FIG. 1

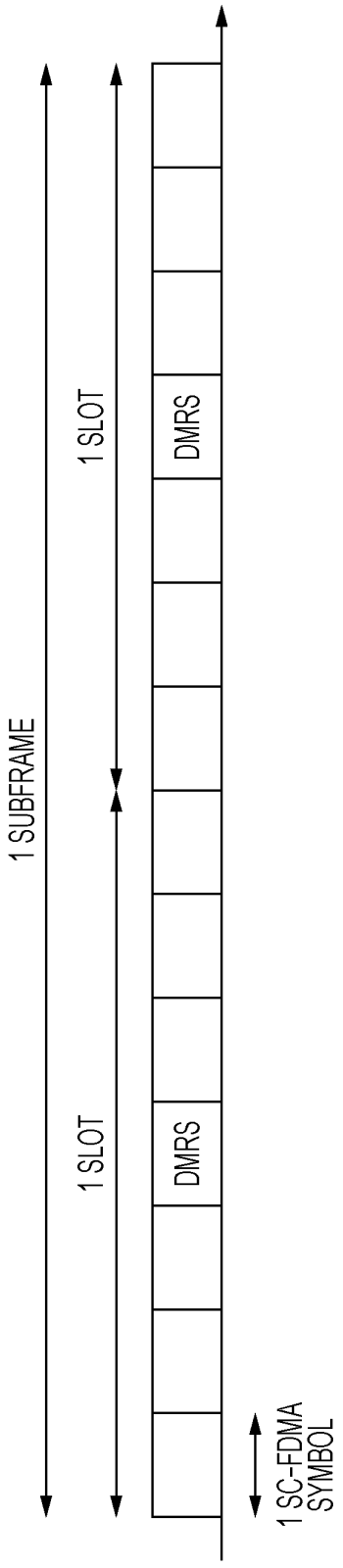


FIG. 2

srs-SubframeConfig	Binary	Configuration Period T_{SFC} (subframes)	Transmission offset Δ_{SFC} (subframes)
0	0000	1	{0}
1	0001	2	{0}
2	0010	2	{1}
3	0011	5	{0}
4	0100	5	{1}
5	0101	5	{2}
6	0110	5	{3}
7	0111	5	{0,1}
8	1000	5	{2,3}
9	1001	10	{0}
10	1010	10	{1}
11	1011	10	{2}
12	1100	10	{3}
13	1101	10	{0,1,2,3,4,6,8}
14	1110	10	{0,1,2,3,4,5,6,8}
15	1111	reserved	reserved

FIG. 3

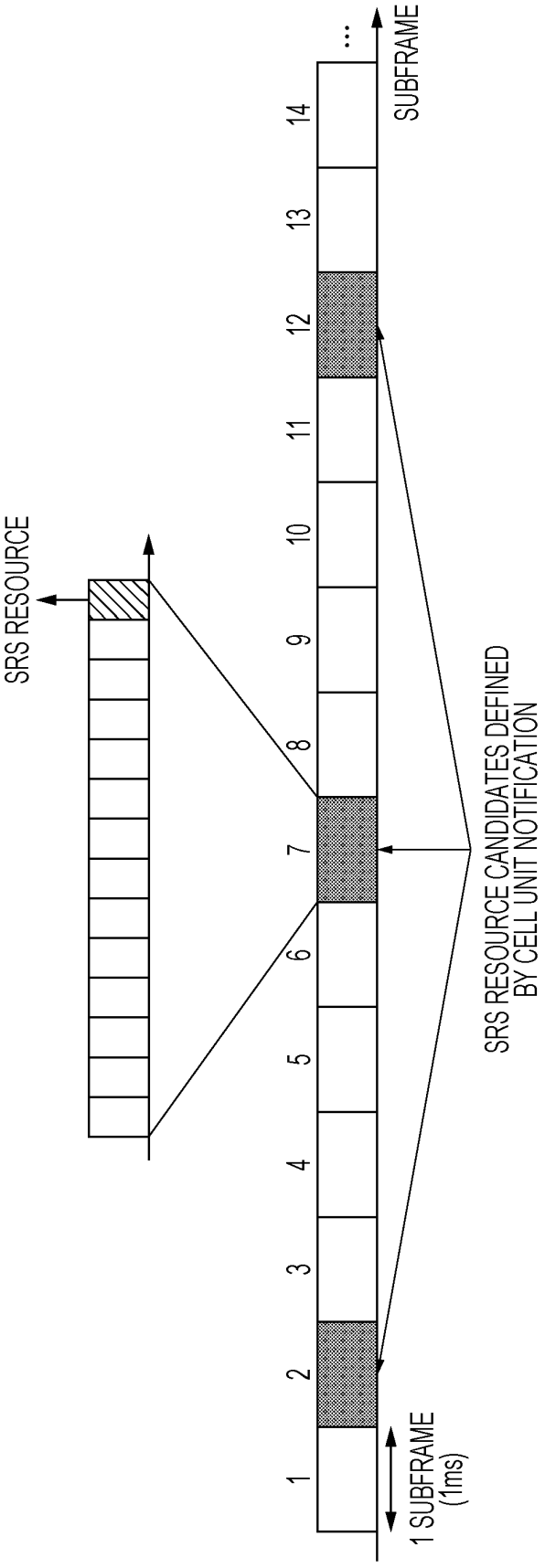

SRS RESOURCE
SUBFRAME
...
1
2
3
4
5
6
7
8
9
10
11
12
13
14
SRS RESOURCE CANDIDATES DEFINED BY CELL UNIT NOTIFICATION
1 SUBFRAME (1ms)

FIG. 4

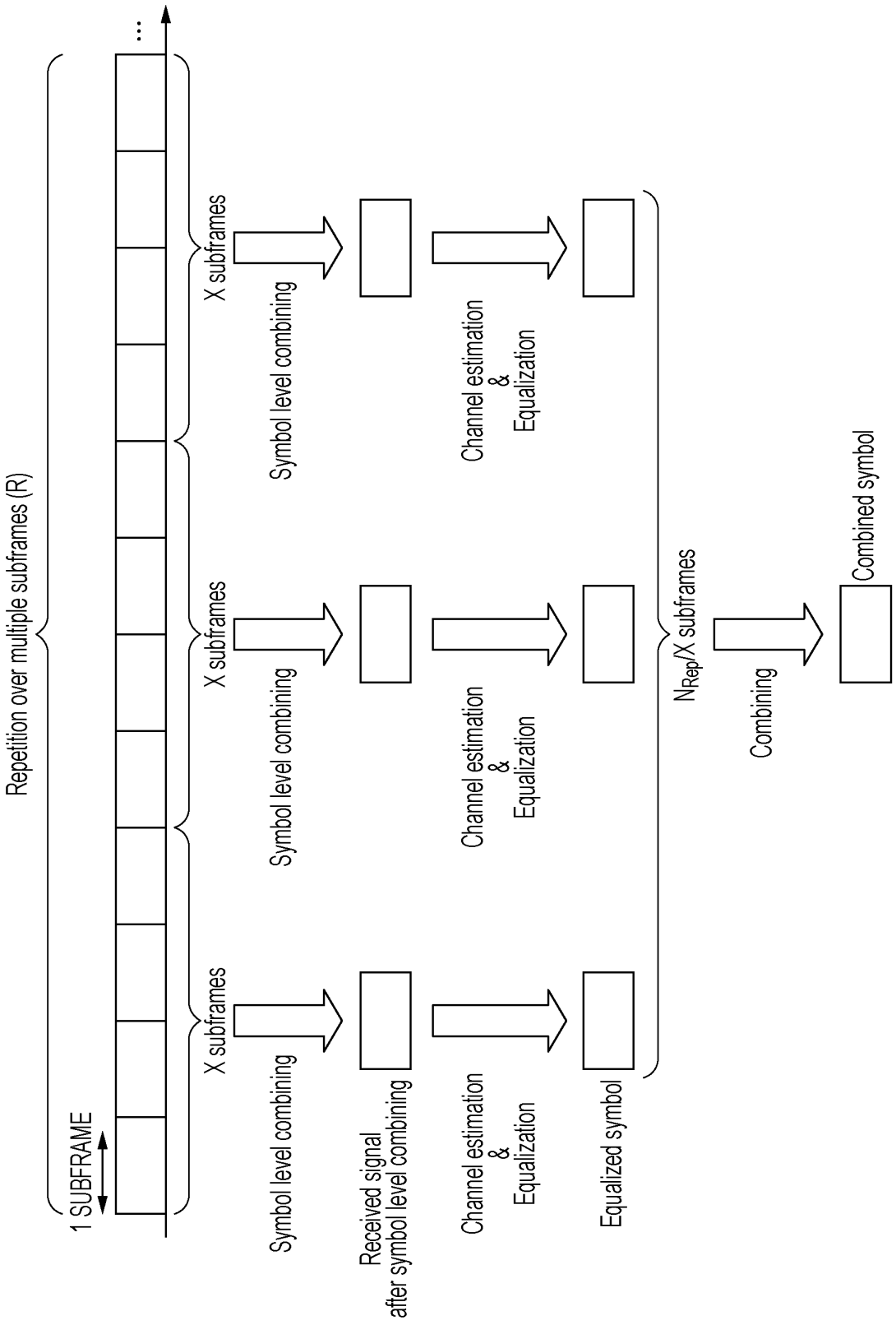

Repetition over multiple subframes (R)
1 SUBFRAME
X subframes
Symbol level combining
Received signal after symbol level combining
Channel estimation & Equalization
Equalized symbol
N_{Rep}/X subframes
Combining
Combined symbol

FIG. 5

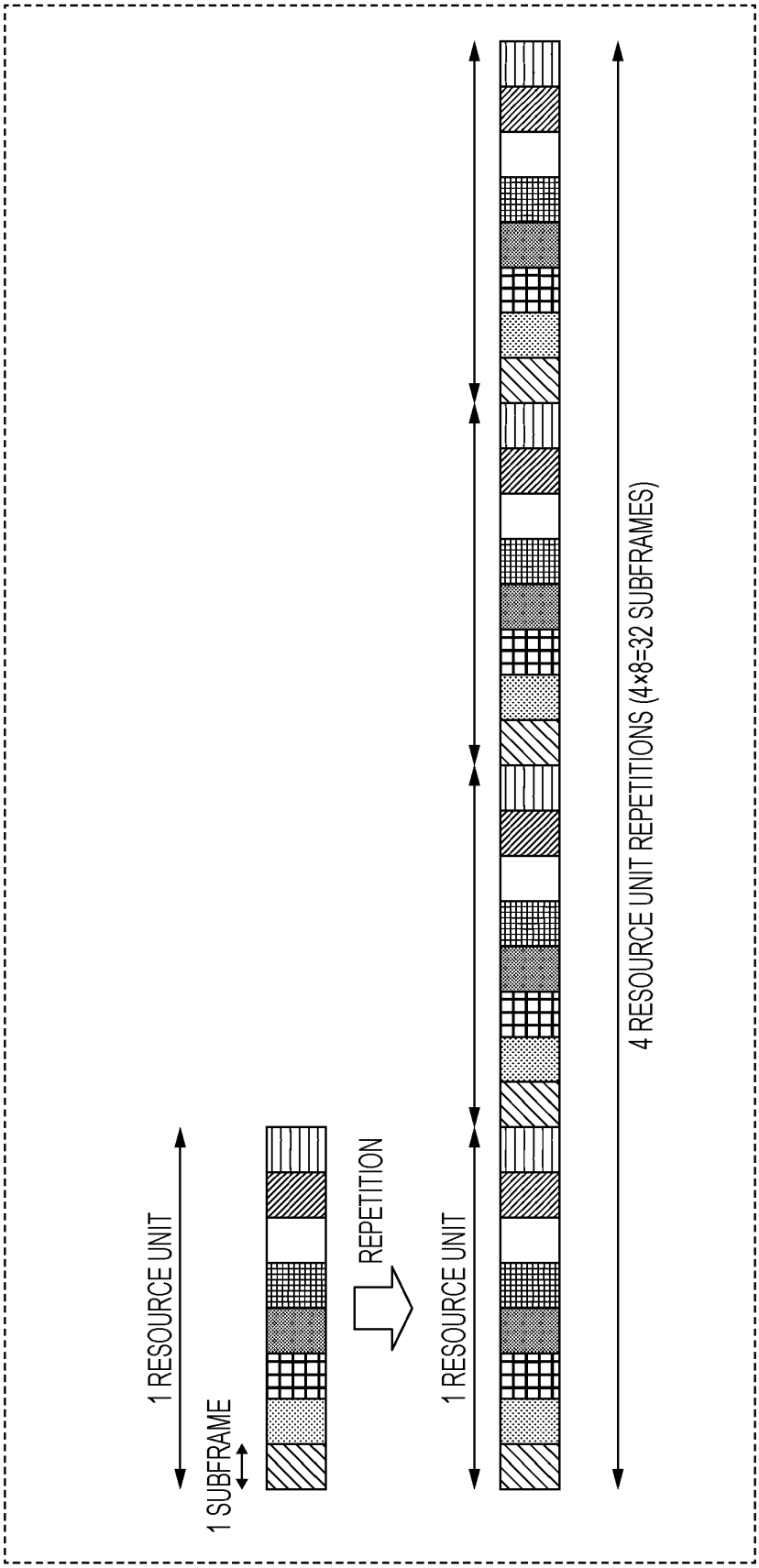

1 RESOURCE UNIT
1 SUBFRAME
REPETITION
1 RESOURCE UNIT
4 RESOURCE UNIT REPETITIONS (4×8=32 SUBFRAMES)

FIG. 6

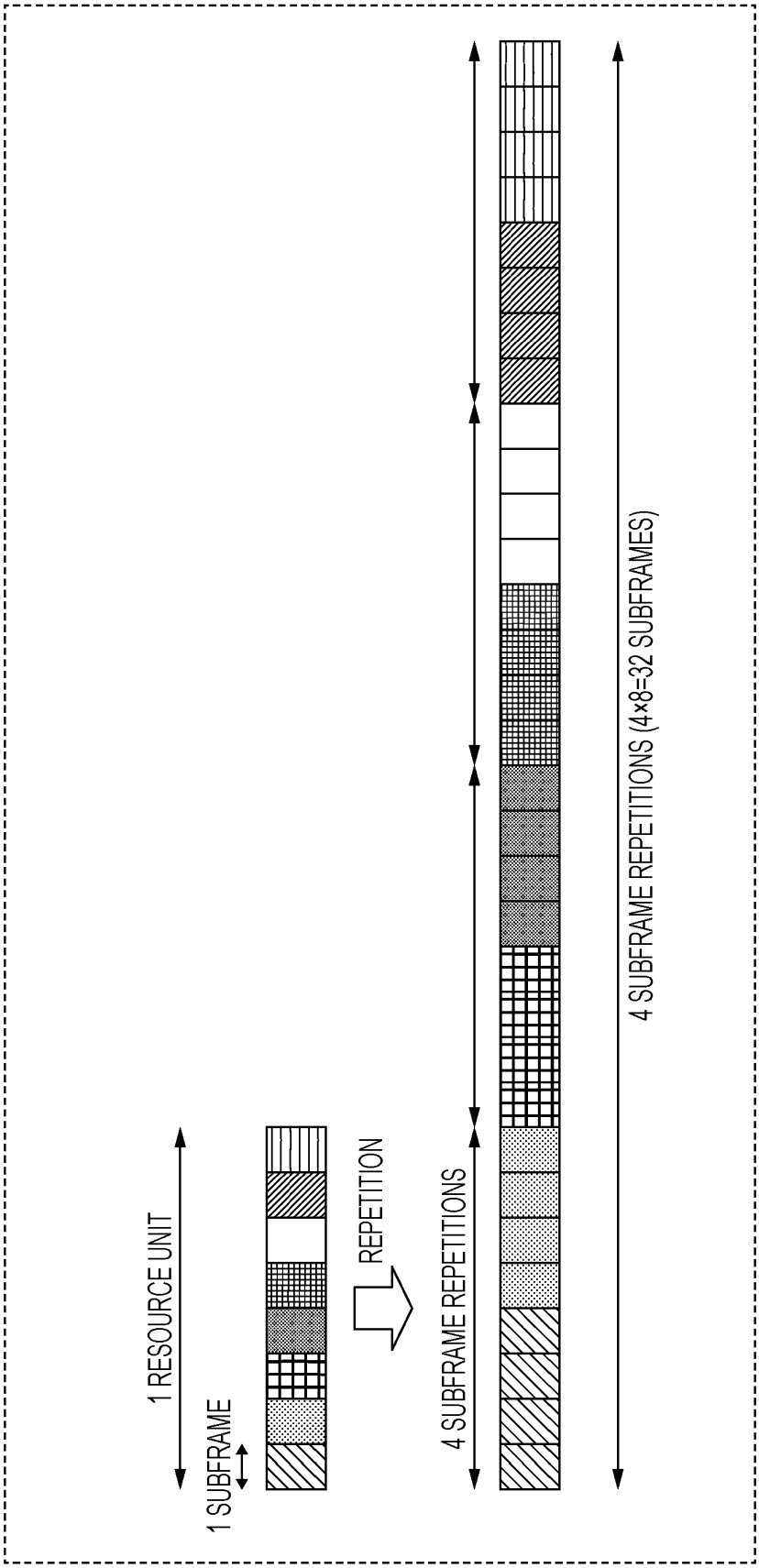

1 RESOURCE UNIT
1 SUBFRAME
REPETITION
4 SUBFRAME REPETITIONS
4 SUBFRAME REPETITIONS (4×8=32 SUBFRAMES)

FIG. 7

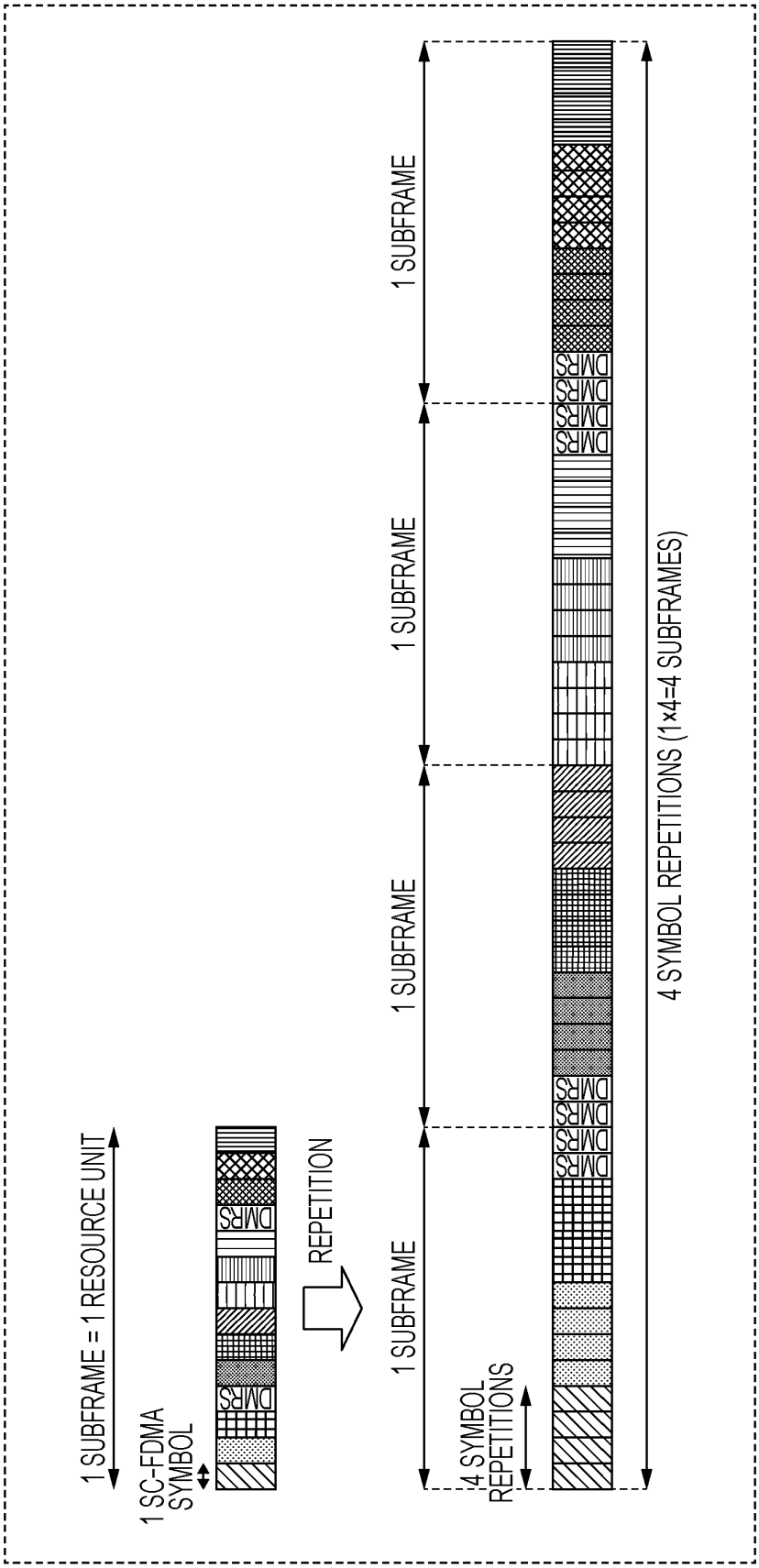

1 SUBFRAME = 1 RESOURCE UNIT
1 SC-FDMA SYMBOL
DMRS
REPETITION
1 SUBFRAME
1 SUBFRAME
1 SUBFRAME
4 SYMBOL REPETITIONS
4 SYMBOL REPETITIONS (1×4=4 SUBFRAMES)

FIG. 8

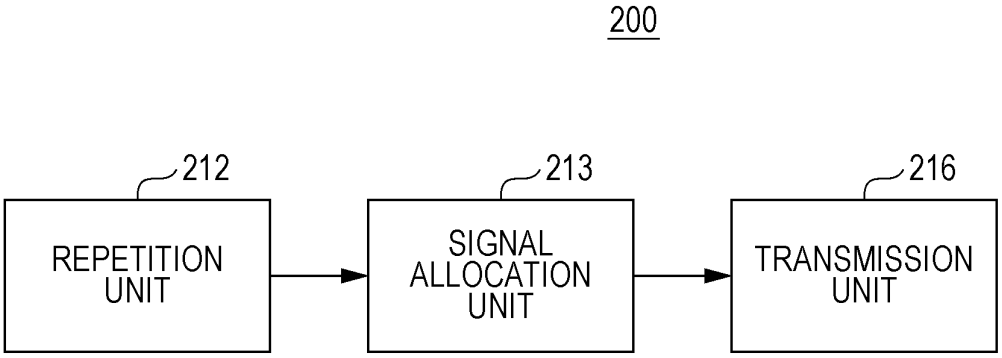

200
212
REPETITION UNIT
213
SIGNAL ALLOCATION UNIT
216
TRANSMISSION UNIT

FIG. 9

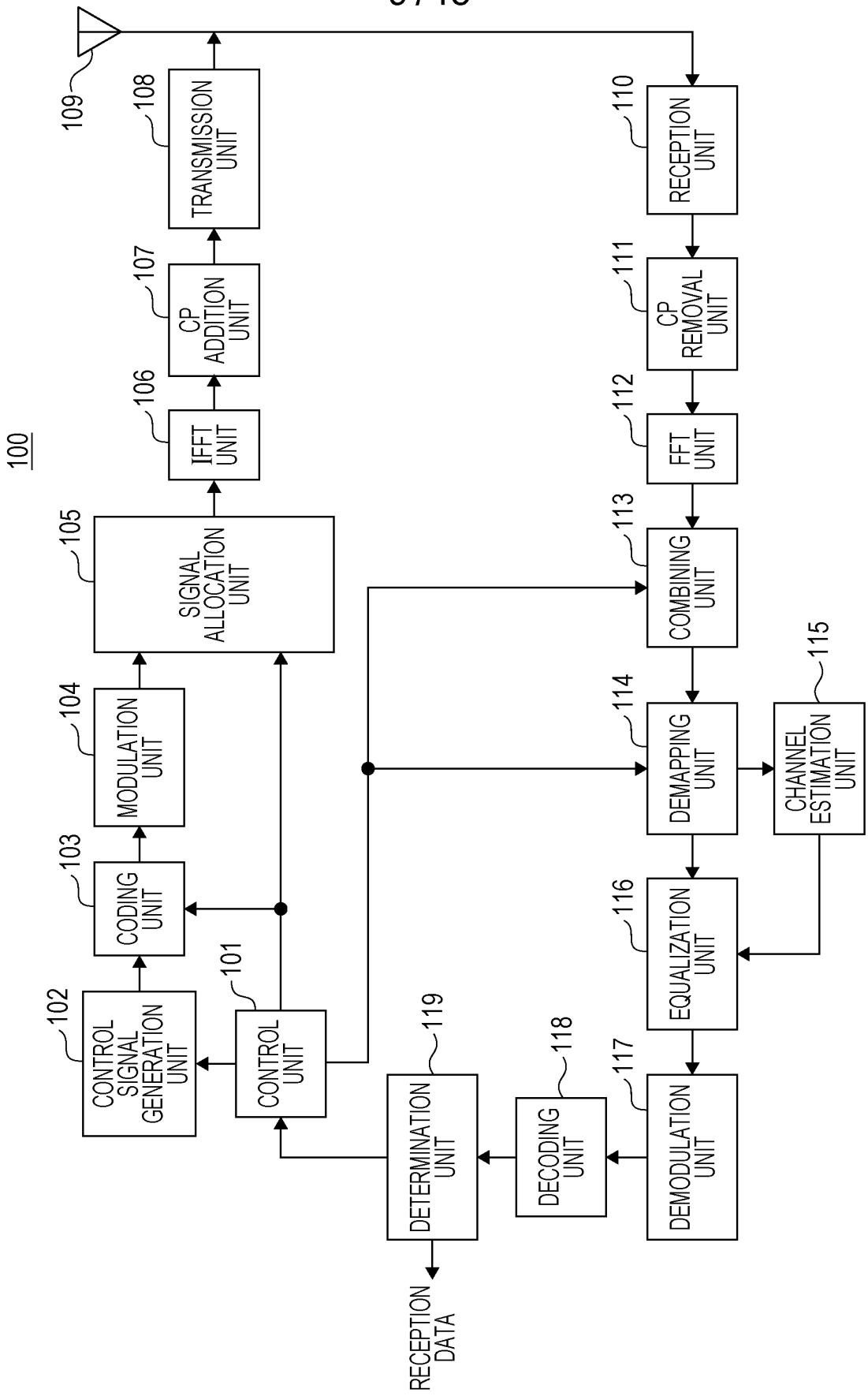

100
109
108
TRANSMISSION UNIT
107
CP ADDITION UNIT
106
IFFT UNIT
105
SIGNAL ALLOCATION UNIT
104
MODULATION UNIT
103
CODING UNIT
102
CONTROL SIGNAL GENERATION UNIT
101
CONTROL UNIT
119
DETERMINATION UNIT
RECEPTION DATA
118
DECODING UNIT
117
DEMODULATION UNIT
116
EQUALIZATION UNIT
114
DEMAPPING UNIT
115
CHANNEL ESTIMATION UNIT
113
COMBINING UNIT
112
FFT UNIT
111
CP REMOVAL UNIT
110
RECEPTION UNIT

FIG. 10

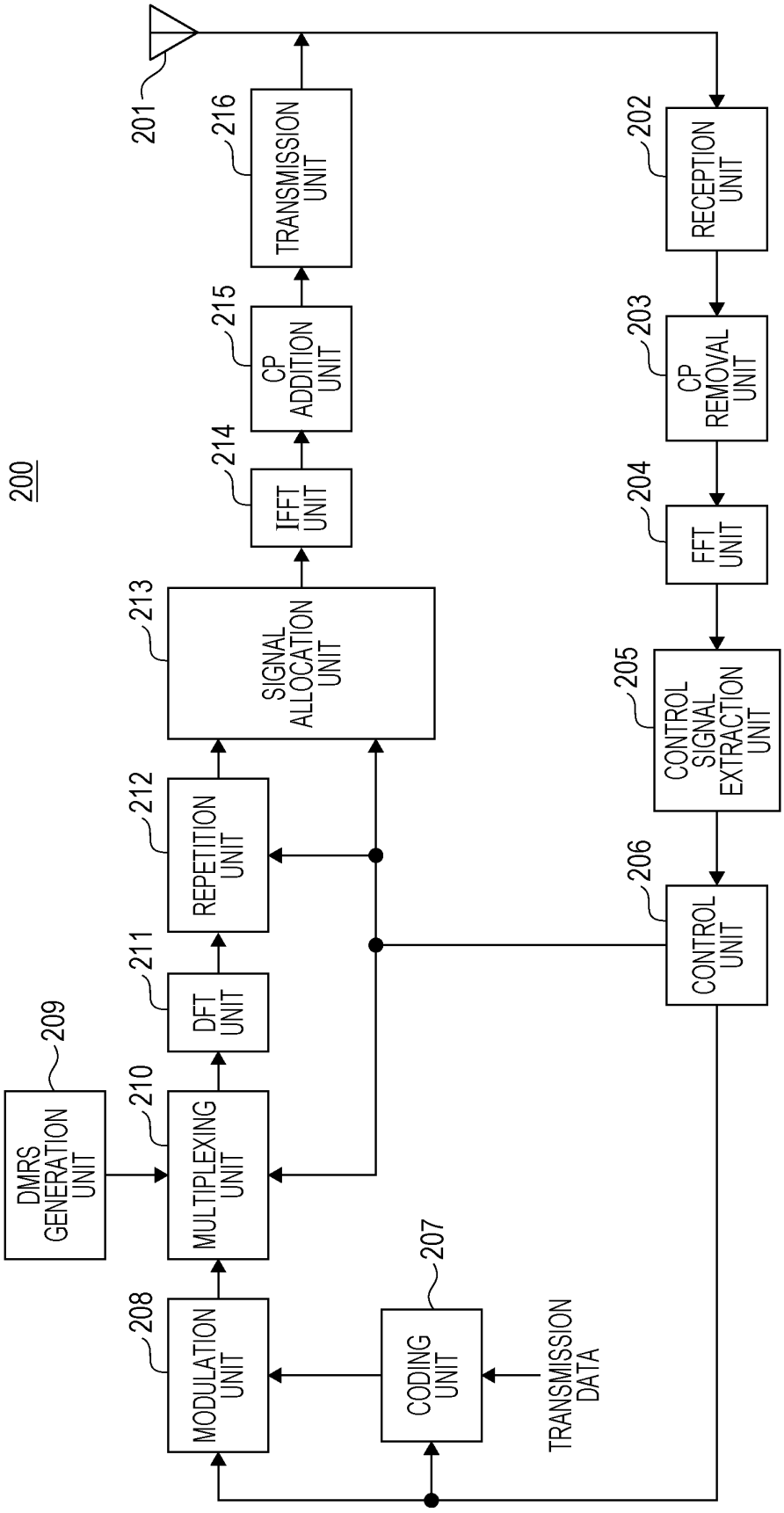

200
201
202 RECEPTION UNIT
203 CP REMOVAL UNIT
204 FFT UNIT
205 CONTROL SIGNAL EXTRACTION UNIT
206 CONTROL UNIT
207 CODING UNIT
208 MODULATION UNIT
209 DMRS GENERATION UNIT
210 MULTIPLEXING UNIT
211 DFT UNIT
212 REPETITION UNIT
213 SIGNAL ALLOCATION UNIT
214 IFFT UNIT
215 CP ADDITION UNIT
216 TRANSMISSION UNIT
TRANSMISSION DATA

FIG. 11

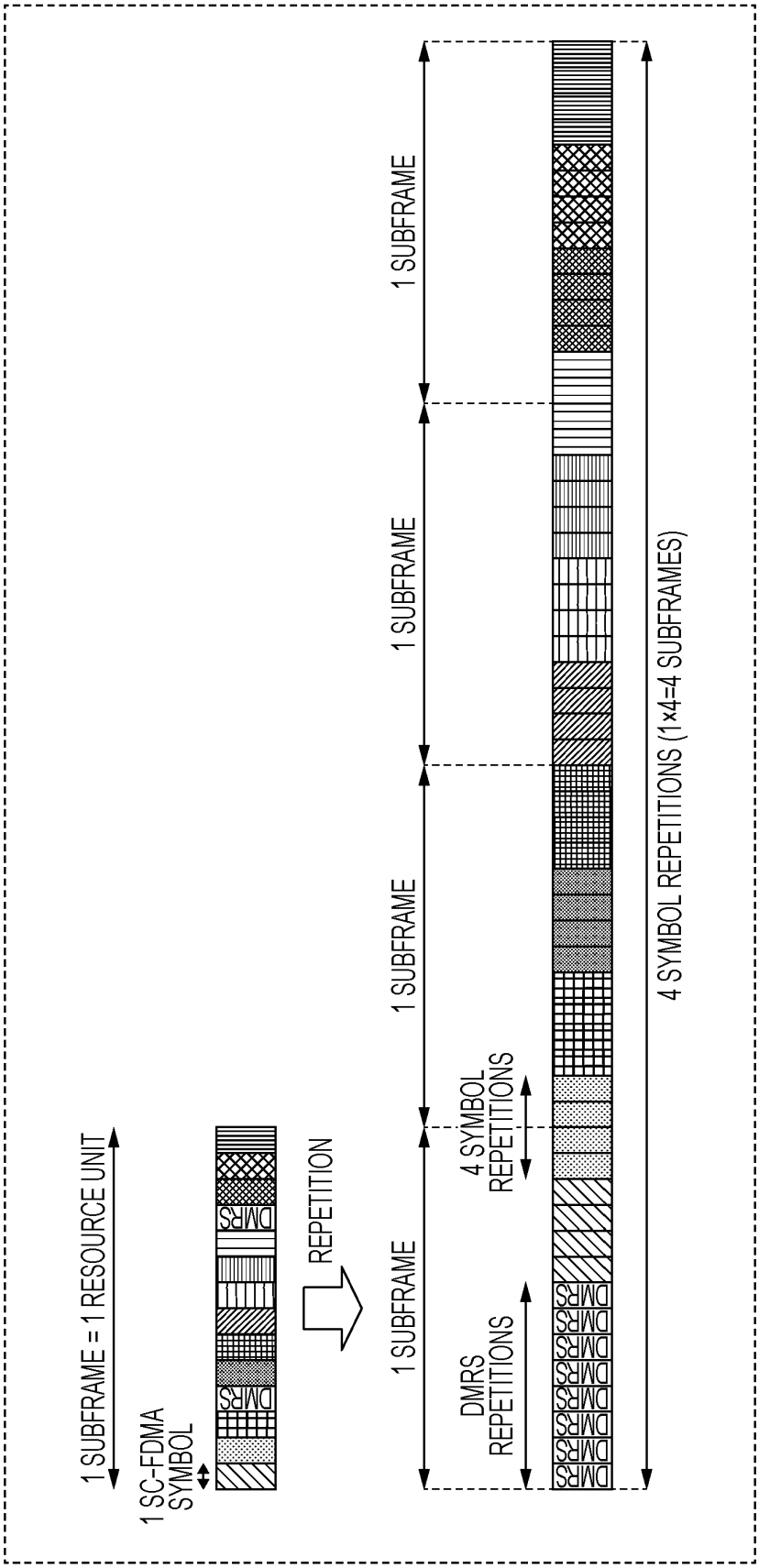

1 SUBFRAME = 1 RESOURCE UNIT
1 SC-FDMA SYMBOL
DMRS
DMRS
REPETITION
1 SUBFRAME
1 SUBFRAME
1 SUBFRAME
1 SUBFRAME
4 SYMBOL REPETITIONS
DMRS REPETITIONS
4 SYMBOL REPETITIONS (1×4=4 SUBFRAMES)

FIG. 12

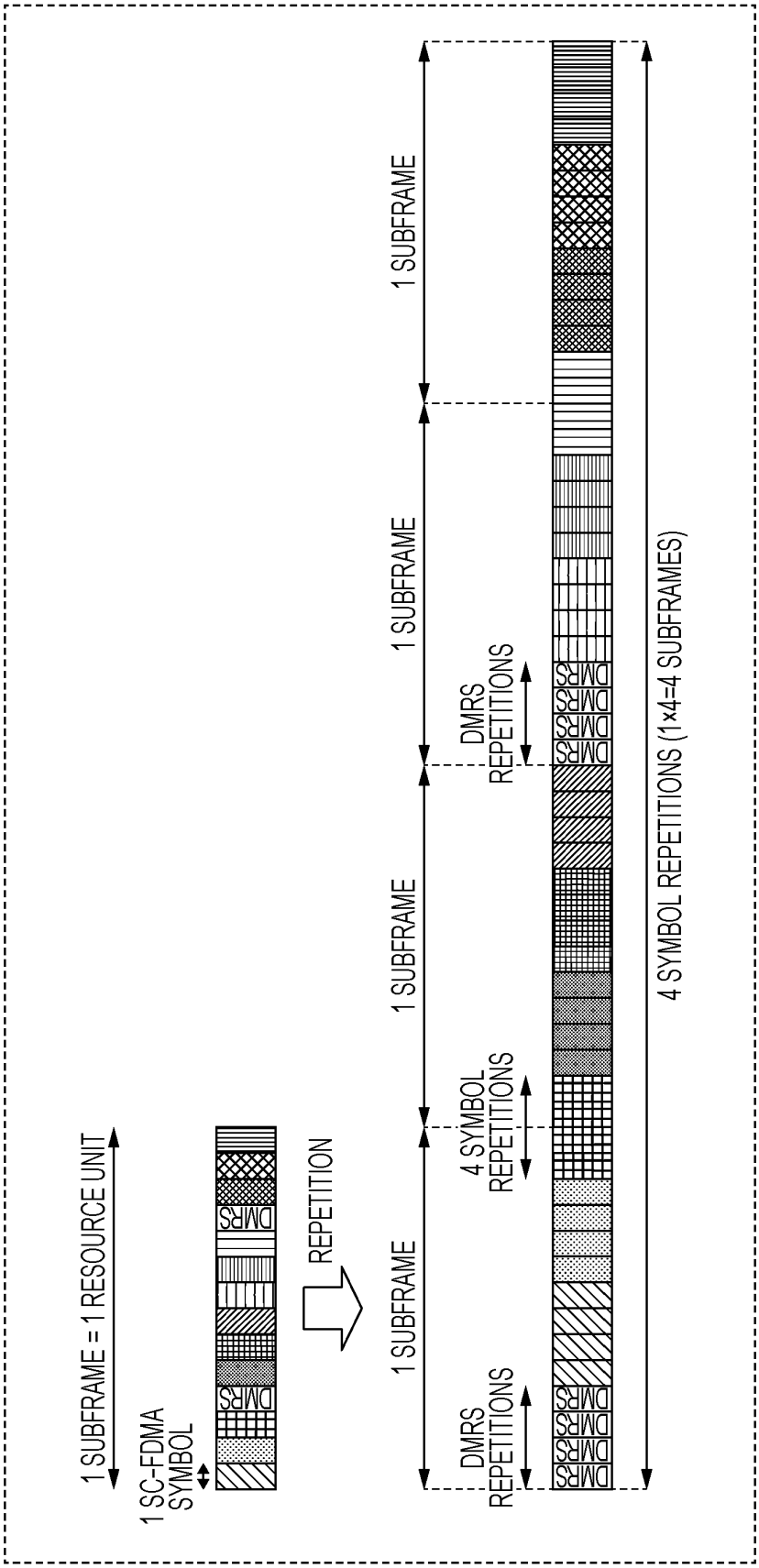
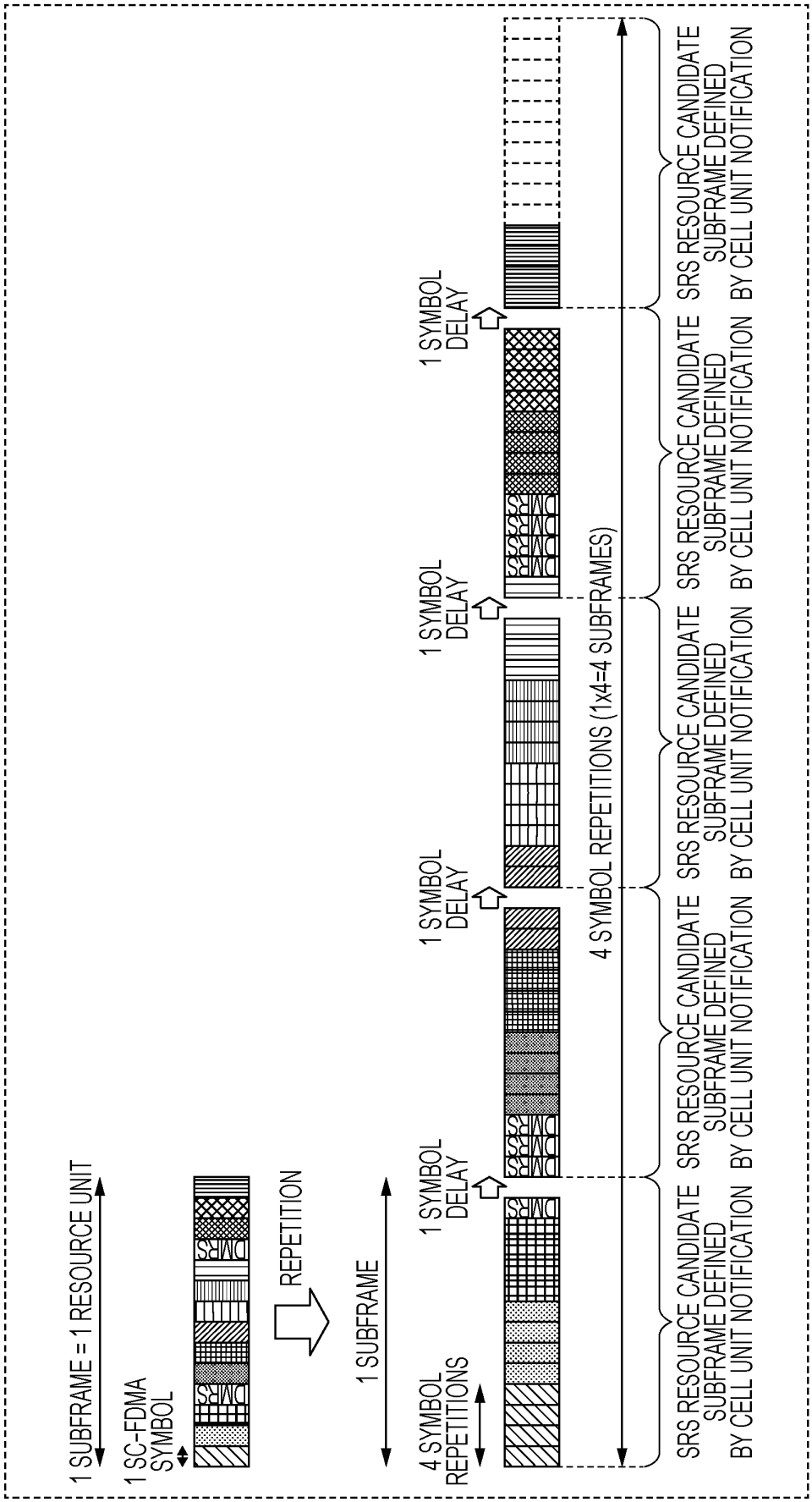

1 SUBFRAME = 1 RESOURCE UNIT
1 SC-FDMA SYMBOL
DMRS
REPETITION
1 SUBFRAME
1 SUBFRAME
1 SUBFRAME
1 SUBFRAME
DMRS REPETITIONS
4 SYMBOL REPETITIONS
DMRS REPETITIONS
4 SYMBOL REPETITIONS (1×4=4 SUBFRAMES)

FIG. 13


1 SUBFRAME = 1 RESOURCE UNIT
1 SC-FDMA SYMBOL
REPETITION
1 SUBFRAME
4 SYMBOL REPETITIONS
1 SYMBOL DELAY
1 SYMBOL DELAY
1 SYMBOL DELAY
4 SYMBOL REPETITIONS (1x4=4 SUBFRAMES)
SRS RESOURCE CANDIDATE SUBFRAME DEFINED BY CELL UNIT NOTIFICATION
SRS RESOURCE CANDIDATE SUBFRAME DEFINED BY CELL UNIT NOTIFICATION
SRS RESOURCE CANDIDATE SUBFRAME DEFINED BY CELL UNIT NOTIFICATION
SRS RESOURCE CANDIDATE SUBFRAME DEFINED BY CELL UNIT NOTIFICATION