

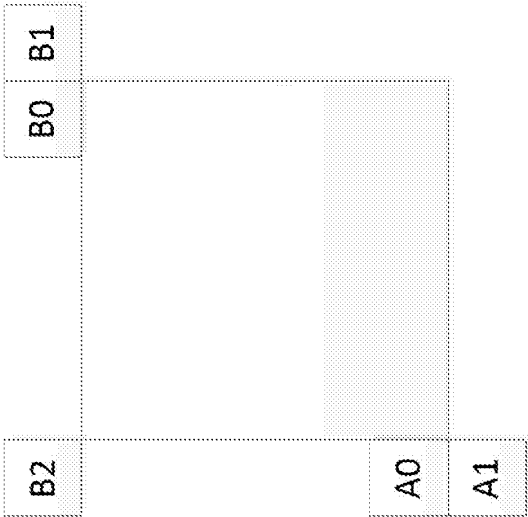


FIG. 1

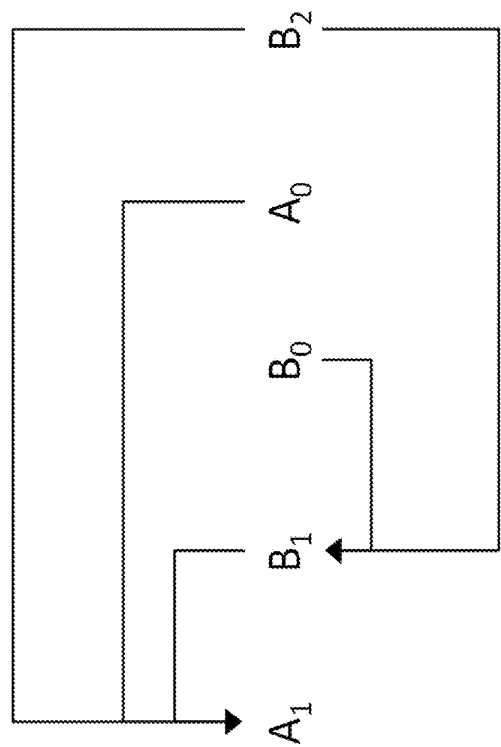


FIG. 2

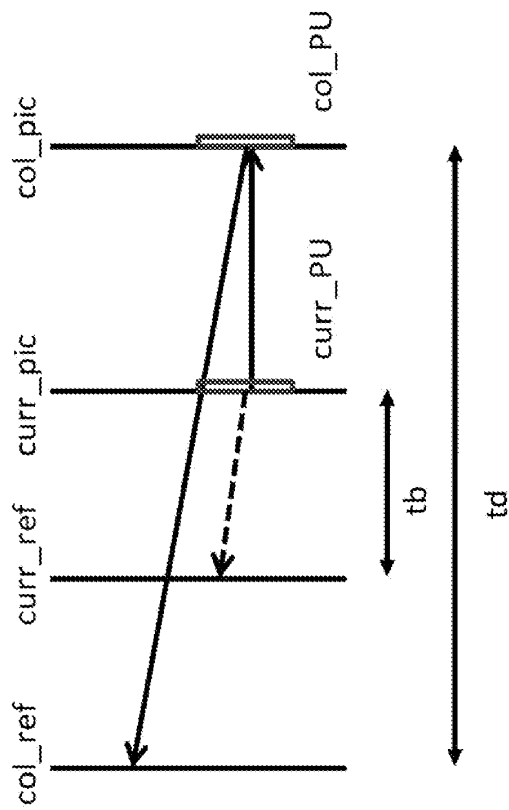


FIG. 3

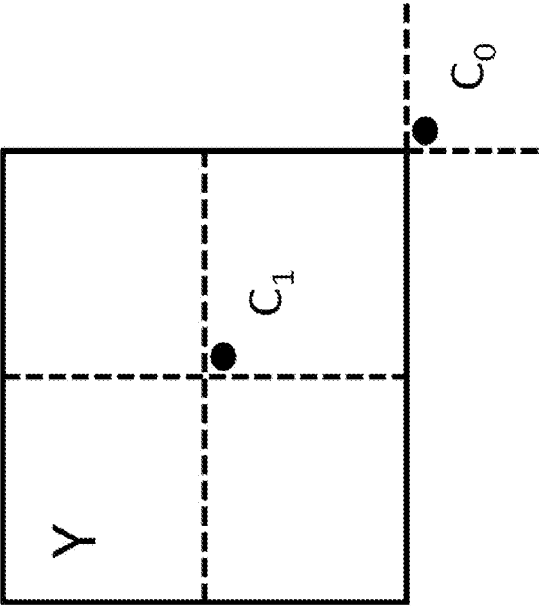


FIG. 4

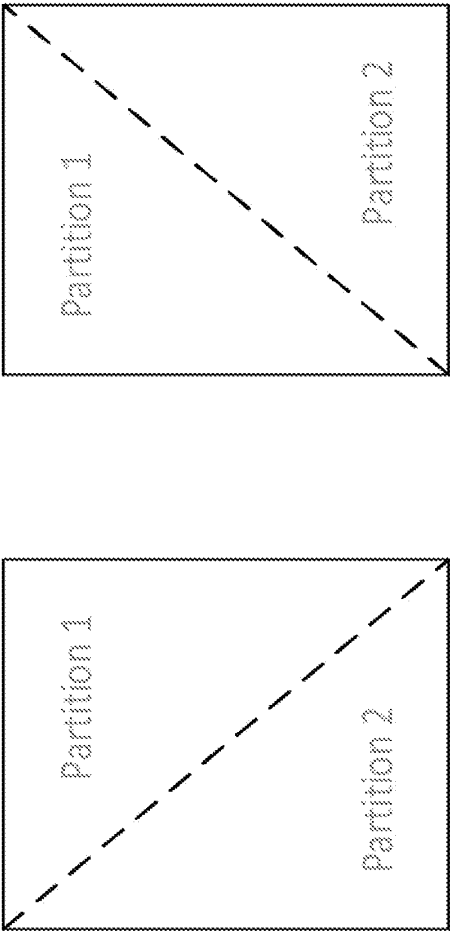


FIG. 5

	LO MV	L1 MV
Merge Index		
0	x	
1		x
2	x	
3		x
4	x	

FIG. 6

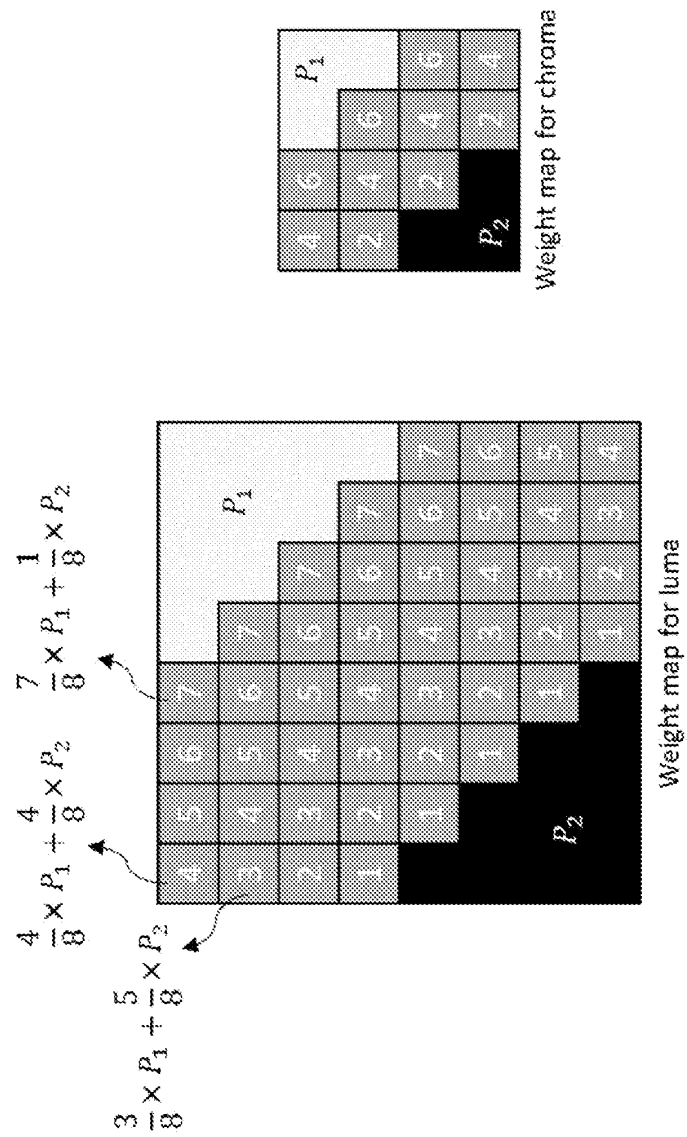


FIG. 7

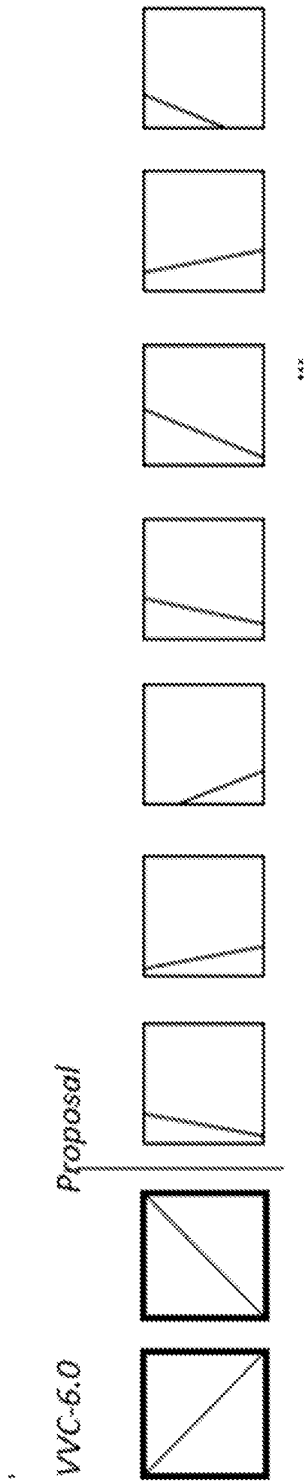


FIG. 8

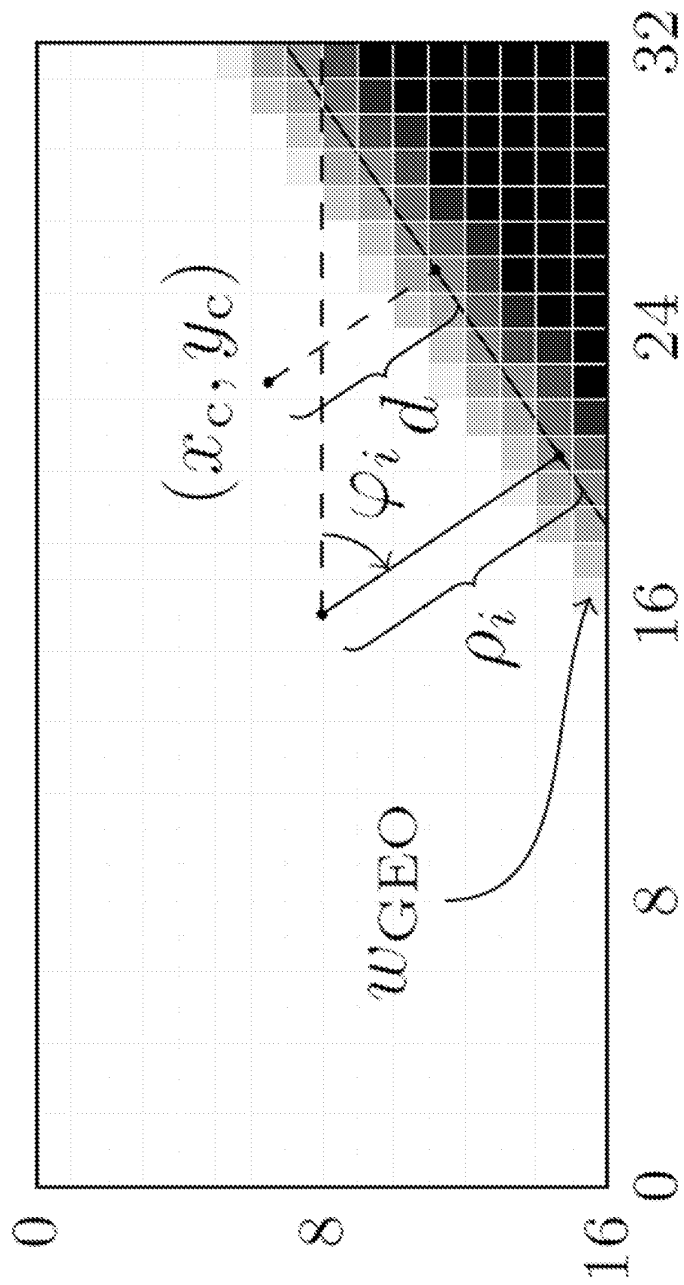


FIG. 9

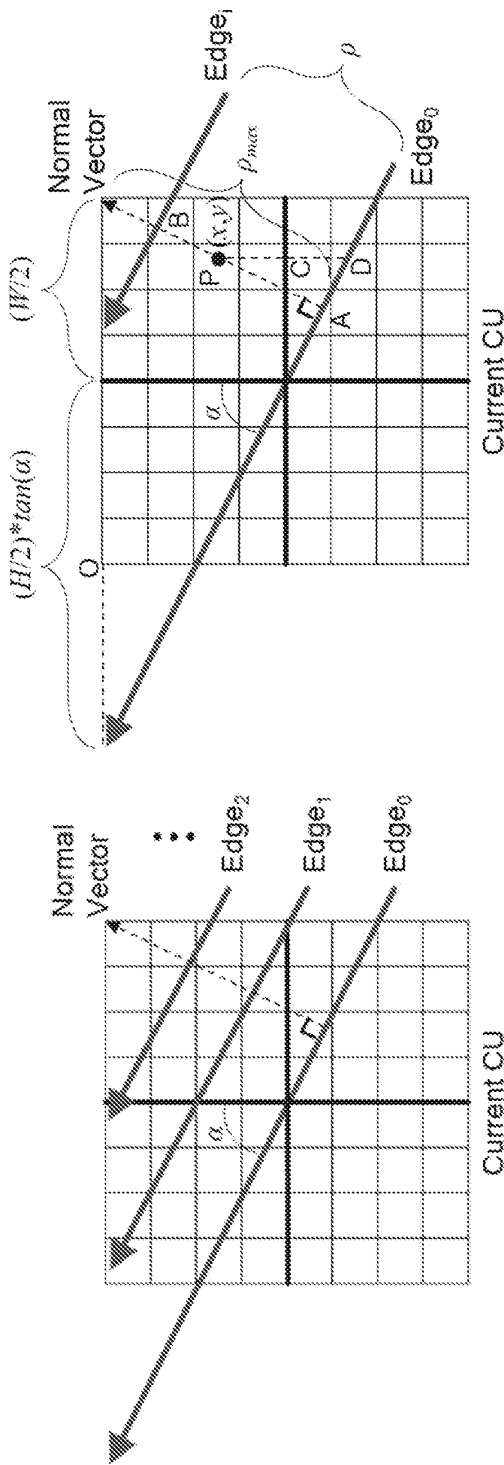


FIG. 10A

FIG. 10B

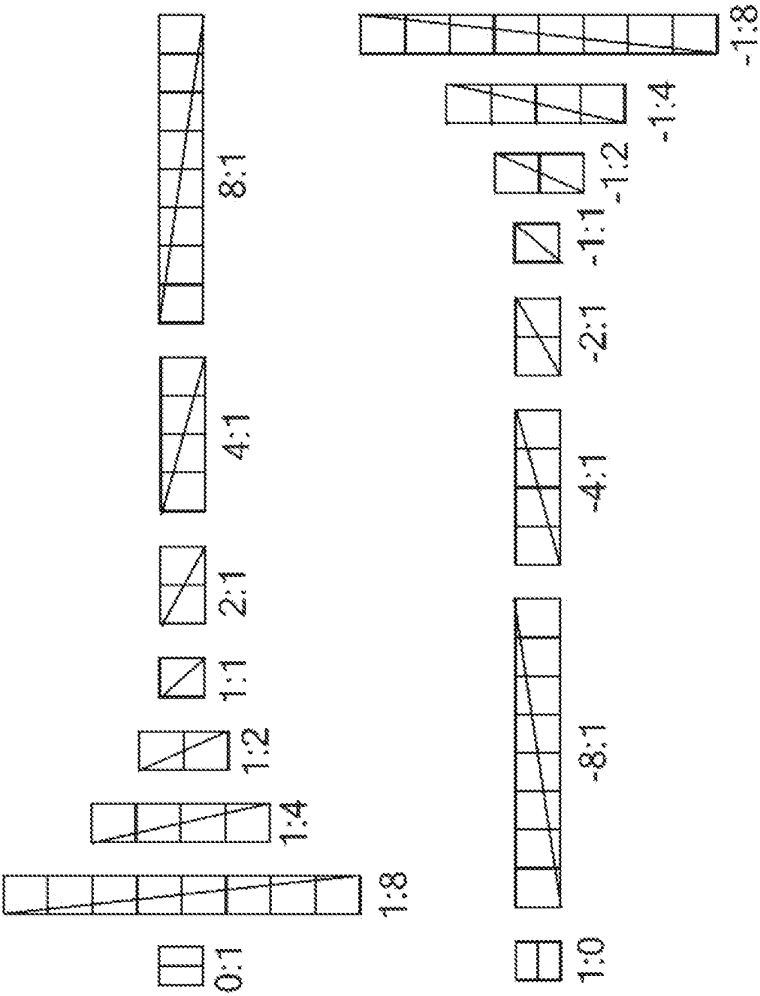


FIG. 11

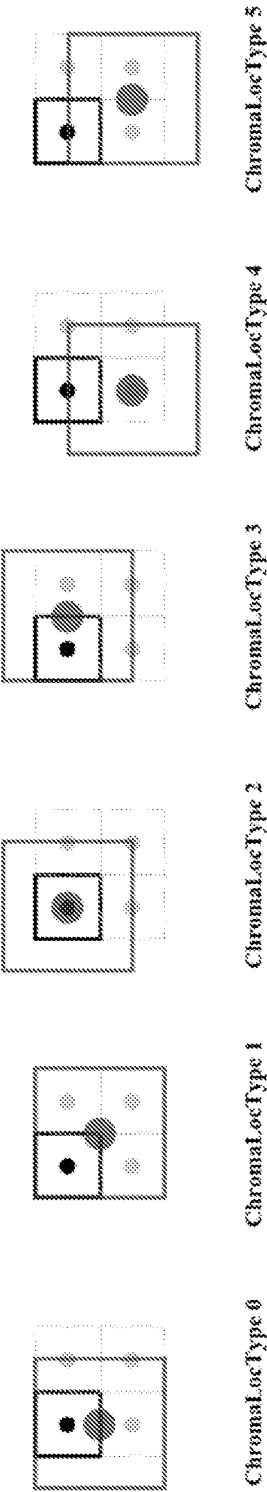


FIG. 12

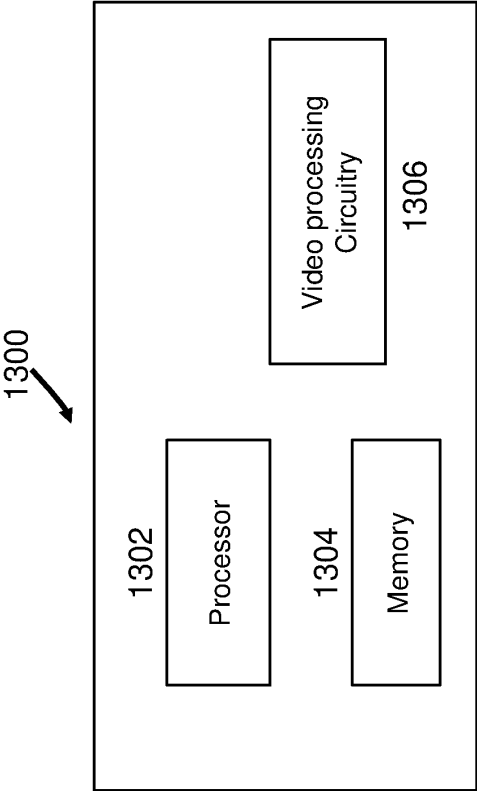


FIG. 13A

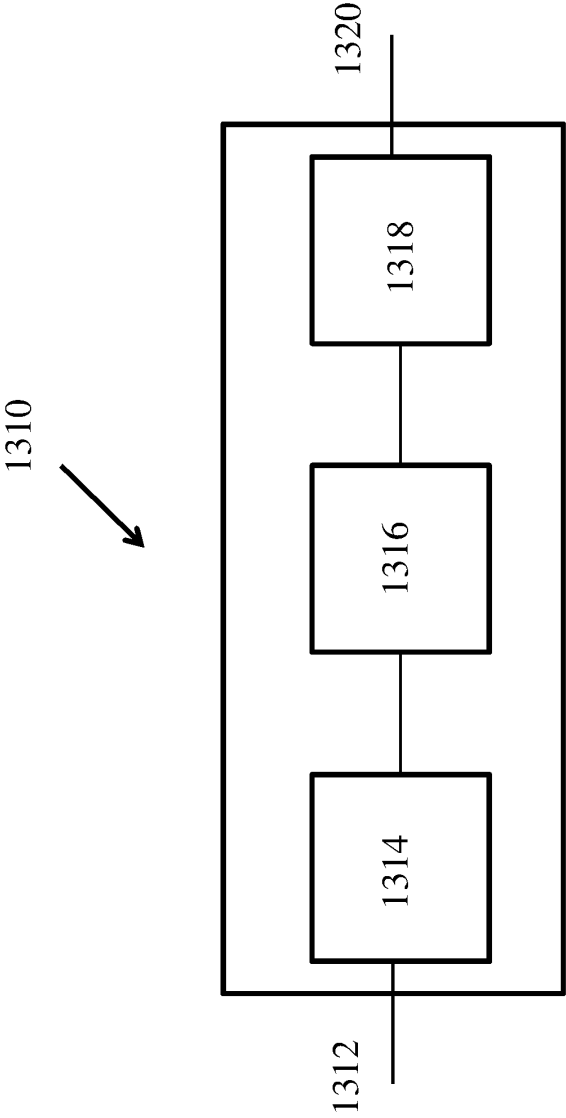


FIG. 13B

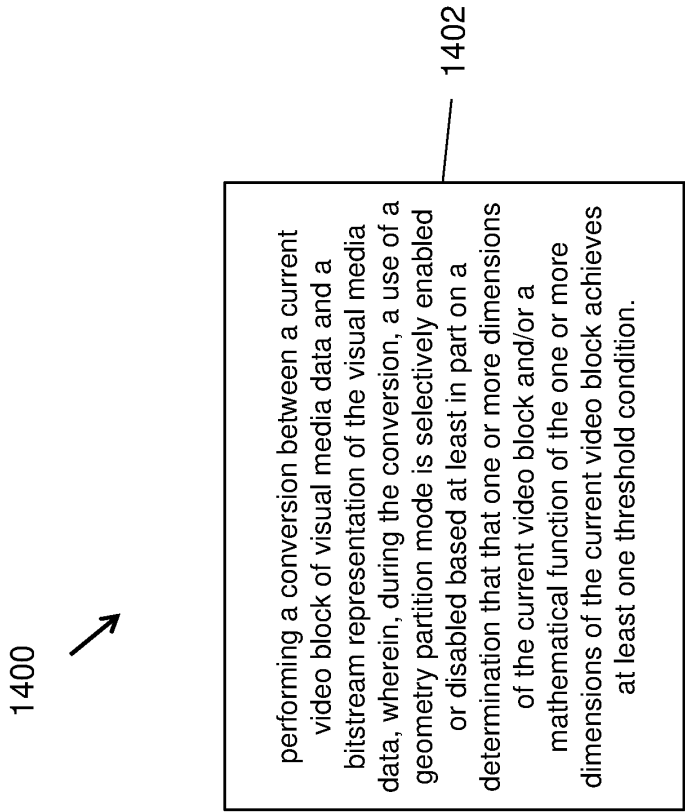


FIG. 14

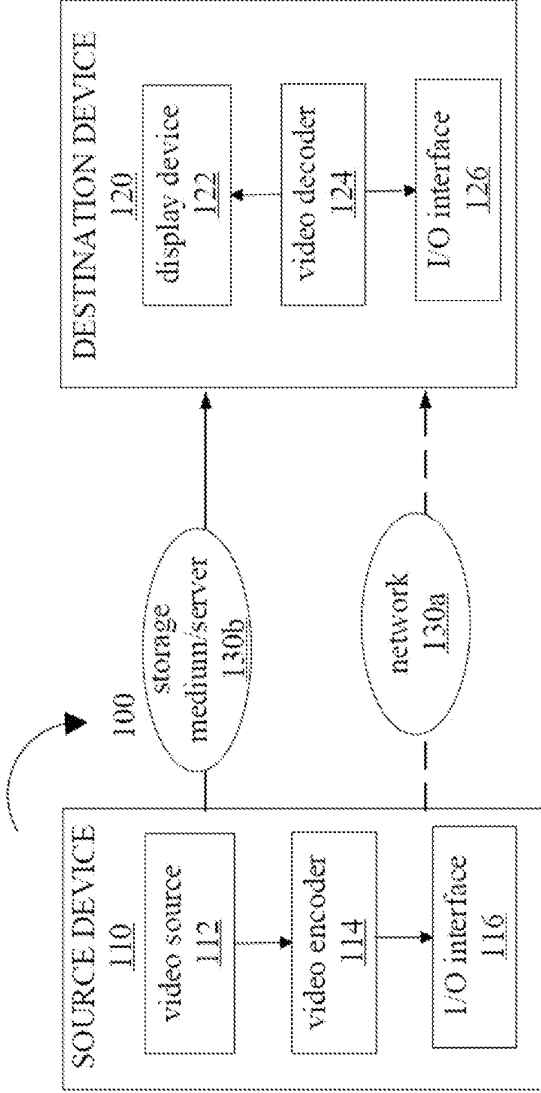


FIG. 15

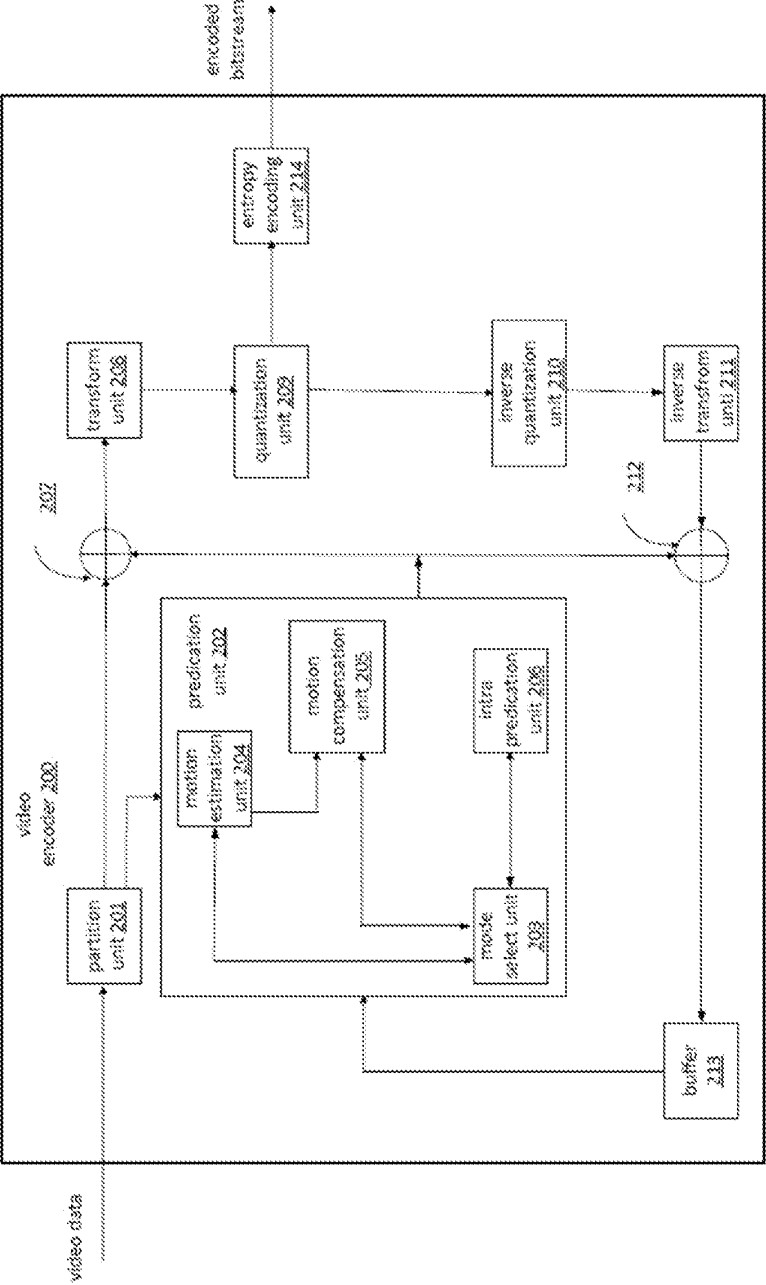


FIG. 16

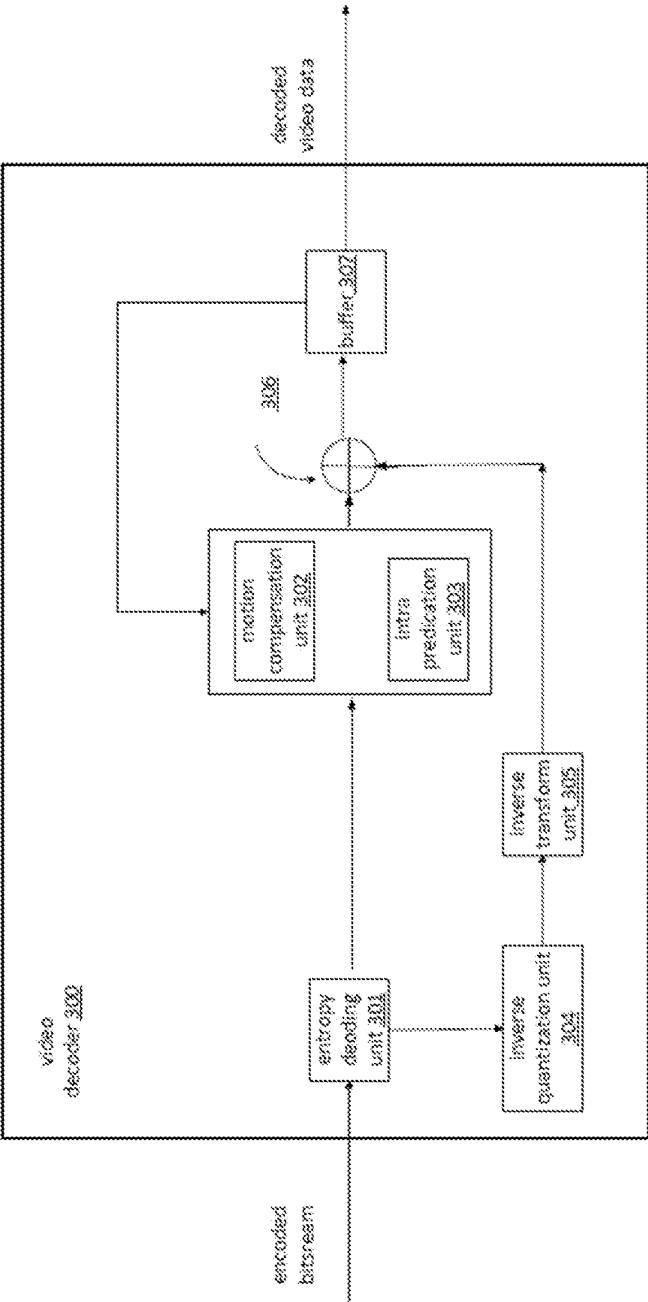


FIG. 17

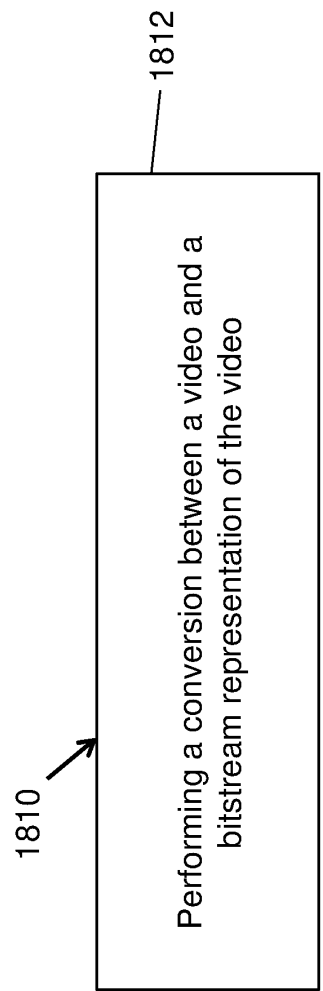


FIG. 18A

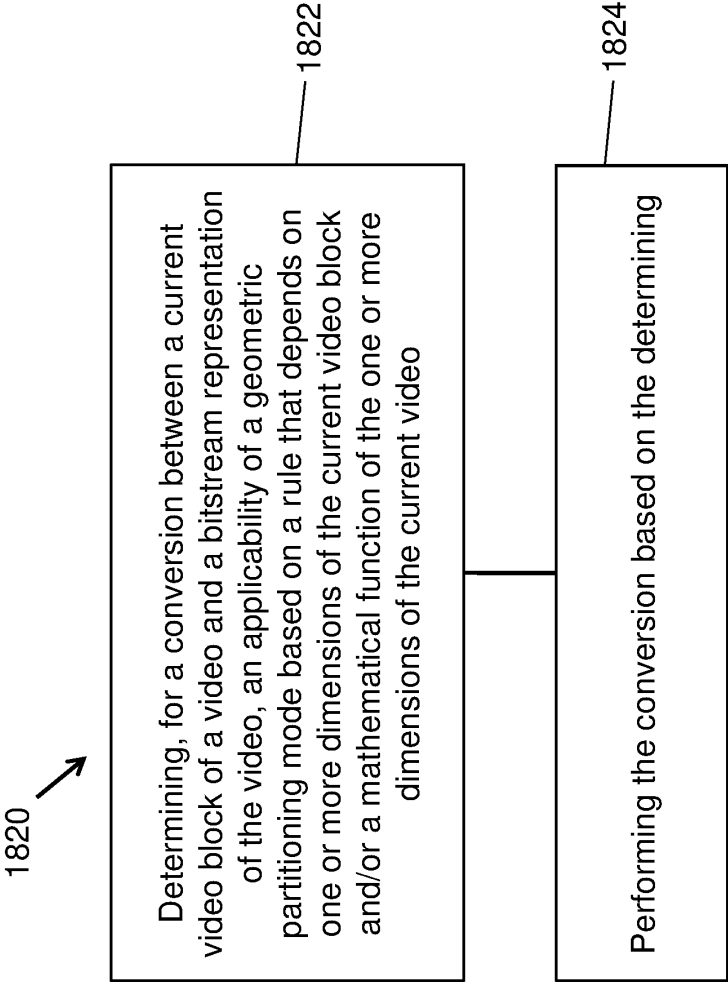


FIG. 18B

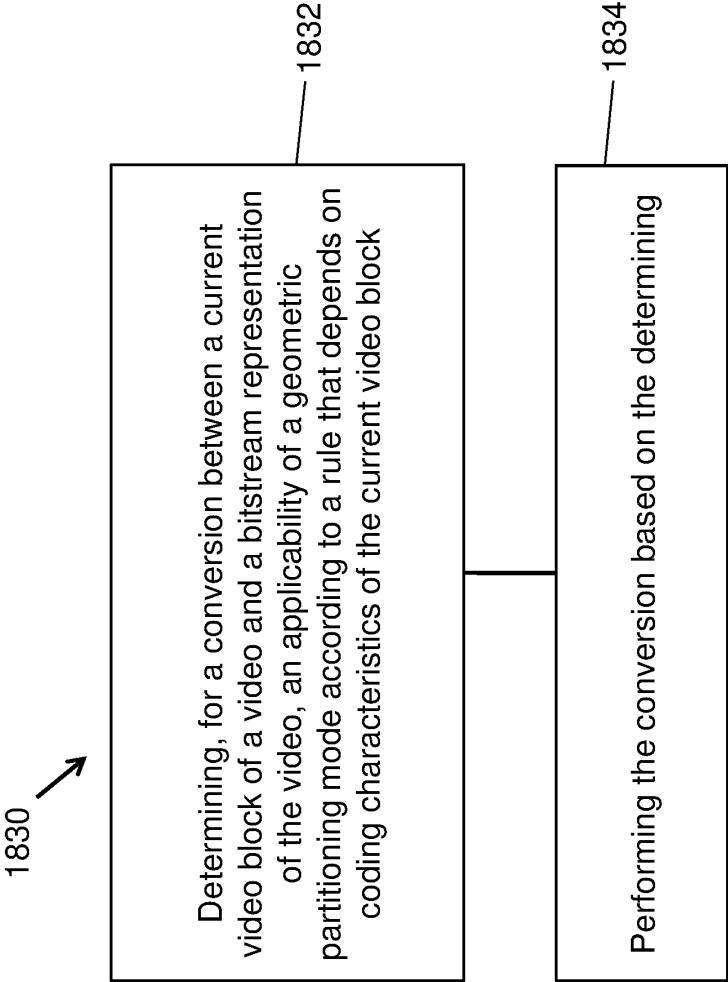


FIG. 18C

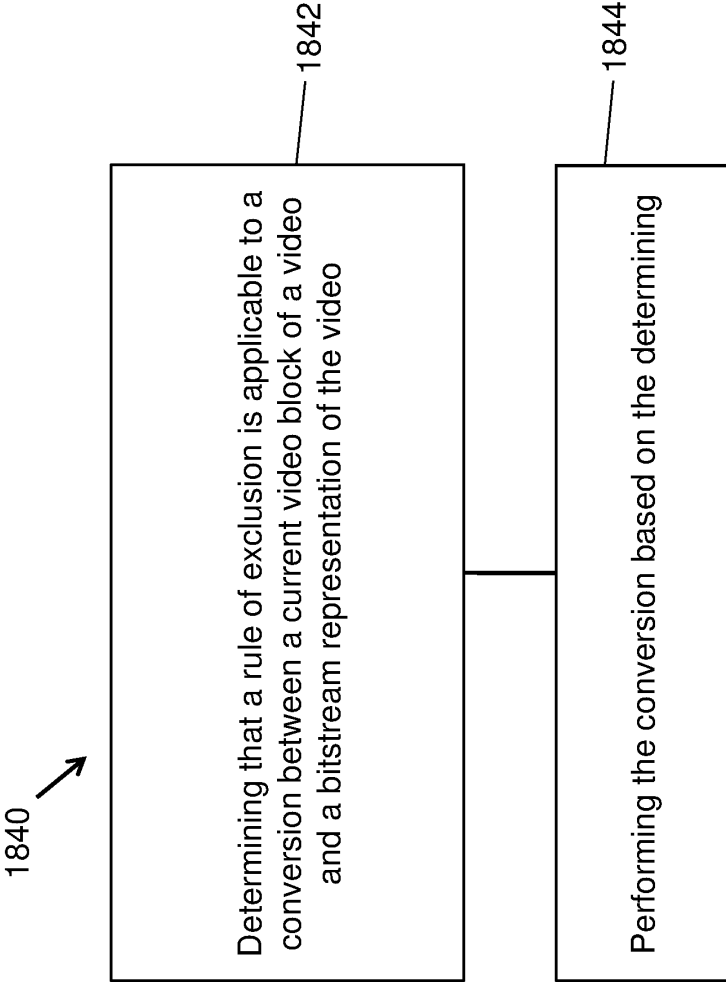


FIG. 18D

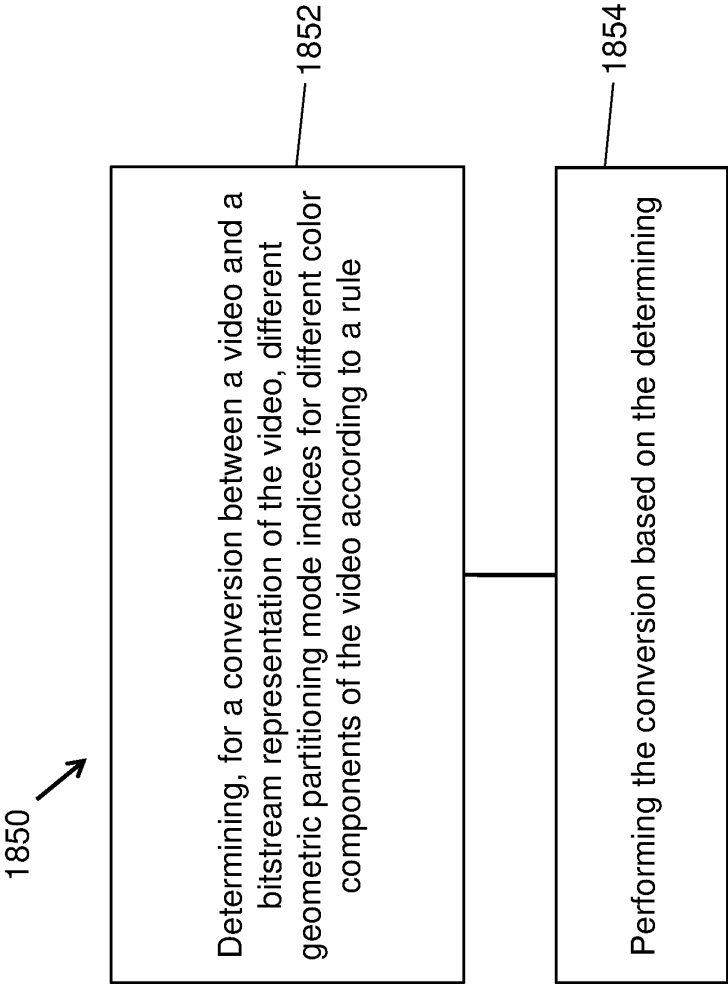


FIG. 18E

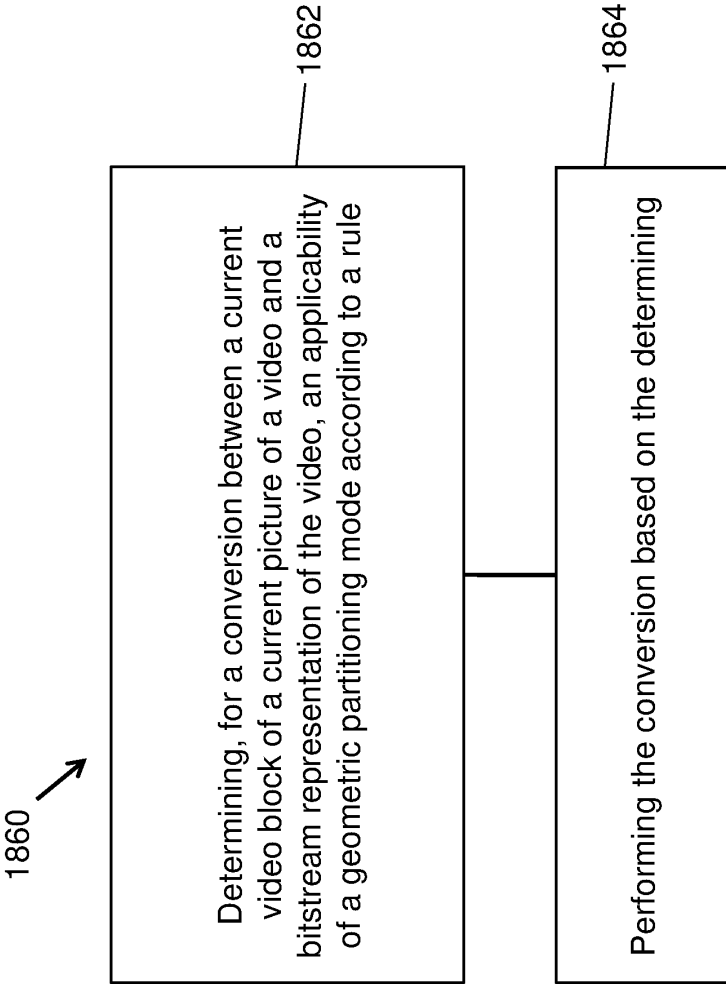


FIG. 18F

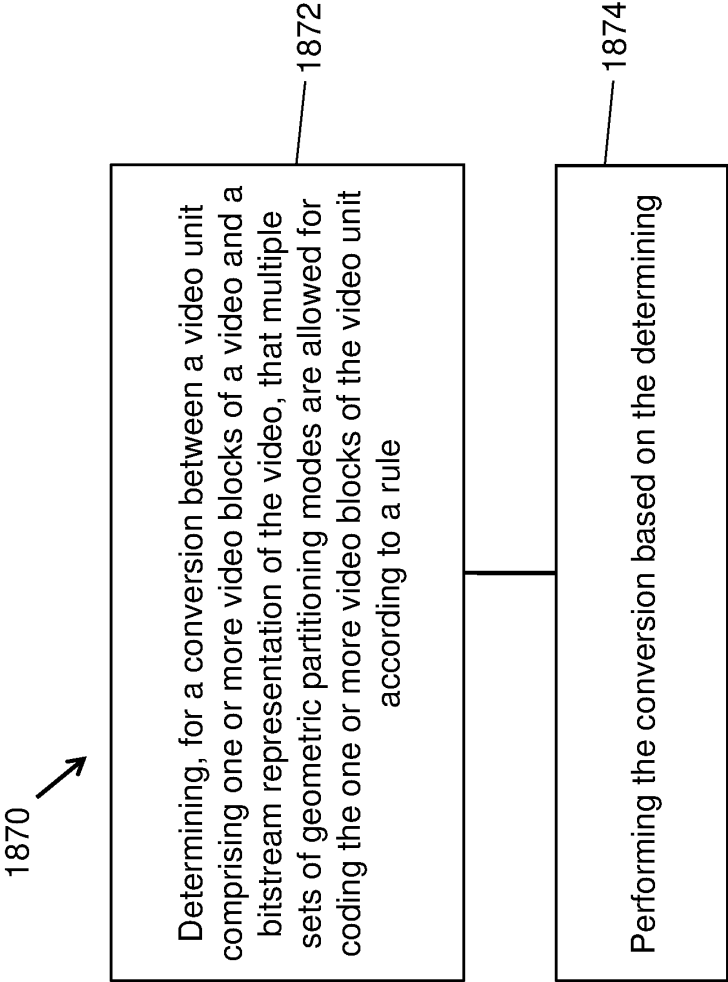


FIG. 18G

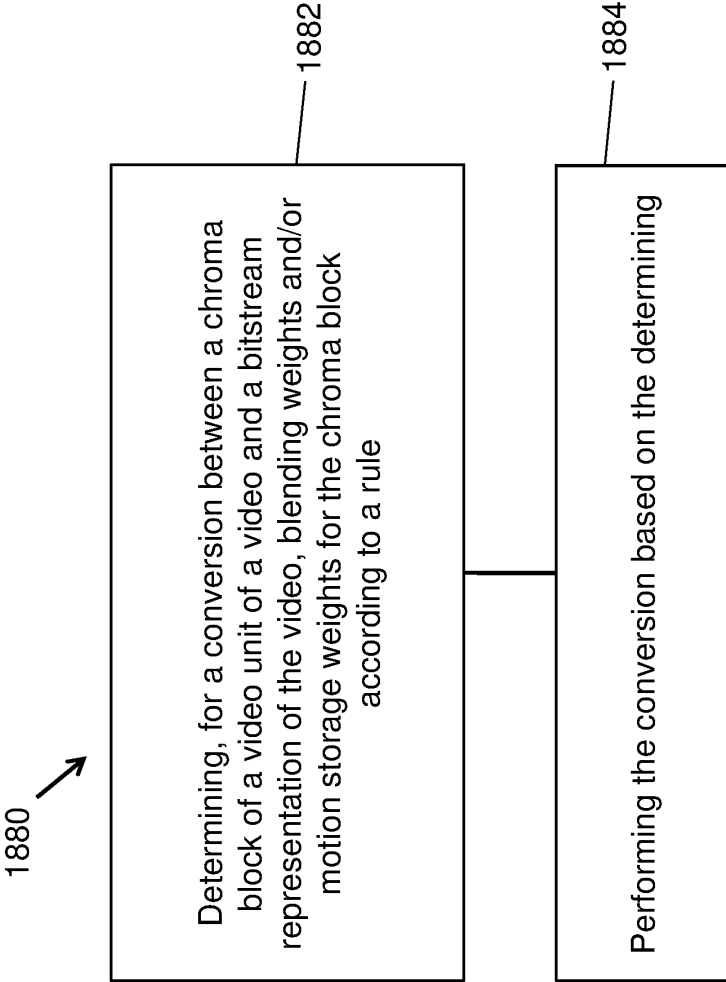


FIG. 18H

wedge_partiti on_idx	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
angleidx	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4
distanceidx	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2
wedge_partiti on_idx	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
angleidx	4	5	5	5	5	6	6	6	7	7	7	7	8	8	8	8	9	9
distanceidx	3	0	1	2	3	1	2	3	0	1	2	3	0	1	2	3	0	1
wedge_partiti on_idx	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
angleidx	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	14	14
distanceidx	2	3	0	1	2	3	0	1	2	3	1	2	3	1	2	3	1	2
wedge_partiti on_idx	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
angleidx	14	15	15	15	16	16	16	17	17	17	18	18	18	19	19	19	20	20
distanceidx	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
wedge_partiti on_idx	72	73	74	75	76	77	78	79	80	81								
angleidx	20	21	21	21	22	22	22	23	23	23								
distanceidx	3	1	2	3	1	2	3	1	2	3								

FIG. 19

merge_geo_parti tion_idx	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
angleidx	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4
distanceldx	1	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2
merge_geo_parti tion_idx	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
angleidx	4	6	6	8	8	8	8	9	9	9	9	10	10	10	10	11	11
distanceldx	3	1	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1
merge_geo_parti tion_idx	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
angleidx	11	11	12	12	13	13	13	14	14	14	15	15	15	16	16	16	18
distanceldx	2	3	1	3	1	2	3	1	2	3	1	2	3	1	2	3	1
merge_geo_parti tion_idx	51	52	53	54	55	56	57	58	59	60	61	62	63				
angleidx	18	20	20	20	21	21	21	22	22	22	23	23	23				
distanceldx	3	1	2	3	1	2	3	1	2	3	1	2	3				

FIG. 20A

merge_geo_partit ion_idx	0		1		2		3		4		5		6		7	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	18	12	6	0	12	0	16	1	20	12	2	2	0	2	4	1
distanceldx	1	1	1	3	3	1	1	3	3	3	3	0	3	2	0	1
merge_geo_partit ion_idx	8		9		10		11		12		13		14		15	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	4	2	6	1	14	1	8	2	16	3	22	14	3	3	9	9
distanceldx	1	3	3	0	3	2	0	1	2	0	3	3	0	1	0	0
merge_geo_partit ion_idx	16		17		18		19		20		21		22		23	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	16	11	3	13	18	14	20	14	20	22	4	3	8	3	9	10
distanceldx	3	2	1	3	3	1	1	2	2	1	3	2	2	3	2	1
merge_geo_partit ion_idx	24		25		26		27		28		29		30		31	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	0	22	10	4	2	8	3	11	9	22	12	23	14	6	15	10
distanceldx	1	3	3	3	2	3	2	3	3	2	1	3	1	3	3	3

FIG. 20B

merge_geo_partiti on_idx	0		1		2		3		4		5		6		7	
isNarrowBk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	4	2	8	1	18	12	6	0	12	0	16	1	20	12	2	2
distanceldx	0	0	0	0	1	1	1	3	3	1	1	3	3	3	3	2
merge_geo_partiti on_idx	8		9		10		11		12		13		14		15	
isNarrowBk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	0	1	4	2	6	1	14	2	16	3	22	14	3	3	9	9
distanceldx	3	1	1	3	3	2	3	1	2	0	3	3	0	1	0	0
merge_geo_partiti on_idx	16		17		18		19		20		21		22		23	
isNarrowBk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	16	11	3	13	18	14	20	14	20	22	4	3	8	3	9	10
distanceldx	3	2	1	3	3	3	1	2	2	1	3	2	2	3	2	1
merge_geo_partiti on_idx	24		25		26		27		28		29		30		31	
isNarrowBk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	0	22	10	4	2	8	3	11	9	22	12	23	14	6	15	10
distanceldx	1	3	3	3	2	3	2	3	3	2	1	3	1	3	3	3

FIG. 20C

merge_geo_partit ion_idx	0		1		2		3		4		5		6		7	
lsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	3	9	3	9	18	12	6	0	12	0	16	1	20	12	2	2
distanceldx	0	0	0	0	1	1	1	3	3	1	1	3	3	3	3	0
merge_geo_partit ion_idx	8		9		10		11		12		13		14		15	
lsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	0	2	4	1	4	2	6	1	14	1	8	2	16	14	22	3
distanceldx	3	2	0	1	1	3	3	0	3	2	0	1	2	3	3	1
merge_geo_partit ion_idx	16		17		18		19		20		21		22		23	
lsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	16	11	3	13	18	14	20	14	20	22	4	3	8	3	9	10
distanceldx	3	2	1	3	3	1	1	2	2	1	3	2	2	3	2	1
merge_geo_partit ion_idx	24		25		26		27		28		29		30		31	
lsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	0	22	10	4	2	8	3	11	9	22	12	23	14	6	15	10
distanceldx	1	3	3	3	2	3	2	3	3	2	1	3	1	3	3	3

FIG. 20D

merge_geo_partiti on_idx	0		1		2		3		4		5		6		7	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	4	2	8	1	3	3	9	9	18	12	6	0	12	0	16	1
distanceldx	0	0	0	0	0	0	0	0	1	1	1	3	3	1	1	3
merge_geo_partiti on_idx	8		9		10		11		12		13		14		15	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	20	12	2	2	0	1	4	2	6	1	14	2	16	14	22	3
distanceldx	3	3	3	2	3	1	1	3	3	2	3	1	2	3	3	1
merge_geo_partiti on_idx	16		17		18		19		20		21		22		23	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	16	11	3	13	18	14	20	14	20	22	4	3	8	3	9	10
distanceldx	3	2	1	3	3	1	1	2	2	1	3	2	2	3	2	1
merge_geo_partiti on_idx	24		25		26		27		28		29		30		31	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	0	22	10	4	2	8	3	11	9	22	12	23	14	6	15	10
distanceldx	1	3	3	3	2	3	2	3	3	2	1	3	1	3	3	3

FIG. 20E

merge_geo_partiti on_idx	0		1		2		3		4		5		6		7	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	4	2	8	1	3	10	9	11	18	3	6	9	12	12	16	0
distanceidx	0	0	0	0	0	0	0	0	1	0	1	0	3	1	1	3
merge_geo_partiti on_idx	8		9		10		11		12		13		14		15	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	20	0	2	1	0	12	4	2	6	1	14	2	16	1	22	2
distanceidx	3	1	3	3	3	3	1	2	3	1	3	3	2	2	3	1
merge_geo_partiti on_idx	16		17		18		19		20		21		22		23	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	16	14	3	3	18	11	20	14	20	22	4	3	8	3	9	10
distanceidx	3	3	1	1	3	2	1	2	2	1	3	2	2	2	2	1
merge_geo_partiti on_idx	24		25		26		27		28		29		30		31	
IsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	0	22	10	4	2	8	3	11	9	22	12	23	14	6	15	10
distanceidx	1	3	3	3	2	3	2	3	3	2	1	3	1	3	3	3

FIG. 20F

merge_geo_partiti on_idx	0		1		2		3		4		5		6		7	
lsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	4	2	8	1	3	3	9	9	2	10	10	11	18	12	6	0
distanceldx	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3
merge_geo_partiti on_idx	8		9		10		11		12		13		14		15	
lsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	12	0	16	1	20	12	2	2	0	1	4	2	6	1	14	2
distanceldx	3	1	1	3	3	3	3	2	3	1	1	3	3	2	3	1
merge_geo_partiti on_idx	16		17		18		19		20		21		22		23	
lsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	16	14	22	3	16	11	3	13	18	14	20	14	20	22	4	3
distanceldx	2	3	3	1	3	2	1	3	3	1	1	2	2	1	3	2
merge_geo_partiti on_idx	24		25		26		27		28		29		30		31	
lsNarrowBlk	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleidx	8	3	9	10	0	22	10	4	2	8	3	11	9	22	12	23
distanceldx	2	3	2	1	1	3	3	3	2	3	2	3	3	2	1	3

FIG. 20G

wedge_parti tion_idx'	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
angleidx	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4
distanceidx	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2
wedge_parti tion_idx'	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
angleidx	4	5	5	5	5	6	6	6	7	7	7	7	8	8	8	8	9	9
distanceidx	3	0	1	2	3	1	2	3	0	1	2	3	0	1	2	3	0	1
wedge_parti tion_idx'	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
angleidx	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	14	14
distanceidx	2	3	0	1	2	3	0	1	2	3	1	2	3	1	2	3	1	2
wedge_parti tion_idx'	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
angleidx	14	15	15	15	16	16	16	17	17	17	18	18	18	19	19	19	20	20
distanceidx	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
wedge_parti tion_idx'	72	73	74	75	76	77	78	79	80	81								
angleidx	20	21	21	21	22	22	22	23	23	23								
distanceidx	3	1	2	3	1	2	3	1	2	3								

FIG. 21

wedge_parti tion_idx'	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
angleidx	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4
distanceldx	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2
wedge_parti tion_idx'	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
angleidx	4	5	5	5	5	6	6	6	7	7	7	7	8	8	8	8	9	9
distanceldx	3	0	1	2	3	1	2	3	0	1	2	3	0	1	2	3	0	1
wedge_parti tion_idx'	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
angleidx	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	14	14
distanceldx	2	3	0	1	2	3	0	1	2	3	1	2	3	1	2	3	1	2
wedge_parti tion_idx'	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
angleidx	14	15	15	15	16	16	16	17	17	17	18	18	18	19	19	19	20	20
distanceldx	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
wedge_parti tion_idx'	72	73	74	75	76	77	78	79	80	81								
angleidx	20	21	21	21	22	22	22	23	23	23								
distanceldx	3	1	2	3	1	2	3	1	2	3								

FIG. 22

wedge_partition_idx	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
angleidx	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4
distanceidx	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2
wedge_partition_idx	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
angleidx	4	5	5	5	5	6	6	6	7	7	7	7	8	8	8	8	9	9
distanceidx	3	0	1	2	3	1	2	3	0	1	2	3	0	1	2	3	0	1
wedge_partition_idx	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
angleidx	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	14	14
distanceidx	2	3	0	1	2	3	0	1	2	3	1	2	3	1	2	3	1	2
wedge_partition_idx	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
angleidx	14	15	15	15	16	16	16	17	17	17	18	18	18	19	19	19	20	20
distanceidx	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
wedge_partition_idx	72	73	74	75	76	77	78	79	80	81								
angleidx	20	21	21	21	22	22	22	23	23	23								
distanceidx	3	1	2	3	1	2	3	1	2	3								

FIG. 23A

wedge_partitio n_idx	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
angleidx	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4
distanceidx	1	2	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3
wedge_partitio n_idx	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
angleidx	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9
distanceidx	1	2	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3
wedge_partitio n_idx	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
angleidx	10	10	11	11	11	12	12	12	13	13	13	14	14	14	15	15	16	16
distanceidx	1	2	1	2	3	1	2	3	1	2	3	1	2	3	1	2	1	2
wedge_partitio n_idx	54	55	56	57	58	59	60	61	62	63								
angleidx	16	17	17	17	18	18	18	19	19	19								
distanceidx	3	1	2	3	1	2	3	1	2	3								

FIG. 23B

geo_partition_idx		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
geo_partition_idx'	bHeight <= cbWidth	50	18	37	47	54	9	1	14	15	19	43	20	48	60	49	51
	cbHeight > cbWidth	36	1	0	5	37	6	8	3	9	2	4	7	10	43	11	13
geo_partition_idx		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
geo_partition_idx'	bHeight <= cbWidth	10	11	24	52	53	17	22	26	0	31	8	12	27	36	41	46
	cbHeight > cbWidth	34	40	41	42	58	12	24	29	60	17	23	35	59	63	19	31

FIG. 24A

geo_partition_idx	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
angleidx	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4
distanceldx	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2
geo_partition_idx	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
angleidx	4	5	5	5	5	6	6	6	7	7	7	7	8	8	8	8	9	9
distanceldx	3	0	1	2	3	1	2	3	0	1	2	3	0	1	2	3	0	1
geo_partition_idx	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
angleidx	9	9	10	10	10	10	11	11	11	11	12	12	12	13	13	13	14	14
distanceldx	2	3	0	1	2	3	0	1	2	3	1	2	3	1	2	3	1	2
geo_partition_idx	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
angleidx	14	15	15	15	16	16	16	17	17	17	18	18	18	19	19	19	20	20
distanceldx	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
geo_partition_idx	72	73	74	75	76	77	78	79	80	81								
angleidx	20	21	21	21	22	22	22	23	23	23								
distanceldx	3	1	2	3	1	2	3	1	2	3								

FIG. 24B

geo_parti tion_idx'	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
angleidx	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4
distanceidx	1	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3
geo_parti tion_idx'	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
angleidx	6	6	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
distanceidx	1	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3
geo_parti tion_idx'	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
angleidx	12	12	13	13	13	14	14	14	15	15	15	16	16	16	18	18	20	20
distanceidx	1	3	1	2	3	1	2	3	1	2	3	1	2	3	1	3	1	2
geo_parti tion_idx'	54	55	56	57	58	59	60	61	62	63								
angleidx	20	21	21	21	22	22	22	23	23	23								
distanceidx	3	1	2	3	1	2	3	1	2	3								

FIG. 24C

geo_partition_idx	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
hwRatio	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleIdx	18	12	6	0	12	0	16	1	20	12	2	2	0	2	4	1	4	2
distanceIdx	1	1	1	3	3	1	1	3	3	3	3	0	3	2	0	1	1	3
geo_partition_idx	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17
hwRatio	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleIdx	6	1	14	1	8	2	16	3	22	14	16	3	18	3	3	11	3	13
distanceIdx	3	0	3	2	0	1	2	0	3	3	3	1	3	3	0	2	1	3
geo_partition_idx	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26
hwRatio	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
angleIdx	9	14	20	14	20	22	4	3	8	9	9	10	0	22	10	4	2	8
distanceIdx	0	1	1	2	2	1	3	2	2	0	2	1	1	3	3	3	2	3
geo_partition_idx	27	27	28	28	29	29	30	30	31	31								
hwRatio	0	1	0	1	0	1	0	1	0	1								
angleIdx	3	11	9	22	12	23	14	6	15	10								
distanceIdx	2	3	3	2	1	3	1	3	3	3								

FIG. 24D

geo_parti tion_idx'	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
angleidx	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4
distanceidx	1	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3
geo_parti tion_idx'	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
angleidx	6	6	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
distanceidx	1	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3
geo_parti tion_idx'	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
angleidx	12	12	13	13	13	14	14	14	15	15	15	16	16	16	18	18	20	20
distanceidx	1	3	1	2	3	1	2	3	1	2	3	1	2	3	1	3	1	2
geo_parti tion_idx'	54	55	56	57	58	59	60	61	62	63								
angleidx	20	21	21	21	22	22	22	23	23	23								
distanceidx	3	1	2	3	1	2	3	1	2	3								

FIG. 24E