

FIG 1A

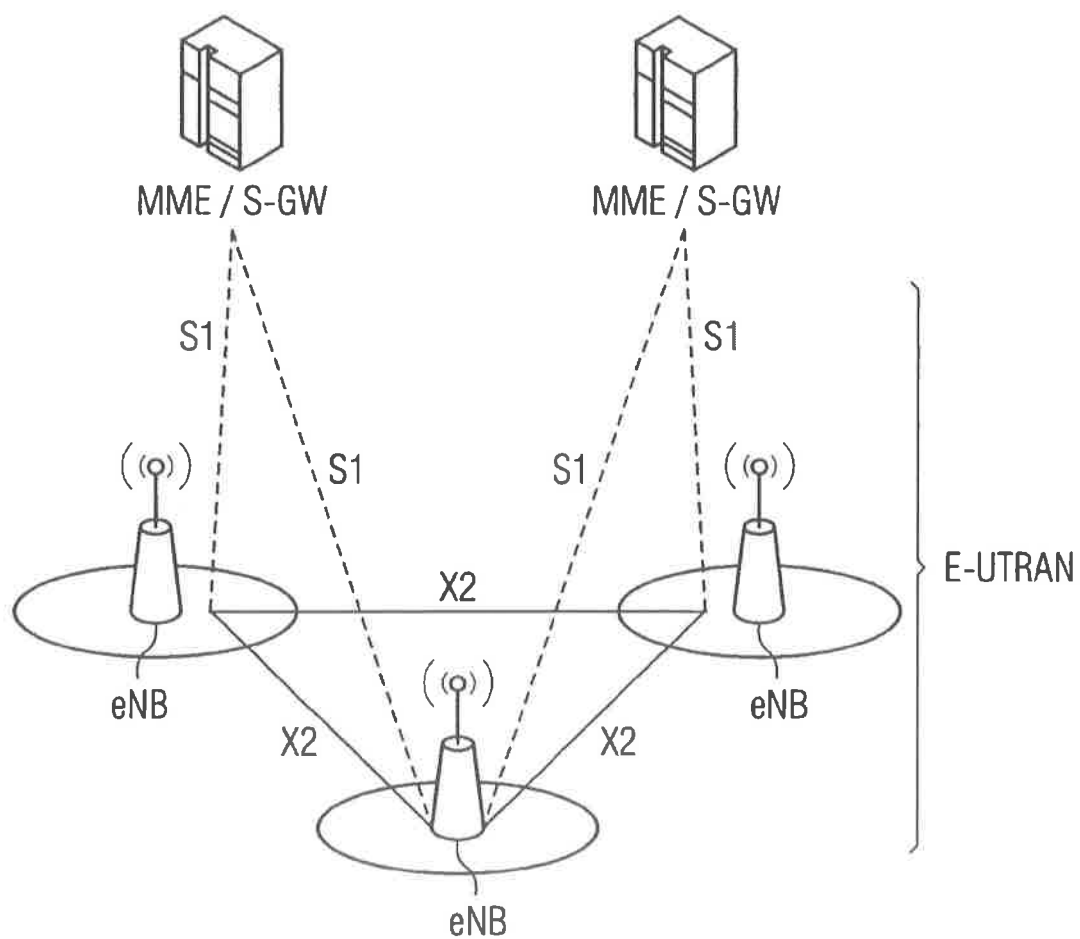


FIG 1B Part 1

Table 6.10.5.2.-1: Mapping from CSI reference signal configuration to (k', l') for normal cyclic prefix.

	CSI reference signal configuration	Number of CSI reference signals configured					
		1 or 2		4		8	
		(k', l')	$n_S \bmod 2$	(k', l')	$n_S \bmod 2$	(k', l')	$n_S \bmod 2$
Frame structure type 1 and 2	0	(9, 5)	0	(9, 5)	0	(9, 5)	0
	1	(11, 2)	1	(11, 2)	1	(11, 2)	1
	2	(9, 2)	1	(9, 2)	1	(9, 2)	1
	3	(7, 2)	1	(7, 2)	1	(7, 2)	1
	4	(9, 5)	1	(9, 5)	1	(9, 5)	1
	5	(8, 5)	0	(8, 5)	0		
	6	(10, 2)	1	(10, 2)	1		
	7	(8, 2)	1	(8, 2)	1		
	8	(6, 2)	1	(6, 2)	1		
	9	(8, 5)	1	(8, 5)	1		
	10	(3, 5)	0				
	11	(2, 5)	0				
	12	(5, 2)	1				
	13	(4, 2)	1				
	14	(3, 2)	1				
	15	(2, 2)	1				
	16	(1, 2)	1				
	17	(0, 2)	1				
	18	(3, 5)	1				
	19	(2, 5)	1				
Frame structure type 2 only	20	(11, 1)	1	(11, 1)	1	(11, 1)	1
	21	(9, 1)	1	(9, 1)	1	(9, 1)	1
	22	(7, 1)	1	(7, 1)	1	(7, 1)	1
	23	(10, 1)	1	(10, 1)	1		
	24	(8, 1)	1	(8, 1)	1		
	25	(6, 1)	1	(6, 1)	1		
	26	(5, 1)	1				
	27	(4, 1)	1				
	28	(3, 1)	1				
	29	(2, 1)	1				
	30	(1, 1)	1				
	31	(0, 1)	1				

FIG 1B Part 2

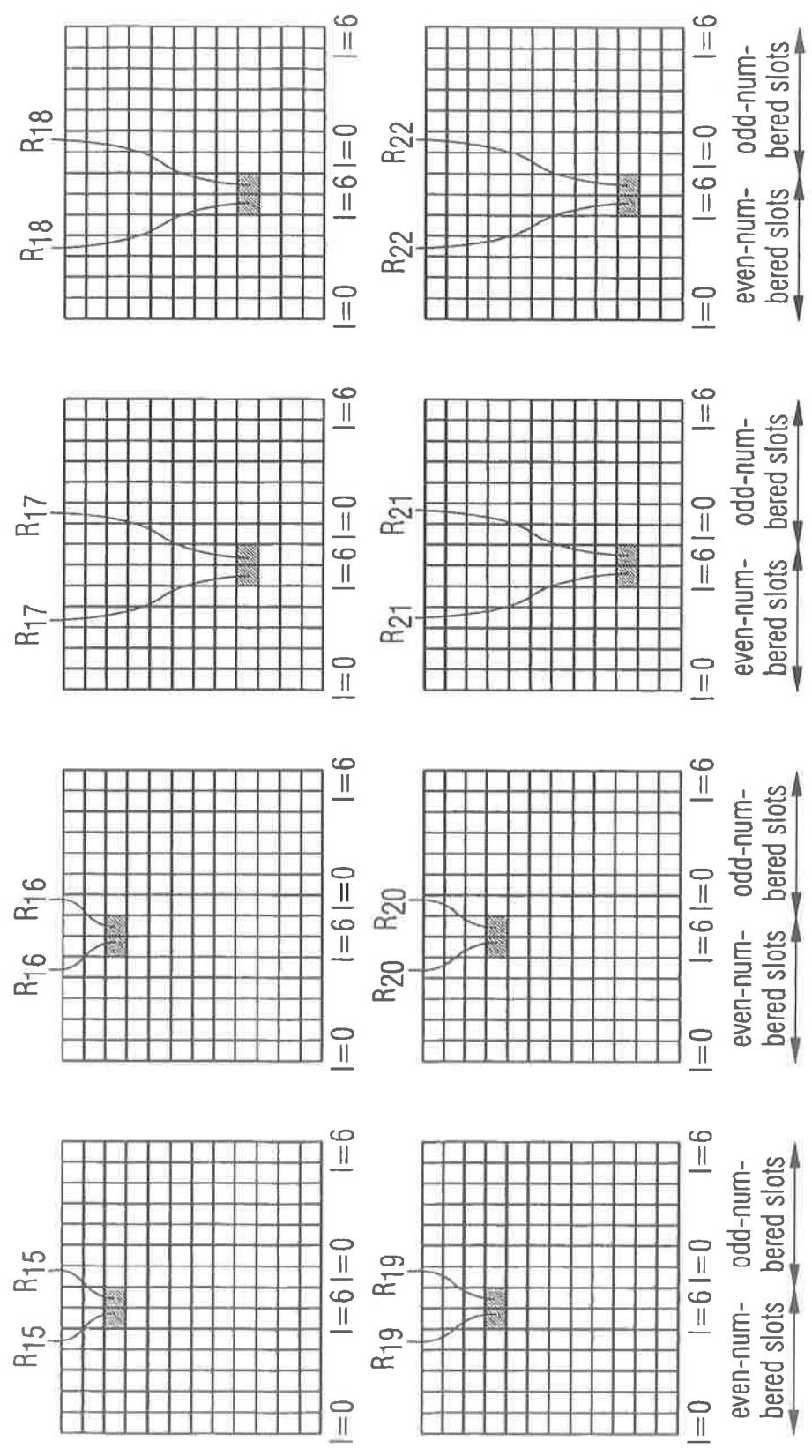


Figure 6.10.5.2-1: Mapping of CSI reference signals (CSI configuration 0, normal cyclic prefix).

FIG 1C Part 1

Table 6.10.5.2.-2: Mapping from CSI reference signal configuration to (k', l') for extended cyclic prefix.

	CSI reference signal configuration	Number of CSI reference signals configured					
		1 or 2		4		8	
		(k', l')	$n_S \bmod 2$	(k', l')	$n_S \bmod 2$	(k', l')	$n_S \bmod 2$
Frame structure type 1 and 2	0	(11, 4)	0	(11, 4)	0	(11, 4)	0
	1	(9, 4)	0	(9, 4)	0	(9, 4)	0
	2	(10, 4)	1	(10, 4)	1	(10, 4)	1
	3	(9, 4)	1	(9, 4)	1	(9, 4)	1
	4	(5, 4)	0	(5, 4)	0		
	5	(3, 4)	0	(3, 4)	0		
	6	(4, 4)	1	(4, 4)	1		
	7	(3, 4)	1	(3, 4)	1		
	8	(8, 4)	0				
	9	(6, 4)	0				
	10	(2, 4)	0				
	11	(0, 4)	0				
	12	(7, 4)	1				
	13	(6, 4)	1				
	14	(1, 4)	1				
	15	(0, 4)	1				
FR	16	(11, 1)	1	(11, 1)	1	(11, 1)	1
	17	(10, 1)	1	(10, 1)	1	(10, 1)	1
	18	(9, 1)	1	(9, 1)	1	(9, 1)	1
	19	(5, 1)	1	(5, 1)	1		
	20	(4, 1)	1	(4, 1)	1		
	21	(3, 1)	1	(3, 1)	1		
	22	(8, 1)	1				
	23	(7, 1)	1				
	24	(6, 1)	1				
	25	(2, 1)	1				
	26	(1, 1)	1				
	27	(0, 1)	1				

FIG 1C Part 2

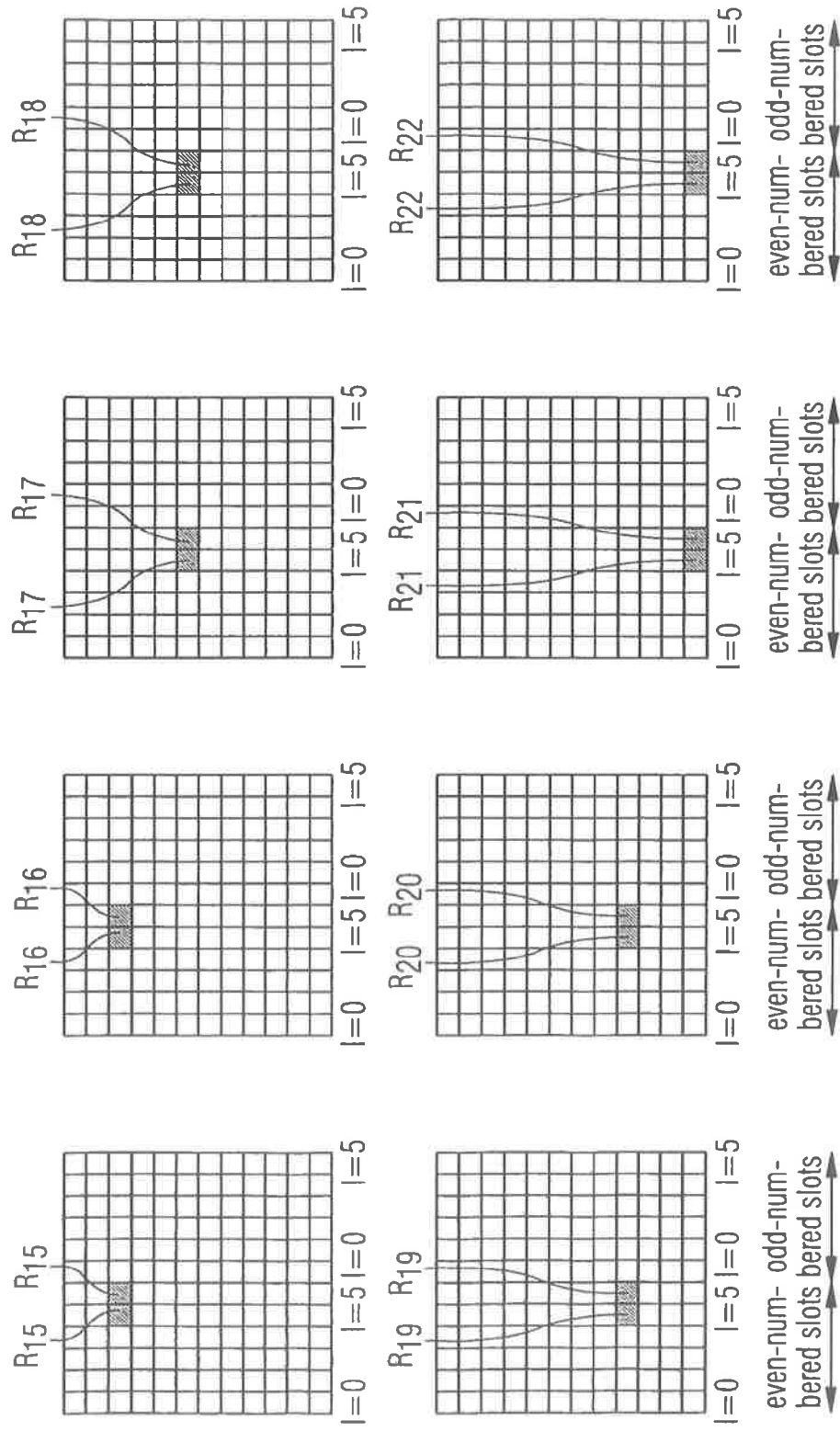


Figure 6.10.5.2-2: Mapping of CSI reference signals (CSI configuration 0, extended cyclic prefix).

FIG 1D

Table 6.10.5.3-1: CSI reference signal subframe configuration.

CSI-RS-Subframe Config $l_{\text{CSI-RS}}$	CSI-RS periodicity $T_{\text{CSI-RS}}$ (subframes)	CSI-RS subframe offset $\Delta_{\text{CSI-RS}}$ (subframes)
0-4	5	$l_{\text{CSI-RS}}$
5-14	10	$l_{\text{CSI-RS}}-5$
15-34	20	$l_{\text{CSI-RS}}-15$
35-74	40	$l_{\text{CSI-RS}}-35$
75-154	80	$l_{\text{CSI-RS}}-75$

FIG 1E

Table 6.11.1.1-1: Root indices for the primary synchronization signal.

$N_{\text{ID}}^{(2)}$	Root index u
0	25
1	29
2	34

FIG 1F

Table 7.2.3-0: PDSCH transmission scheme
assumed for CQI reference resource

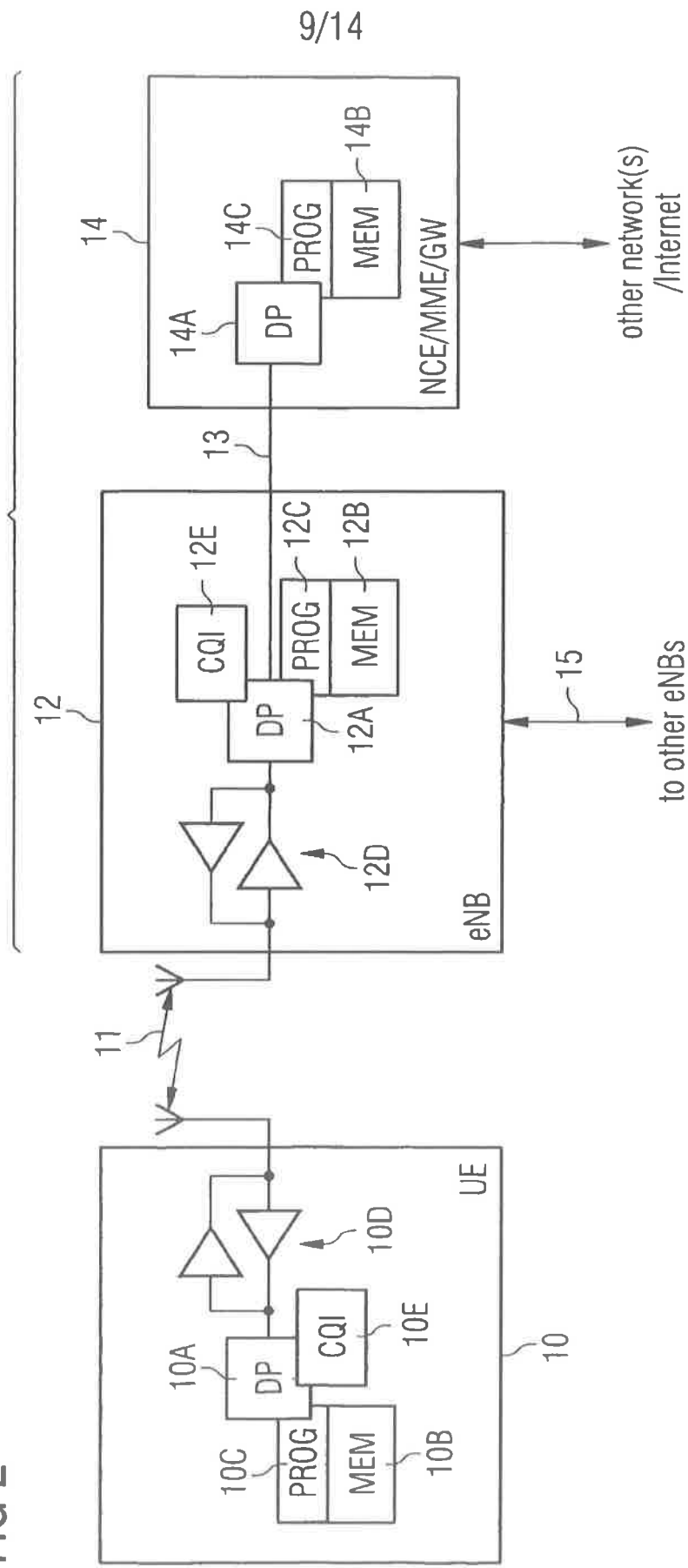
Transmission mode	Transmission scheme of PDSCH
1	Single-antenna port, port 0
2	Transmit diversity
3	Transmit diversity if the associated rank indicator is 1, otherwise large delay CDD
4	Closed-loop spatial multiplexing
5	Multi-user MIMO
6	Closed-loop spatial multiplexing with a single transmission layer
7	If the number of PBCH antenna ports is one, Single-antenna port, port 0; otherwise Transmit diversity
8	<p>If the UE is configured without PMI/RI reporting: if the number of PBCH antenna ports is one, single-antenna port, port 0; otherwise transmit diversity</p> <p>If the UE is configured with PMI/RI reporting: closed-loop spatial multiplexing</p>
9	Closed-loop spatial multiplexing with up to 8 layer transmission, ports 7-14 (see subclause 7.1.5B)

FIG 1G

Table 7.2.3-1: 4-bit CQI Table

CQI index	modulation	code rate x 1024	efficiency
0	out of range		
1	QPSK	78	0.1523
2	QPSK	120	0.2344
3	QPSK	193	0.3770
4	QPSK	308	0.6016
5	QPSK	449	0.8770
6	QPSK	602	1.1758
7	16QAM	378	1.4766
8	16QAM	490	1.9141
9	16QAM	616	2.4063
10	64QAM	466	2.7305
11	64QAM	567	3.3223
12	64QAM	666	3.9023
13	64QAM	772	4.5234
14	64QAM	873	5.1152
15	64QAM	948	5.5547

FIG 2



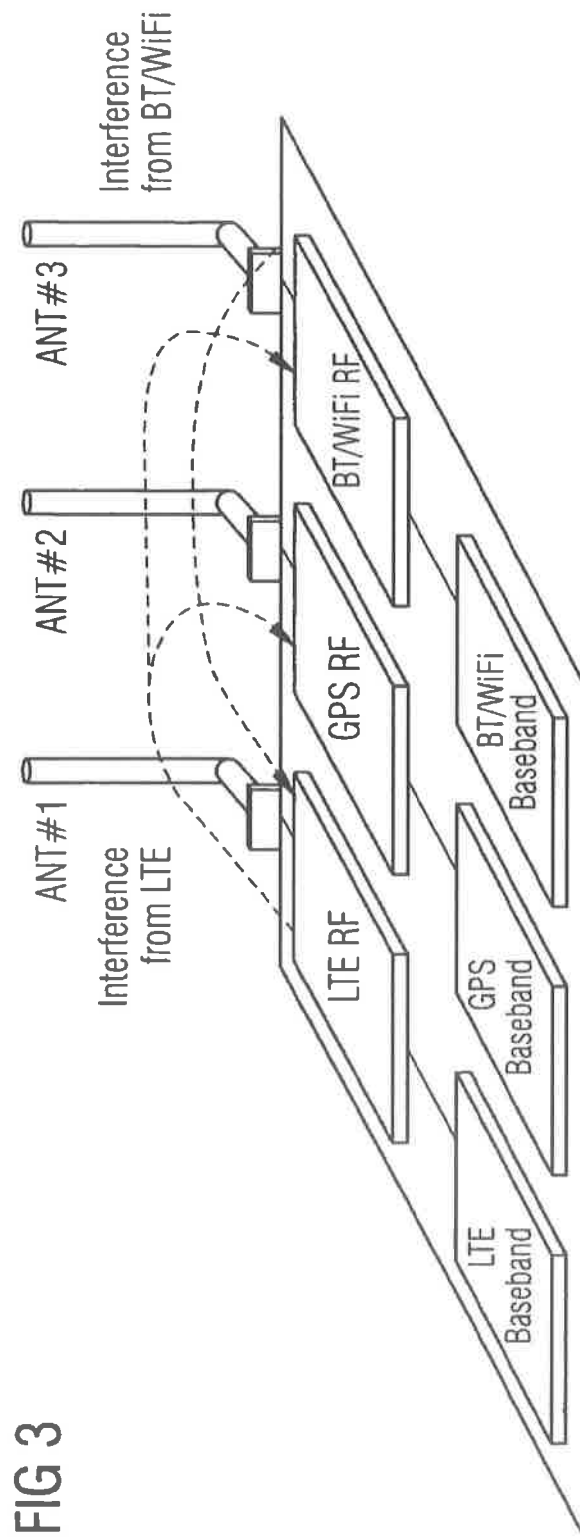


FIG 4A

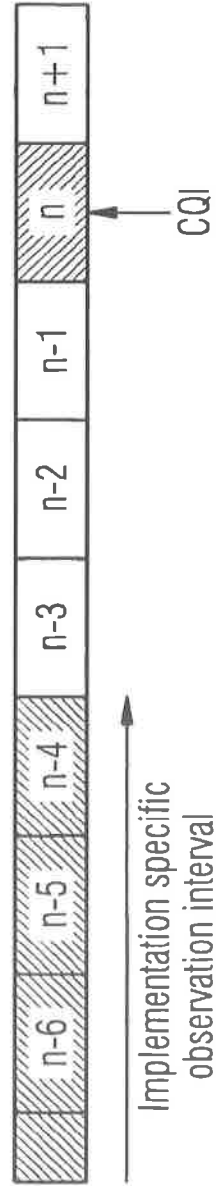


FIG 4B

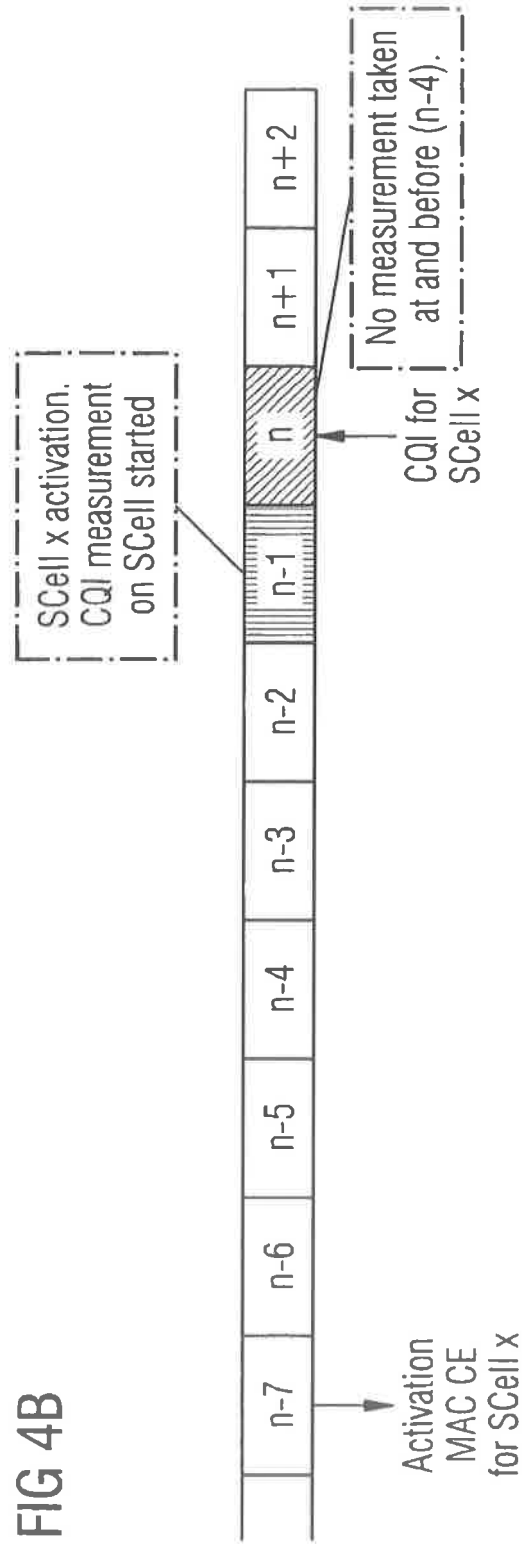


FIG 4C

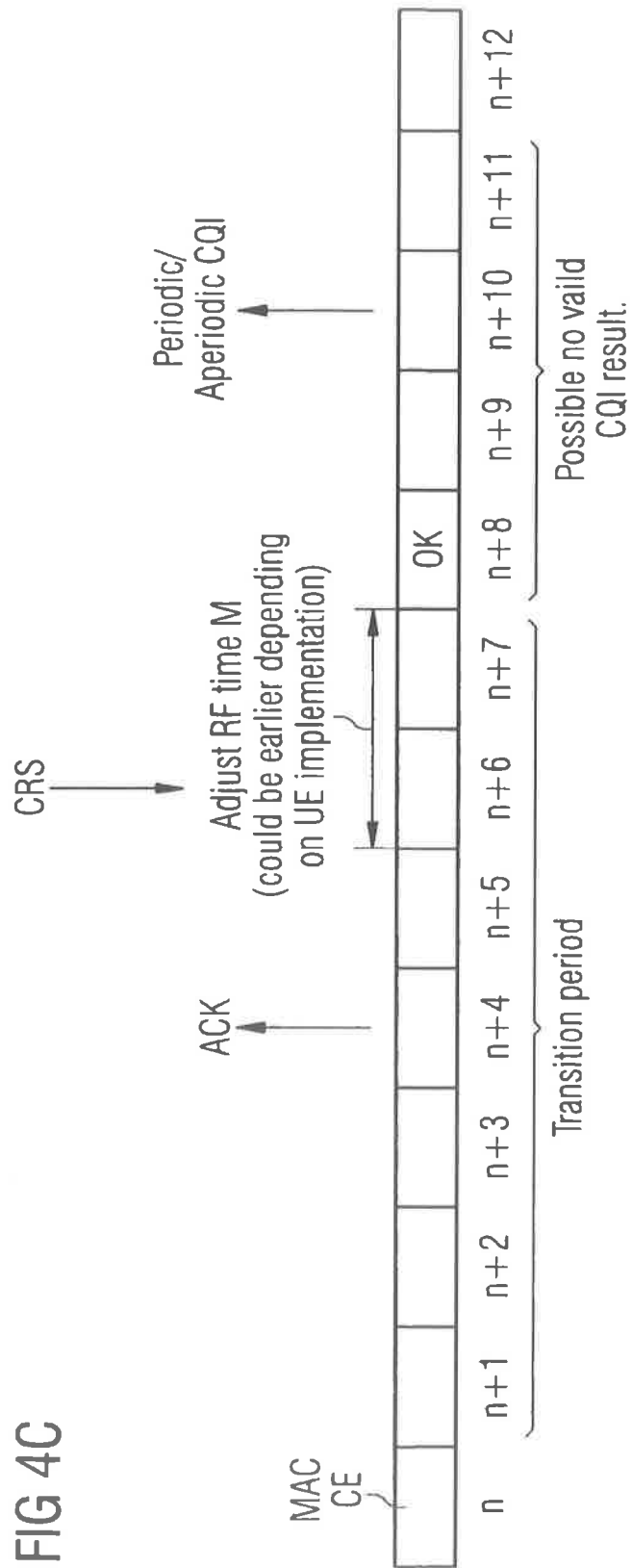


FIG 5

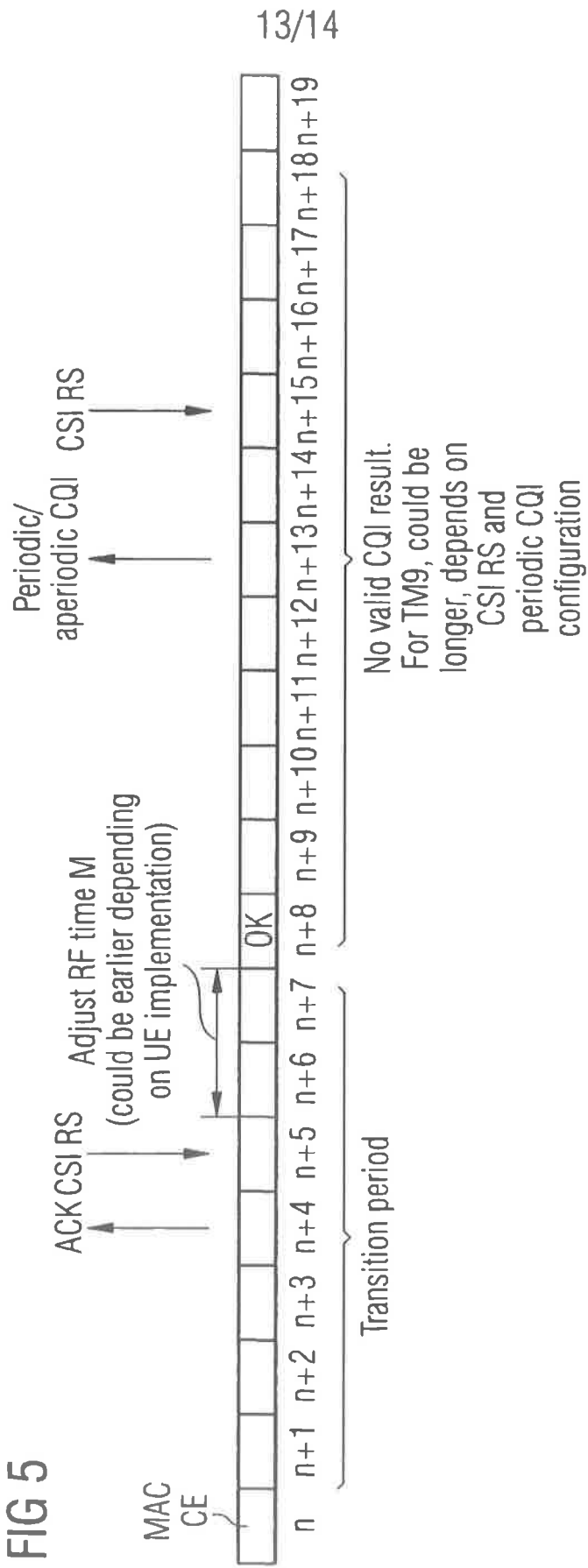


FIG 6

