

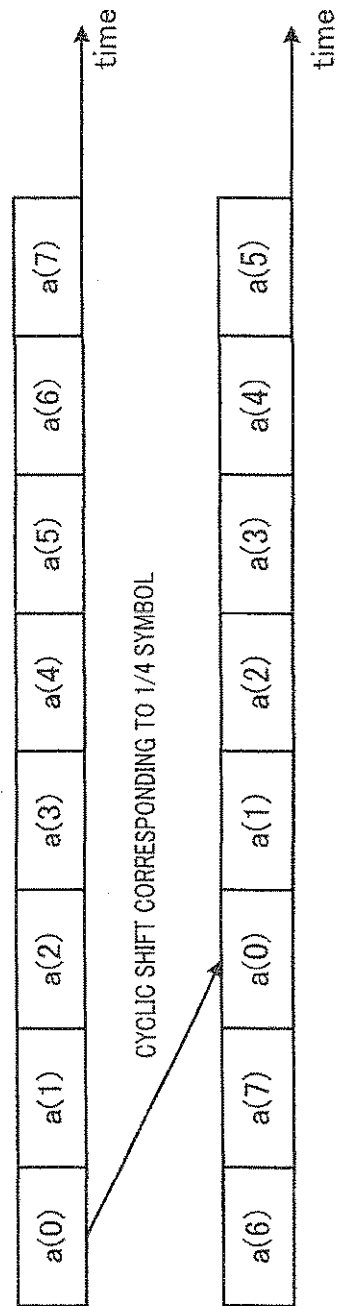


FIG. 1

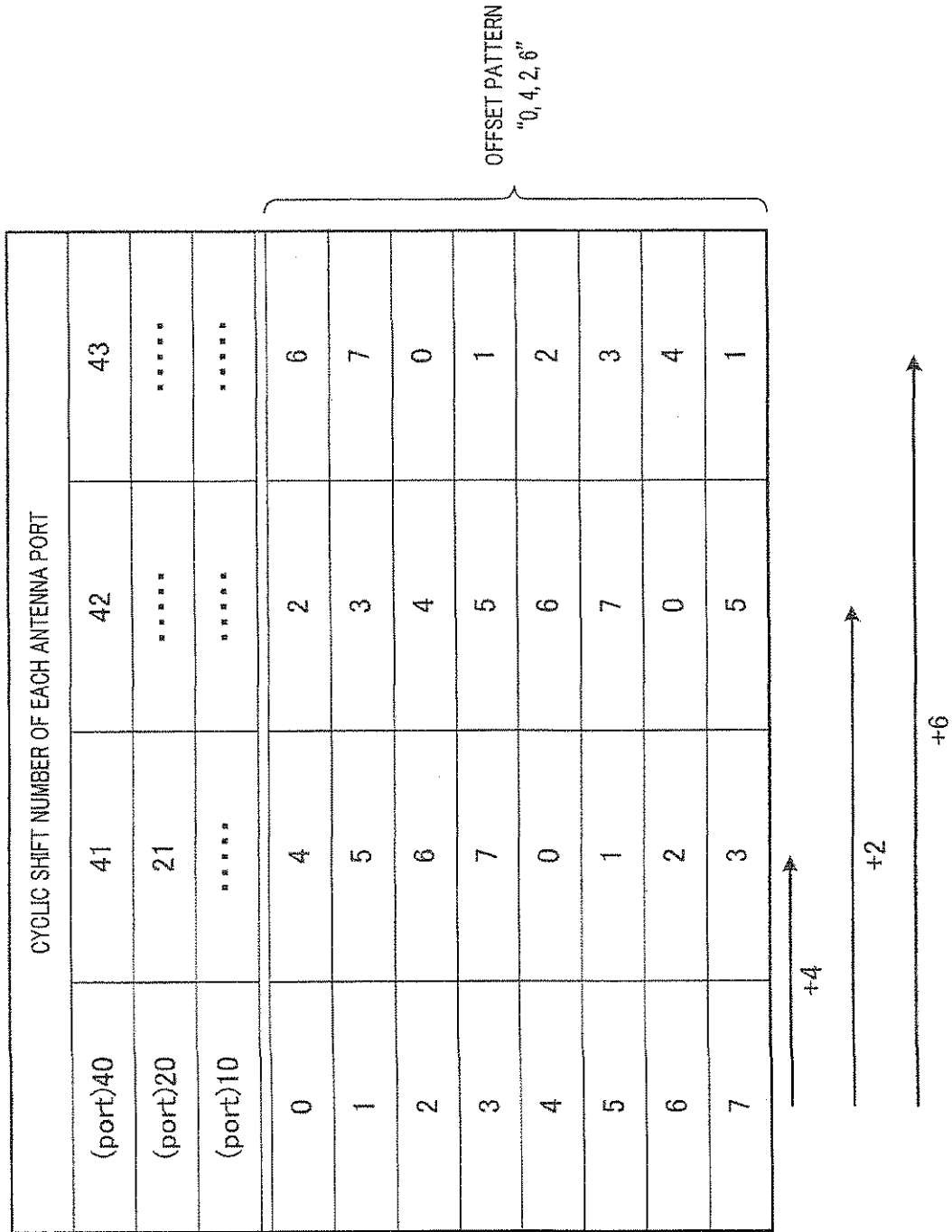


FIG. 2

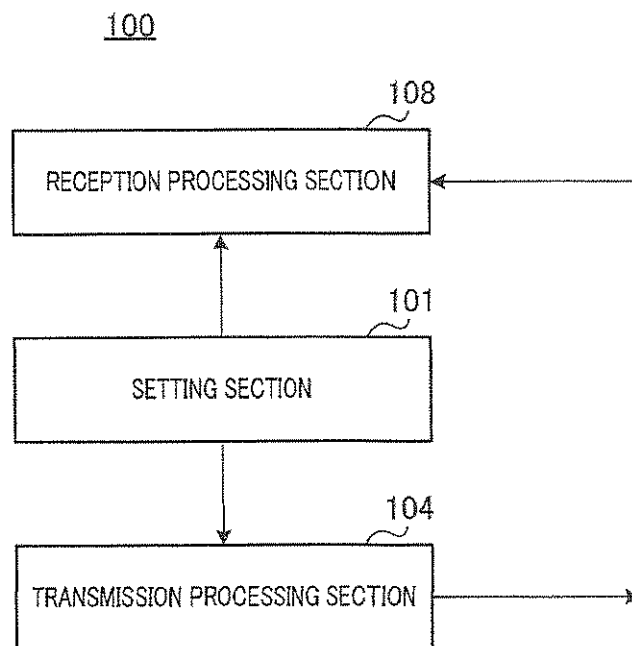


FIG. 3

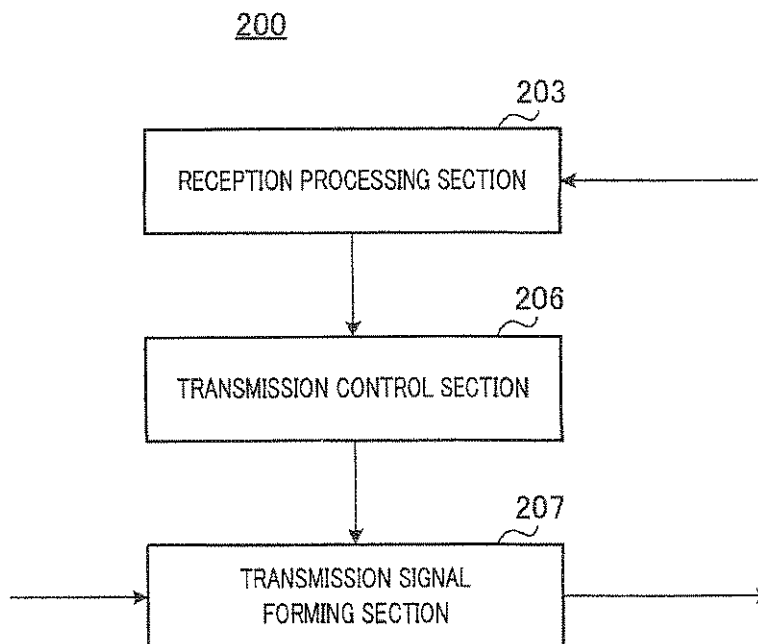


FIG. 4



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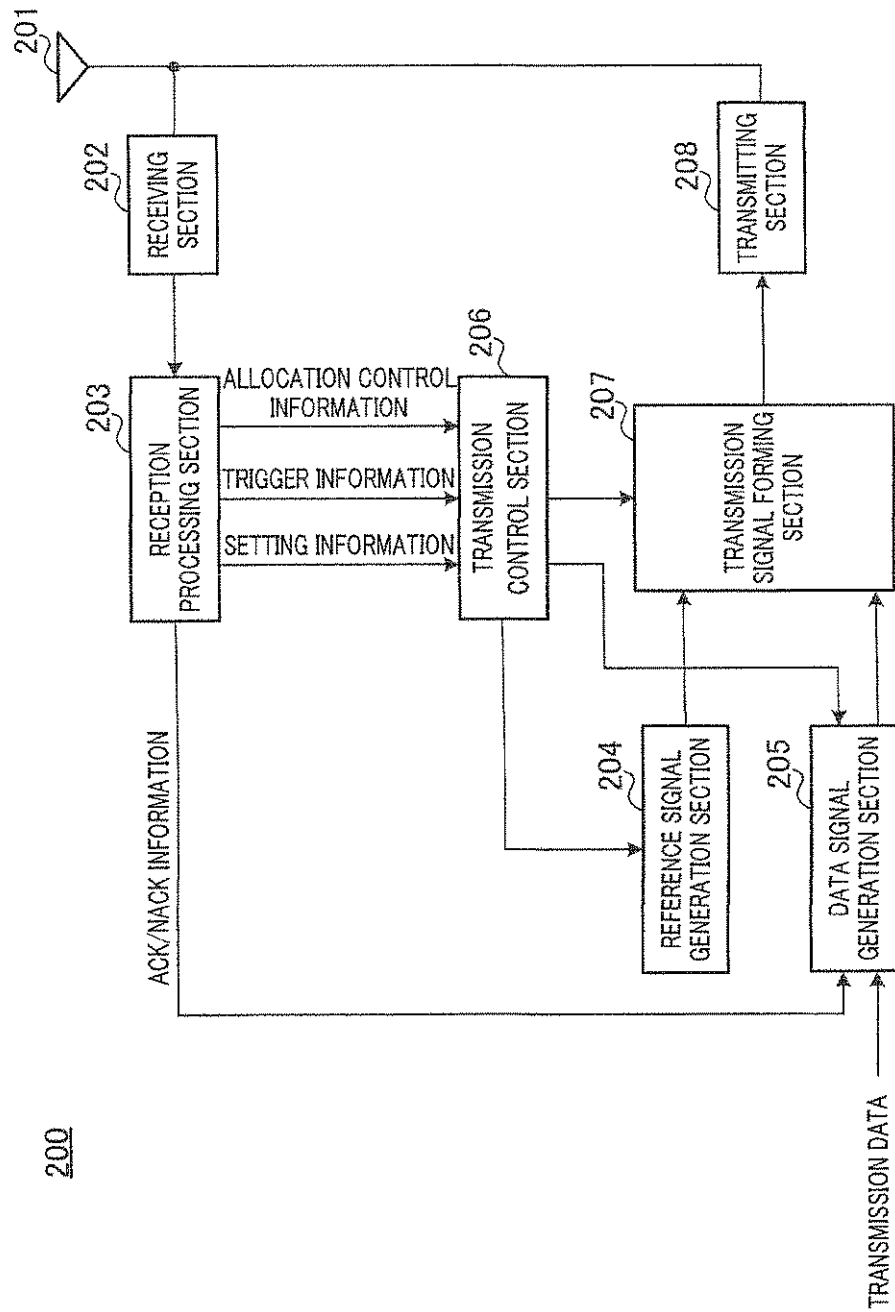


FIG. 6

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT				
(port)40	41	42	43	
(port)20	21	*****	*****	
→ 0	4	2	6	PAIR
1	5	3	7	
2	6	4	0	
3	7	5	1	
→ 4	2	6	0	PAIR
5	6	7	0	
6	4	0	2	
7	0	1	2	

OFFSET PATTERN
"0, 4, 2, 6"

OFFSET PATTERN
DIFFERENT FROM "0, 4, 2, 6"

FIG. 7

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT				
(port)40	41	42	43	
(port)20	21	*****	*****	
0	4	2	6	
1	5	3	7	
2	6	4	0	
3	7	5	1	
4	3	2	1	
5	6	7	0	
6	5	4	3	
7	0	1	2	

OFFSET PATTERN
"0, 4, 2, 6"

"0, 1, 2, 3" OR "0, -1, -2, -3"

FIG. 8

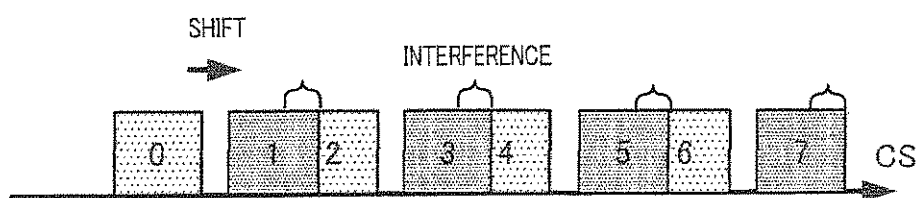


FIG. 9

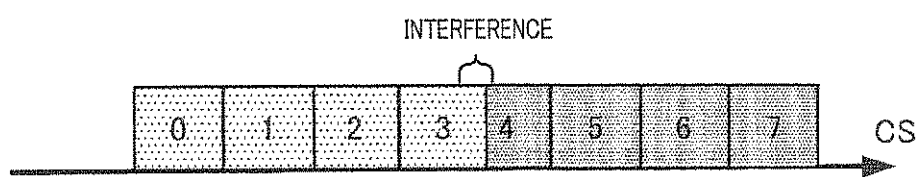


FIG. 10

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT			
(port)40	41	42	43
(port)20	21	*****	*****
0	4	2	6
1	5	3	7
2	6	4	0
3	7	5	1
4	3	1	2
5	6	0	7
6	5	3	4
7	0	2	1

OFFSET PATTERN "0, 4, 2, 6"

OFFSET PATTERN "0, 1, 2, 3"
NOT IN PARTICULAR ORDER

FIG. 11

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT				
(port)40	41	42	43	
(port)20	21	*****	*****	
→ 0	4	2	6	OFFSET PATTERN "0, 4, 2, 6"
5	1	7	3	
2	6	4	0	
7	3	1	5	
4	5	6	7	"0, 1, 2, 3" OR "0, -1, -2, -3"
→ 1	0	7	6	
6	7	0	1	
3	2	1	0	

FIG. 12

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT				
(port)40	41	42	43	
(port)20	21	*****	*****	
0	4	2	6	
5	1	7	3	
2	6	4	0	
7	3	5	1	
→ 4	5	6	7	"0, 1, 2, 3" OR "0, -1, -2, -3"
1	0	7	6	
6	7	0	1	
→ 3	2	1	0	

OFFSET PATTERN
"0, 4, 2, 6"

FIG. 13

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT			
(port)40	41	42	43
(port)20	21	*****	*****
0	4	2	6
1	5	3	7
2	6	4	0
3	7	5	1
4	0	5	1
5	1	6	2
6	2	7	3
7	3	0	4

OFFSET PATTERN
"0, 4, 2, 6"

OFFSET PATTERN
"0, 4, 1, 5"

FIG. 14

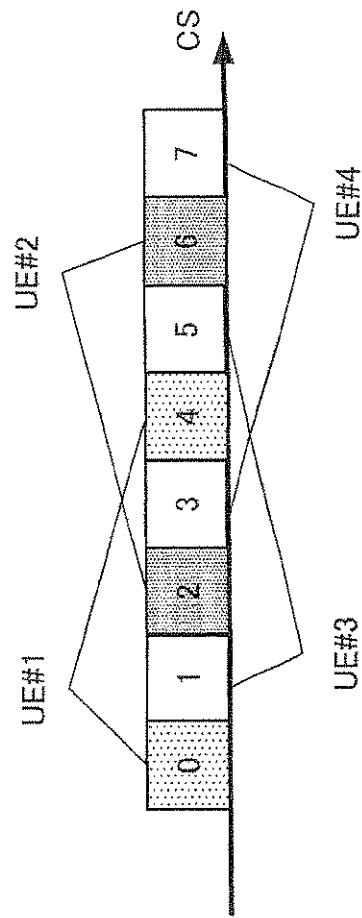


FIG. 15

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT				
(port)40	41	42	43	
(port)20	21	*****	*****	
0	4	2	6	OFFSET PATTERN "0, 4, 2, 6"
1	5	3	7	
2	6	4	0	
3	7	5	1	
4	7	2	6	OFFSET PATTERN "0, 3, A, B"
5	0	3	7	
6	1	4	0	
7	2	5	1	

FIG. 16

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT			
(port)40	41	42	43
(port)20	21	*****	*****
0	4	2	6
1	5	3	7
2	6	4	0
3	7	5	1
4	6	0	2
5	7	1	3
6	0	2	4
7	1	3	5

OFFSET PATTERN
"0, 4, 2, 6"

OFFSET PATTERN
"0, 2, A, B"

FIG. 17

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT			
(port)40	41	42	43
(port)20	21	*****	*****
0	4	2	6
1	5	3	7
2	6	4	5
3	7	5	6
4	6	0	2
5	7	1	3
6	5	4	3
7	0	1	2

OFFSET PATTERN
"0, 4, 2, 6"

←

←

"0, 1, 2, 3"

←

"0, 2, 4, 6"

←

"0, -1, -2, -3"

DIFFERENT OFFSET PATTERNS

FIG. 18

CYCLIC SHIFT NUMBER			
(port)40	41	42	43
(port)20	21	*****	*****
0	4	2	6
1	5	3	7
2	6	4	0
3	7	5	1
4	0	6	2
5	1	7	3
6	2	0	4
7	3	5	1

IDENTICAL CYCLIC
SHIFT AMOUNT

FIG. 19

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT				SRS ARRANGEMENT OF EACH ANTENNA PORT			
(port)40	41	42	43	(port)40	41	42	43
(port)20	21	*****	*****	(port)20	21	*****	*****
0	4	2	6	FREQUENCY 1			
1	5	3	7	FREQUENCY 1			
2	6	4	0	FREQUENCY 1			
3	7	5	1	FREQUENCY 1			
4	0	6	2	FREQUENCY 1	FREQUENCY 1	FREQUENCY 2	
5	1	7	3	FREQUENCY 1	FREQUENCY 1	FREQUENCY 2	
6	2	0	4	FREQUENCY 1	FREQUENCY 1	FREQUENCY 2	
7	3	5	1	FREQUENCY 1	FREQUENCY 1	FREQUENCY 2	

FREQUENCY 1
ONLY

FREQUENCIES 1 AND 2
ARE USED

FIG. 20

CYCLIC SHIFT NUMBER OF EACH ANTENNA PORT				SPS ARRANGEMENT OF EACH ANTENNA PORT			
(port)40	41	42	43	(port)40	41	42	43
(port)20	21			(port)20	21		
0	4	2	6	FREQUENCY 1			
1	5	3	7	FREQUENCY 1			
2	6	4	0	FREQUENCY 1			
3	7	5	1	FREQUENCY 1			
4	0	6	2	FREQUENCY 1	FREQUENCY 2	FREQUENCY 1	FREQUENCY 2
5	1	7	3	FREQUENCY 1	FREQUENCY 2	FREQUENCY 1	FREQUENCY 2
6	2	0	4	FREQUENCY 1	FREQUENCY 2	FREQUENCY 1	FREQUENCY 2
7	3	5	1	FREQUENCY 1	FREQUENCY 2	FREQUENCY 1	FREQUENCY 2

19/19

FREQUENCY 1
ONLY

FREQUENCIES 1 AND 2
ARE USED

FIG. 21