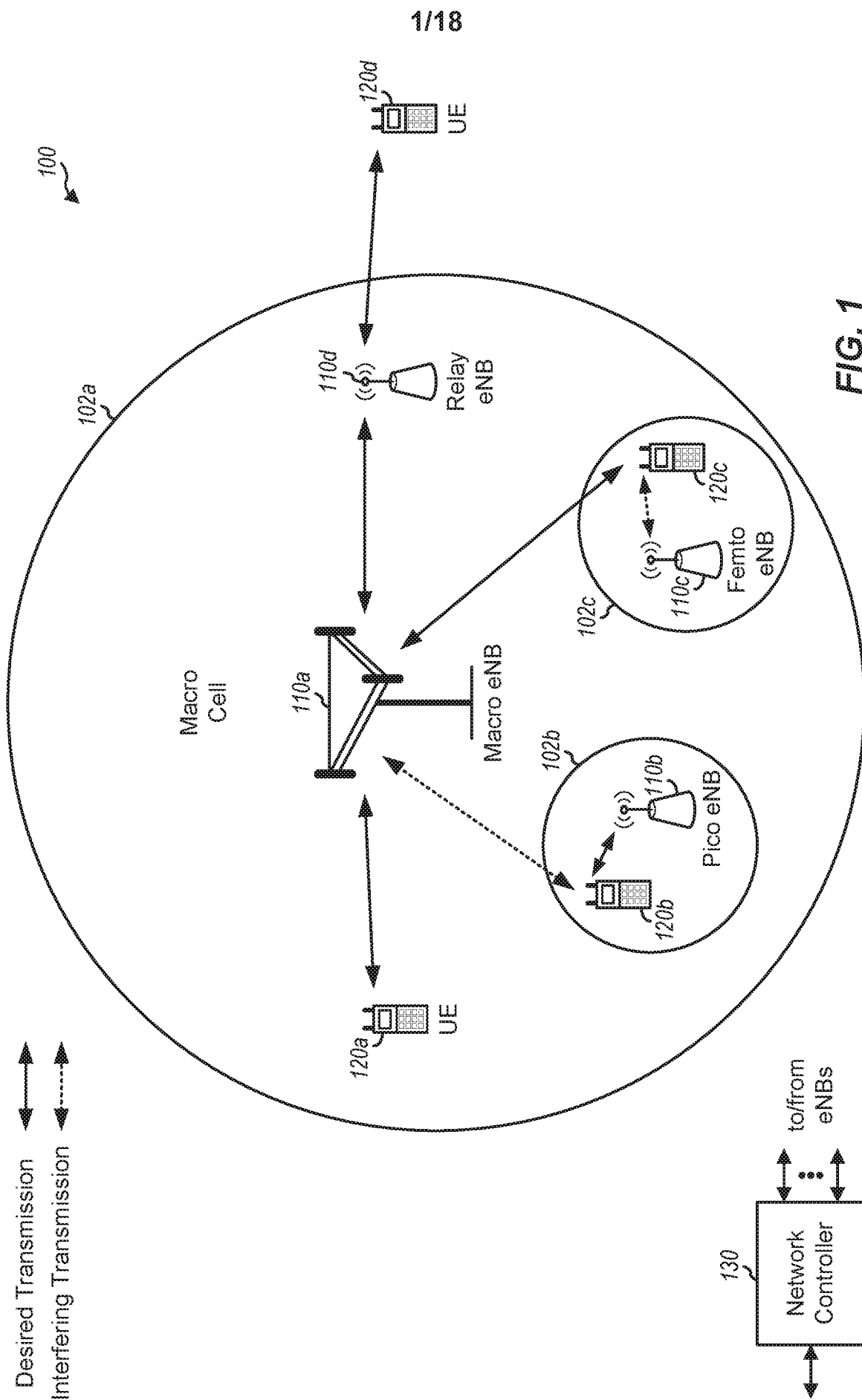




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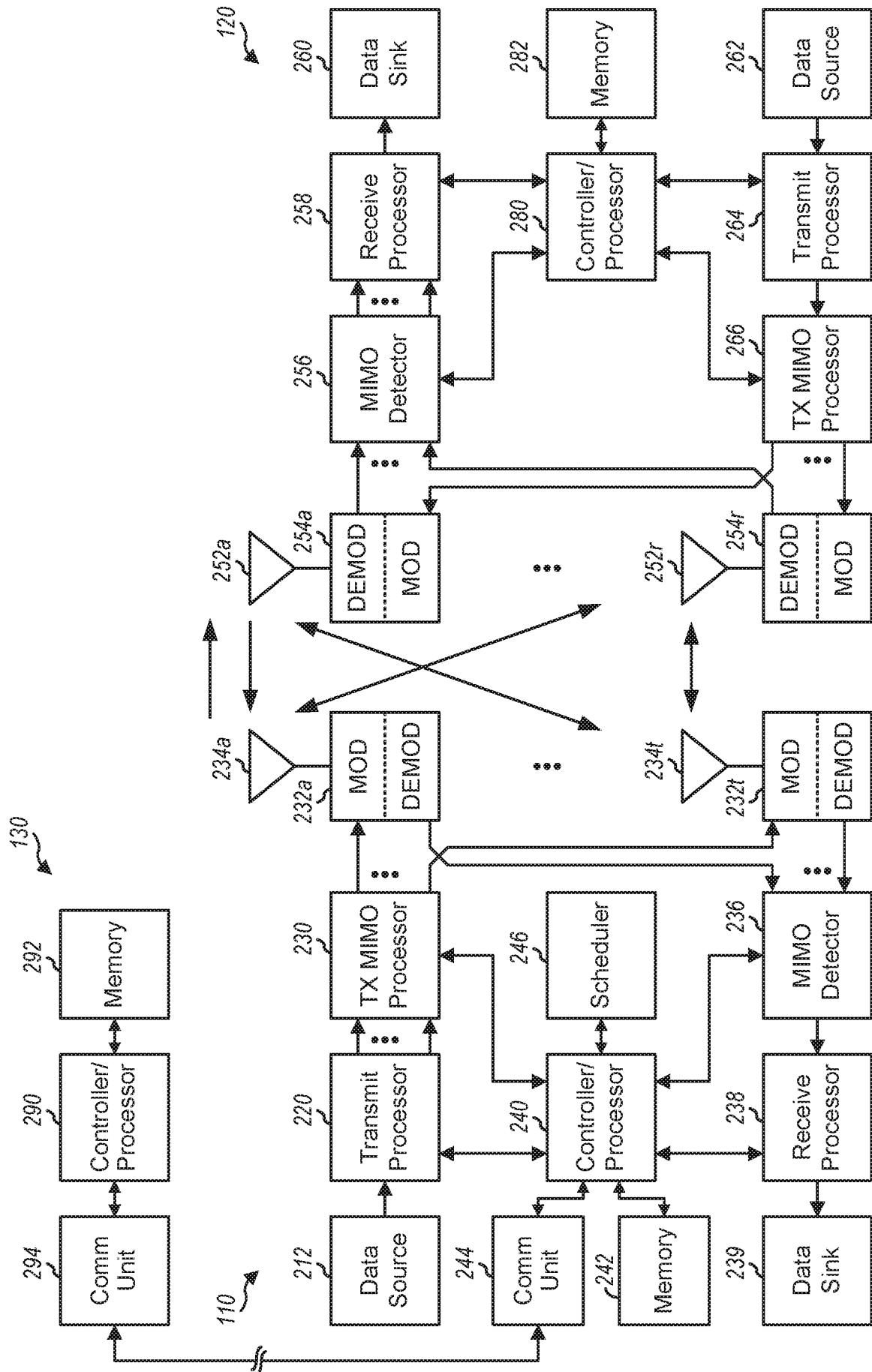
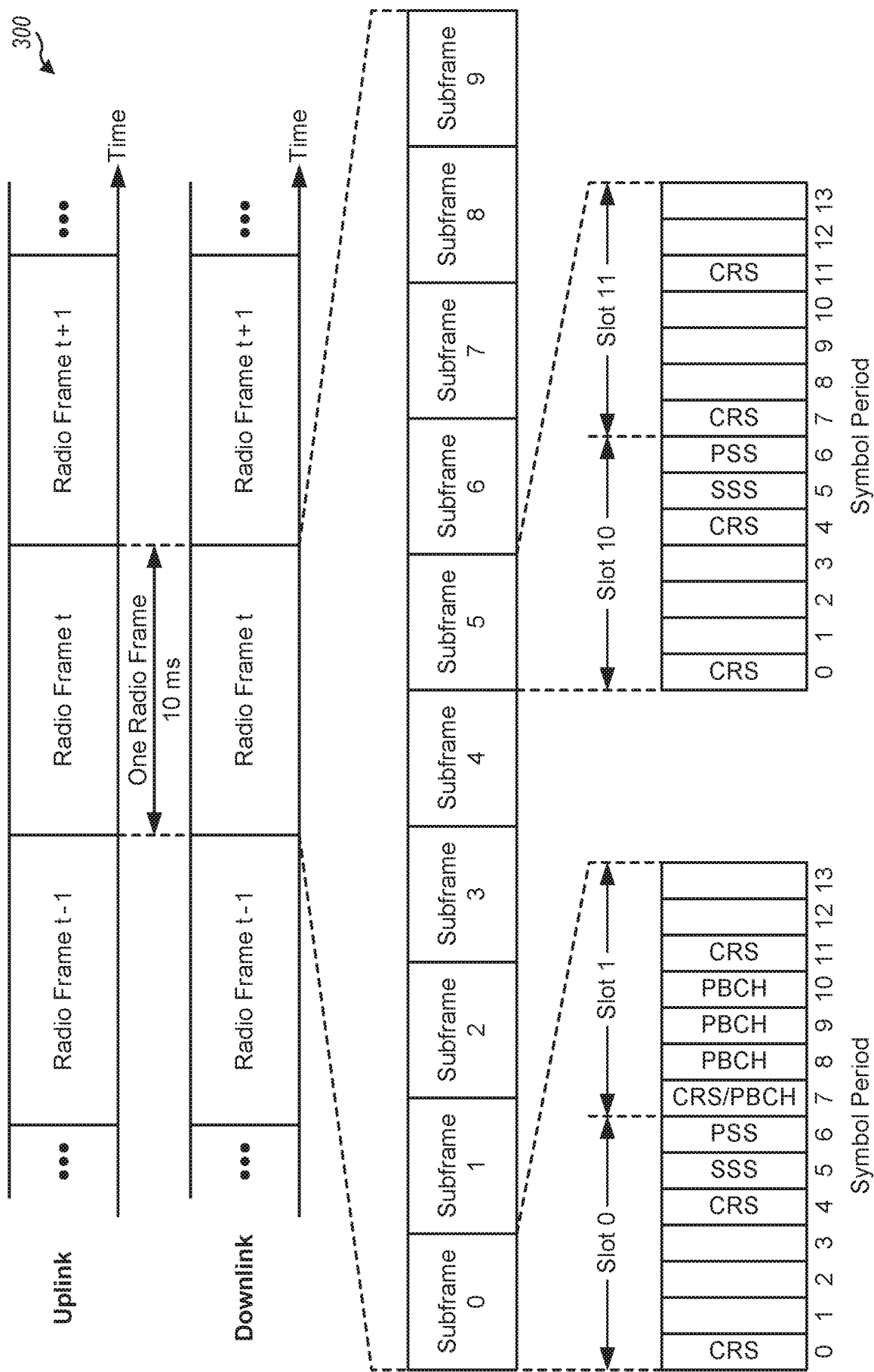


FIG. 2



CRS = Cell-Specific Reference Signal

PBCH = Physical Broadcast Channel

PSS = Primary Synchronization Signal

SSS = Secondary Synchronization Signal

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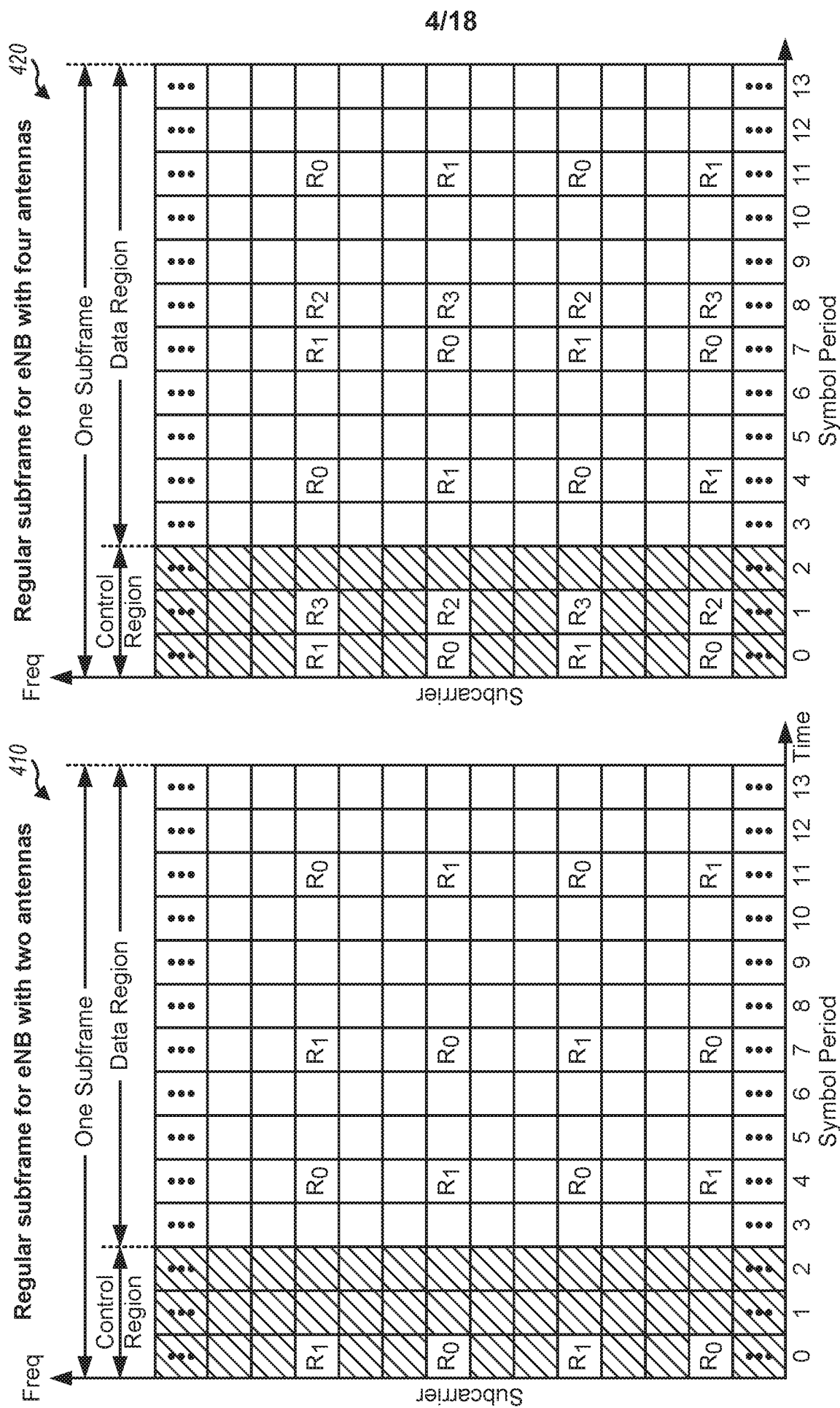
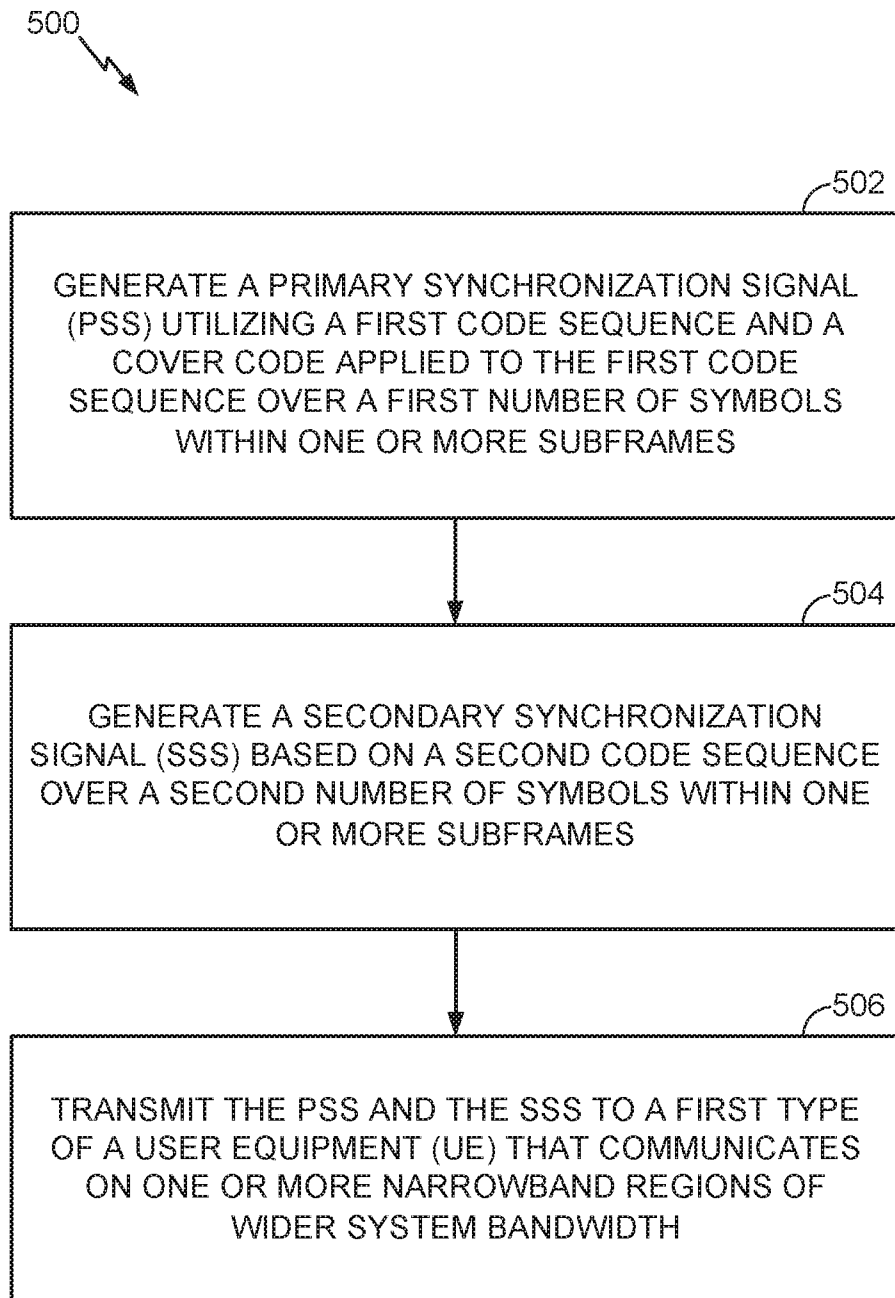
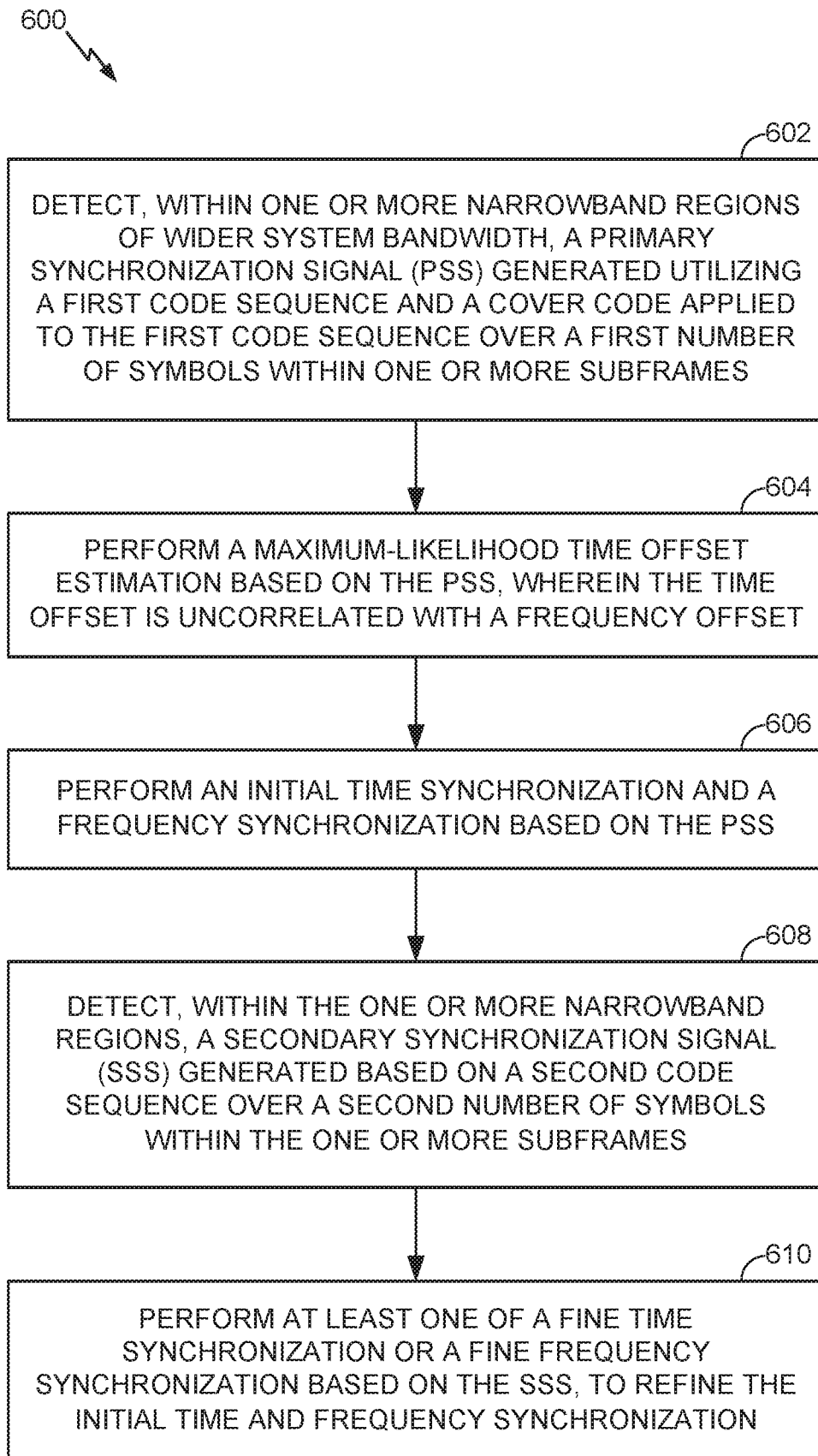


FIG. 4

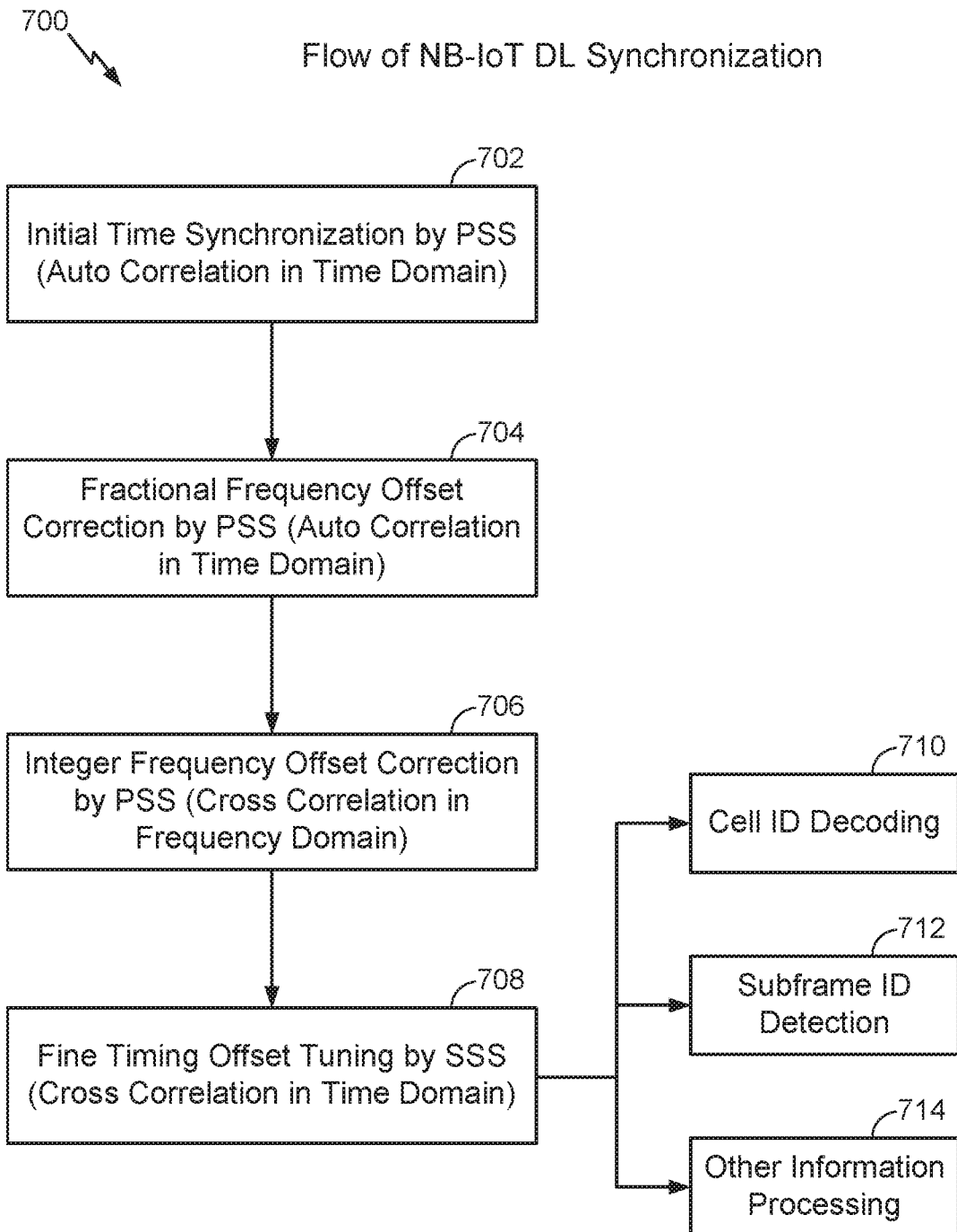
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**FIG. 5**

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**FIG. 6**

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**FIG. 7**

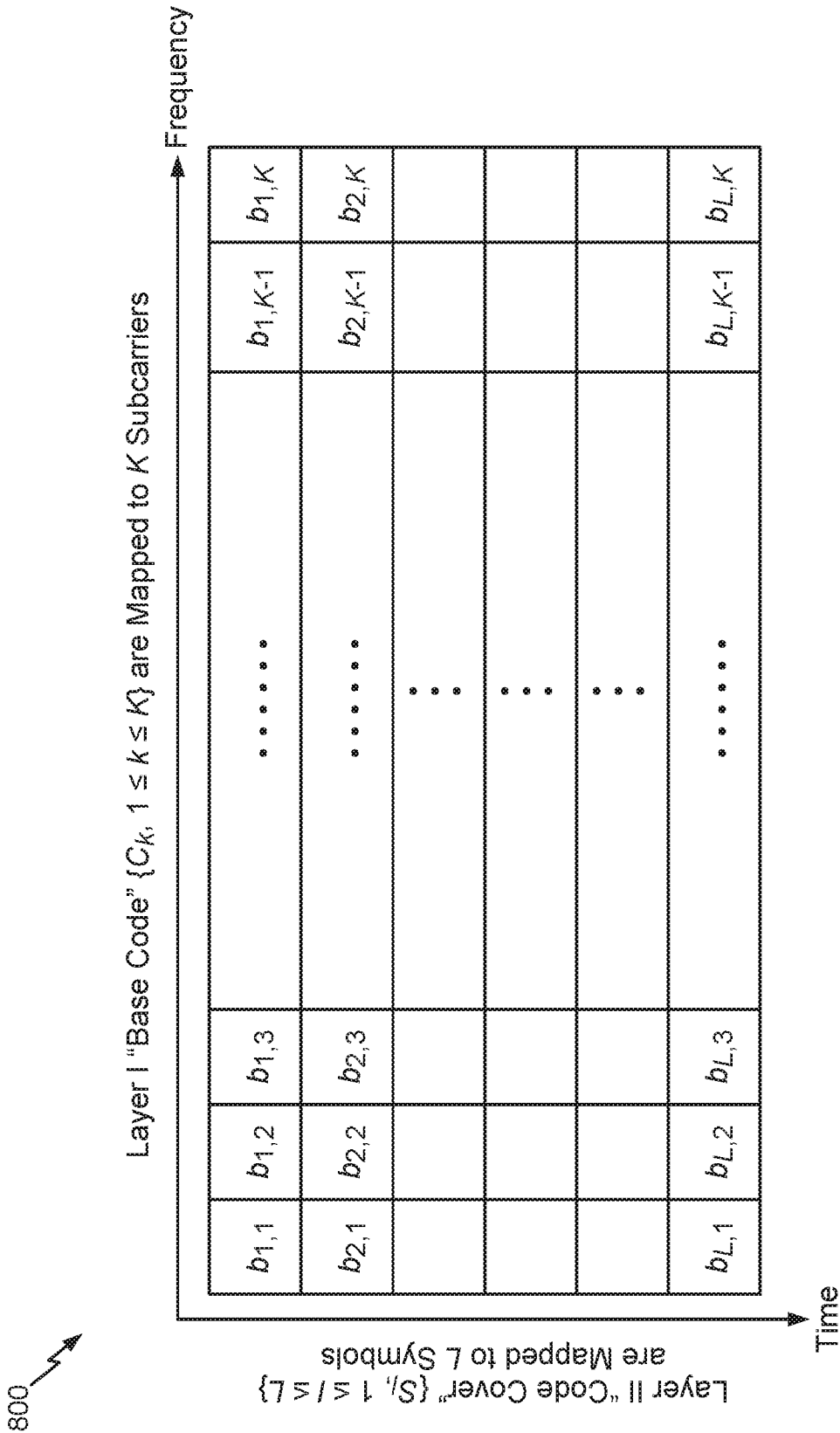


FIG. 8

900 ↘

Reduced Alphabet Given by $\{e^{j\pi\beta/6}\}$ for $K = 12$

α	β					
1	0	2	4	6	8	--
5	0	2	4	6	10	--
7	0	2	3	6	7	8
1	0	1	4	5	6	10

FIG. 9

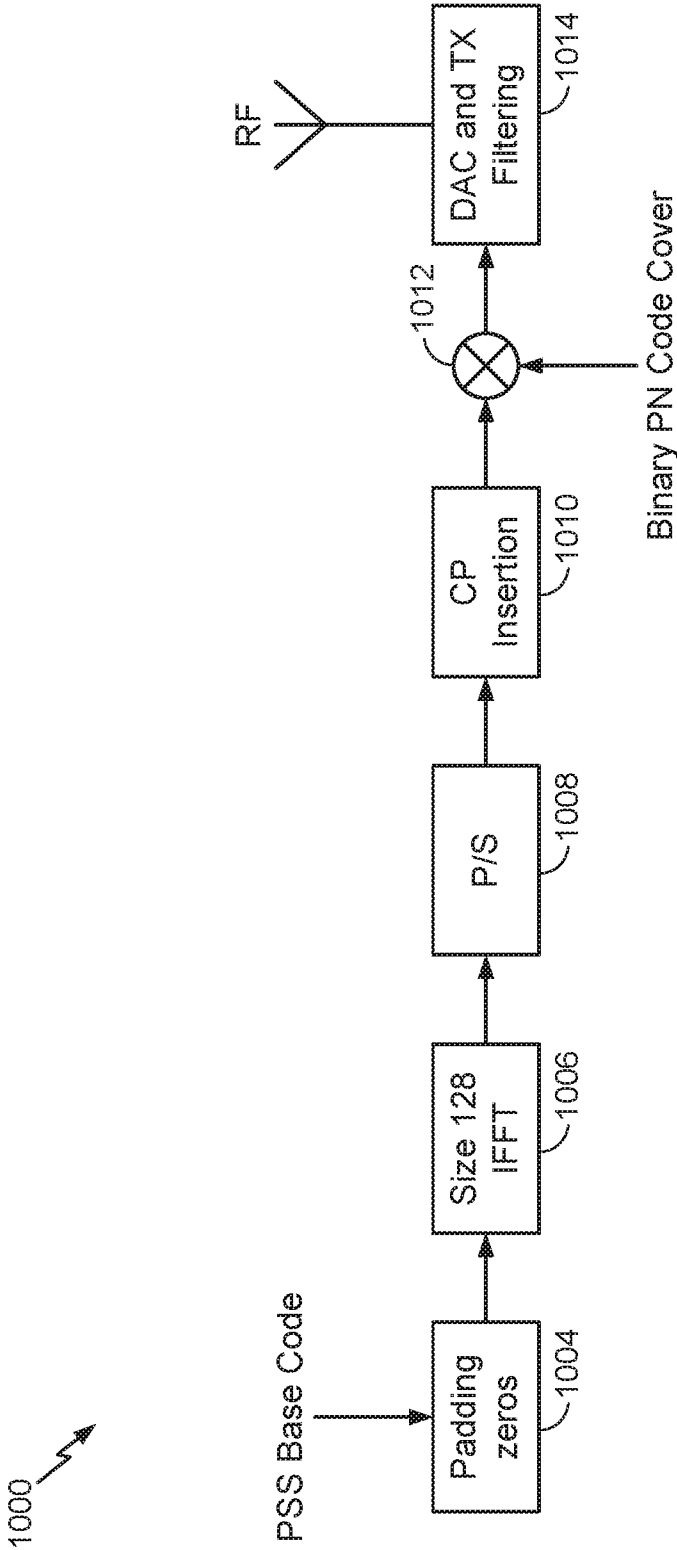


FIG. 10

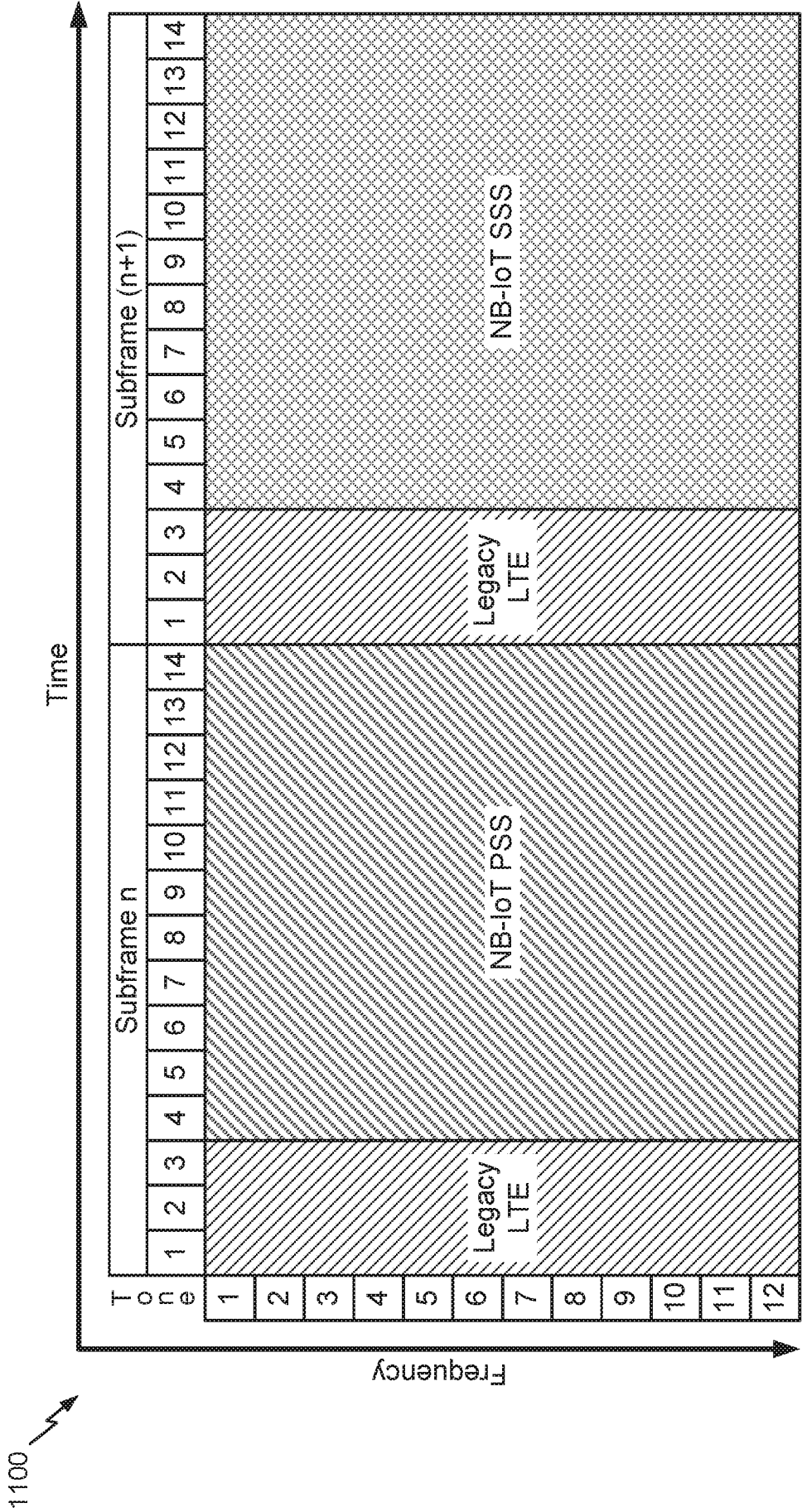


FIG. 11

1200 ↗

Symbol Index	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PN Cover					1	1	1	-1	-1	-1	1	-1	-1	1	-1
Sub-Vector of PSS Samples					γ_1	γ_2	γ_3	γ_4	γ_5	γ_6	γ_7	γ_8	γ_9	γ_{10}	γ_{11}

FIG. 12

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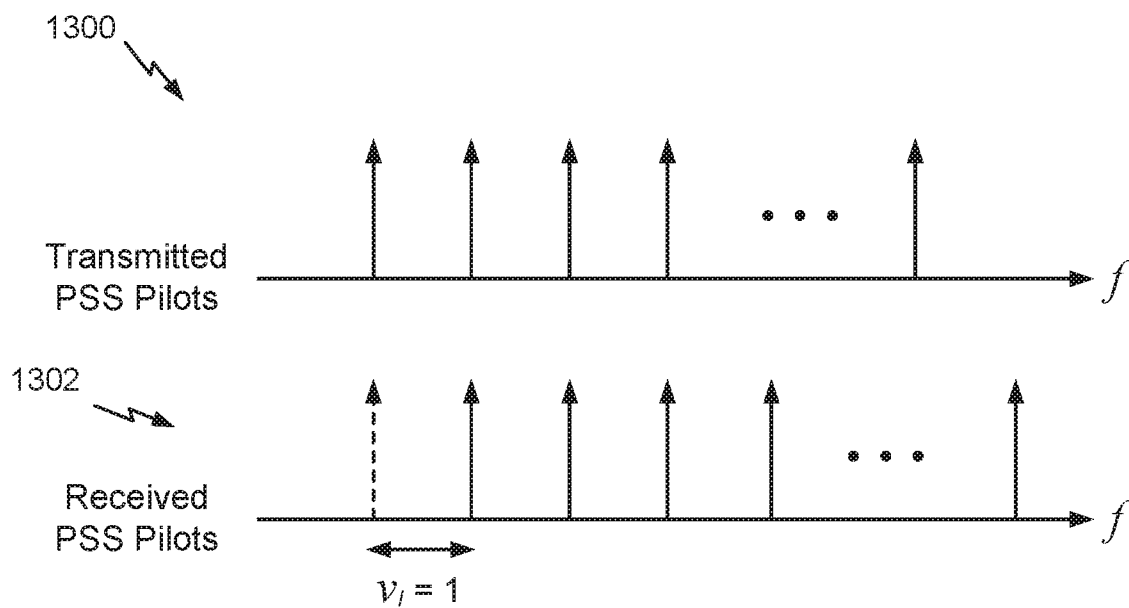


FIG. 13

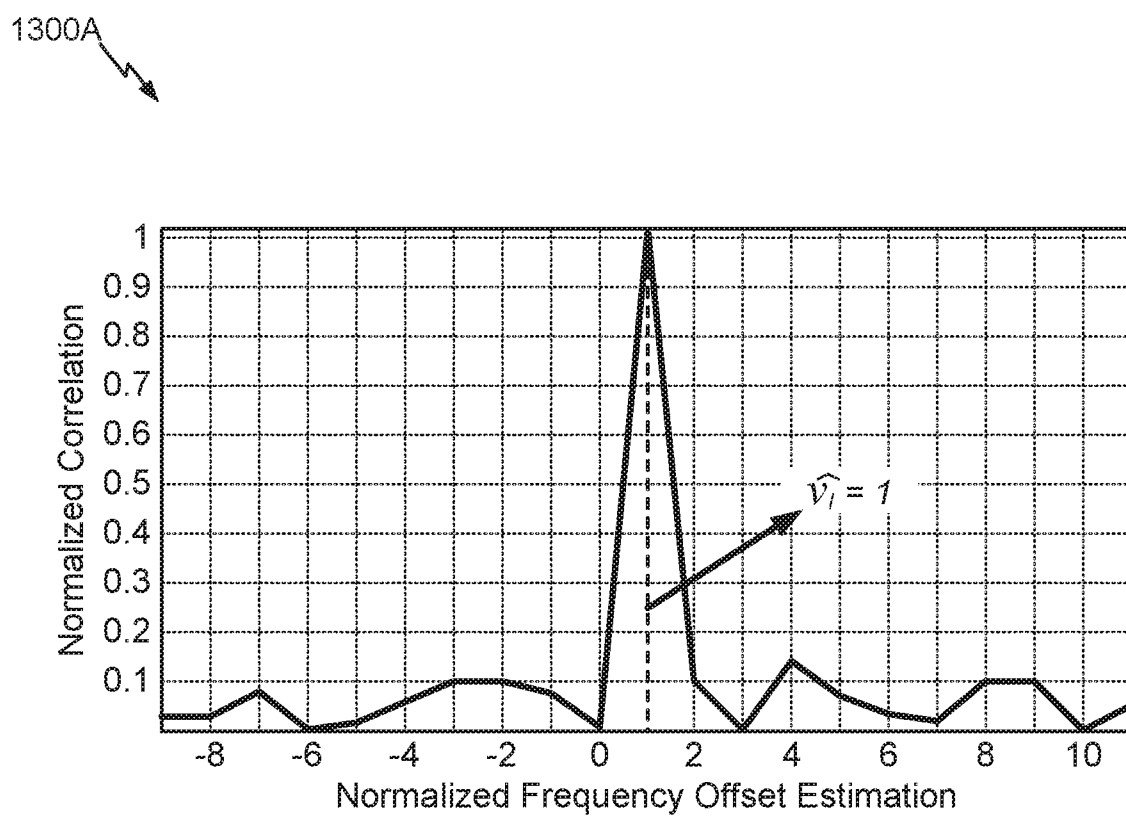


FIG. 13A

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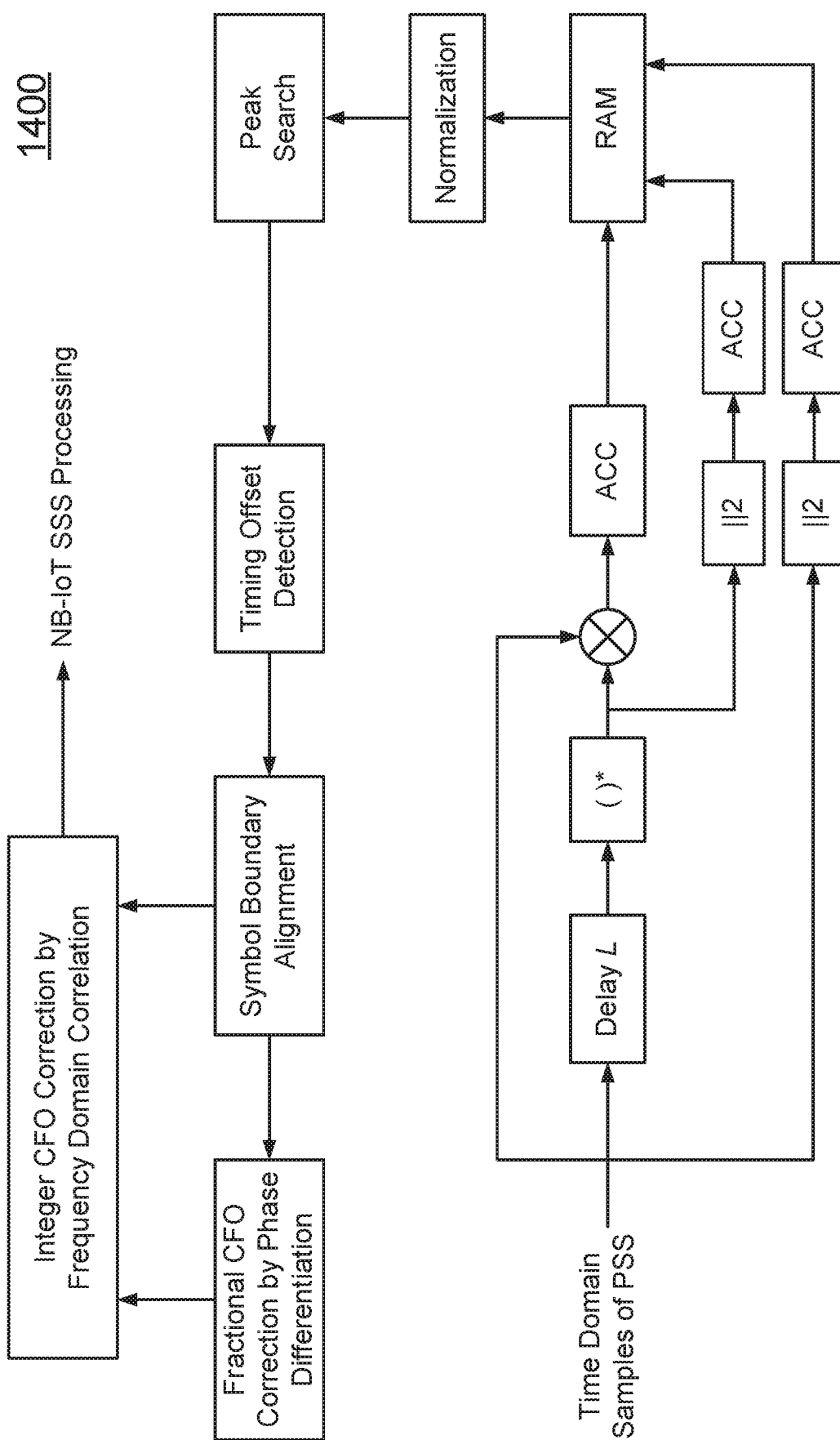


FIG. 14

1500 ↗

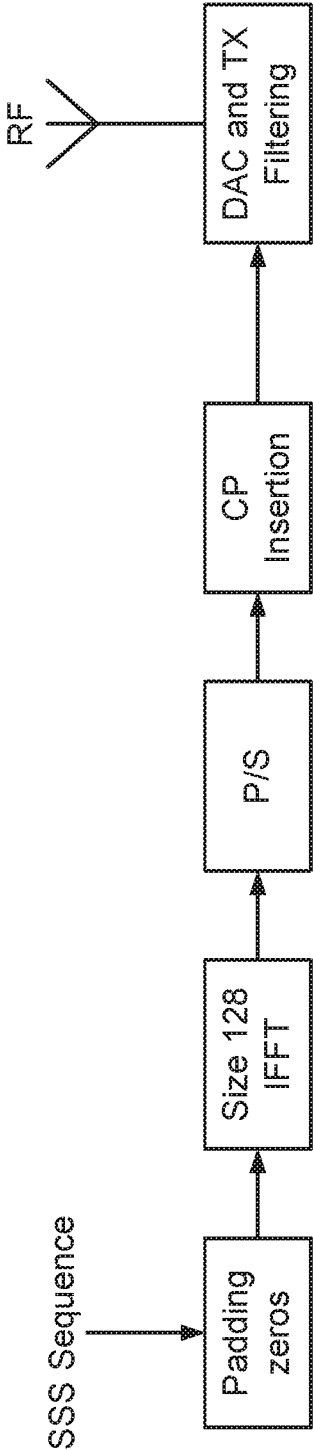


FIG. 15

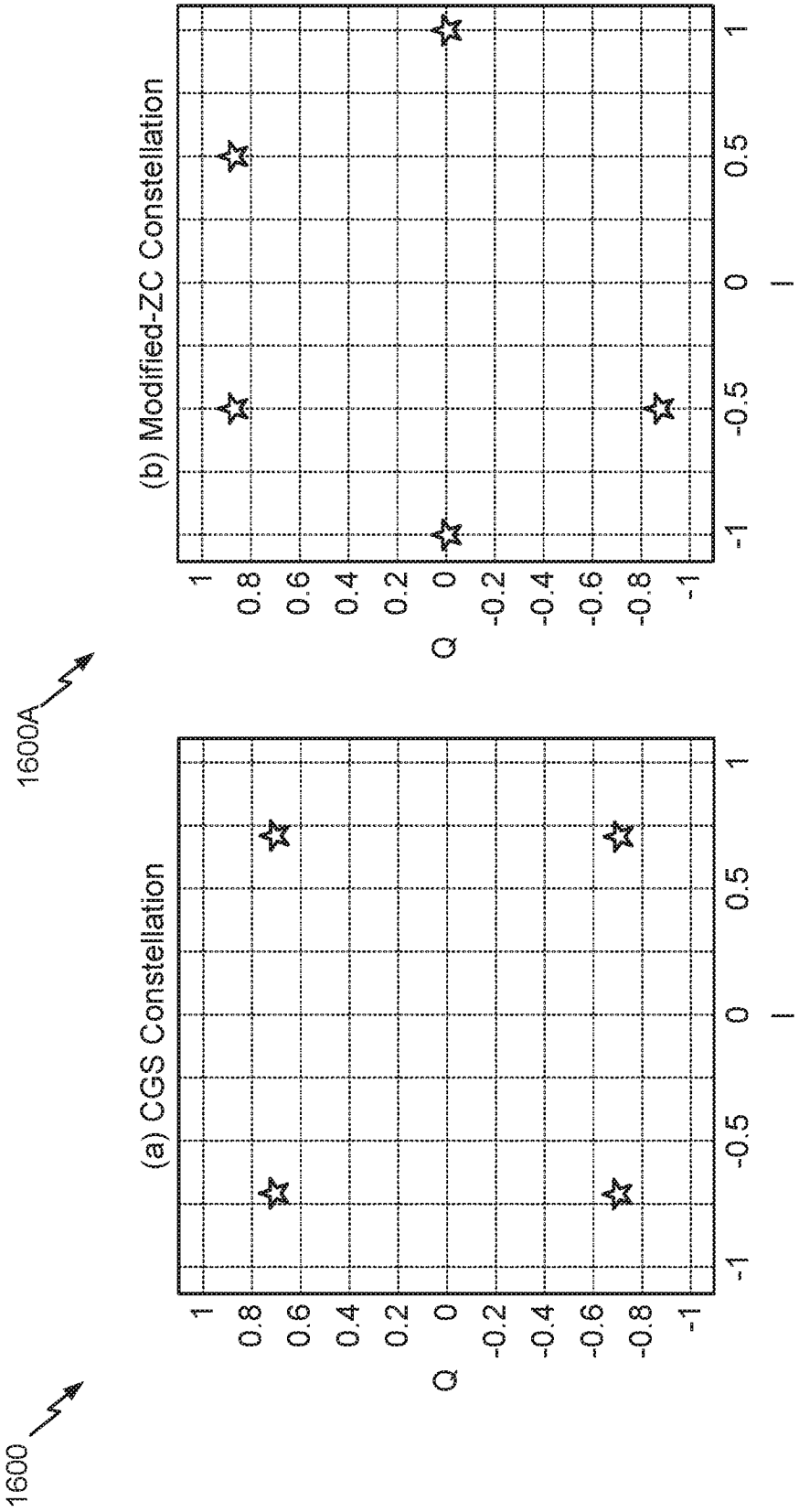


FIG. 16A

FIG. 16

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1700

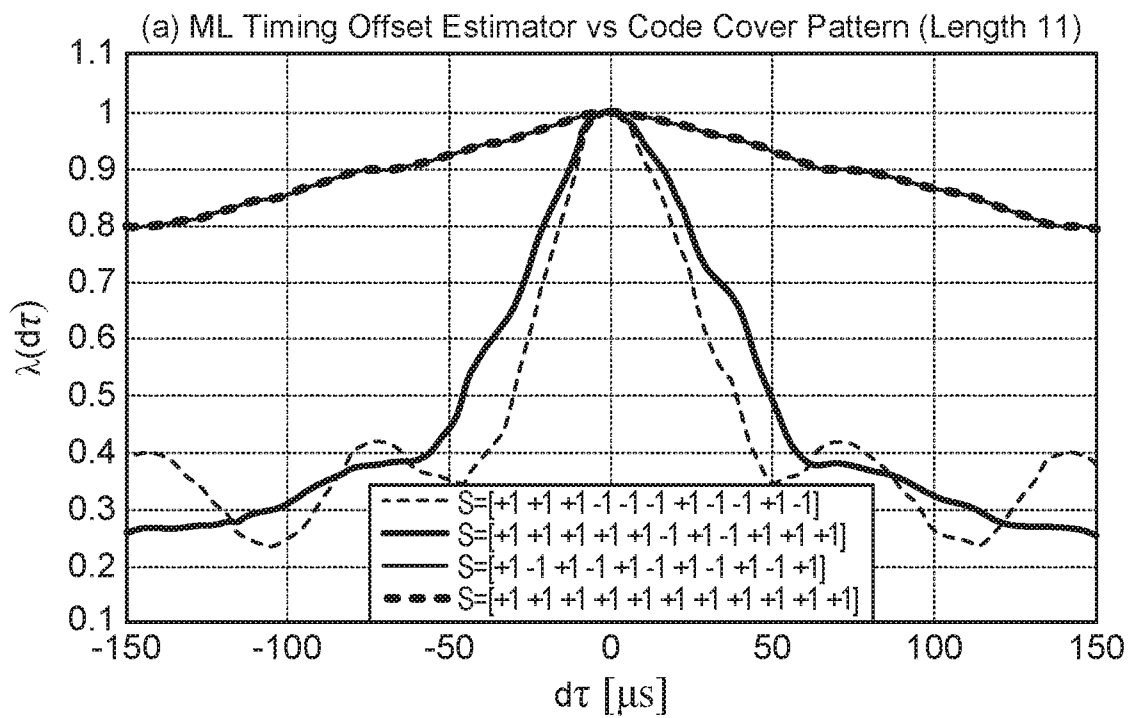


FIG. 17

1700A

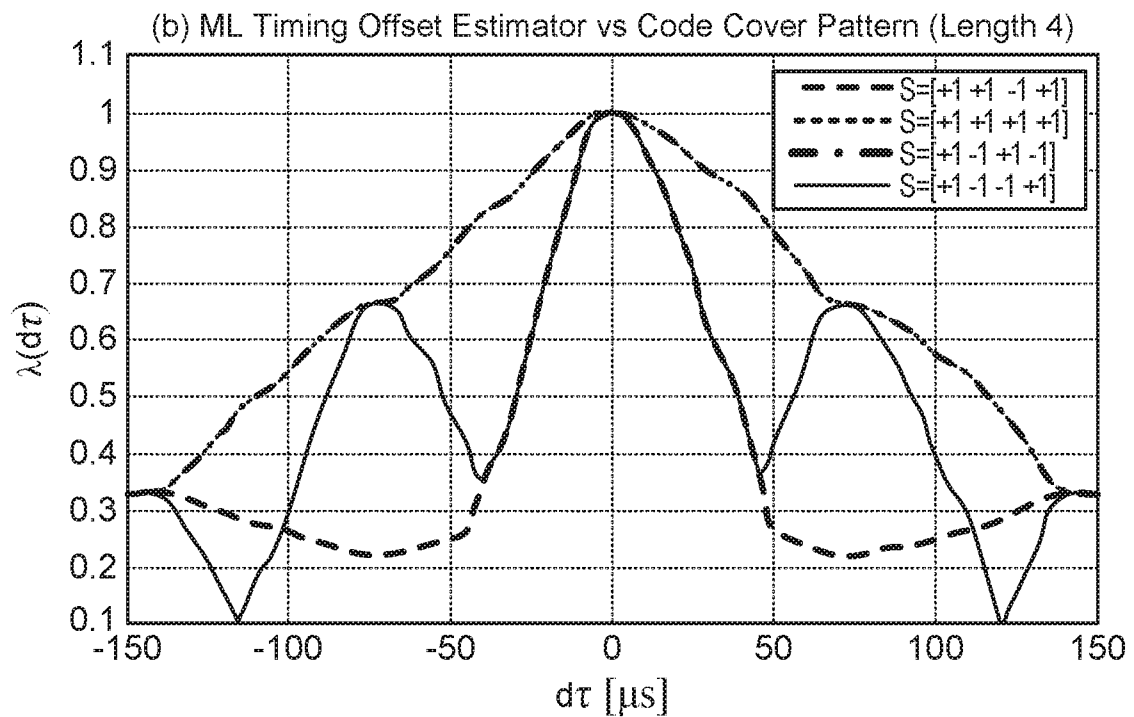


FIG. 17A

1800 ↗

SSS Symbol Index	1	2	3	...	M	PAYLOAD
Roots Arrangement #1	$\mu(1,1)$	$\mu(1,2)$	$\mu(1,3)$	...	$\mu(1,M)$	Cell ID
Roots Arrangement #2	$\mu(2,1)$	$\mu(2,2)$	$\mu(2,3)$	...	$\mu(2,M)$	Cell ID
Roots Arrangement #3	$\mu(3,1)$	$\mu(3,2)$	$\mu(3,3)$	...	$\mu(3,M)$	Cell ID
• • •						Subframe Nubmer
• • •						Sys Info

FIG. 18