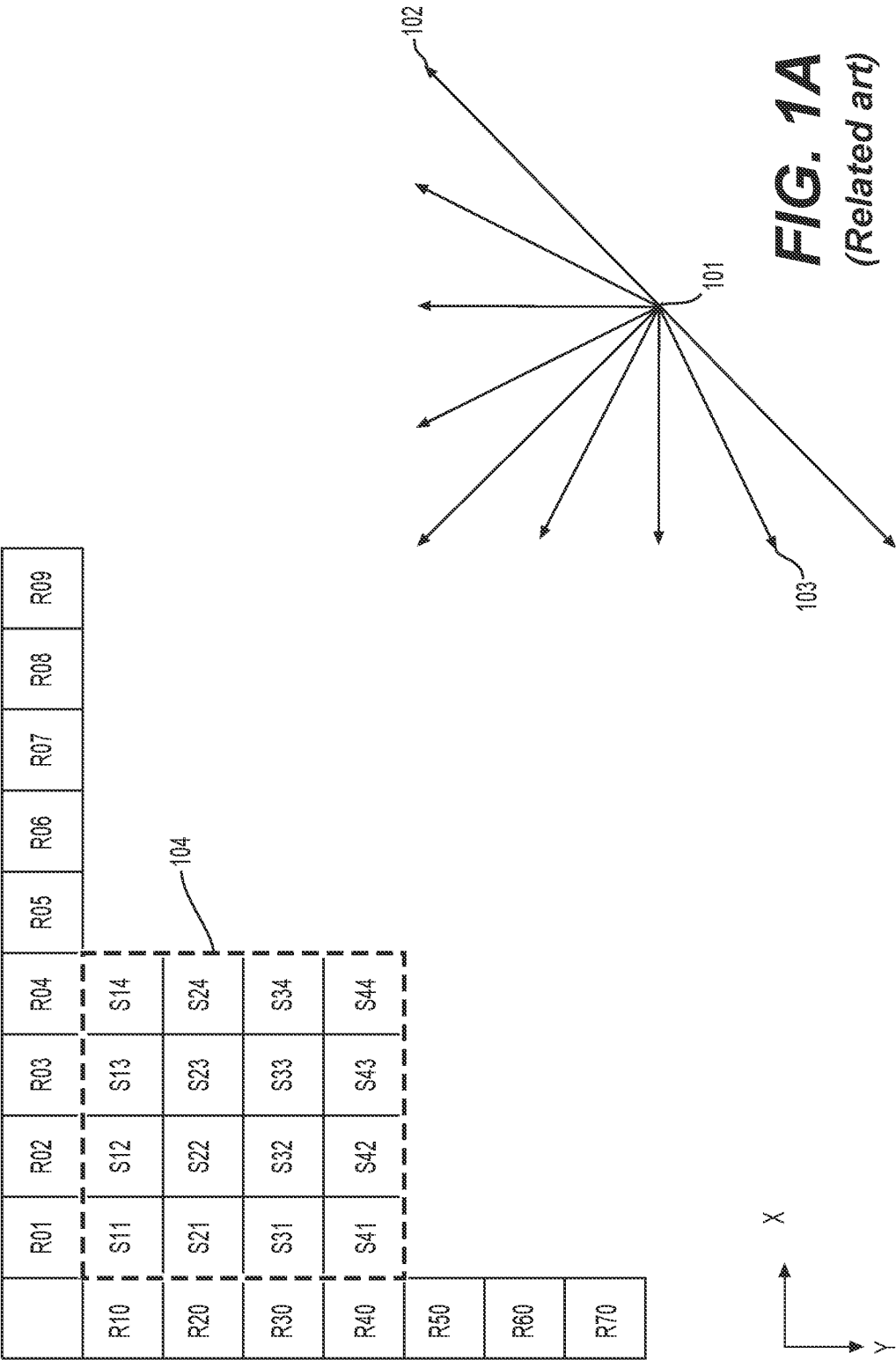
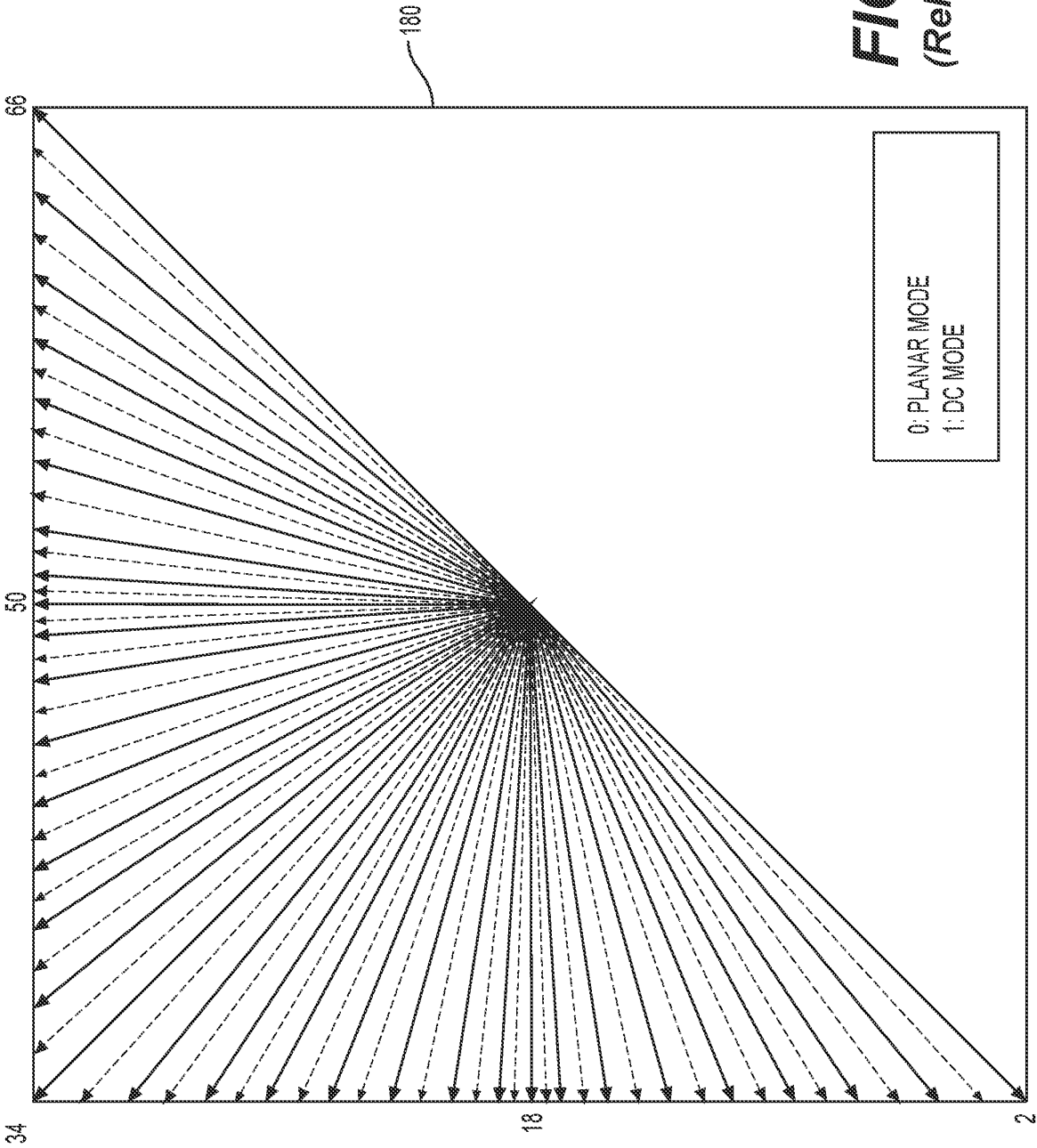






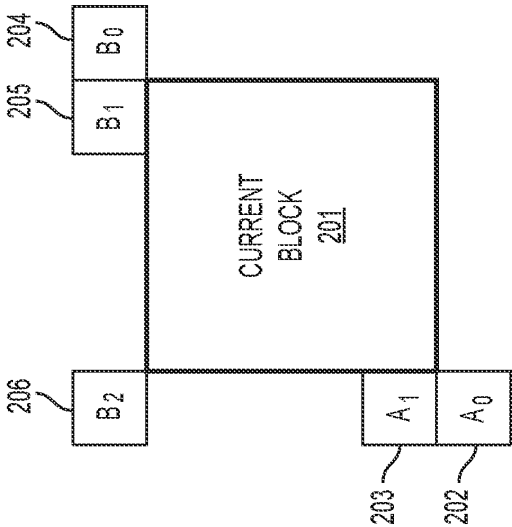


FIG. 2
(Related Art)

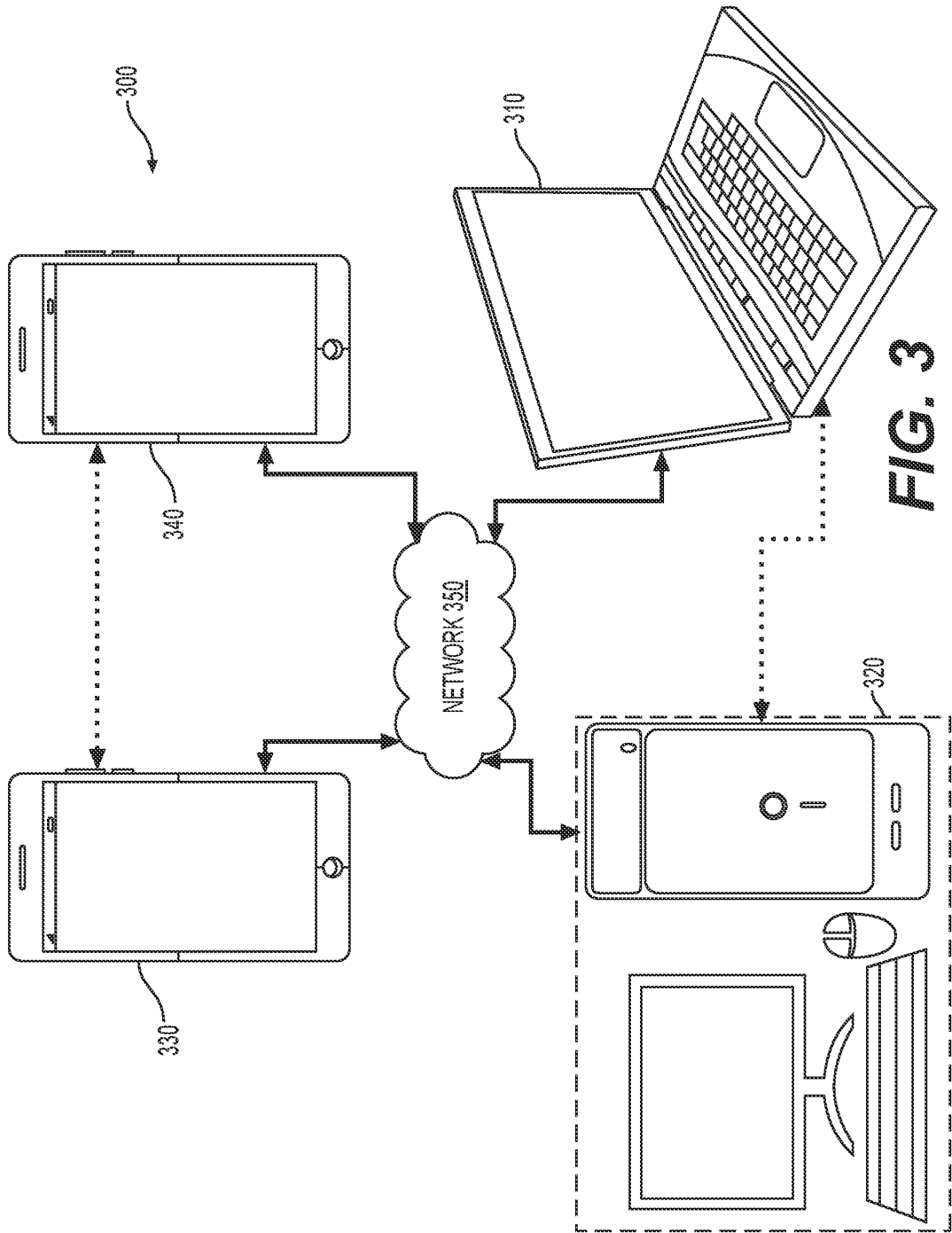


FIG. 3

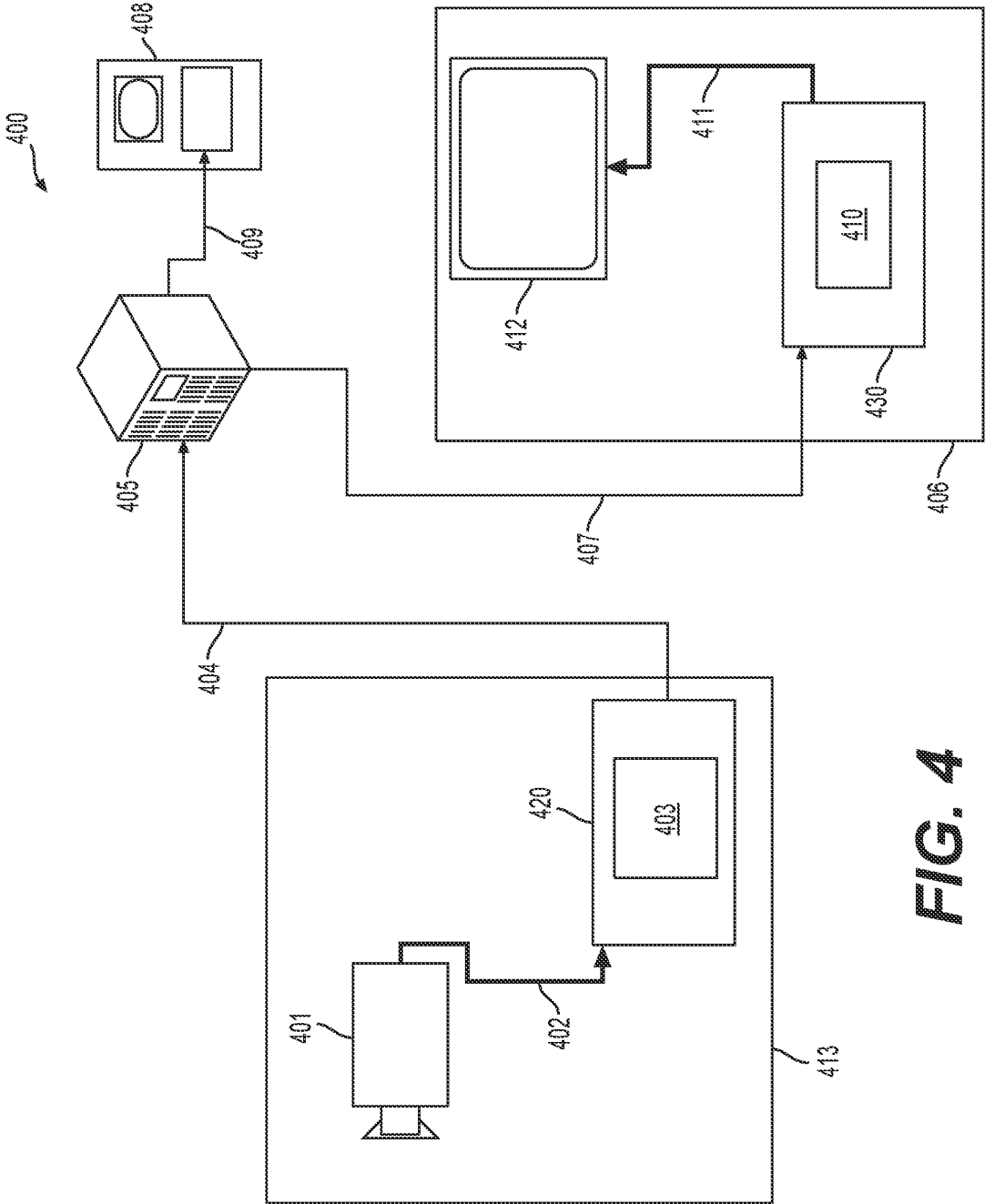
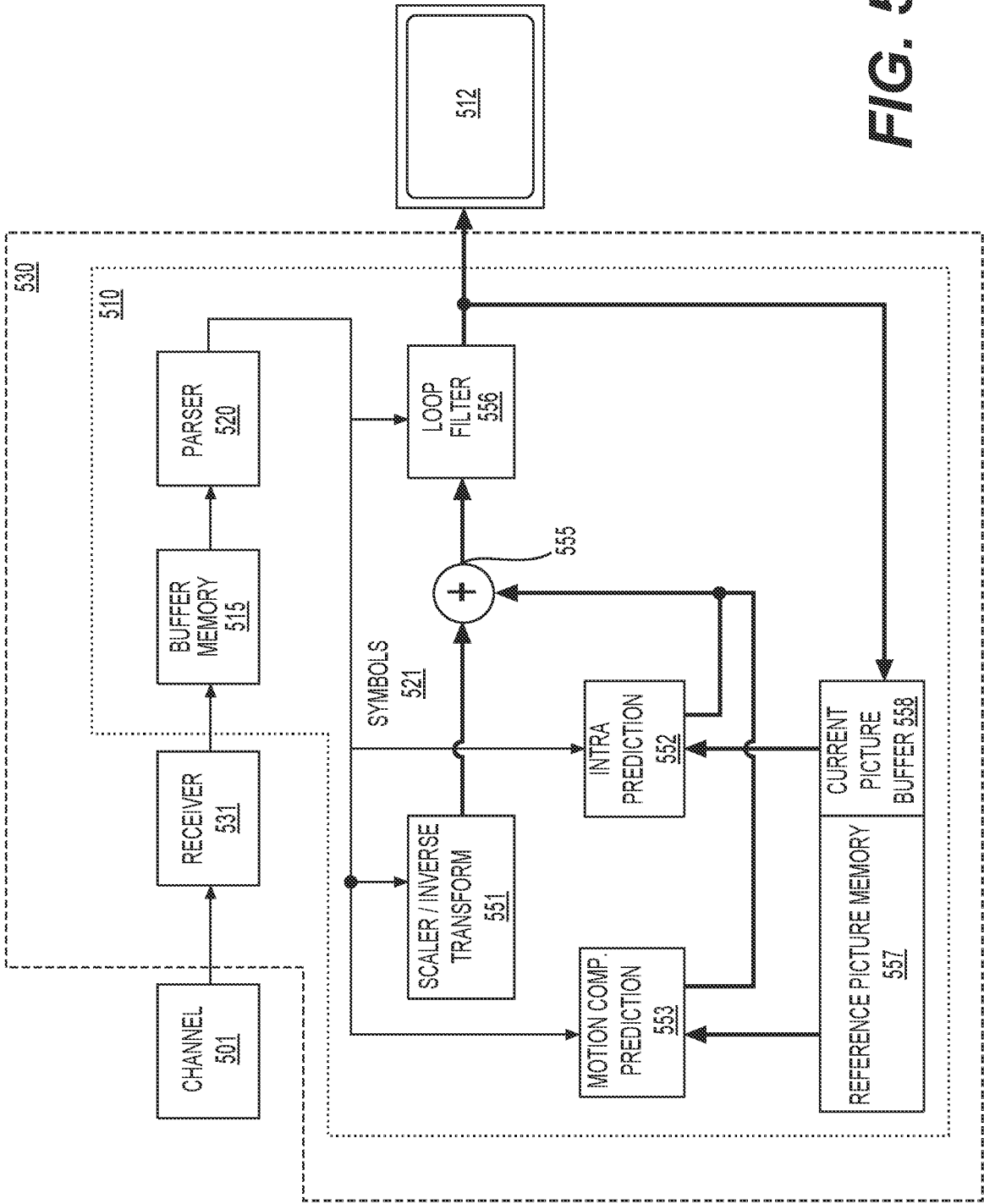


FIG. 4



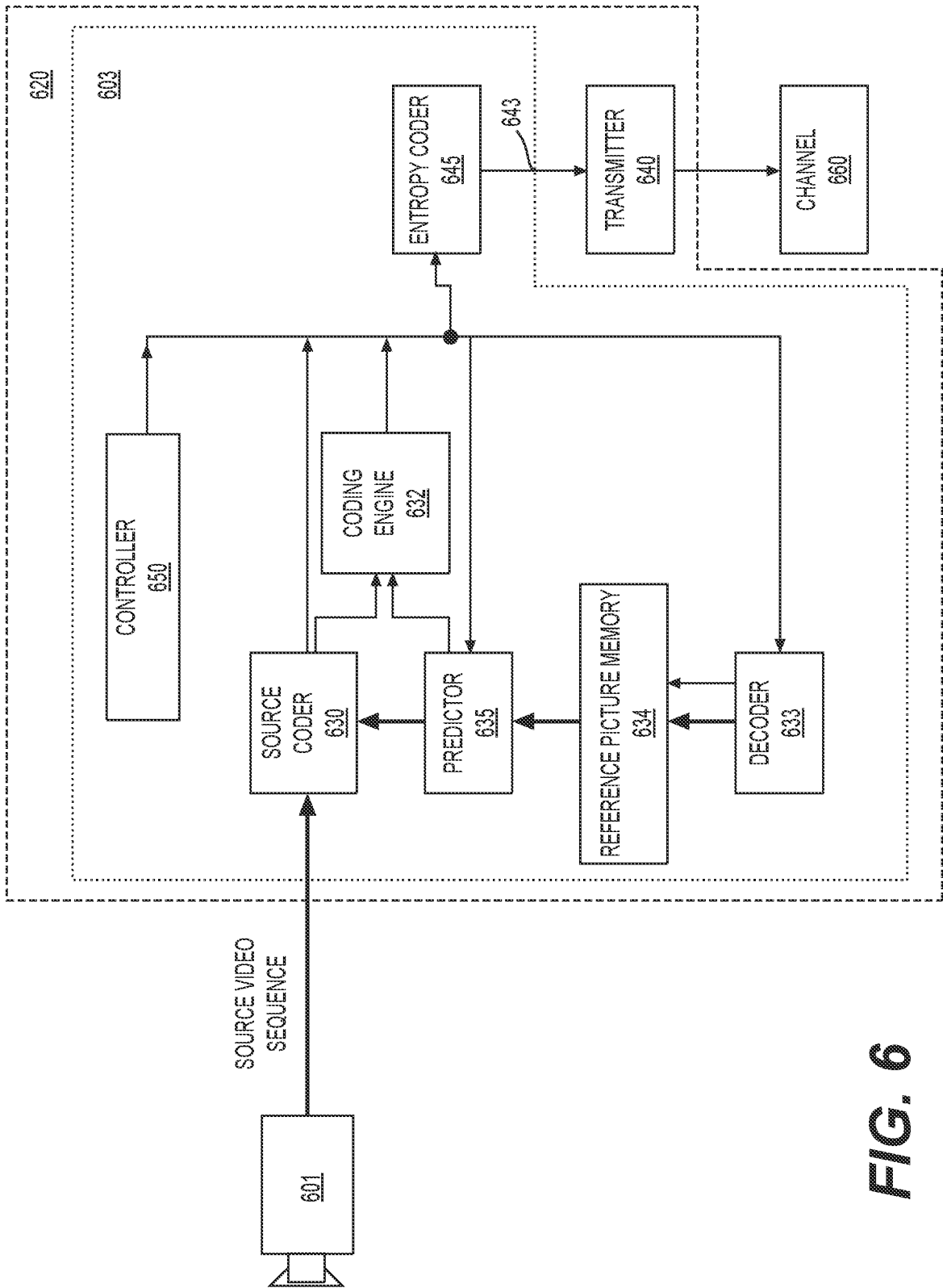


FIG. 6

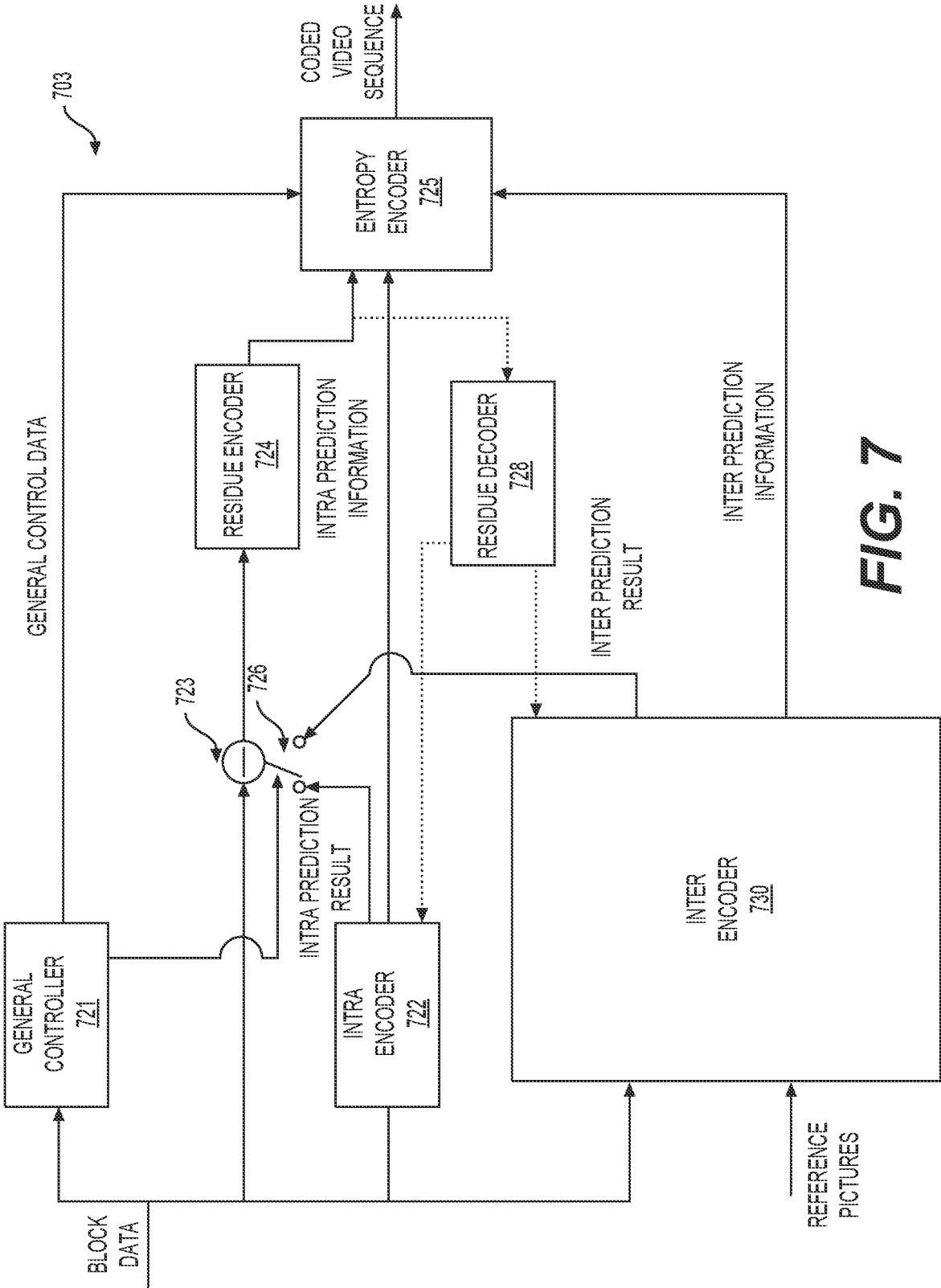


FIG. 7

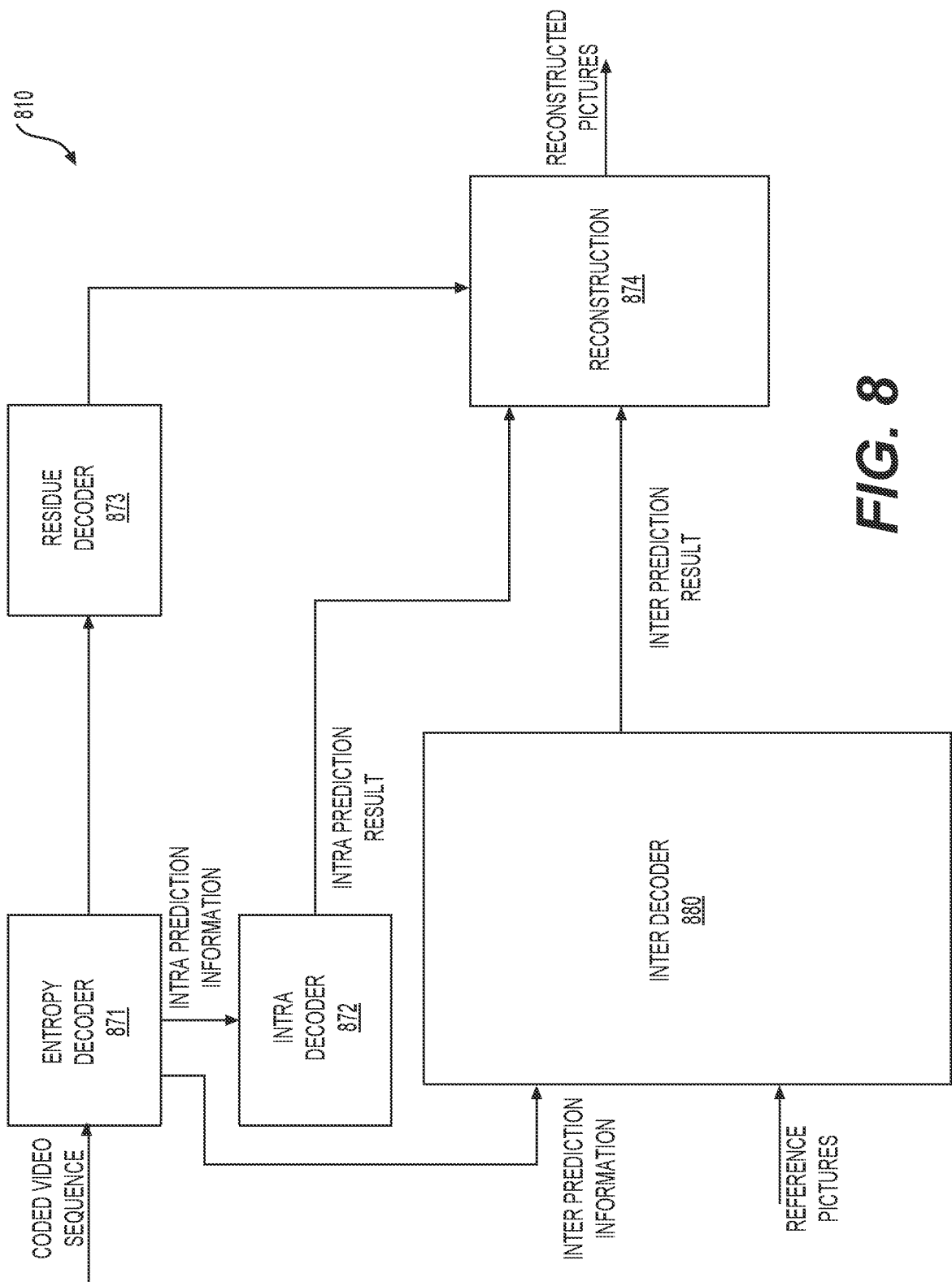


FIG. 8

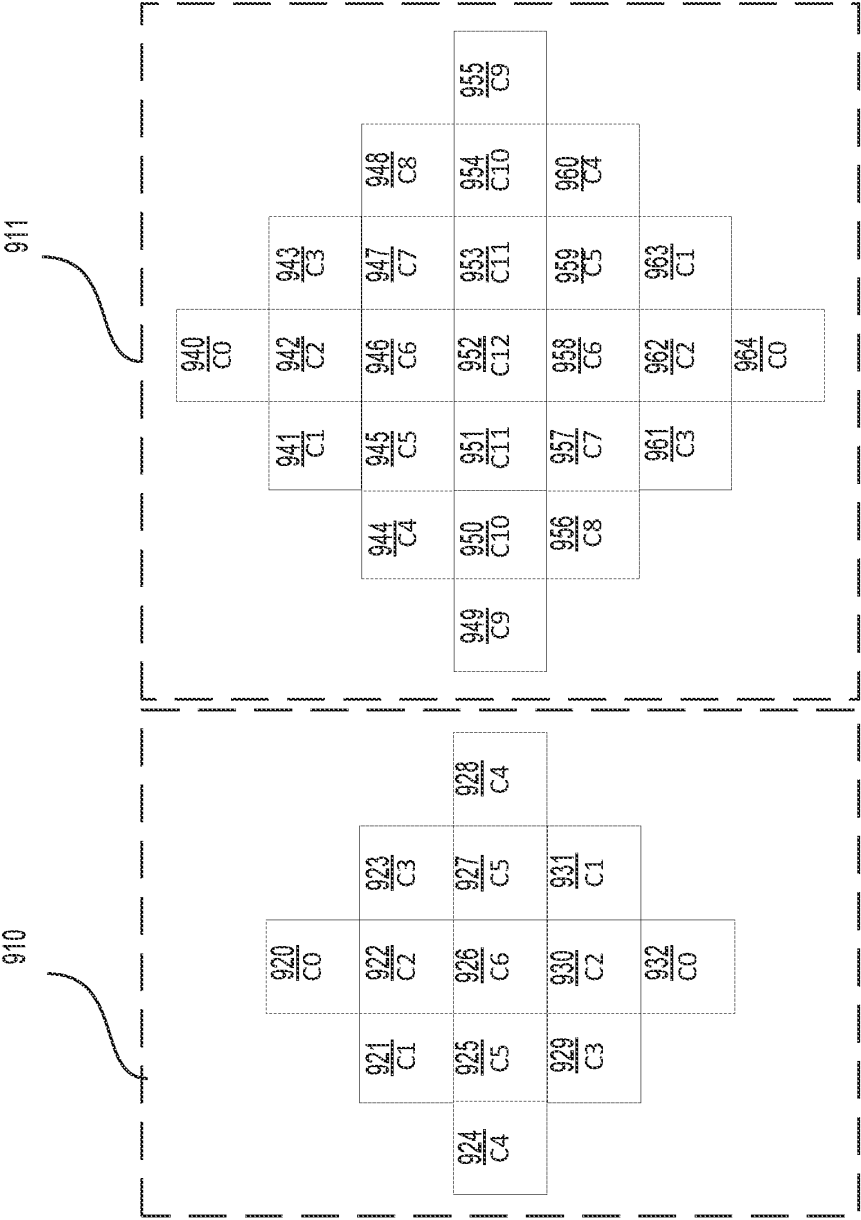


FIG. 9

	H		H		H		H
H		H		H		H	
	H		H		H		H
H		H		H		H	
	H		H		H		H
H		H		H		H	
	H		H		H		H
H		H		H		H	

FIG. 10B

	V		V		V		V
V		V		V		V	
	V		V		V		V
V		V		V		V	
	V		V		V		V
V		V		V		V	
	V		V		V		V
V		V		V		V	

FIG. 10A

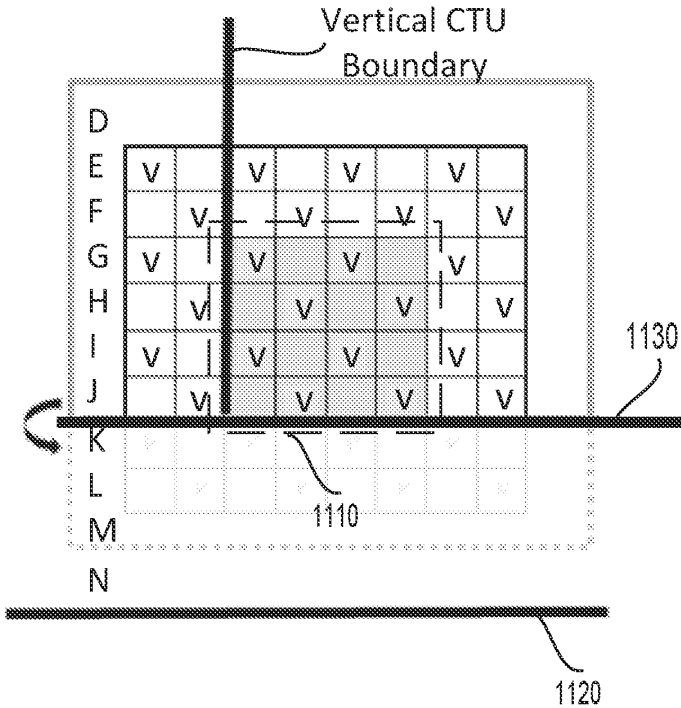


FIG. 11A

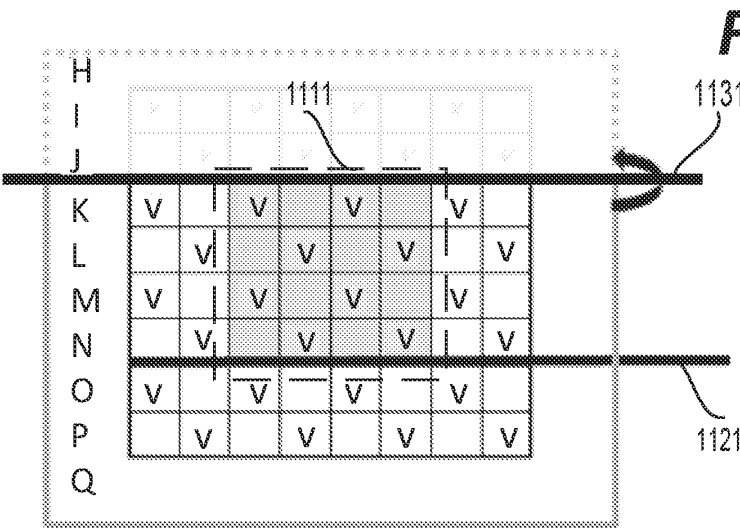


FIG. 11B

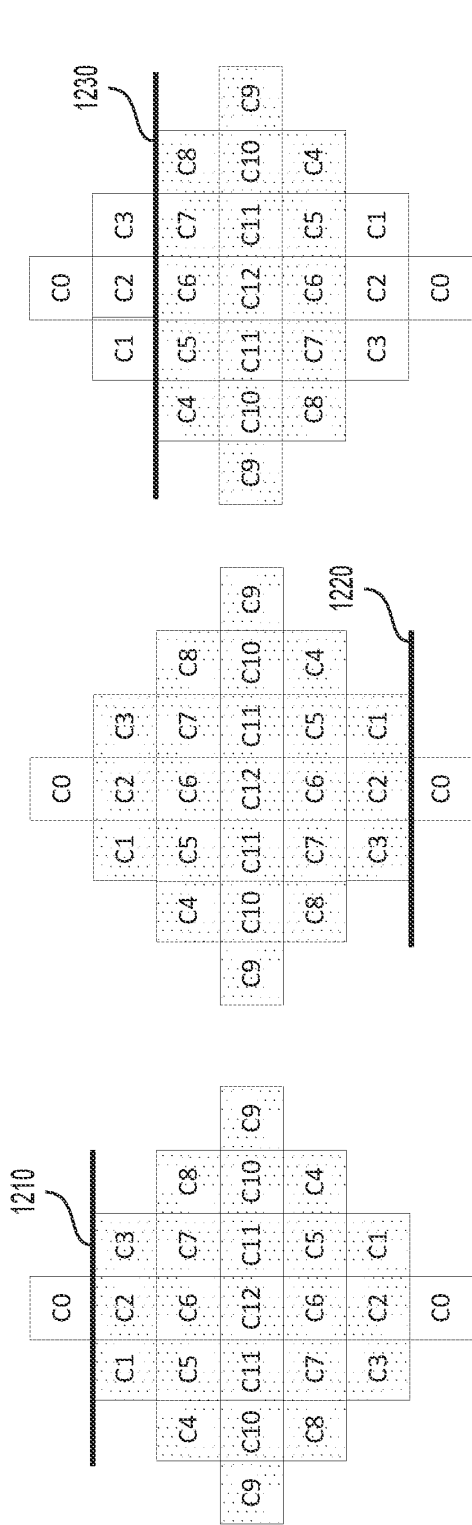


FIG. 12A

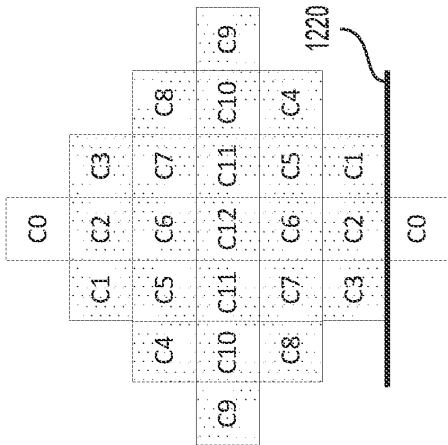


FIG. 12B

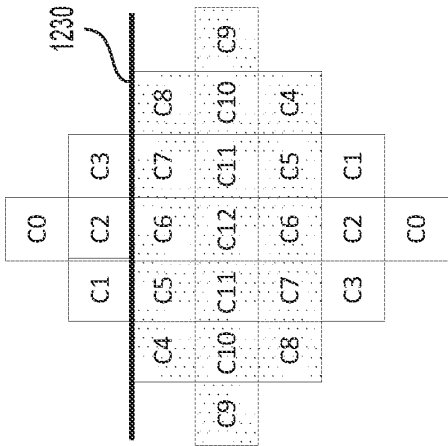


FIG. 12C

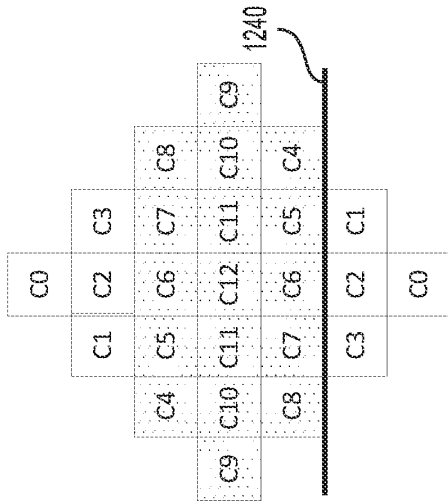


FIG. 12D

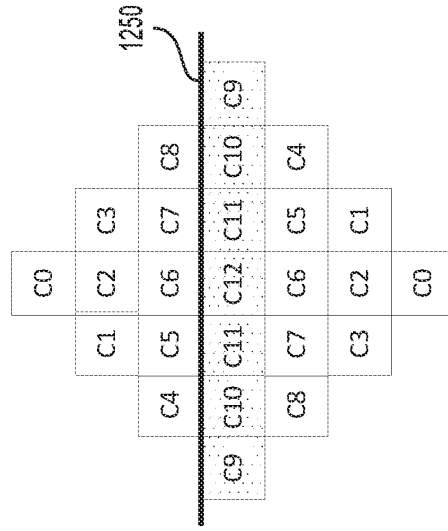


FIG. 12E

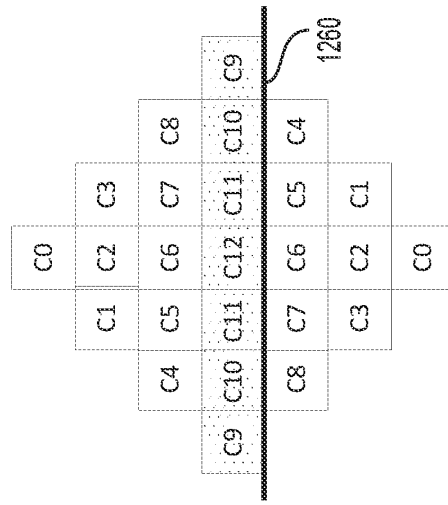


FIG. 12F

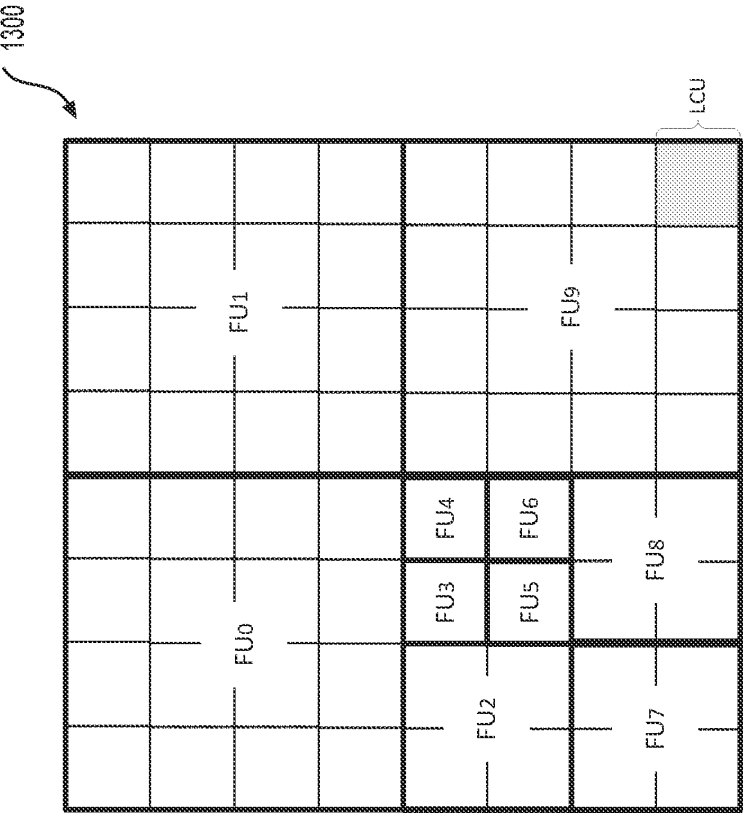


FIG. 13

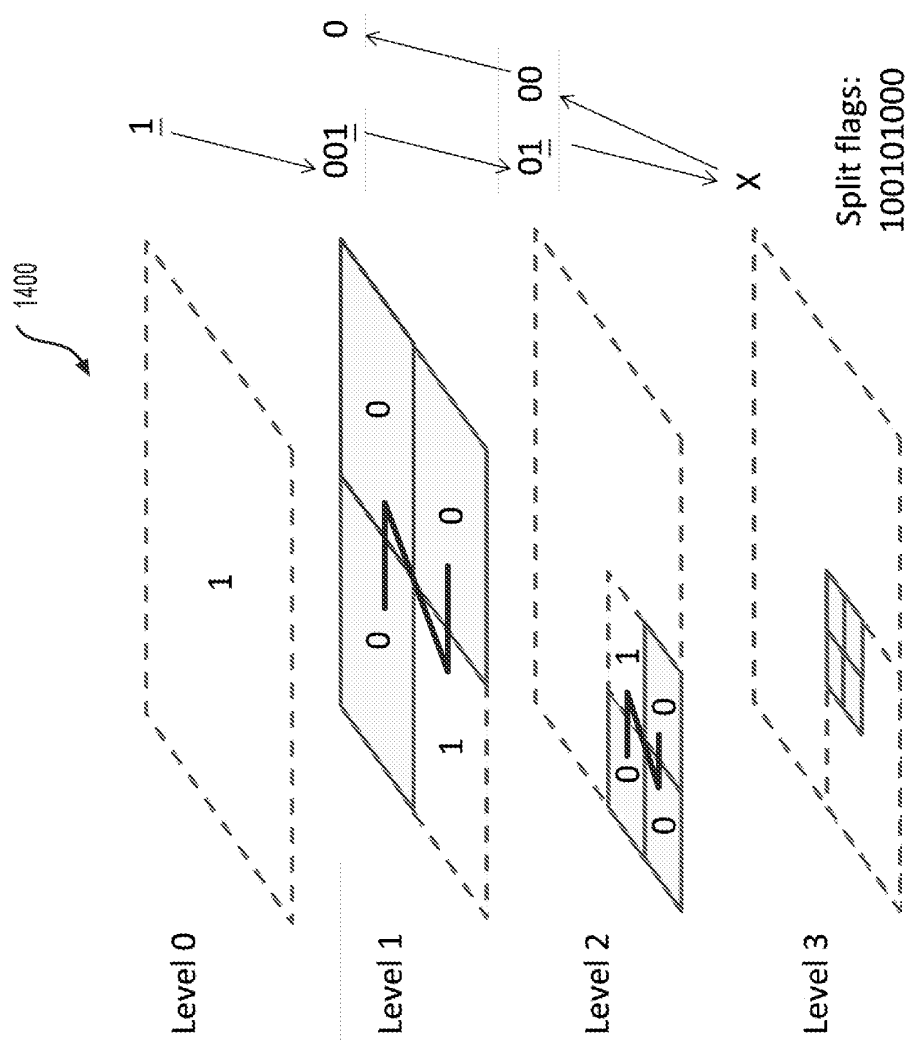


FIG. 14

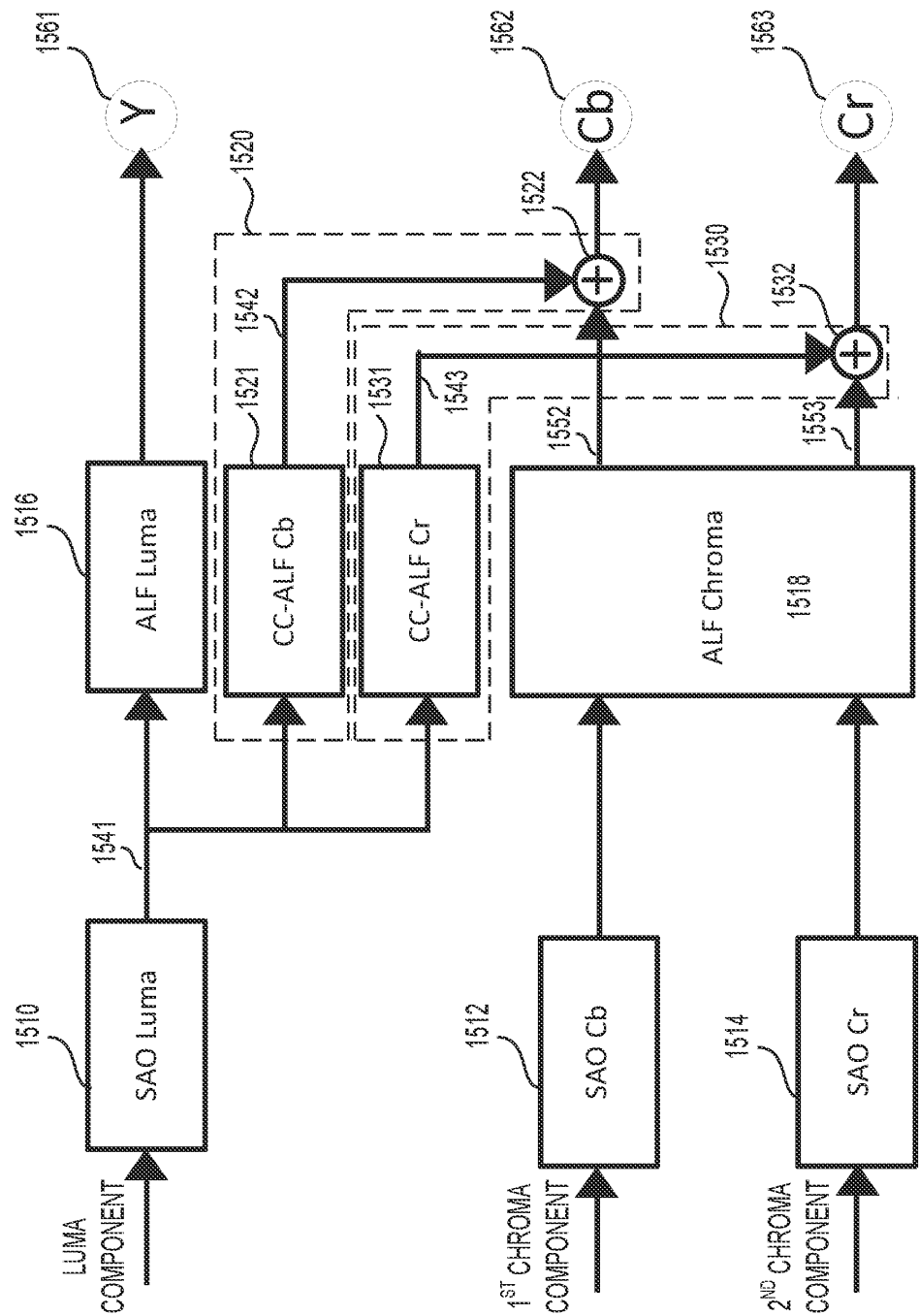


FIG. 15

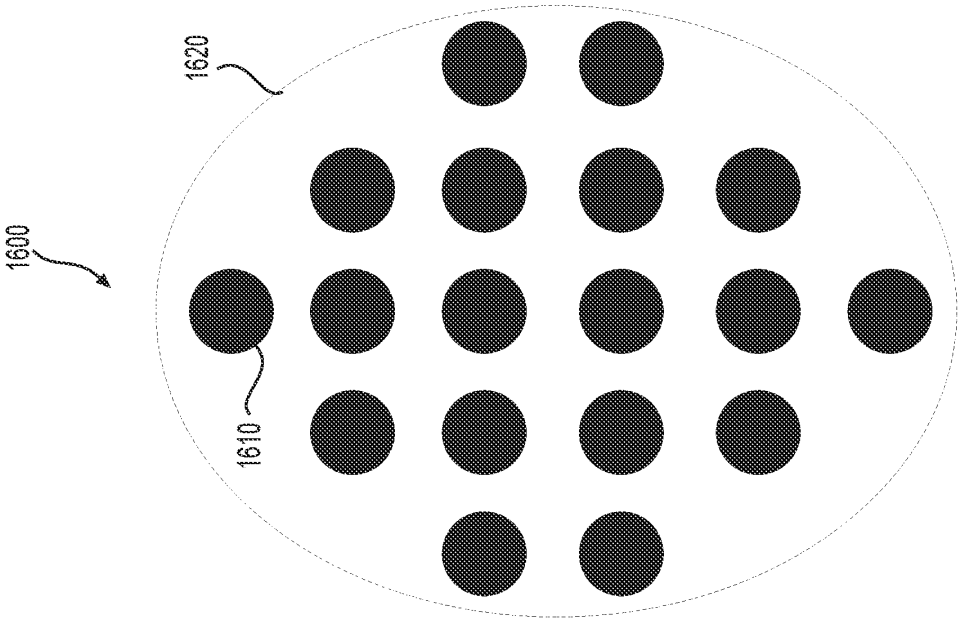


FIG. 16

if (slice_cross_component_alf_cb_enabled_flag)	
alf_ctb_cross_component_cb_idc [xCtb >> CtbLog2SizeY][yCtb >> CtbLog2SizeY]	ae(v)
if(slice_cross_component_alf_cb_enabled_flag == 0 alf_ctb_cross_component_cb_idc[xCtb >> CtbLog2SizeY][yCtb >> CtbLog2SizeY] == 0)	
if(slice_alf_chroma_idc == 1 slice_alf_chroma_idc == 3) {	
alf_ctb_flag [1][xCtb >> CtbLog2SizeY][yCtb >> CtbLog2SizeY]	ae(v)
if(alf_ctb_flag[1][xCtb >> CtbLog2SizeY][yCtb >> CtbLog2SizeY] && aps_alf_chroma_num_alt_filters_minus1 > 0)	
alf_ctb_filter_alt_idx [0][xCtb >> CtbLog2SizeY][yCtb >> CtbLog2SizeY]	ae(v)
}	
if (slice_cross_component_alf_cr_enabled_flag)	
alf_ctb_cross_component_cr_idc [xCtb >> CtbLog2SizeY][yCtb >> CtbLog2SizeY]	ae(v)
if(slice_cross_component_alf_cr_enabled_flag == 0 alf_ctb_cross_component_cr_idc[xCtb >> CtbLog2SizeY][yCtb >> CtbLog2SizeY] == 0)	
if(slice_alf_chroma_idc == 2 slice_alf_chroma_idc == 3) {	
alf_ctb_flag [2][xCtb >> CtbLog2SizeY][yCtb >> CtbLog2SizeY]	ae(v)
if(alf_ctb_flag[2][xCtb >> CtbLog2SizeY][yCtb >> CtbLog2SizeY] && aps_alf_chroma_num_alt_filters_minus1 > 0)	
alf_ctb_filter_alt_idx [1][xCtb >> CtbLog2SizeY][yCtb >> CtbLog2SizeY]	ae(v)
}	

FIG. 17

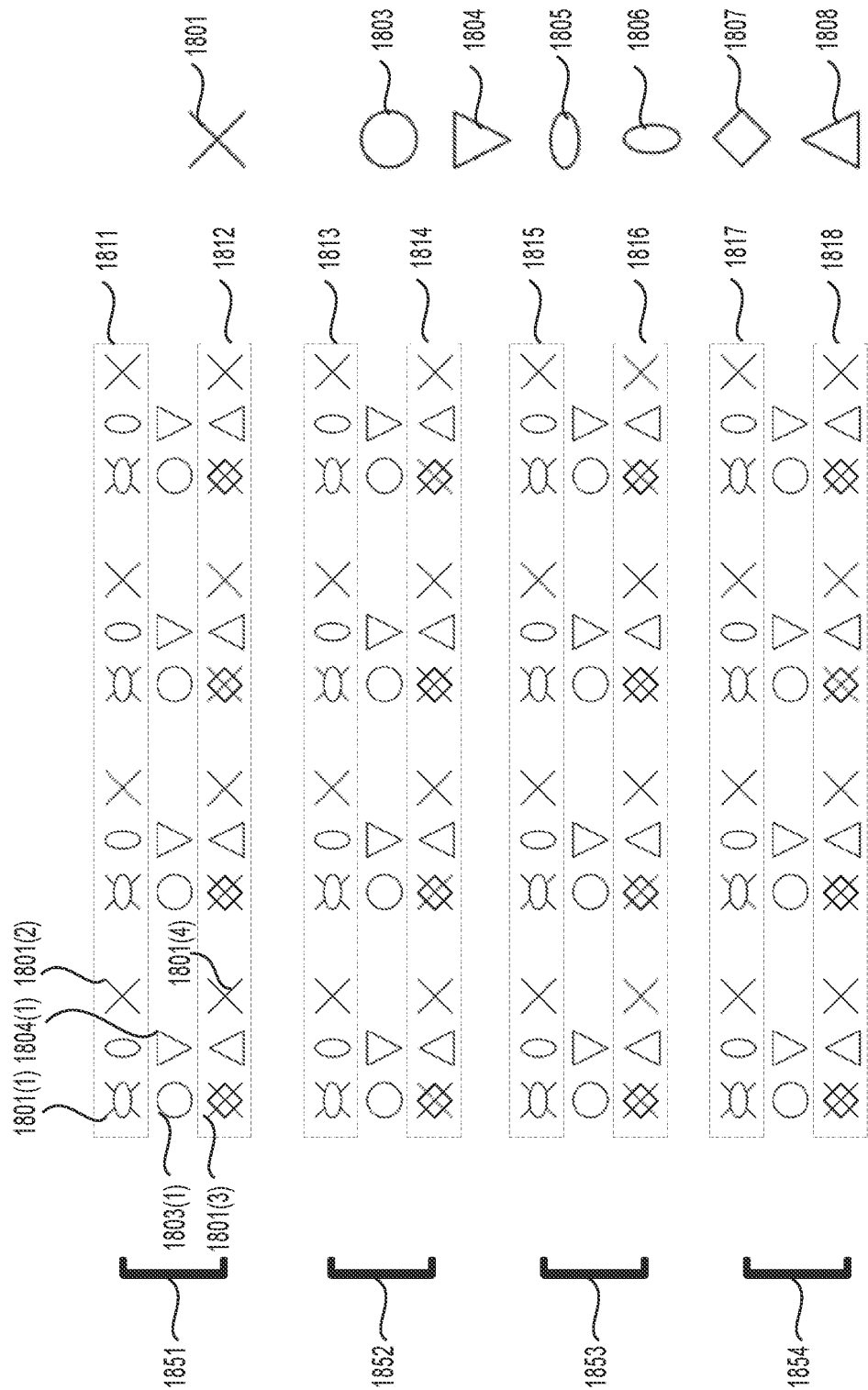


FIG. 18A

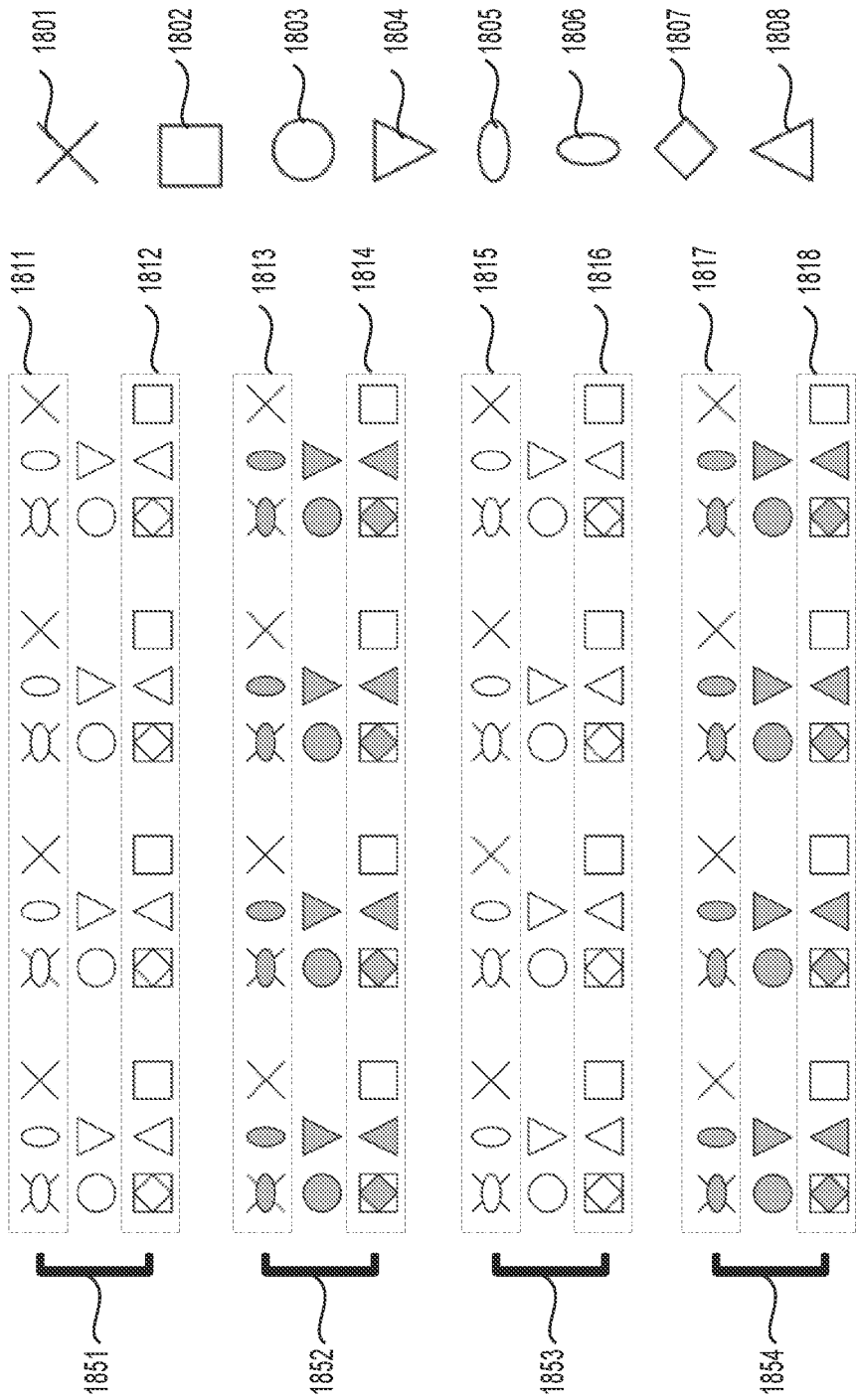


FIG. 18B

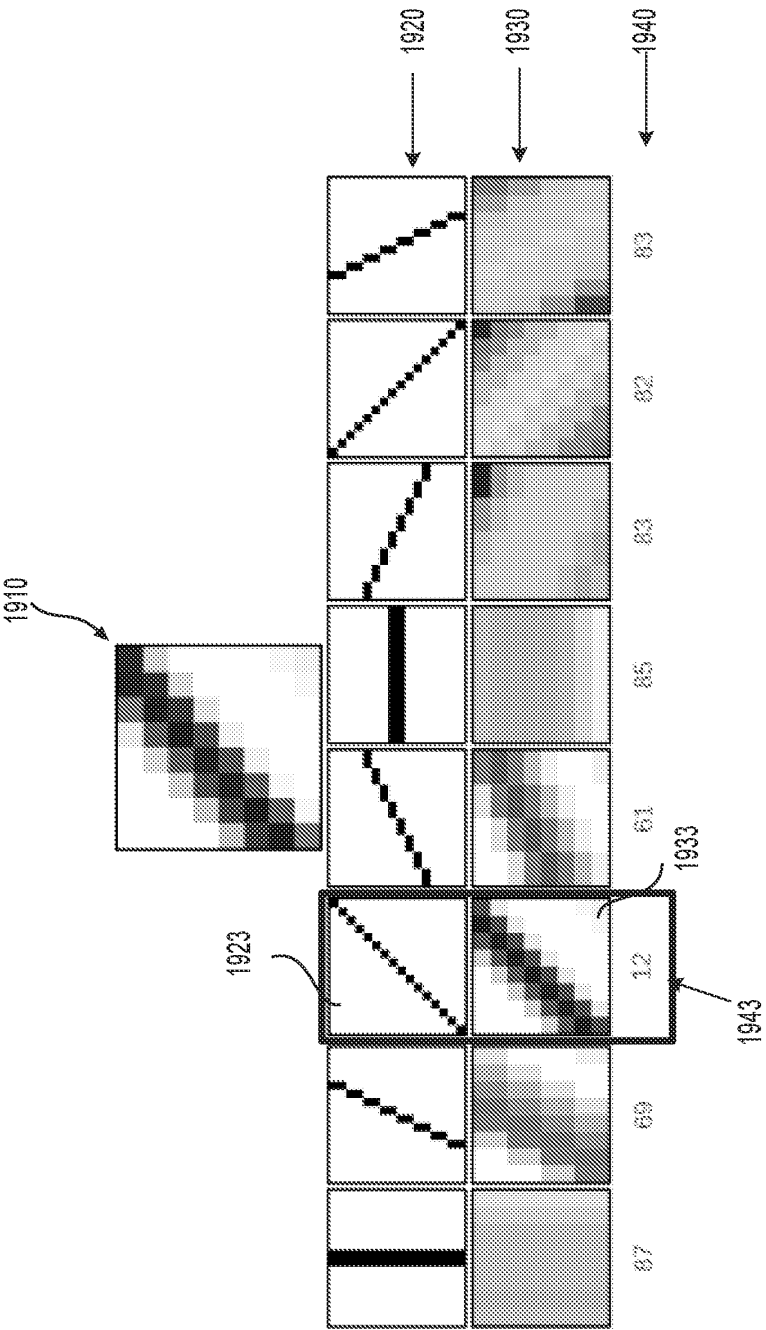


FIG. 19

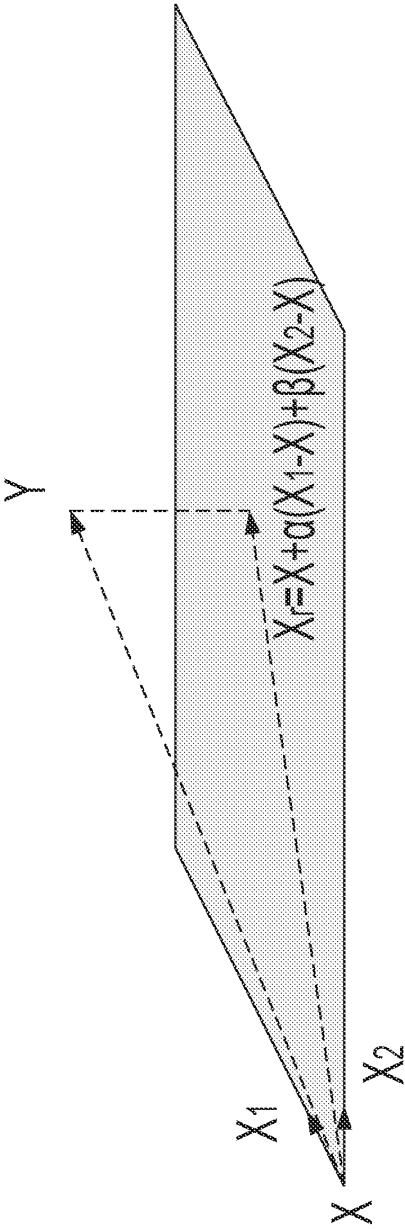


FIG. 20

2100

SAO Type	Sample Adaptive Offset Type to be used	Number of categories
0	None	0
1	1-D 0-degree pattern edge offset	4
2	1-D 90-degree pattern edge offset	4
3	1-D 135-degree pattern edge offset	4
4	1-D 45-degree pattern edge offset	4
5	central bands band offset	16
6	side bands band offset	16

FIG. 21

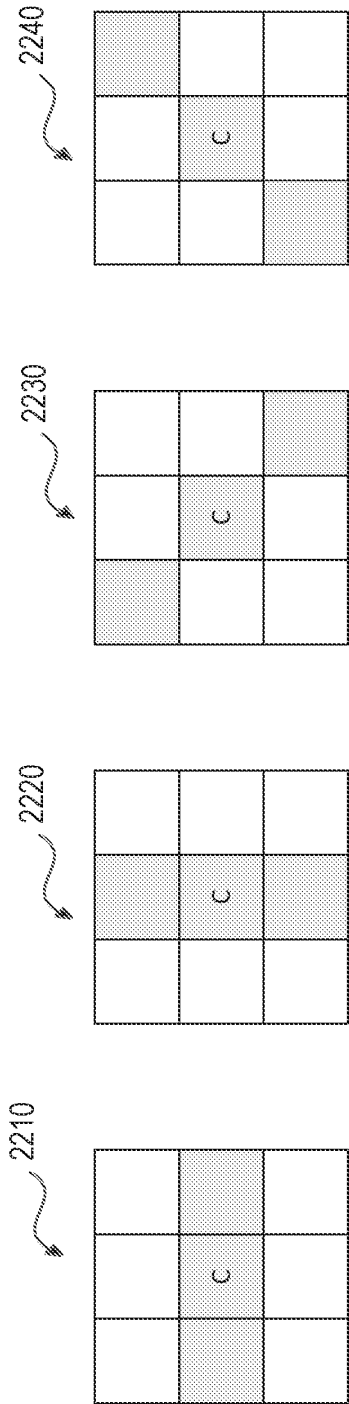


FIG. 22

2300

Category	Condition
1	$c < 2$ neighbors
2	$c < 1$ neighbor && $c == 1$ neighbor
3	$c > 1$ neighbor && $c == 1$ neighbor
4	$c > 2$ neighbors
0	None of the above

FIG. 23

2400

sao_offset_vlc(rx, ry, cldx) {	Descriptor
sao_type_idx[cldx][rx][ry]	ue(v)
if(sao_type_idx[cldx][rx][ry] == 5) {	
sao_band_position[cldx][rx][ry]	u(5)
for(i = 0; i < 4; i++)	
sao_offset[cldx][rx][ry][i]	se(v)
} else if(sao_type_idx[cldx][rx][ry] != 0)	
for(i = 0; i < 4; i++)	
sao_offset[cldx][rx][ry][i]	ue(v)
}	

FIG. 24

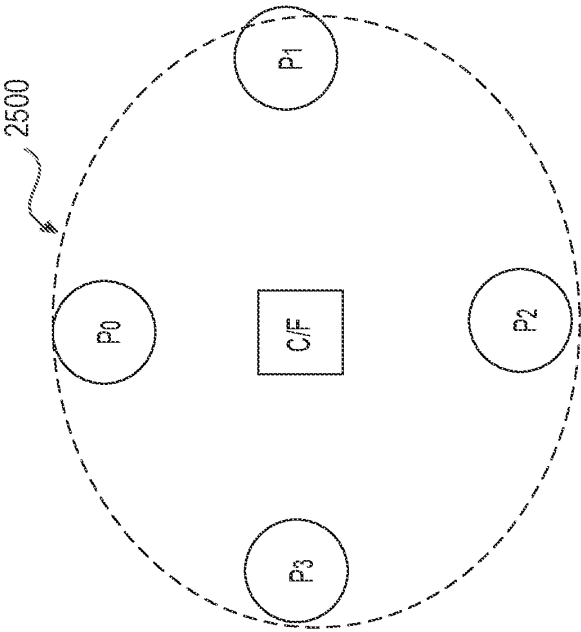


FIG. 25

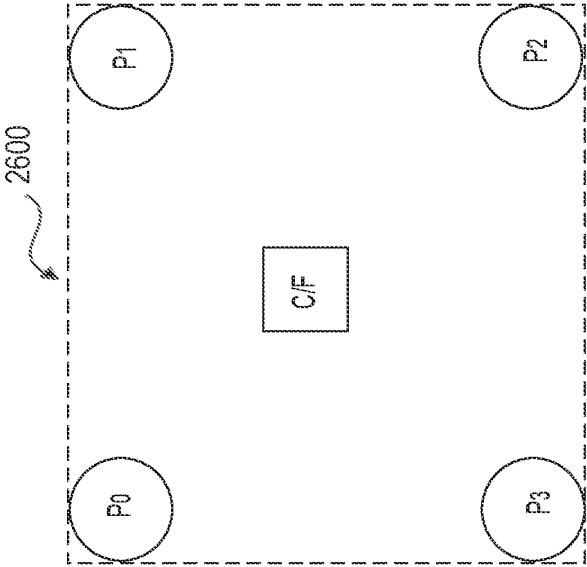
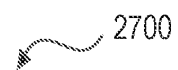


FIG. 26

 2700

Combination	d0	d1	d2	d3	Offset
0	-1	-1	-1	-1	s0
1	-1	-1	-1	0	s1
2	-1	-1	-1	1	s2
3	-1	-1	0	-1	s3
4	-1	-1	0	0	s4
5	-1	-1	0	1	s5
6	-1	-1	1	-1	s6
7	-1	-1	1	0	s7
8	-1	-1	1	1	s8
9	-1	0	-1	-1	s9
10	-1	0	-1	0	s10
11	-1	0	-1	1	s11
12	-1	0	0	-1	s12
13	-1	0	0	0	s13
14	-1	0	0	1	s14
15	-1	0	1	-1	s15
16	-1	0	1	0	s16
17	-1	0	1	1	s17
18	-1	1	-1	-1	s18
19	-1	1	-1	0	s19
20	-1	1	-1	1	s20
21	-1	1	0	-1	s21
22	-1	1	0	0	s22
23	-1	1	0	1	s23
24	-1	1	1	-1	s24
25	-1	1	1	0	s25
26	-1	1	1	1	s26

FIG. 27A

 2700

Combination	d0	d1	d2	d3	Offset
27	0	-1	-1	-1	s27
28	0	-1	-1	0	s28
29	0	-1	-1	1	s29
30	0	-1	0	-1	s30
31	0	-1	0	0	s31
32	0	-1	0	1	s32
33	0	-1	1	-1	s33
34	0	-1	1	0	s34
35	0	-1	1	1	s35
36	0	0	-1	-1	s36
37	0	0	-1	0	s37
38	0	0	-1	1	s38
39	0	0	0	-1	s39
40	0	0	0	0	s40
41	0	0	0	1	s41
42	0	0	1	-1	s42
43	0	0	1	0	s43
44	0	0	1	1	s44
45	0	1	-1	-1	s45
46	0	1	-1	0	s46
47	0	1	-1	1	s47
48	0	1	0	-1	s48
49	0	1	0	0	s49
50	0	1	0	1	s50
51	0	1	1	-1	s51
52	0	1	1	0	s52
53	0	1	1	1	s53

FIG. 27B

 2700

Combination	d0	d1	d2	d3	Offset
54	1	-1	-1	-1	s54
55	1	-1	-1	0	s55
56	1	-1	-1	1	s56
57	1	-1	0	-1	s57
58	1	-1	0	0	s58
59	1	-1	0	1	s59
60	1	-1	1	-1	s60
61	1	-1	1	0	s61
62	1	-1	1	1	s62
63	1	0	-1	-1	s63
64	1	0	-1	0	s64
65	1	0	-1	1	s65
66	1	0	0	-1	s66
67	1	0	0	0	s67
68	1	0	0	1	s68
69	1	0	1	-1	s69
70	1	0	1	0	s70
71	1	0	1	1	s71
72	1	1	-1	-1	s72
73	1	1	-1	0	s73
74	1	1	-1	1	s74
75	1	1	0	-1	s75
76	1	1	0	0	s76
77	1	1	0	1	s77
78	1	1	1	-1	s78
79	1	1	1	0	s79
80	1	1	1	1	s80

FIG. 27C

2800

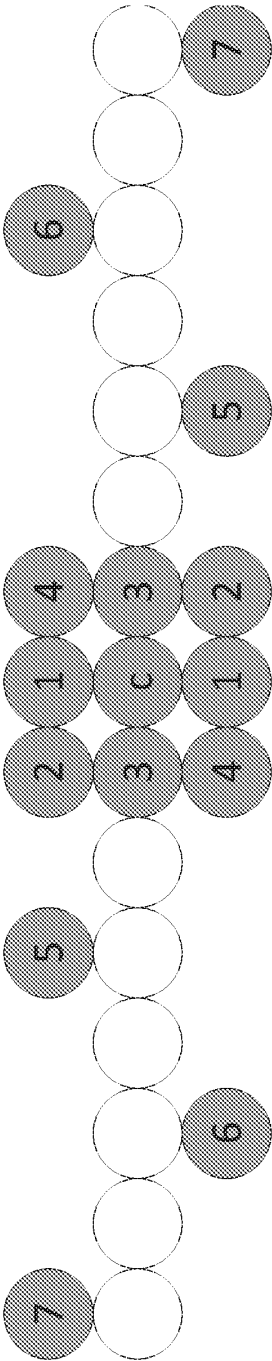


FIG. 28

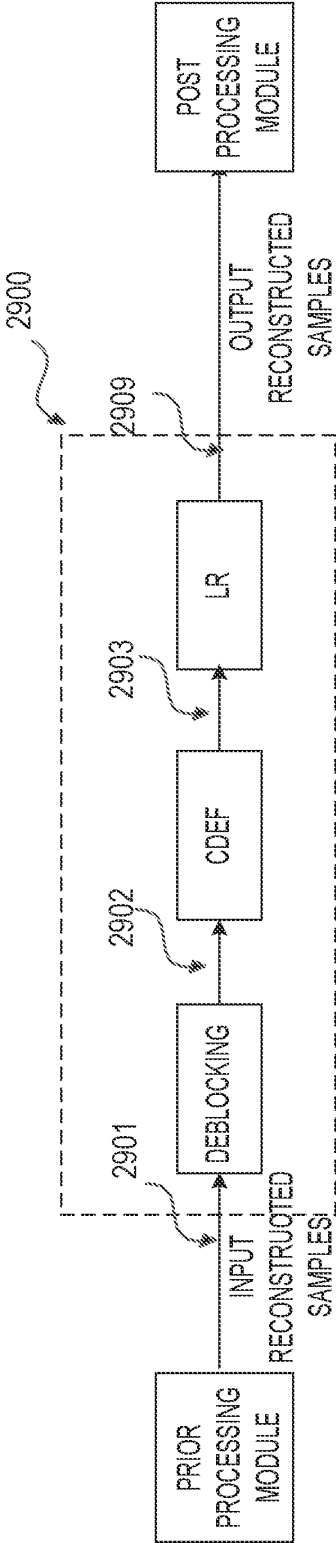


FIG. 29

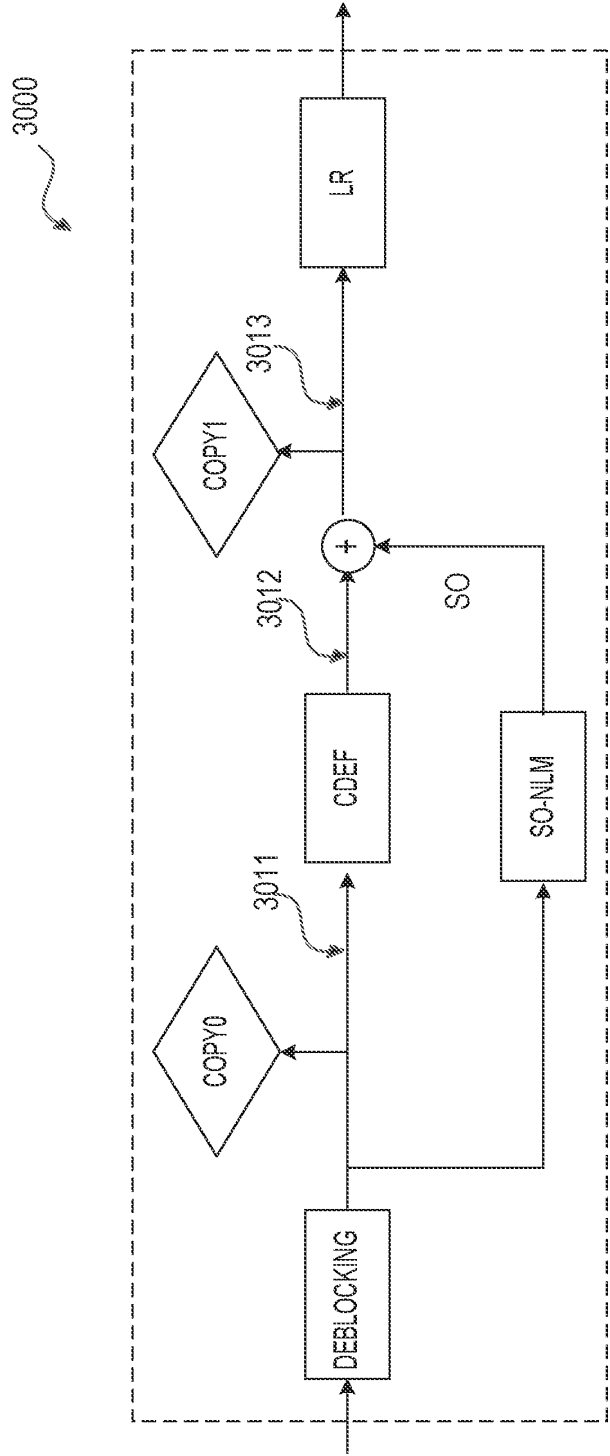


FIG. 30

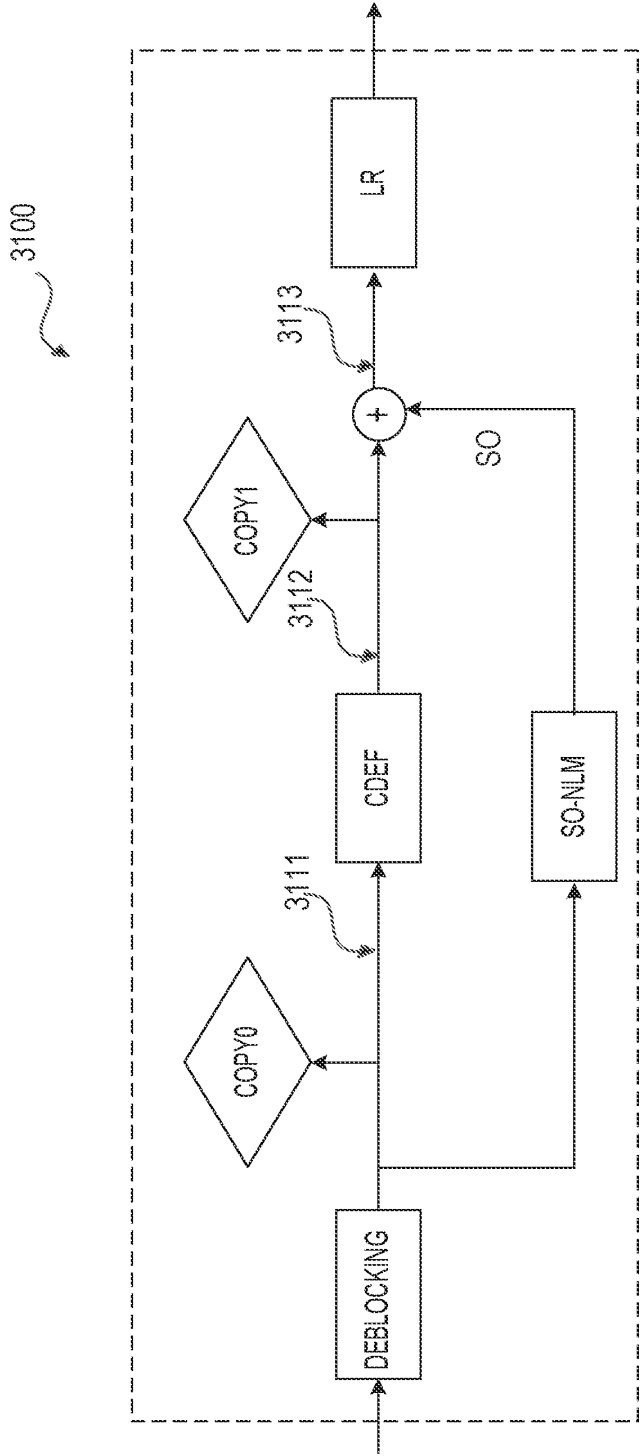


FIG. 31

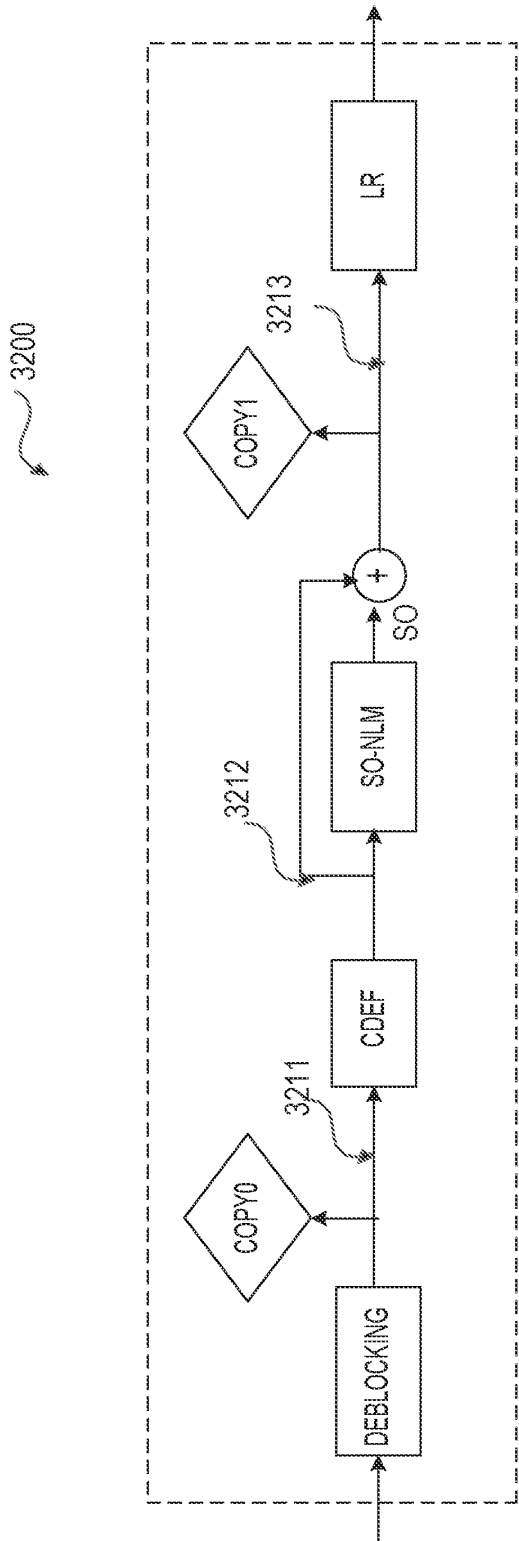


FIG. 32

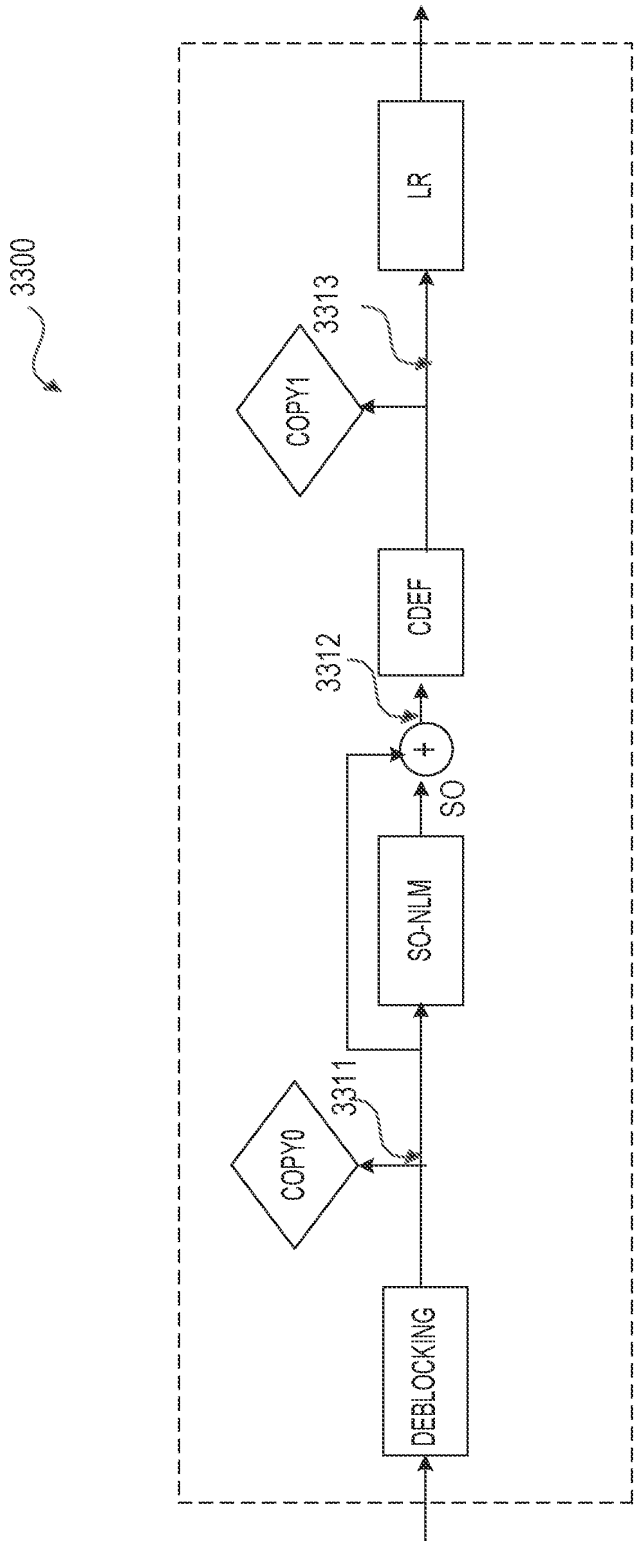


FIG. 33

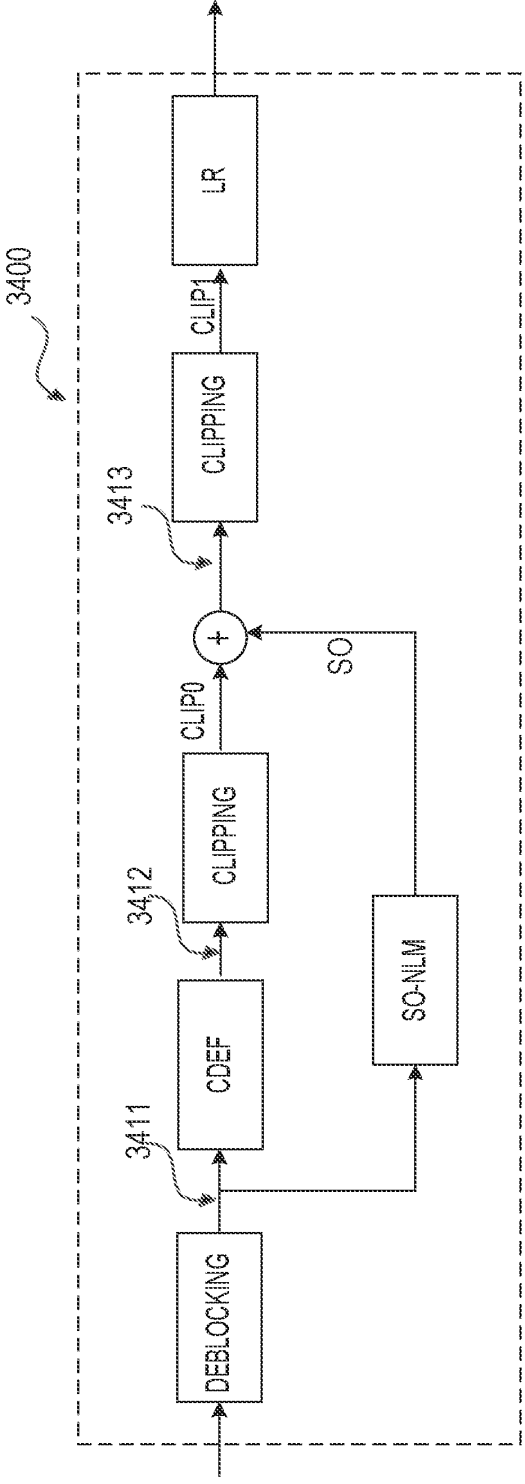


FIG. 34

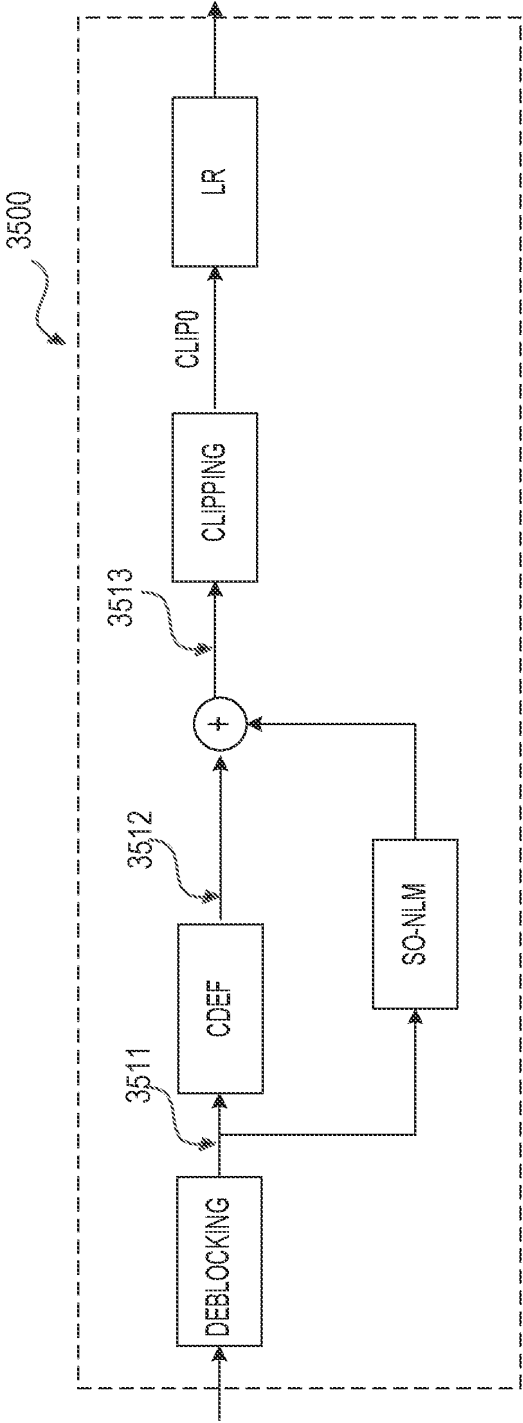
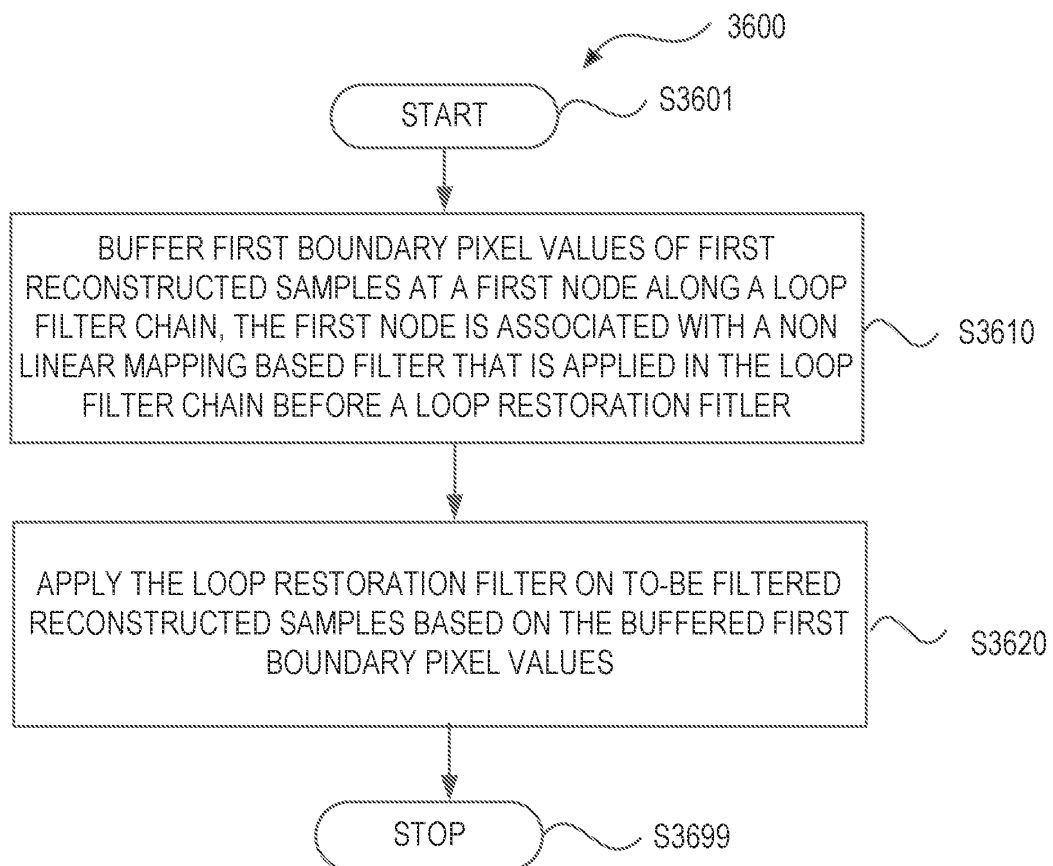


FIG. 35

**FIG. 36**

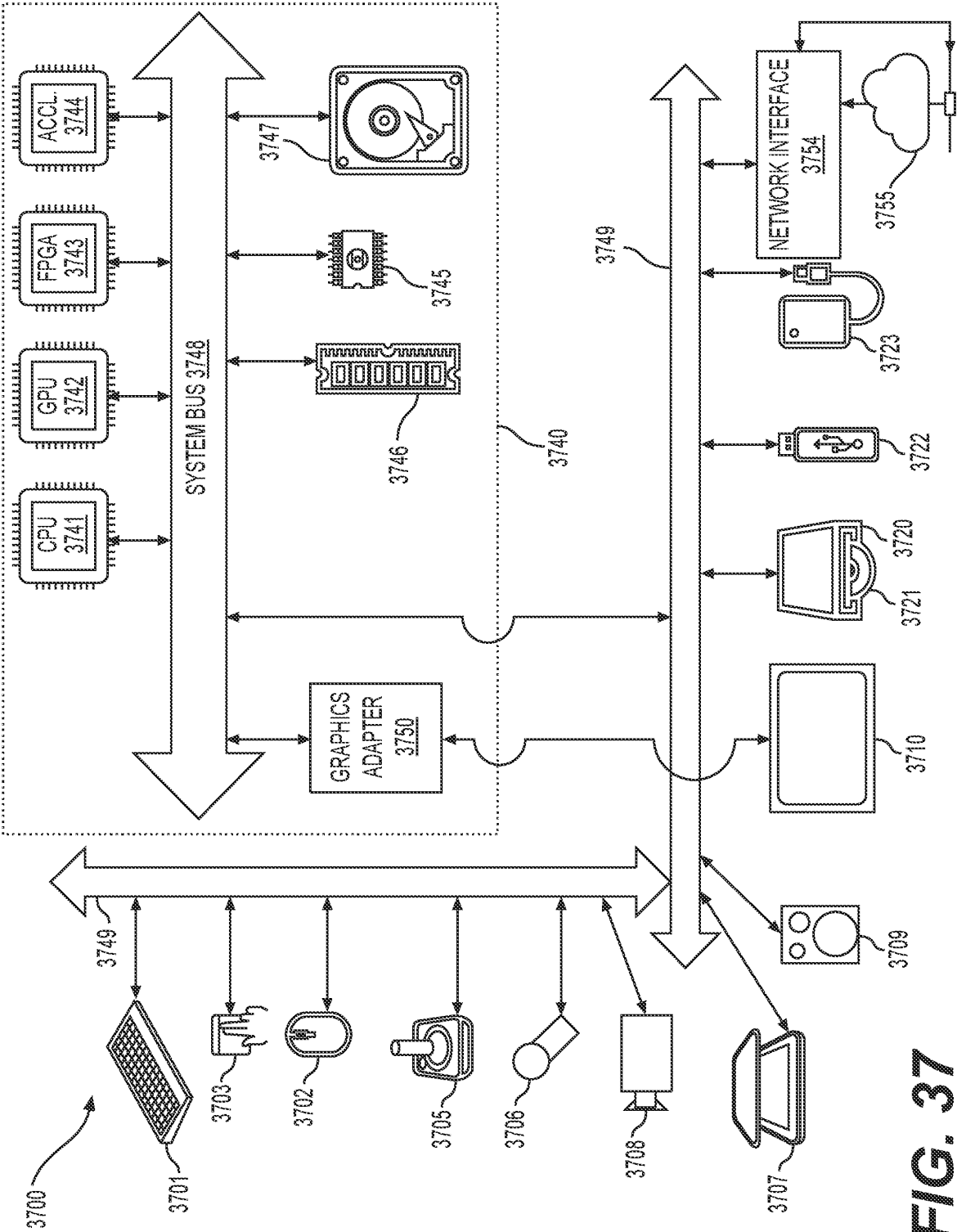


FIG. 37