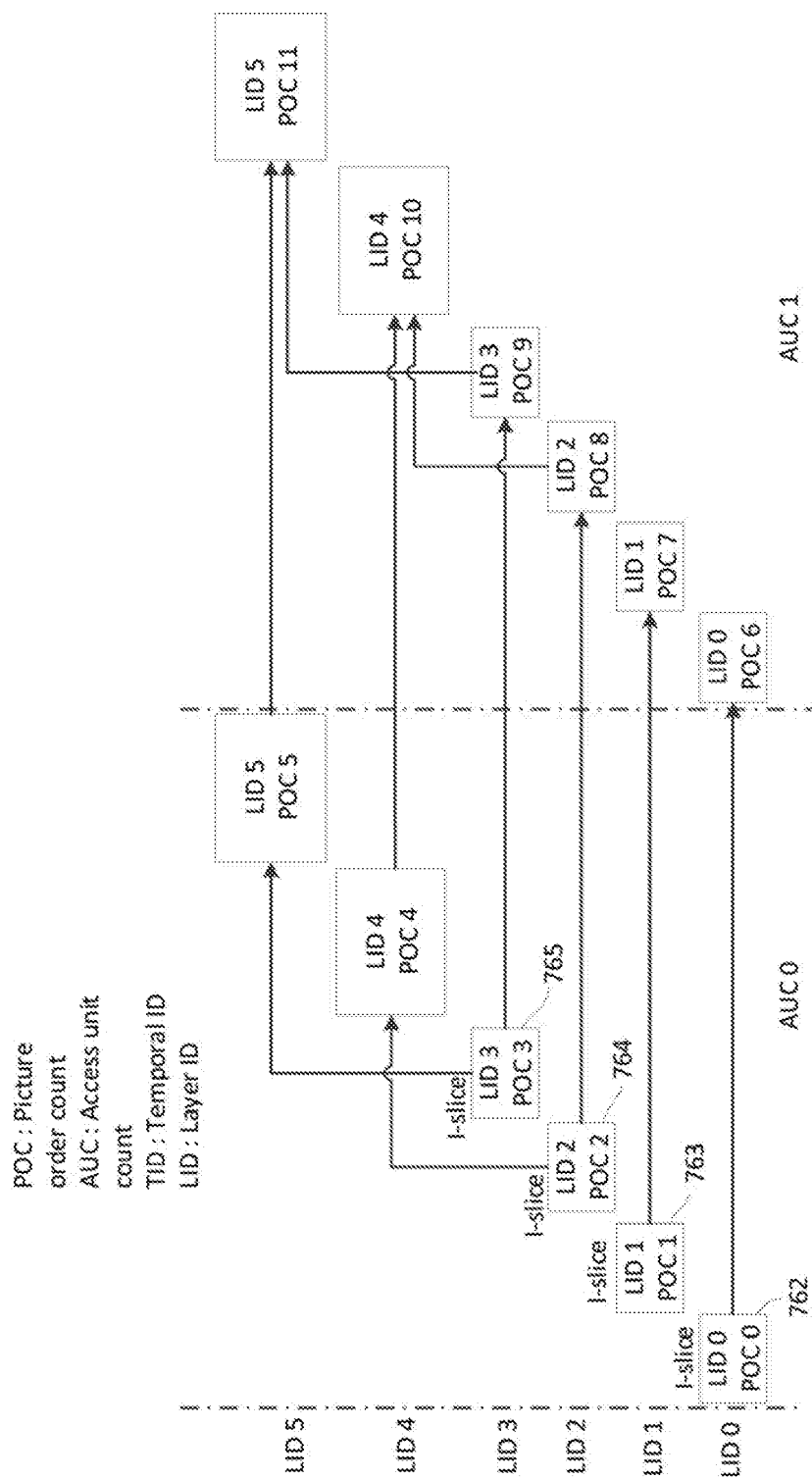


FIG. 19A

770	video_parameter_set_rbsp() { vps_video_parameter_set_id vps_max_layers_minus1 for(i = 0; i <= vps_max_layers_minus1; i++) { vps_included_layer_id[i] vps_reserved_zero_bit } ... vps_sub_picture_dividing_flag if(vps_sub_picture_dividing_flag) { vps_full_pic_width_in_luma_samples vps_full_pic_height_in_luma_samples } ... }	Descriptor u(4) u(8) u(?) u(1) u(1) ue(v) ue(v)
772		
774		
776		

FIG. 19B

780	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)
	...	
786	pic_width_in_luma_samples	ue(v)
788	pic_height_in_luma_samples	ue(v)
	if(vps_sub_picture_dividing_flag) {	
782	pic_offset_x	ue(v)
784	pic_offset_y	ue(v)
	}	
	...	
	}	

FIG. 20

	sub_region_partitioning_info(payloadSize) {	Descriptor
791	num_sub_region	ue(v)
792	num_layers	ue(v)
	for (i = 0; i <= num_layers; i++)	
	layer_id [i]	ue(v)
	for(i = 1; i < num_layers; i++)	
	for(j = 0; j < i; j++)	
793	direct_dependency_flag[i][j]	u(1)
	for (i = 0; i < num_sub_region; i++) {	
794	num_layers_for_region[i]	ue(v)
	for(j = 0; j < num_layers_for_region[i]; j++)	
795	sub_region_layer_id[i][j]	ue(v)
796	sub_region_offset_x[i]	ue(v)
797	sub_region_offset_y[i]	ue(v)
798	sub_region_width[i]	ue(v)
799	sub_region_height[i]	ue(v)
	}	
	...	
	}	

FIG. 21

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

FIG. 22

	video parameter set rbasp() {	Descriptor
	...	
802	vps_max_layers_minus1	u(6)
	if(vps_max_layers_minus1 > 0) {	
804	num_output_layer_sets	ue(v)
806	num_profile_tier_level	ue(v)
	}	
	for(i = 0; i < num_profile_tier_level; i++)	
808	profile_tier_level[vps_max_sub_layers_minus1]	
	for(i = 0; i < num_output_layer_sets; i++) {	
822	vps_output_layers_mode[i]	u(2)
824	vps_ptl_signal_flag[i]	u(1)
	for(j = 0; j < NumLayersInIdList[i]; j++) {	
	if(vps_output_layers_mode[i] == 2)	
810	output_layer_flag[i][j]	u(1)
	if(vps_ptl_signal_flag[i])	
812	profile_tier_level_idx[i][j]	u(v)
	}	
	}	
	...	
	}	

FIG. 23

	video parameter set rbsp() { ... }	Descriptor
802	vps_max_layers_minus1 if(vps_max_layers_minus1 > 0) { num_output_layer_sets num_profile_tier_level } max_subpics_minus1 for(i = 0; i < max_subpics_minus1; i++) { sub_pic_id[i] } 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_model[i] vps_ptl_signal_flag[i] for(j = 0; j < NumLayersInIdList(i); j++) { num_output_subpic_layer[i][j] for(k = 0; k < num_output_subpic_layer[i][j]; k++) sub_pic_id_layer[i][j][k] if(vps_output_layers_model[i] == 2) output_layer_flag[i][j] if(vps_ptl_signal_flag[i]) profile_tier_level_idx[i][j] } } ... }	u(6) ue(v) ue(v) u(8) u(8) u(2) u(1) ue(v) u(8) u(1) u(v)
804		
806		
821		
822		
824		
826		
810		
812		

FIG. 24

