

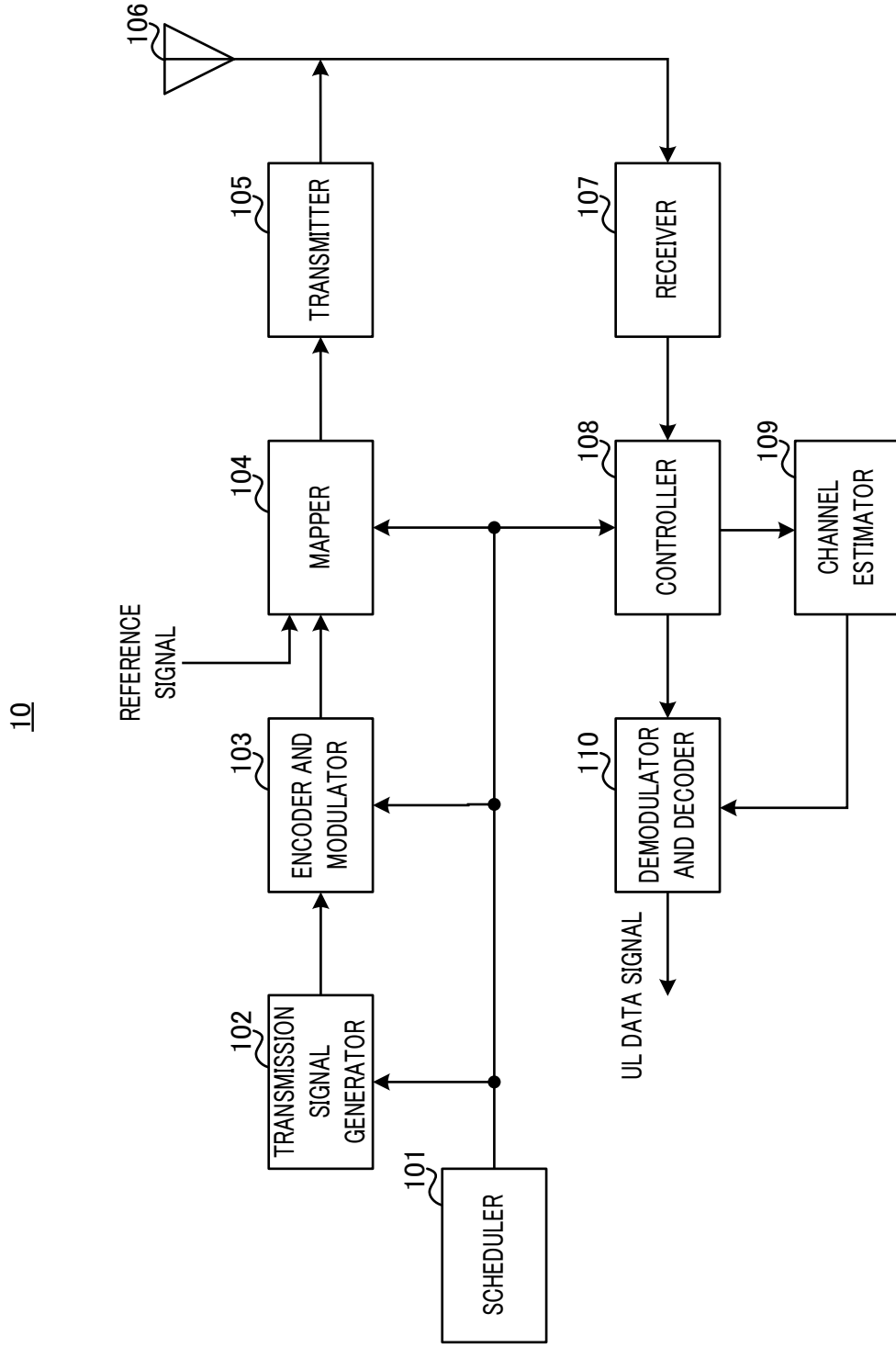


FIG. 1

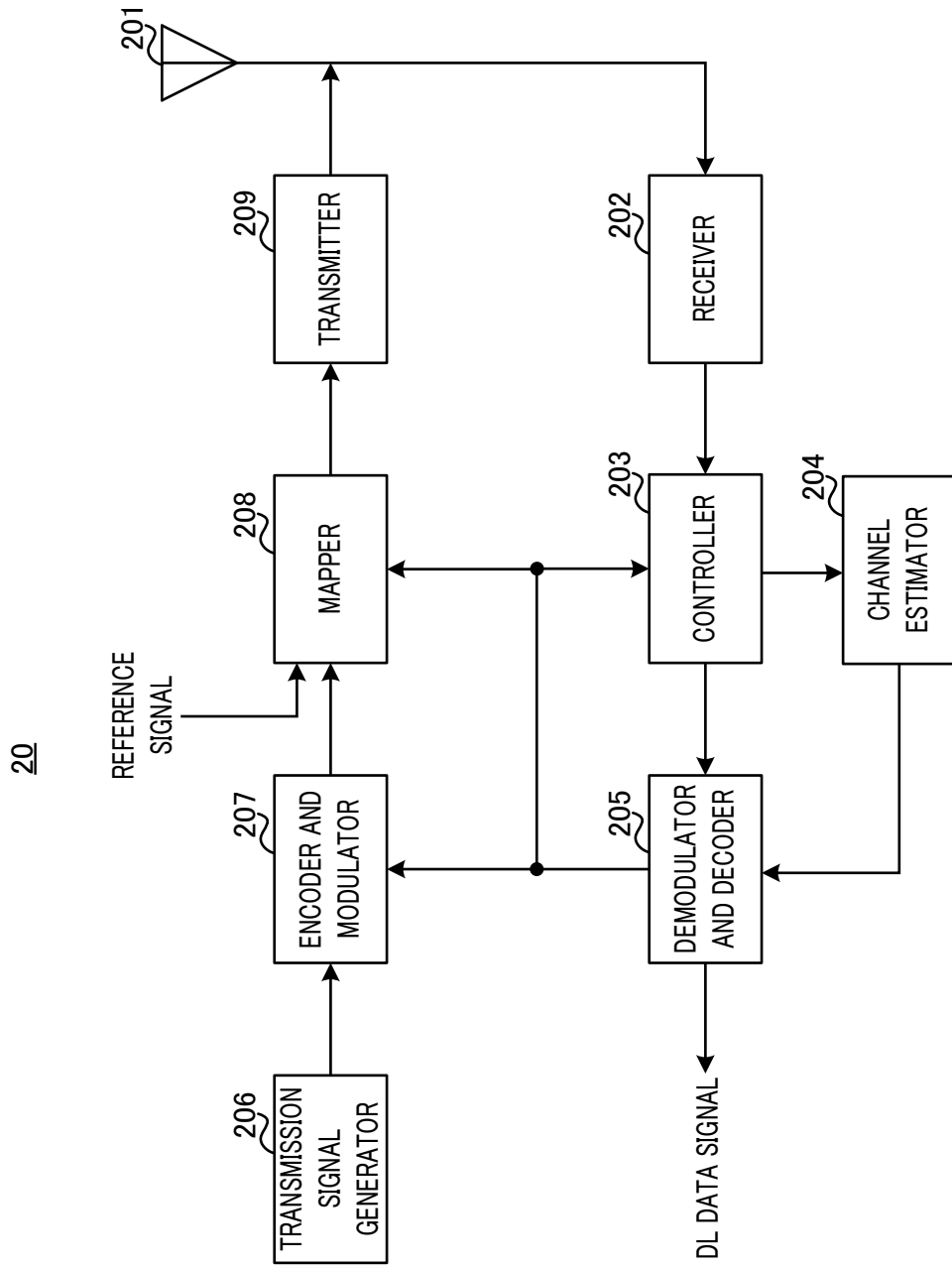


FIG. 2

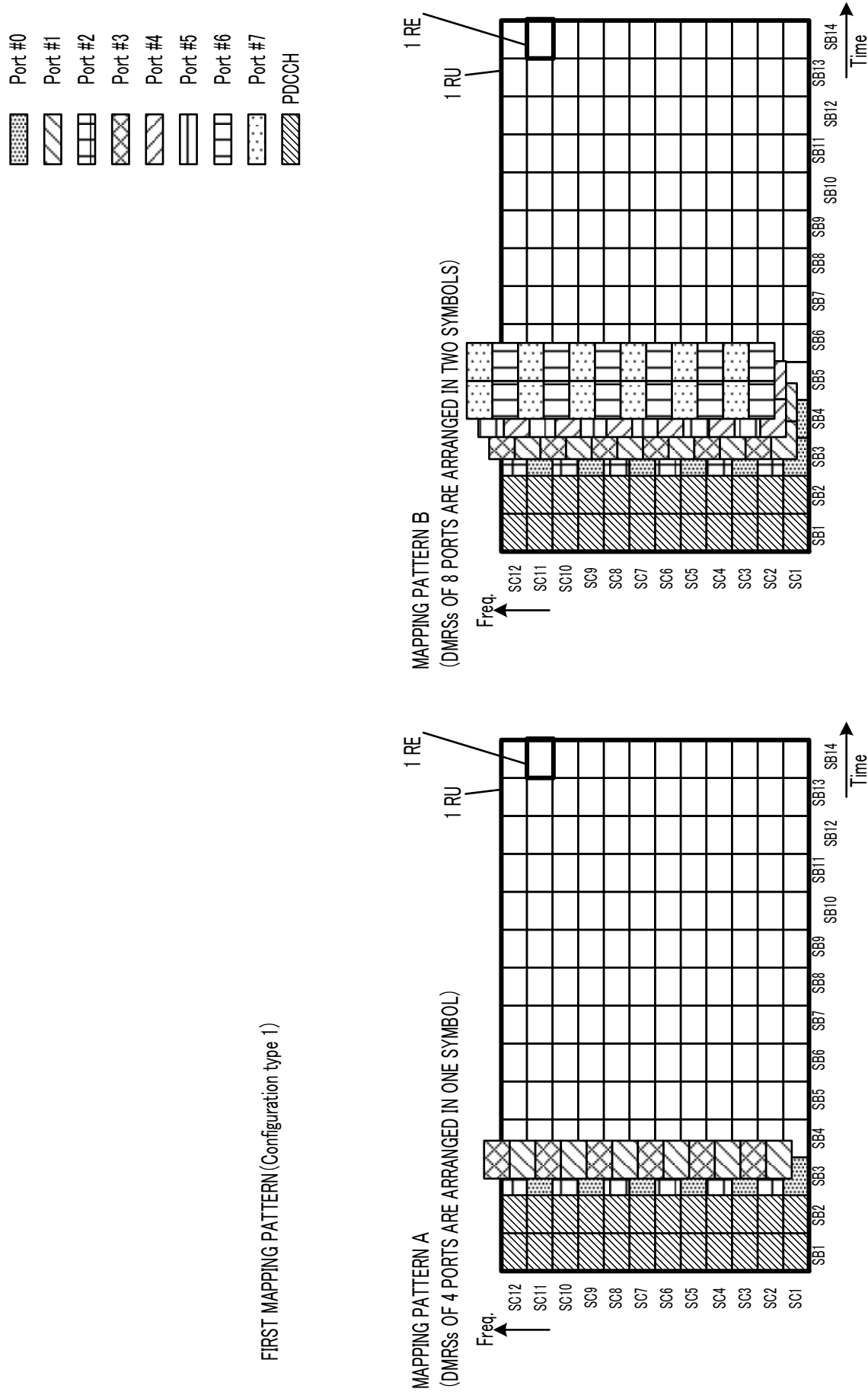


FIG. 3

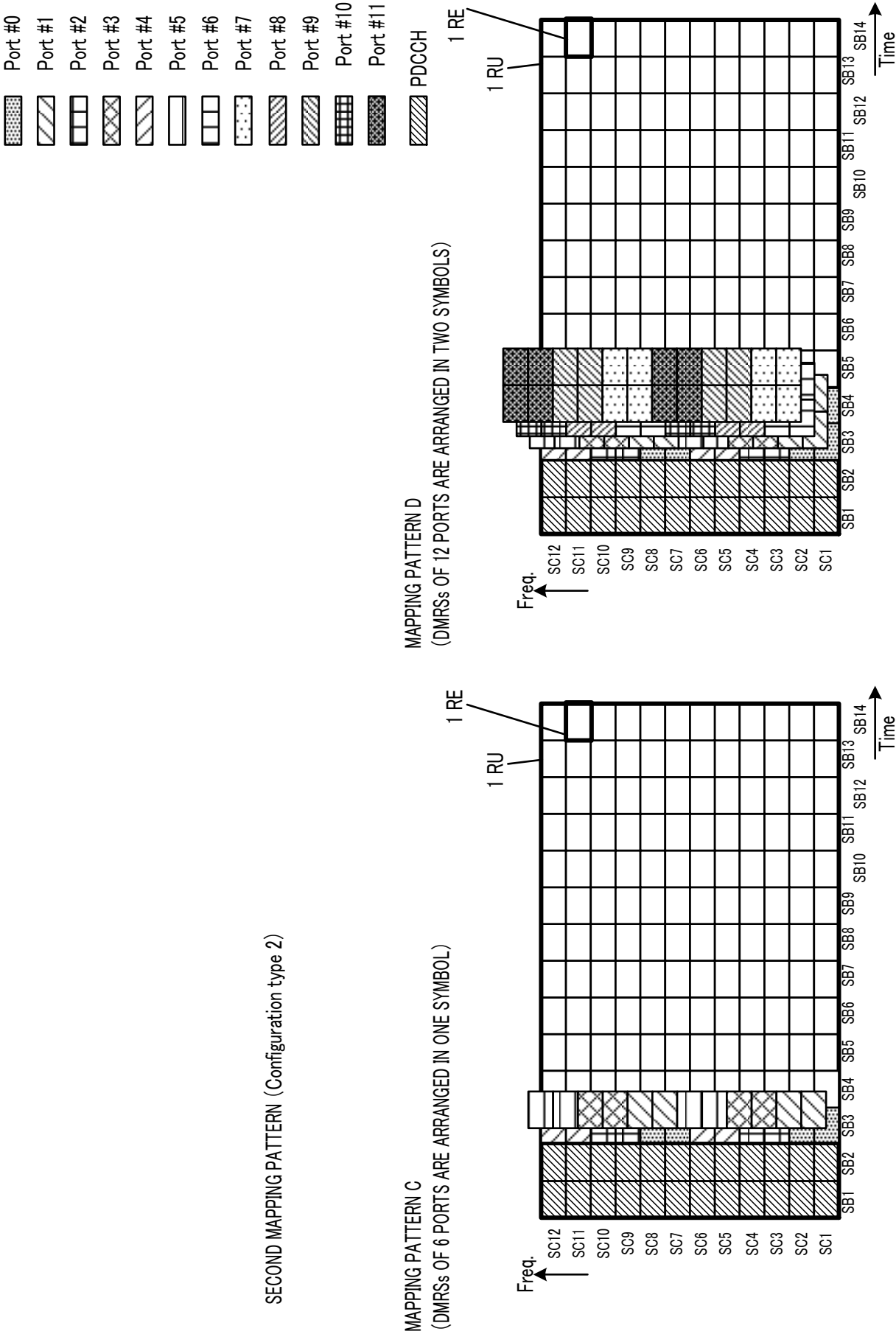
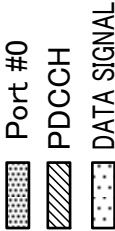


FIG. 4



CASE WHERE PORT #0 IS ASSIGNED

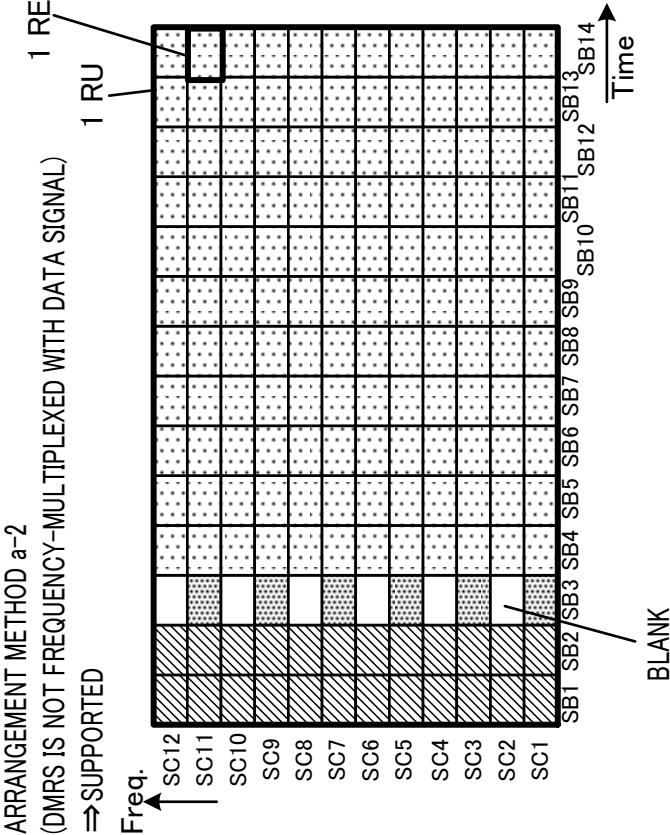
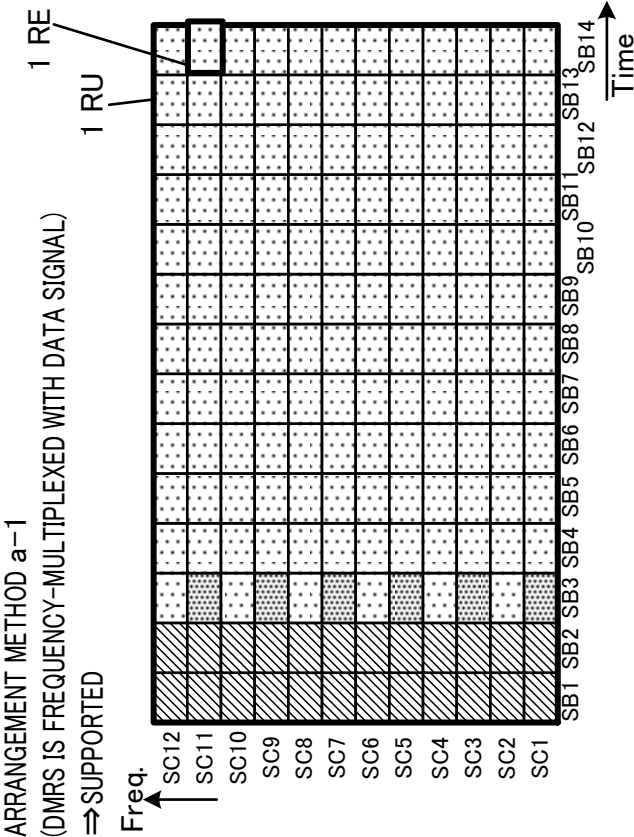


FIG. 5

- Port #1
- PDCCH
- DATA SIGNAL

CASE WHERE PORT #1 IS ASSIGNED

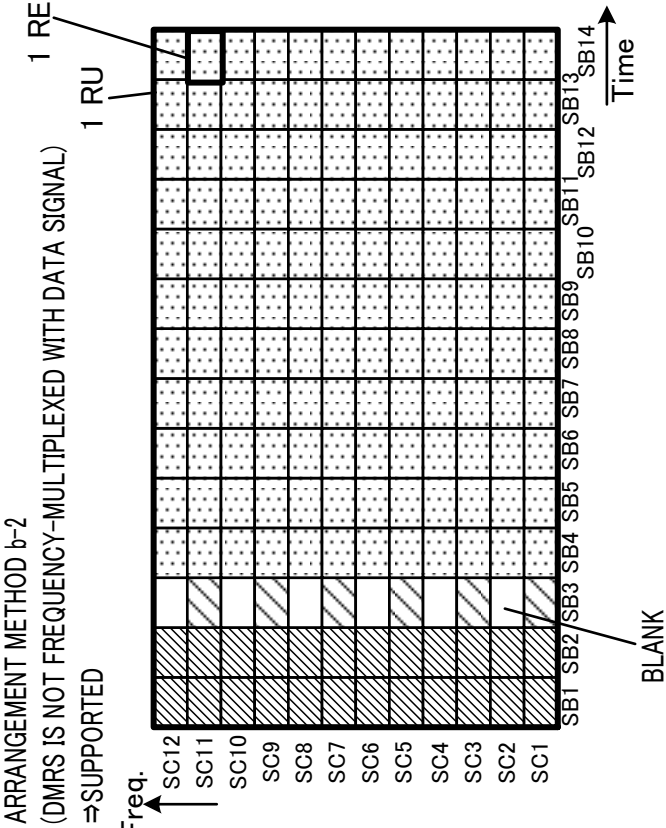
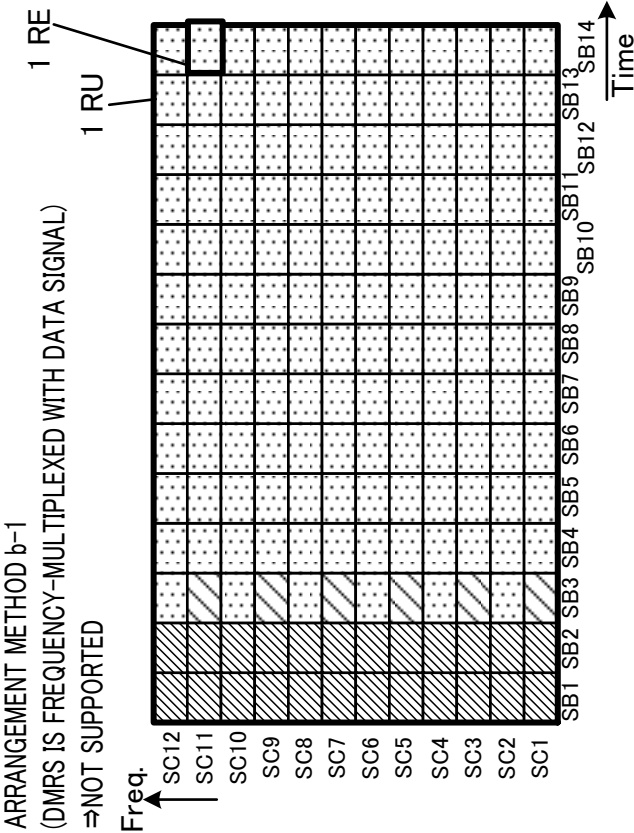


FIG. 6



WHEN SCRAMBLING ID #0 IS ASSIGNED, ARRANGEMENT METHOD c-1 AND ARRANGEMENT METHOD c-2 ARE SUPPORTED  
WHEN SCRAMBLING ID #1 IS ASSIGNED, ARRANGEMENT METHOD c-2 IS SUPPORTED

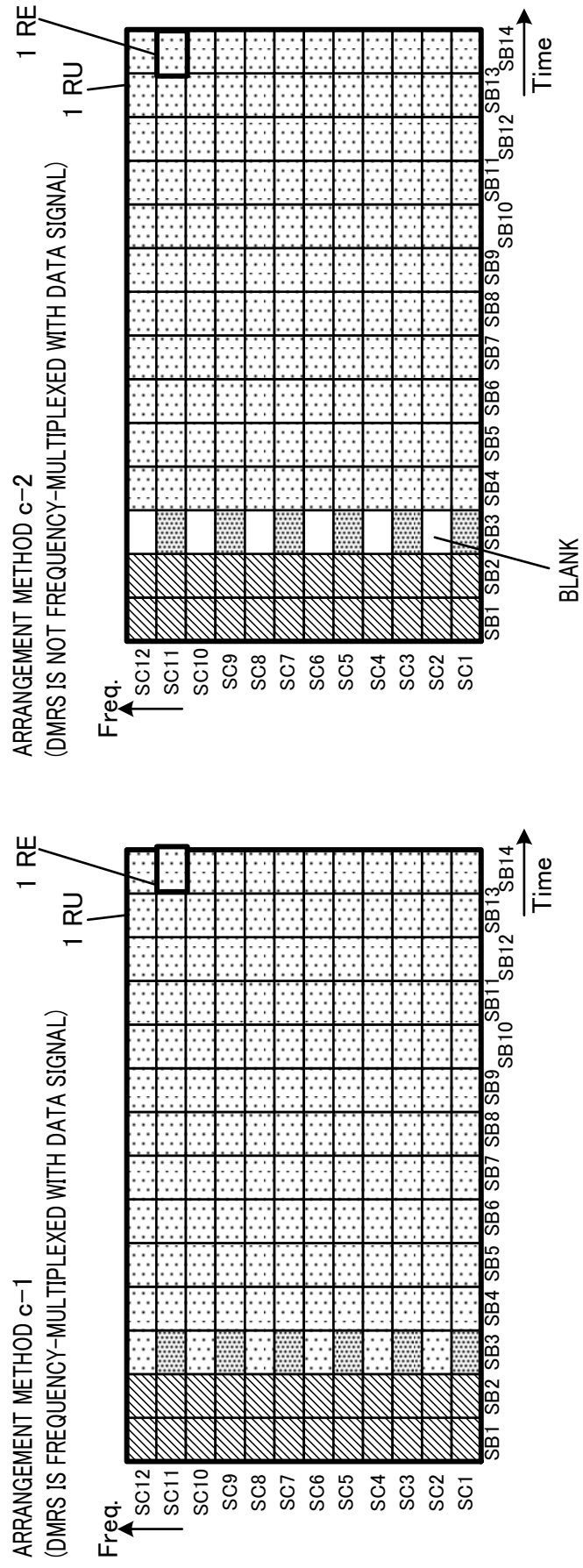


FIG. 7

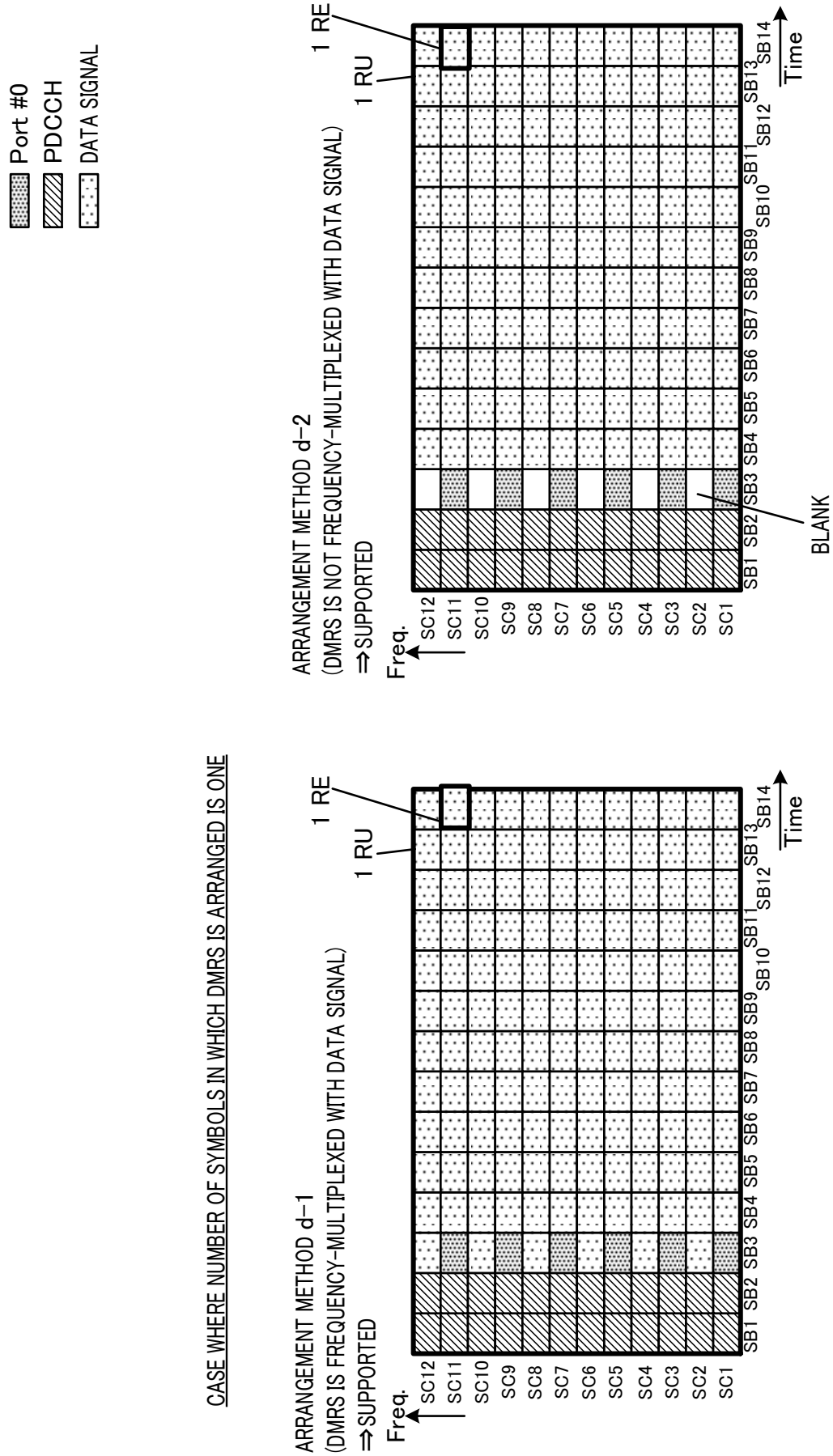
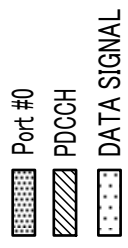


FIG. 8



CASE WHERE NUMBER OF SYMBOLS IN WHICH DMRS IS ARRANGED IS TWO

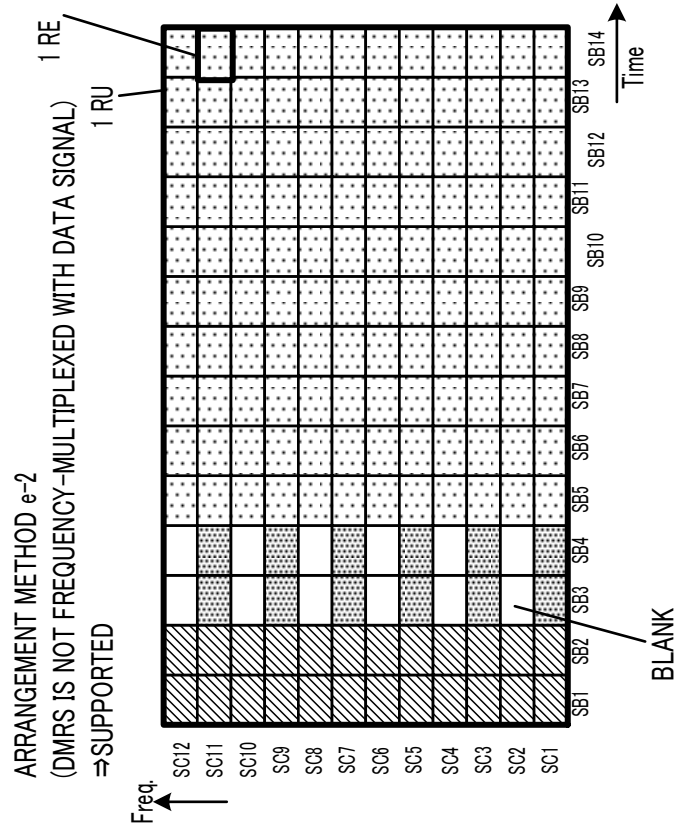
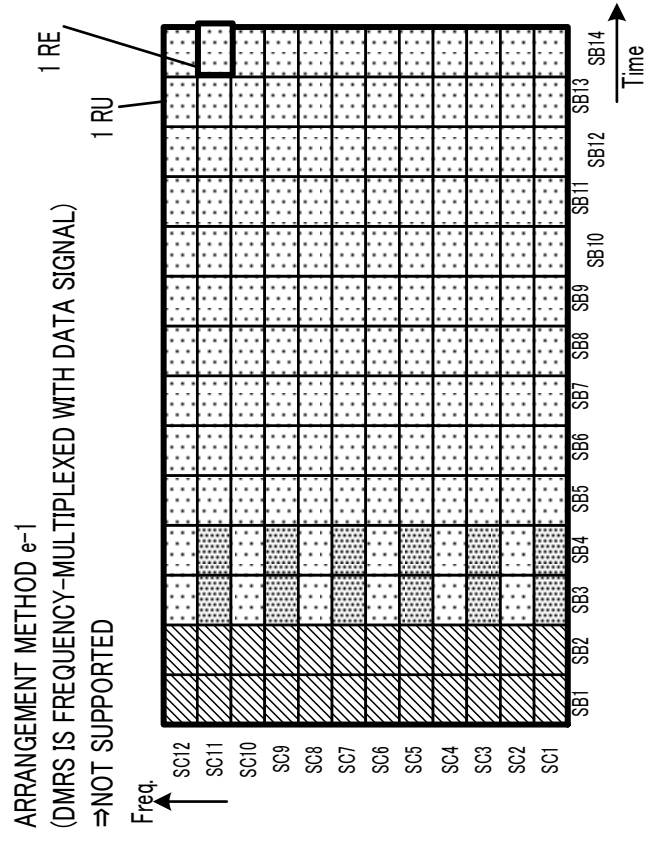


FIG. 9

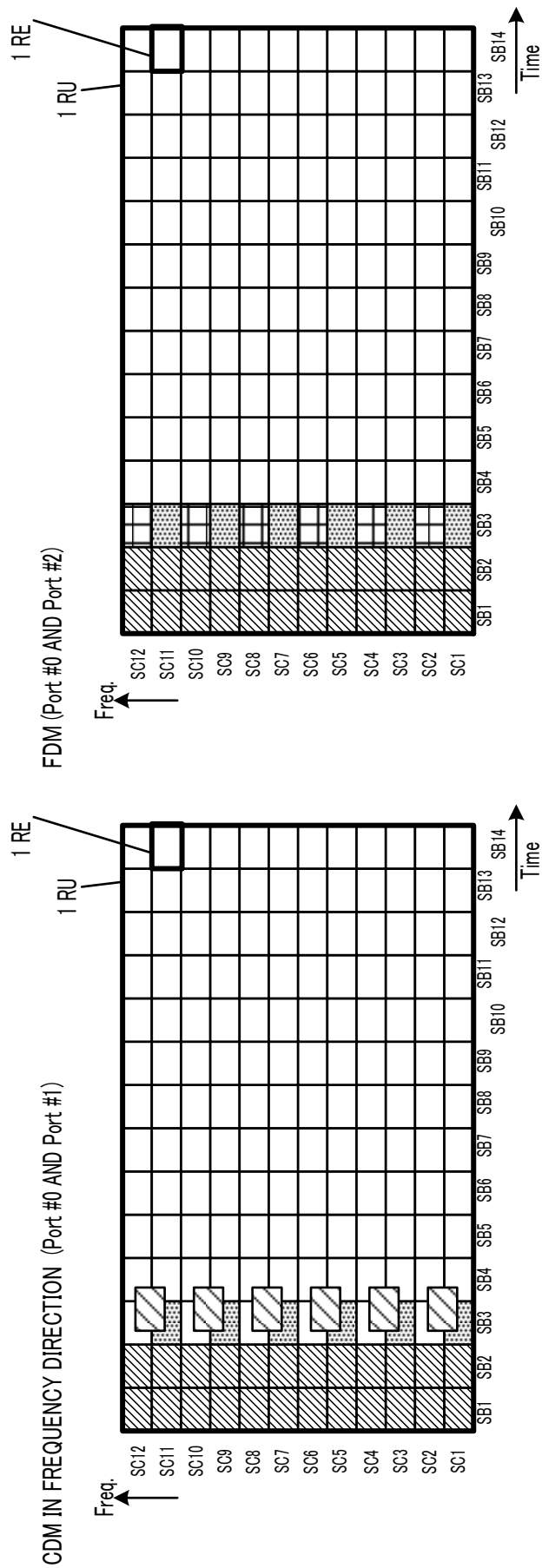
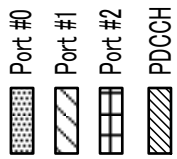
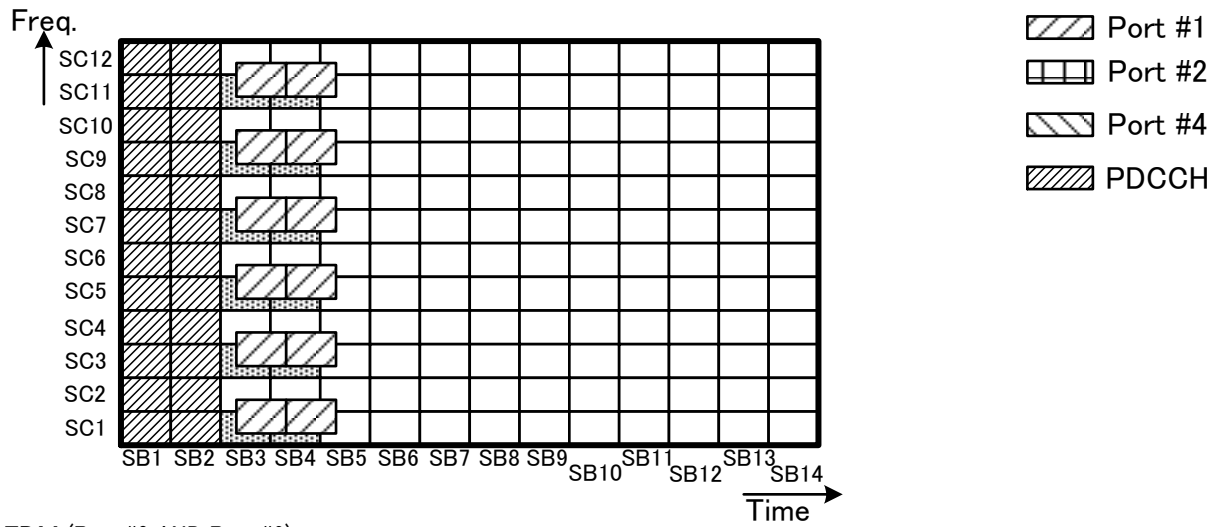
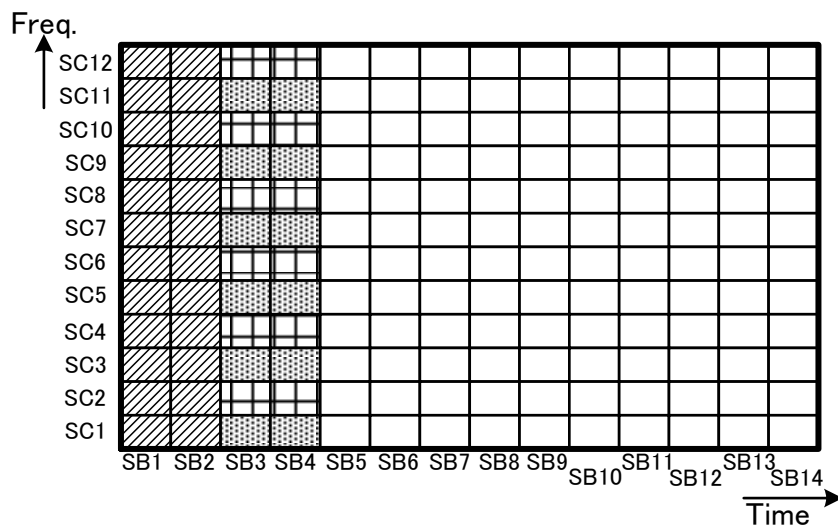


FIG. 10

CDM IN FREQUENCY DIRECTION (Port #0 AND Port #1)



FDM (Port #0 AND Port #2)



CDM IN TIME DIRECTION (Port #0 AND Port #4)

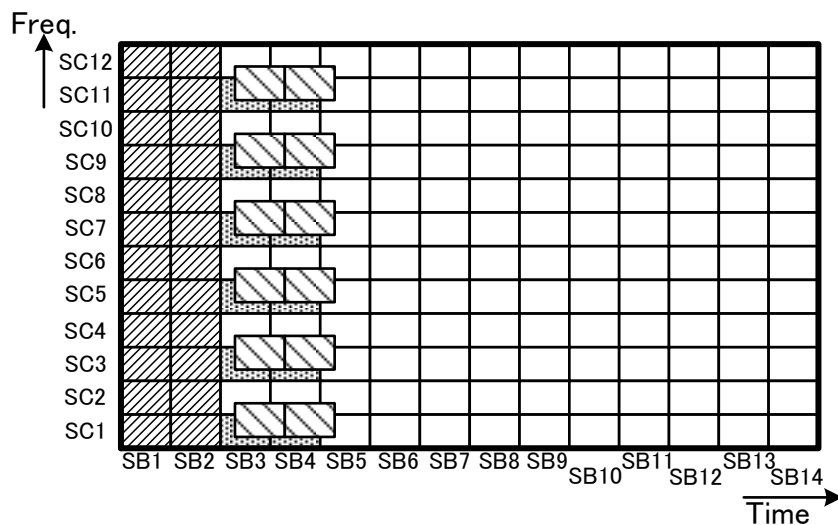


FIG. 11

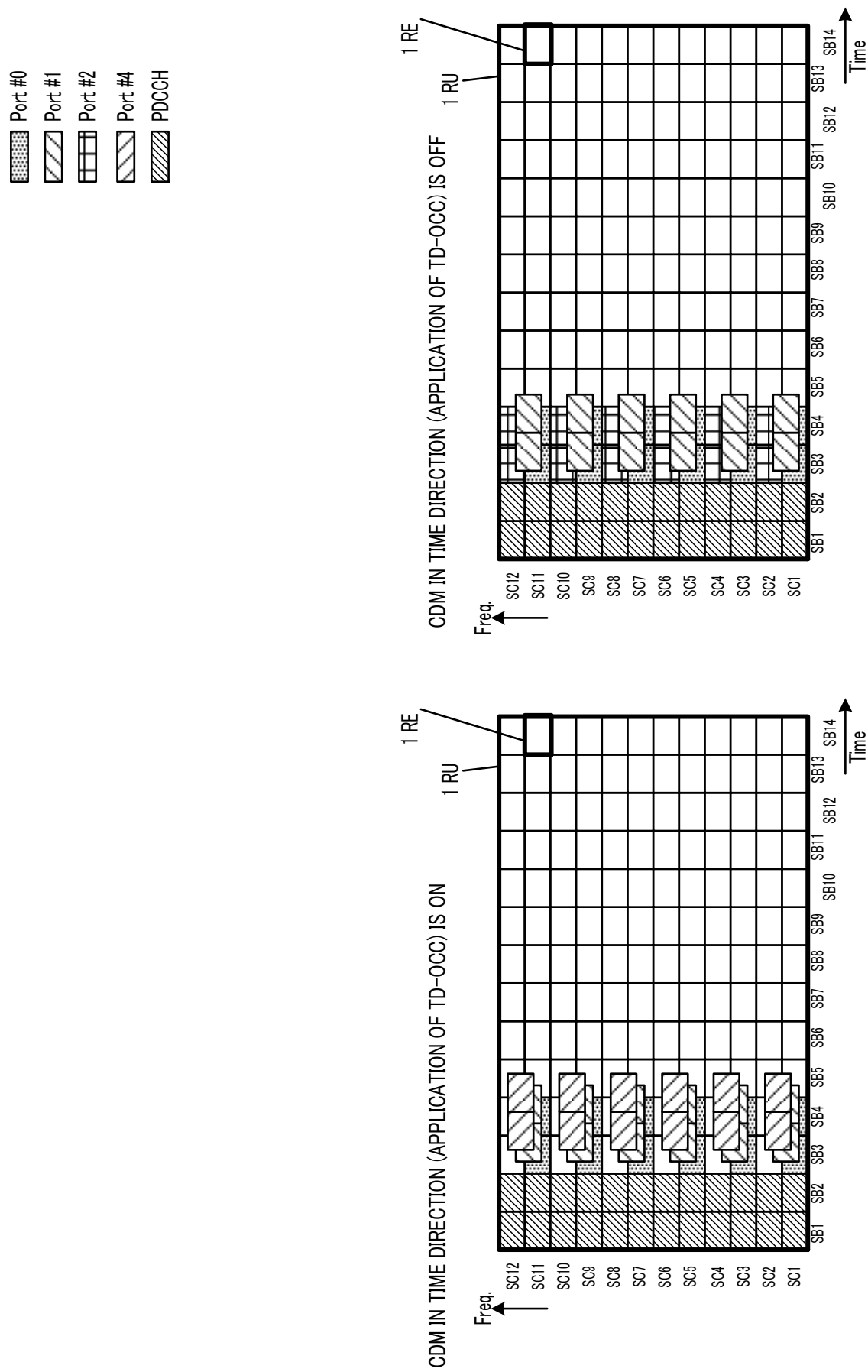


FIG. 12

| Index | NUMBER OF PORTS | PORT NUMBER | NUMBER OF SYMBOLS | SCRAMBLING ID | POSSIBILITY OR NOT OF FDM |
|-------|-----------------|-------------|-------------------|---------------|---------------------------|
| 0     | 1               | 0           | 1                 | 0             | enable                    |
| 1     | 1               | 0           | 1                 | 0             | disable                   |
| a     | 1               | 1           | 1                 | 0             | enable                    |
| 2     | 1               | 1           | 1                 | 0             | disable                   |
| b     | 1               | 2           | 1                 | 0             | enable                    |
| 3     | 1               | 2           | 1                 | 0             | disable                   |
| c     | 1               | 3           | 1                 | 0             | enable                    |
| 4     | 1               | 3           | 1                 | 0             | disable                   |
| 5     | 2               | 0, 1        | 1                 | 0             | enable                    |
| 6     | 2               | 0, 1        | 1                 | 0             | disable                   |
| d     | 2               | 0, 2        | 1                 | 0             | disable                   |
| e     | 2               | 2, 3        | 1                 | 0             | enable                    |
| 7     | 2               | 2, 3        | 1                 | 0             | disable                   |
| 8     | 3               | 0-2         | 1                 | 0             | –                         |
| 9     | 4               | 0-3         | 1                 | 0             | –                         |
| f     | 1               | 0           | 1                 | 1             | enable                    |
| 10    | 1               | 0           | 1                 | 1             | disable                   |
| 11    | 1               | 1           | 1                 | 1             | disable                   |
| 12    | 1               | 2           | 1                 | 1             | disable                   |
| 13    | 1               | 3           | 1                 | 1             | disable                   |
| 14    | 2               | 0, 1        | 1                 | 1             | disable                   |
| 15    | 2               | 2, 3        | 1                 | 1             | disable                   |
| g     | 1               | 0           | 2                 | 0             | enable                    |
| 16    | 1               | 0           | 2                 | 0             | disable                   |
| 17    | 1               | 1           | 2                 | 0             | disable                   |
| 18    | 1               | 2           | 2                 | 0             | disable                   |
| 19    | 1               | 3           | 2                 | 0             | disable                   |
| 20    | 1               | 4           | 2                 | 0             | disable                   |
| 21    | 1               | 5           | 2                 | 0             | disable                   |
| 22    | 1               | 6           | 2                 | 0             | disable                   |
| 23    | 1               | 7           | 2                 | 0             | disable                   |
| 24    | 2               | 0, 1        | 2                 | 0             | disable                   |
| h     | 2               | 0, 2        | 2                 | 0             | disable                   |
| i     | 2               | 0, 4        | 2                 | 0             | disable                   |
| 25    | 2               | 2, 3        | 2                 | 0             | disable                   |
| 26    | 2               | 4, 5        | 2                 | 0             | disable                   |
| 27    | 2               | 6, 7        | 2                 | 0             | disable                   |

FIG. 13A

| Index | NUMBER OF PORTS | PORT NUMBER                                 | NUMBER OF SYMBOLS | SCRAMBLING ID | POSSIBILITY OR NOT OF FDM |
|-------|-----------------|---------------------------------------------|-------------------|---------------|---------------------------|
| 28    | 3               | 0, 1, 4 (TD-OCC on)<br>0-2 (TD-OCC off)     | 2                 | 0             | disable                   |
| j     | 3               | 0, 1, 4                                     | 2                 | 0             | disable                   |
| k     | 3               | 0-2                                         | 2                 | 0             | disable                   |
| 29    | 3               | 2, 3, 6 (TD-OCC on)<br>Reserved(TD-OCC off) | 2                 | 0             | disable                   |
| 30    | 4               | 0,1,4,5(TD-OCC on)<br>0-3(TD-OCC off)       | 2                 | 0             | disable                   |
| 31    | 4               | 2,3,6,7(TD-OCC on)<br>Reserved(TD-OCC off)  | 2                 | 0             | disable                   |

FIG. 13B

| Index | NUMBER OF PORTS | PORT NUMBER | NUMBER OF SYMBOLS | SCRAMBLING ID | POSSIBILITY OR NOT OF FDM |
|-------|-----------------|-------------|-------------------|---------------|---------------------------|
| 0     | 5               | 0-4         | 2                 | 0             | —                         |
| 1     | 6               | 0-5         | 2                 | 0             | —                         |
| 2     | 7               | 0-6         | 2                 | 0             | —                         |
| 3     | 8               | 0-7         | 2                 | 0             | —                         |
| 4-31  | Reserved        |             |                   |               |                           |

FIG. 14

| Index | NUMBER OF PORTS | PORT NUMBER | NUMBER OF SYMBOLS | SCRAMBLING ID | POSSIBILITY OR NOT OF FDM |
|-------|-----------------|-------------|-------------------|---------------|---------------------------|
| 0     | 1               | 0           | 1                 | 0             | enable                    |
| 1     | 1               | 0           | 1                 | 0             | disable                   |
| a     | 1               | 1           | 1                 | 0             | enable                    |
| 2     | 1               | 1           | 1                 | 0             | disable                   |
| b     | 1               | 2           | 1                 | 0             | enable                    |
| 3     | 1               | 2           | 1                 | 0             | disable                   |
| c     | 1               | 3           | 1                 | 0             | enable                    |
| 4     | 1               | 3           | 1                 | 0             | disable                   |
| d     | 1               | 4           | 1                 | 0             | enable                    |
| 5     | 1               | 4           | 1                 | 0             | disable                   |
| e     | 1               | 5           | 1                 | 0             | enable                    |
| 6     | 1               | 5           | 1                 | 0             | disable                   |
| 7     | 2               | 0, 1        | 1                 | 0             | enable                    |
| 8     | 2               | 0, 1        | 1                 | 0             | disable                   |
| f     | 2               | 0, 2        | 1                 | 0             | disable                   |
| 9     | 2               | 2, 3        | 1                 | 0             | disable                   |
| 10    | 2               | 4, 5        | 1                 | 0             | disable                   |
| 11    | 3               | 0-2         | 1                 | 0             | disable                   |
| 12    | 4               | 0-3         | 1                 | 0             | disable                   |
| g     | 1               | 0           | 1                 | 1             | enable                    |
| 13    | 1               | 0           | 1                 | 1             | disable                   |
| 14    | 1               | 1           | 1                 | 1             | disable                   |
| 15    | 1               | 2           | 1                 | 1             | disable                   |
| 16    | 1               | 3           | 1                 | 1             | disable                   |
| 17    | 1               | 4           | 1                 | 1             | disable                   |
| 18    | 1               | 5           | 1                 | 1             | disable                   |
| 19    | 2               | 0, 1        | 1                 | 1             | disable                   |
| 20    | 2               | 2, 3        | 1                 | 1             | disable                   |
| 21    | 2               | 4, 5        | 1                 | 1             | disable                   |
| h     | 1               | 0           | 2                 | 0             | enable                    |
| 22    | 1               | 0           | 2                 | 0             | disable                   |
| 23    | 1               | 1           | 2                 | 0             | disable                   |
| 24    | 1               | 2           | 2                 | 0             | disable                   |
| 25    | 1               | 3           | 2                 | 0             | disable                   |
| 26    | 1               | 4           | 2                 | 0             | disable                   |
| 27    | 1               | 5           | 2                 | 0             | disable                   |
| 28    | 1               | 6           | 2                 | 0             | disable                   |
| 29    | 1               | 7           | 2                 | 0             | disable                   |
| 30    | 1               | 8           | 2                 | 0             | disable                   |
| 31    | 1               | 9           | 2                 | 0             | disable                   |
| 32    | 1               | 10          | 2                 | 0             | disable                   |
| 33    | 1               | 11          | 2                 | 0             | disable                   |

FIG. 15A

| Index | NUMBER OF PORTS | PORT NUMBER                                  | NUMBER OF SYMBOLS | SCRAMBLING ID | POSSIBILITY OR NOT OF FDM |
|-------|-----------------|----------------------------------------------|-------------------|---------------|---------------------------|
| 34    | 2               | 0, 1                                         | 2                 | 0             | disable                   |
| i     | 2               | 0, 2                                         | 2                 | 0             | disable                   |
| j     | 2               | 0, 6                                         | 2                 | 0             | disable                   |
| 35    | 2               | 2, 3                                         | 2                 | 0             | disable                   |
| 36    | 2               | 4, 5                                         | 2                 | 0             | disable                   |
| 37    | 2               | 6, 7                                         | 2                 | 0             | disable                   |
| 38    | 2               | 8, 9                                         | 2                 | 0             | disable                   |
| 39    | 2               | 10, 11                                       | 2                 | 0             | disable                   |
| 40    | 3               | 0, 1, 6 (TD-OCC on)<br>0-2 (TD-OCC off)      | 2                 | 0             | disable                   |
| k     | 3               | 0, 1, 6                                      | 2                 | 0             | disable                   |
| l     | 3               | 0-2                                          | 2                 | 0             | disable                   |
| 41    | 3               | 2, 3, 8 (TD-OCC on)<br>Reserved(TD-OCC off)  | 2                 | 0             | disable                   |
| 42    | 3               | 4,5,10(TD-OCC on)<br>0-3(TD-OCC off)         | 2                 | 0             | disable                   |
| 43    | 4               | 0,1,6,7(TD-OCC on)<br>Reserved(TD-OCC off)   | 2                 | 0             | disable                   |
| 44    | 4               | 2,3,8,9(TD-OCC on)<br>Reserved(TD-OCC off)   | 2                 | 0             | disable                   |
| 45    | 4               | 4,5,10,11(TD-OCC on)<br>Reserved(TD-OCC off) | 2                 | 0             | disable                   |
| 46    | Reserved        |                                              |                   |               |                           |
| ⋮     |                 |                                              |                   |               |                           |
| 63    |                 |                                              |                   |               |                           |

FIG. 15B

| Index | NUMBER OF PORTS | PORT NUMBER                                  | NUMBER OF SYMBOLS | SCRAMBLING ID | POSSIBILITY OR NOT OF FDM |
|-------|-----------------|----------------------------------------------|-------------------|---------------|---------------------------|
| 0     | 5               | 0-4                                          | 1                 | 0             | —                         |
| 1     | 5               | 0,1,2,3,6 (TD-OCC on)<br>0-4 (TD-OCC off)    | 2                 | 0             | —                         |
| m     | 5               | 0,1,2,3,6                                    | 2                 | 0             | —                         |
| n     | 5               | 0-4                                          | 2                 | 0             | —                         |
| 2     | 6               | 0-5                                          | 2                 | 0             | —                         |
| 3     | 6               | 0,1,2,3,6,7 (TD-OCC on)<br>0-5 (TD-OCC off)  | 2                 | 0             | —                         |
| 4     | 7               | 0-3,6-8 (TD-OCC on)<br>reserved (TD-OCC off) | 2                 | 0             | —                         |
| 5     | 8               | 0-3,6-9 (TD-OCC on)<br>reserved (TD-OCC off) | 2                 | 0             | —                         |
| 6     | Reserved        |                                              |                   |               |                           |
| ⋮     |                 |                                              |                   |               |                           |
| 63    |                 |                                              |                   |               |                           |

FIG. 16

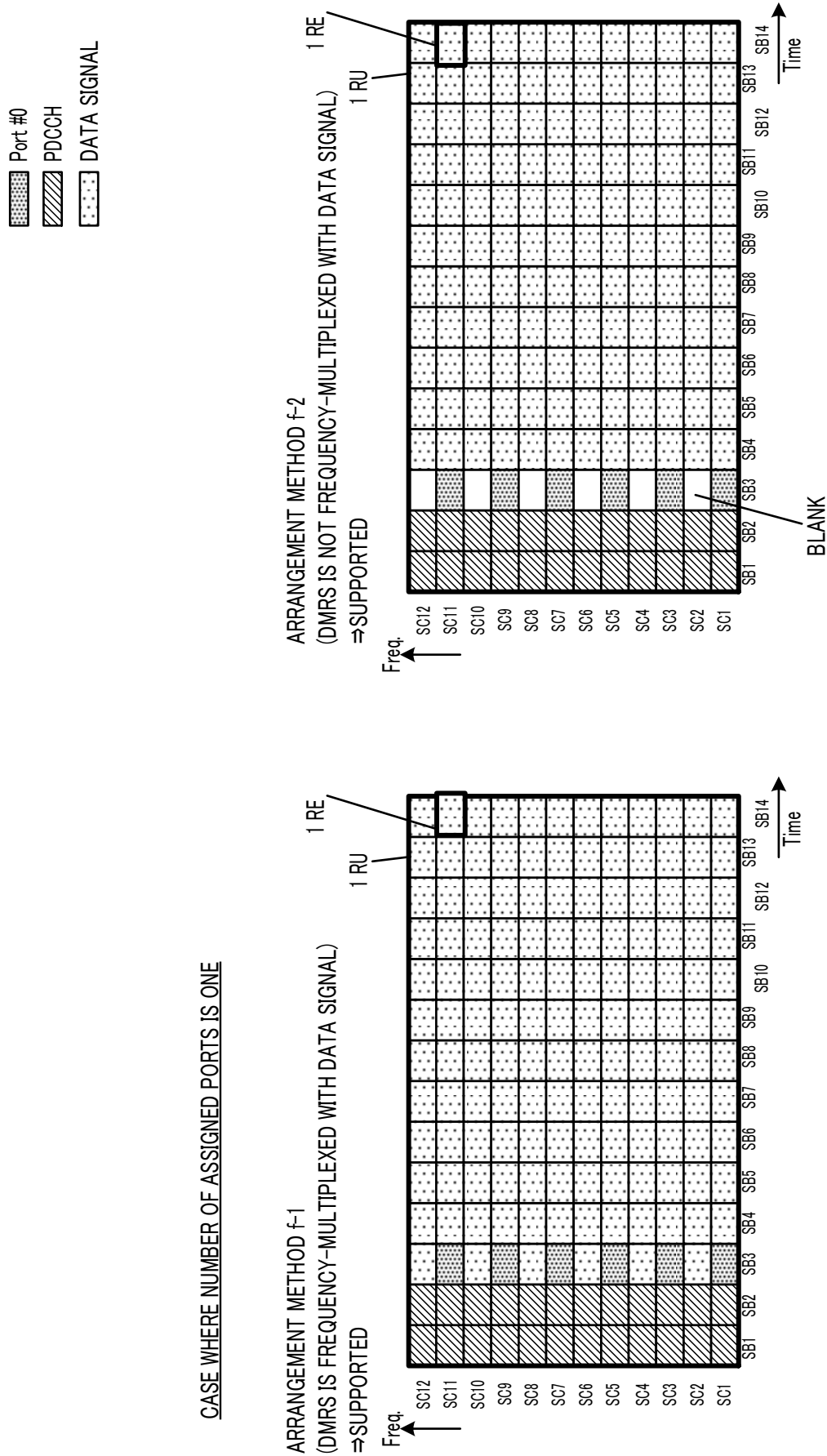


FIG. 17

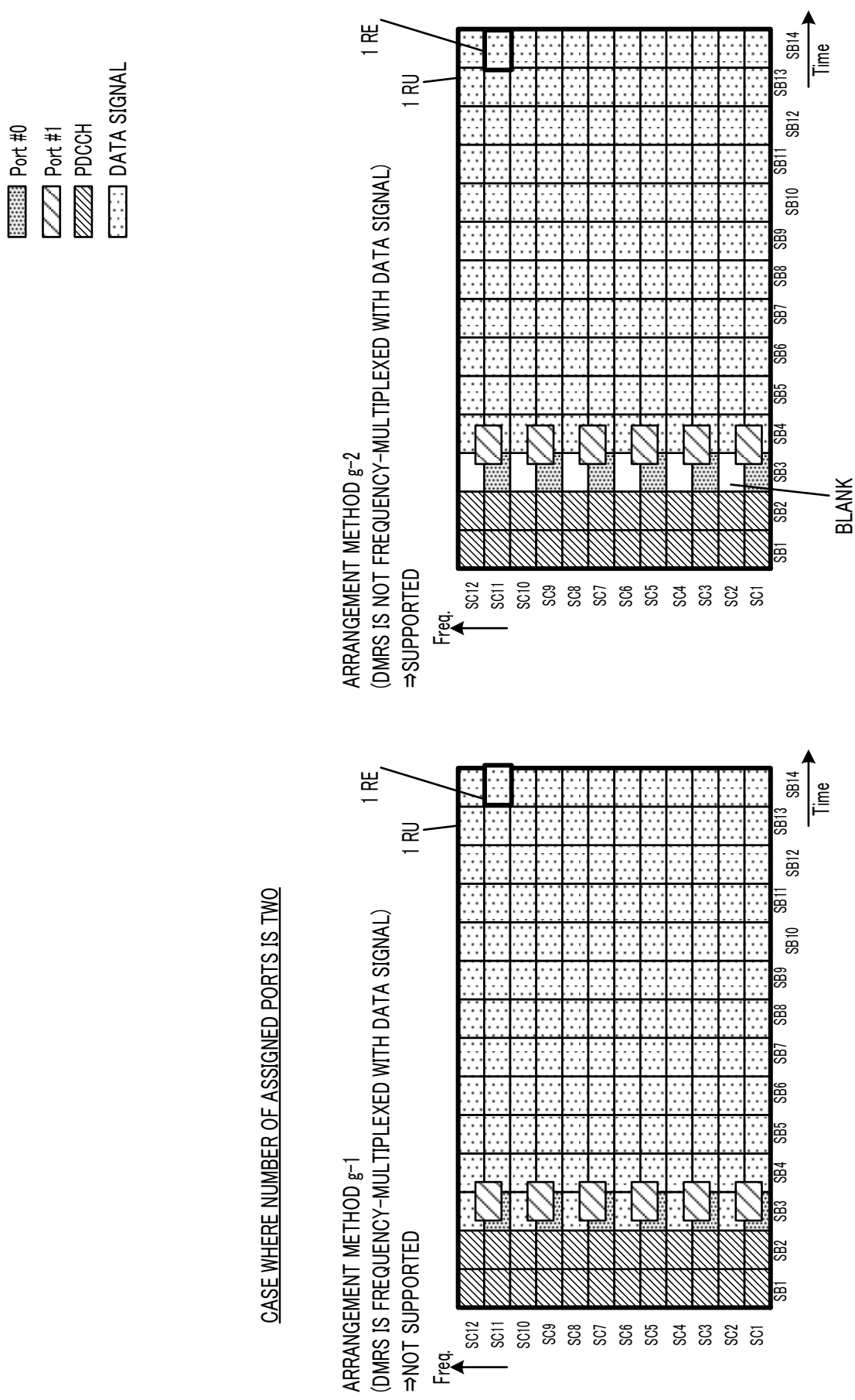


FIG. 18

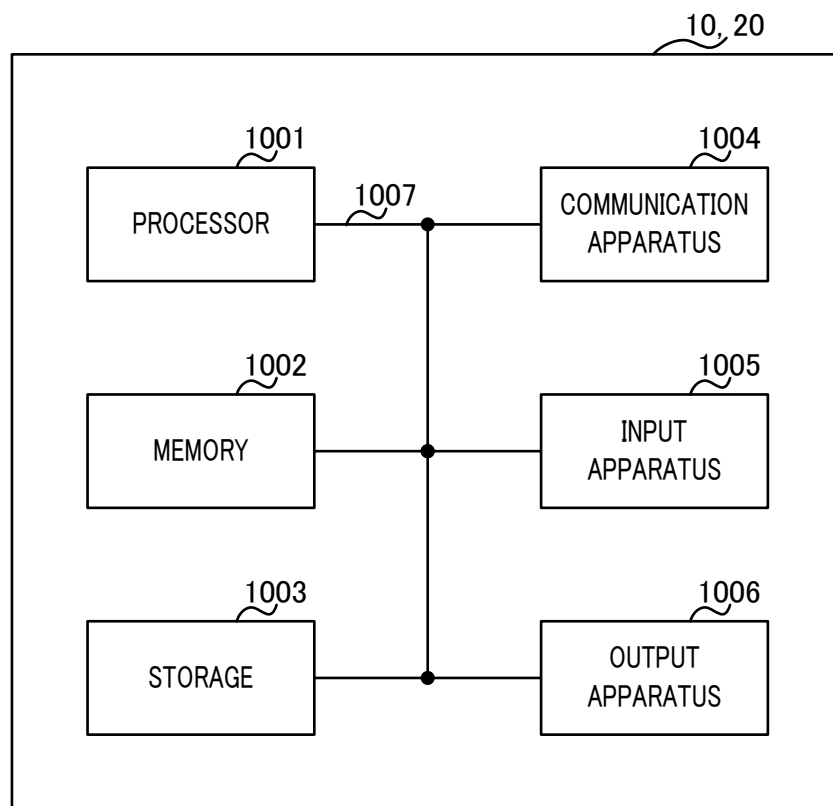


FIG. 19