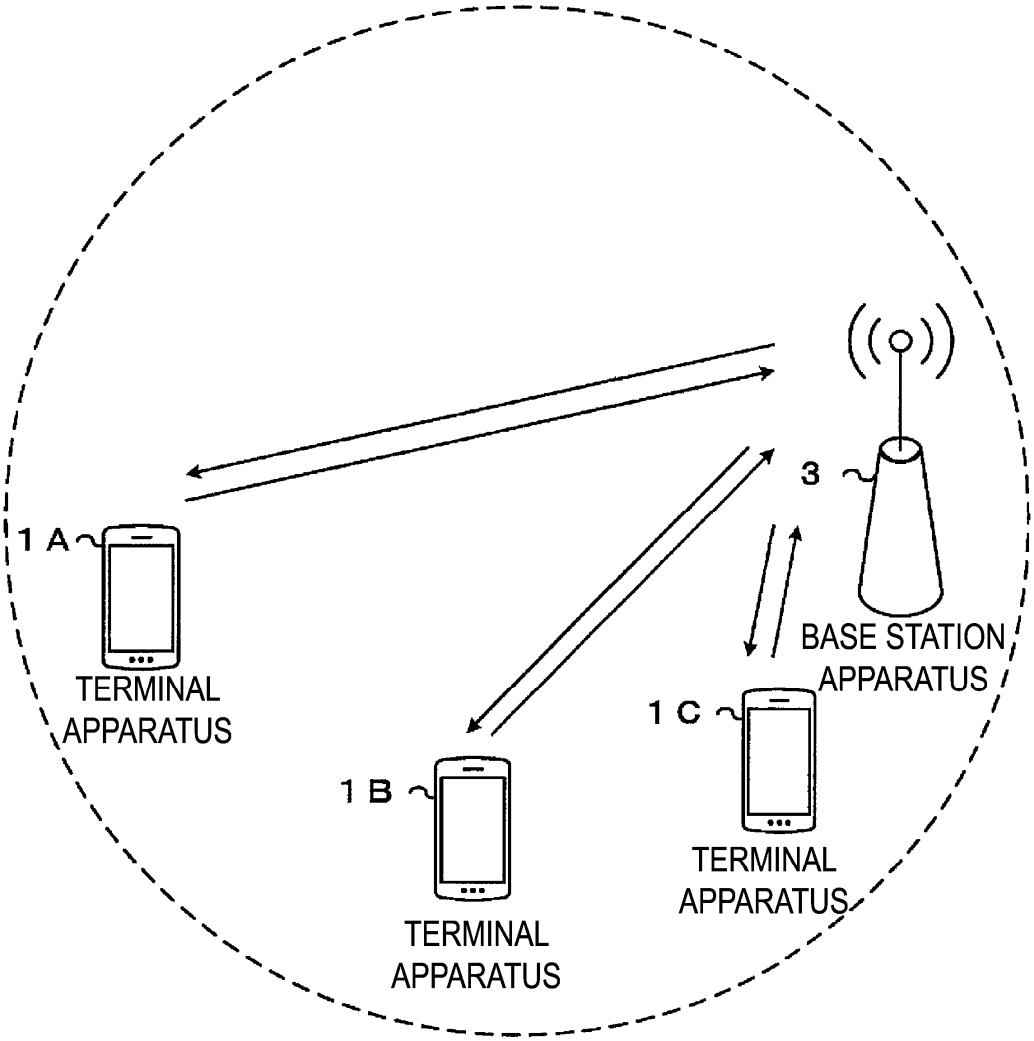

1 A
TERMINAL APPARATUS
3
BASE STATION APPARATUS
1 B
TERMINAL APPARATUS
1 C
TERMINAL APPARATUS

FIG. 1

Figure 2A: Number of OFDM symbols per slot, slots per frame, and slots per subframe for normal cyclic prefix.

μ	N_{symb}^{slot}	$N_{slot}^{frame,\mu}$	$N_{slot}^{subframe,\mu}$
0	14	10	1
1	14	20	2
2	14	40	4
3	14	80	8
4	14	160	16

FIG. 2A

Figure 2B: Number of OFDM symbols per slot, slots per frame, and slots per subframe for extended cyclic prefix.

μ	N_{symb}^{slot}	$N_{slot}^{frame,\mu}$	$N_{slot}^{subframe,\mu}$
2	12	40	4

FIG. 2B

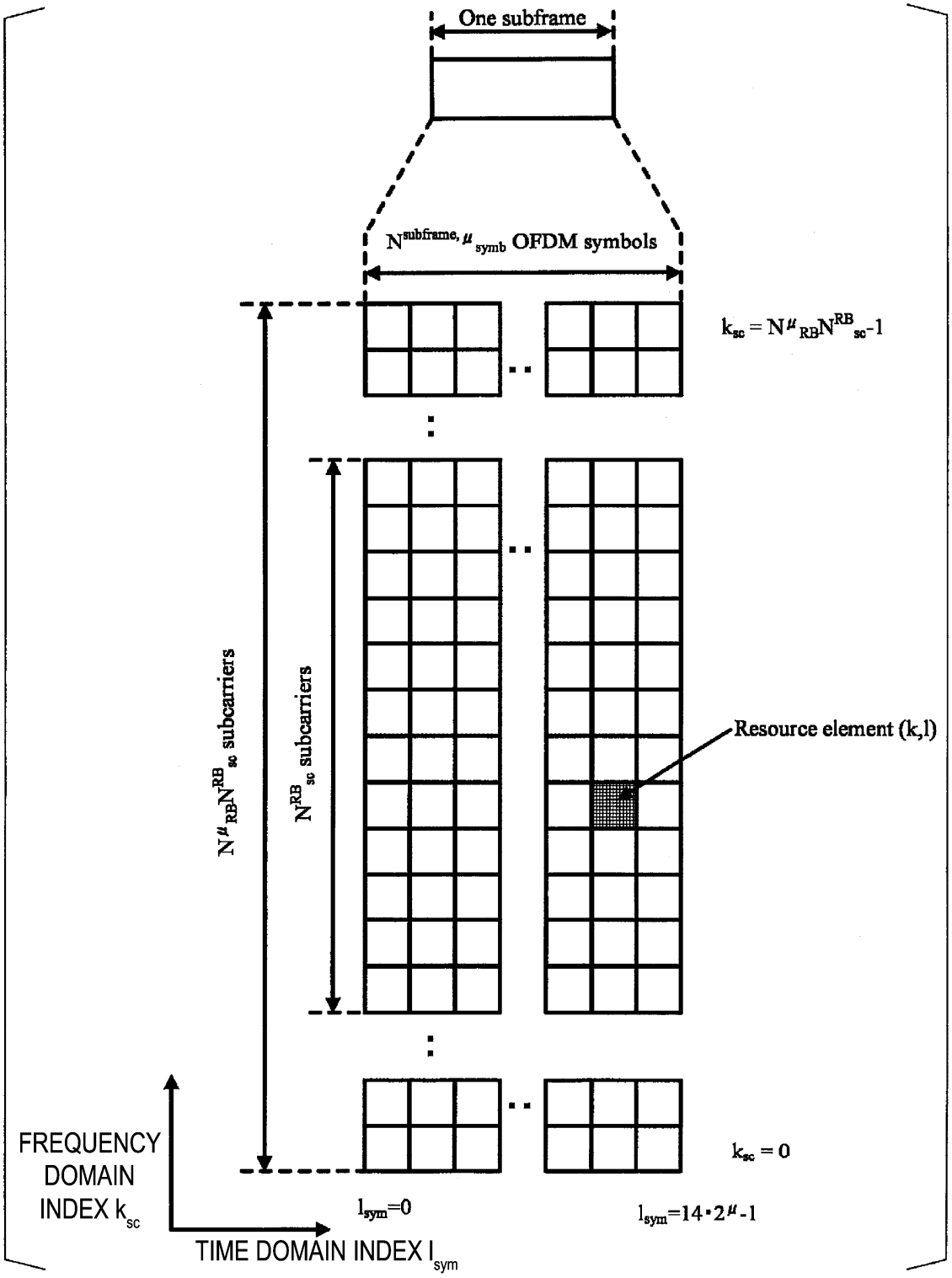

One subframe
$N^{subframe,\mu}_{symb}$ OFDM symbols
$k_{sc} = N^{\mu}_{RB}N^{RB}_{sc}-1$
$N^{\mu}_{RB}N^{RB}_{sc}$ subcarriers
N^{RB}_{sc} subcarriers
Resource element (k,l)
$k_{sc} = 0$
FREQUENCY DOMAIN INDEX k_{sc}
$l_{sym}=0$
$l_{sym}=14\cdot 2^{\mu}-1$
TIME DOMAIN INDEX l_{sym}

FIG. 3

PUCCH format	Length in OFDM symbols N^{PUCCH}_{symb}
0	1 - 2
1	4 - 14
2	1 - 2
3	4 - 14
4	4 -14

FIG. 4

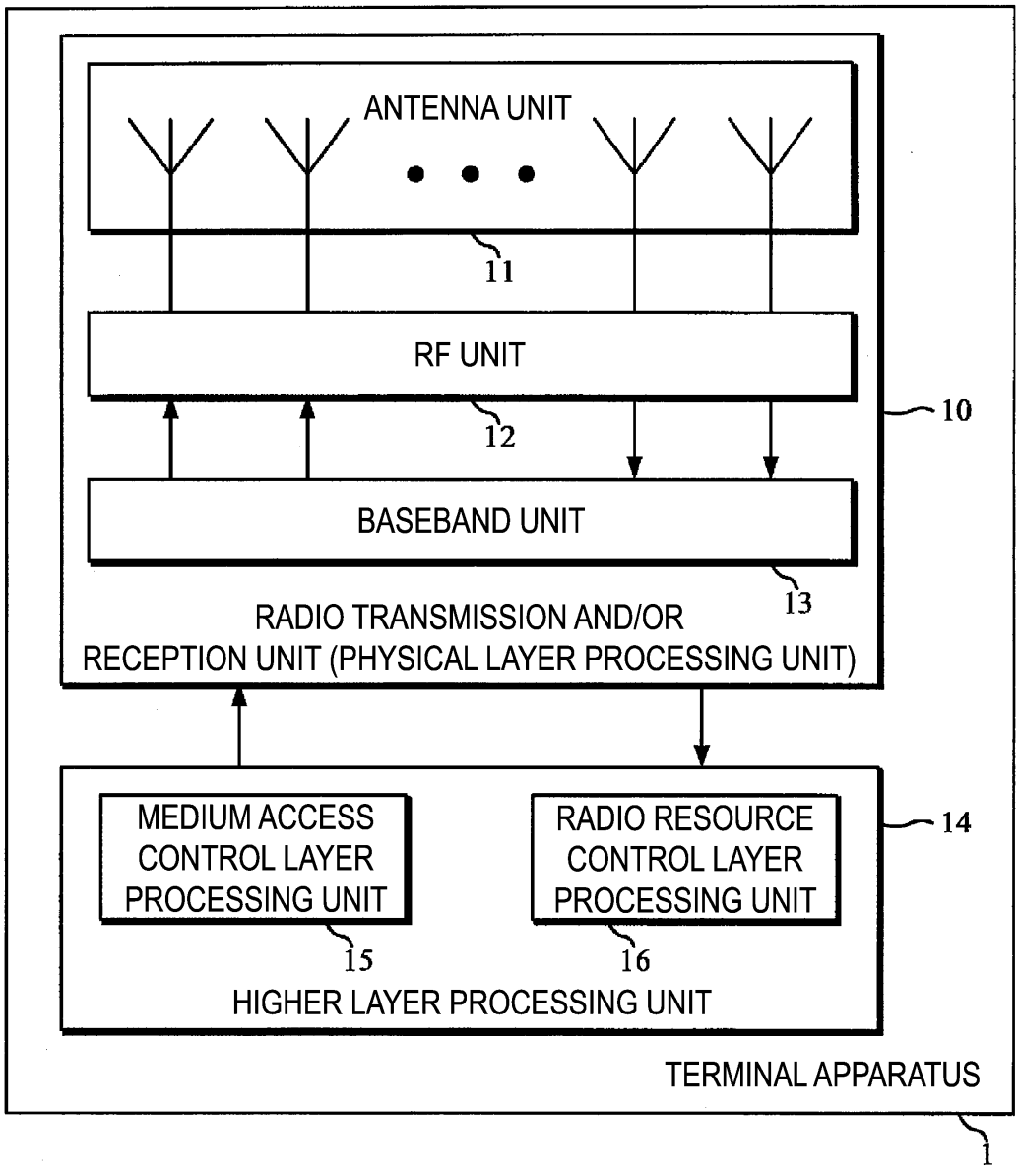

ANTENNA UNIT
11
RF UNIT
12
10
BASEBAND UNIT
13
RADIO TRANSMISSION AND/OR
RECEPTION UNIT (PHYSICAL LAYER PROCESSING UNIT)
MEDIUM ACCESS
CONTROL LAYER
PROCESSING UNIT
15
RADIO RESOURCE
CONTROL LAYER
PROCESSING UNIT
16
14
HIGHER LAYER PROCESSING UNIT
TERMINAL APPARATUS
1

FIG. 5

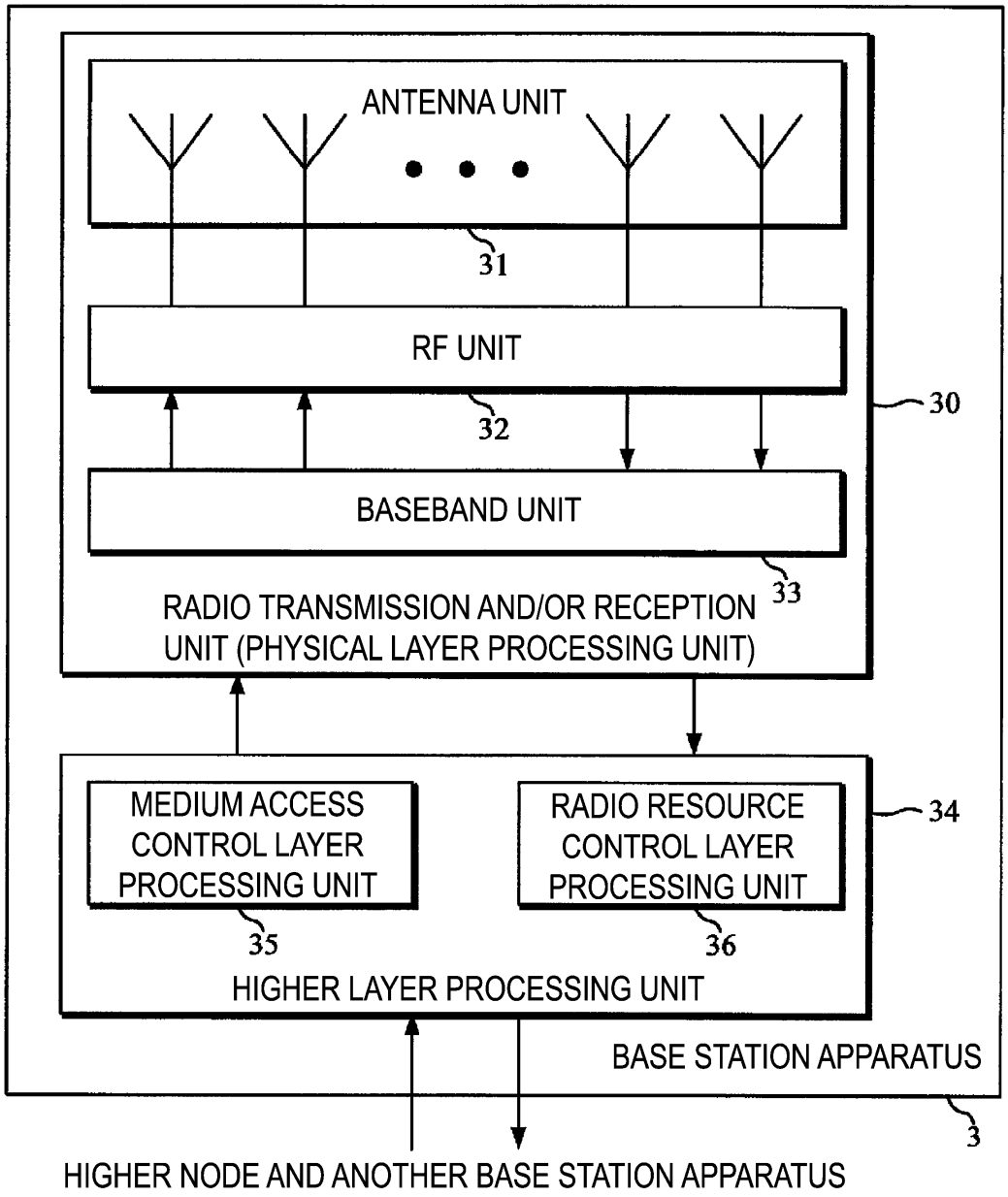

ANTENNA UNIT
31
RF UNIT
32
30
BASEBAND UNIT
33
RADIO TRANSMISSION AND/OR RECEPTION UNIT (PHYSICAL LAYER PROCESSING UNIT)
MEDIUM ACCESS CONTROL LAYER PROCESSING UNIT
35
RADIO RESOURCE CONTROL LAYER PROCESSING UNIT
36
34
HIGHER LAYER PROCESSING UNIT
BASE STATION APPARATUS
3
HIGHER NODE AND ANOTHER BASE STATION APPARATUS

FIG. 6