

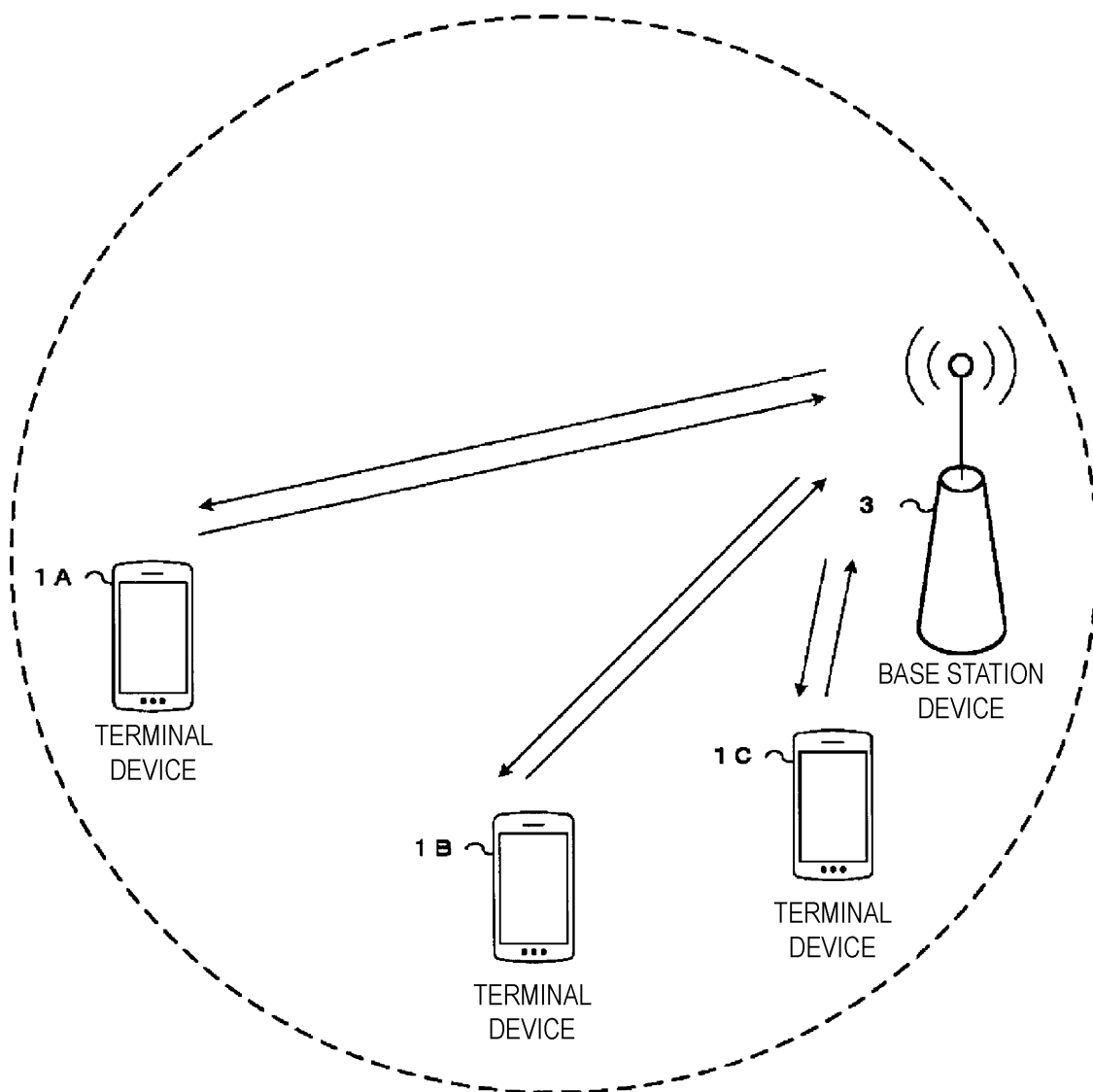


FIG. 1

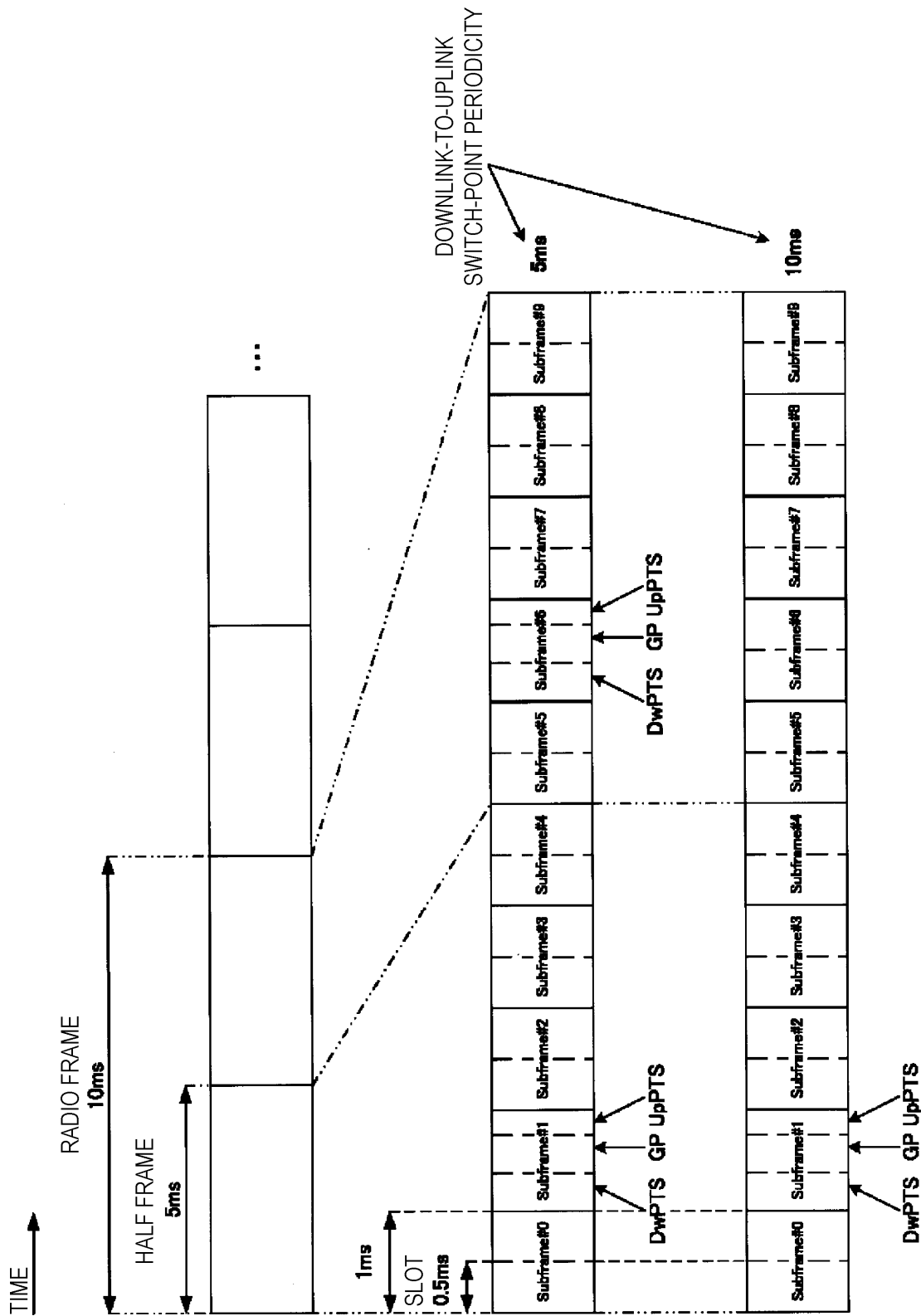
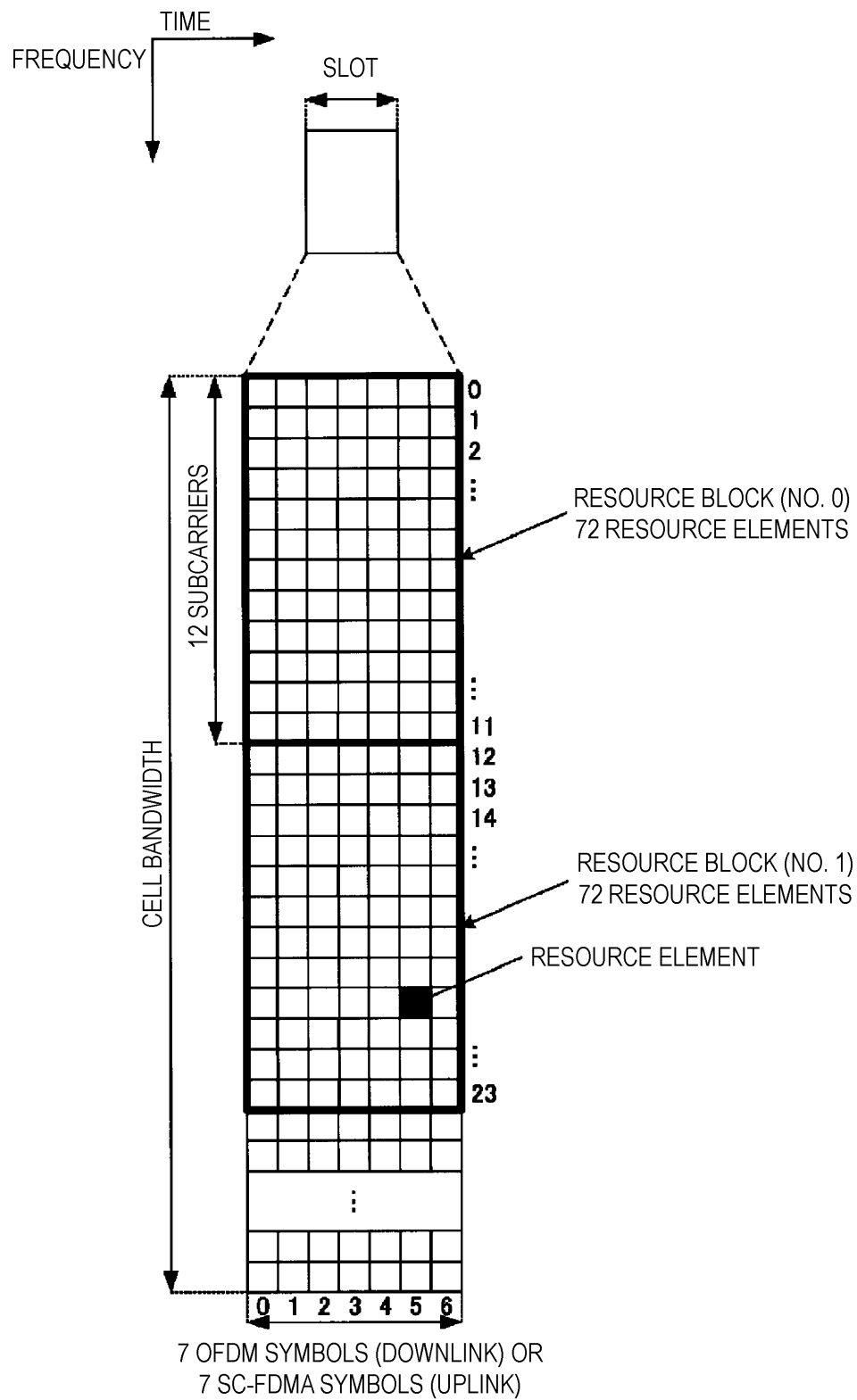


FIG. 2

**FIG. 3**

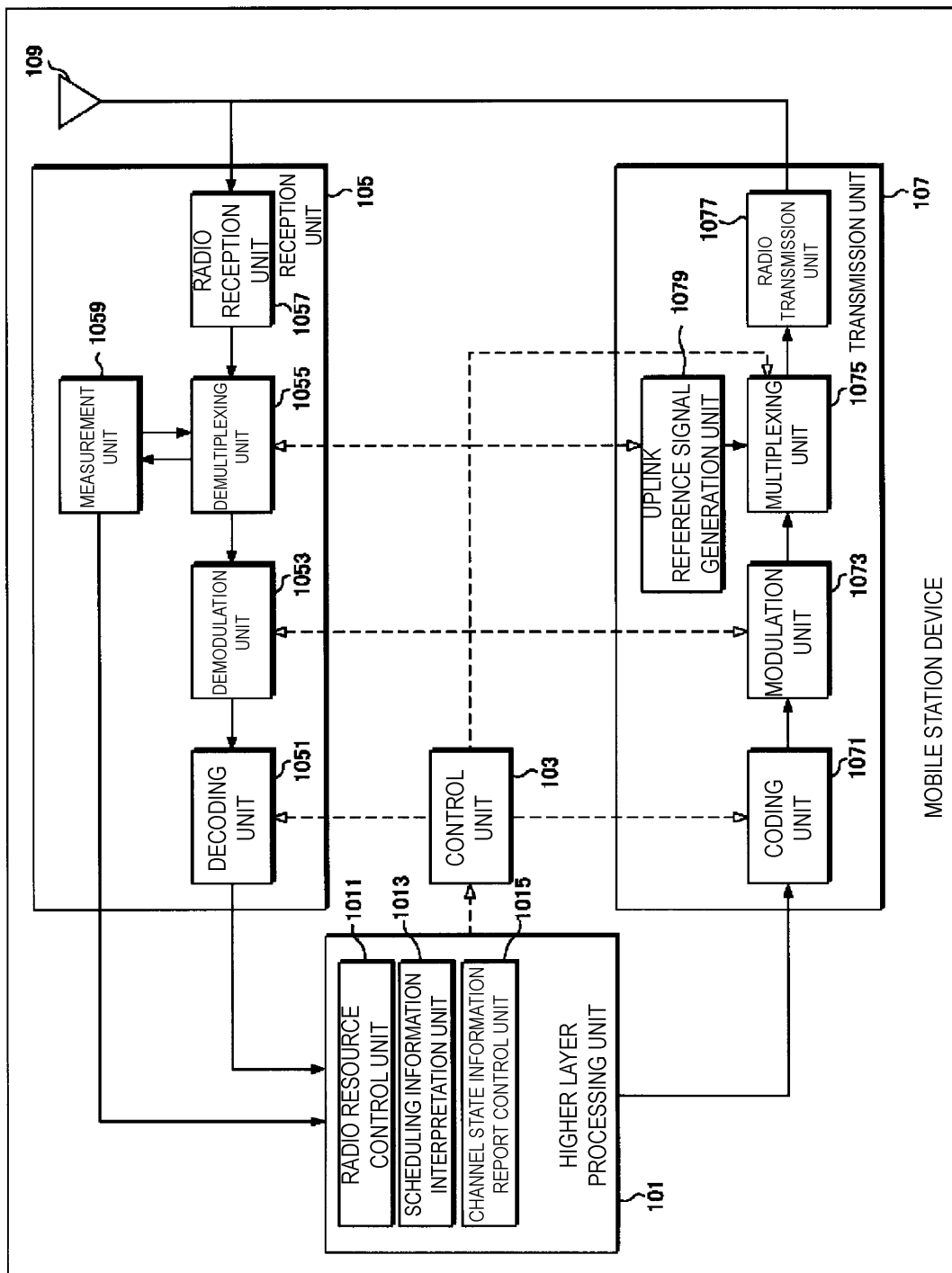


FIG. 4

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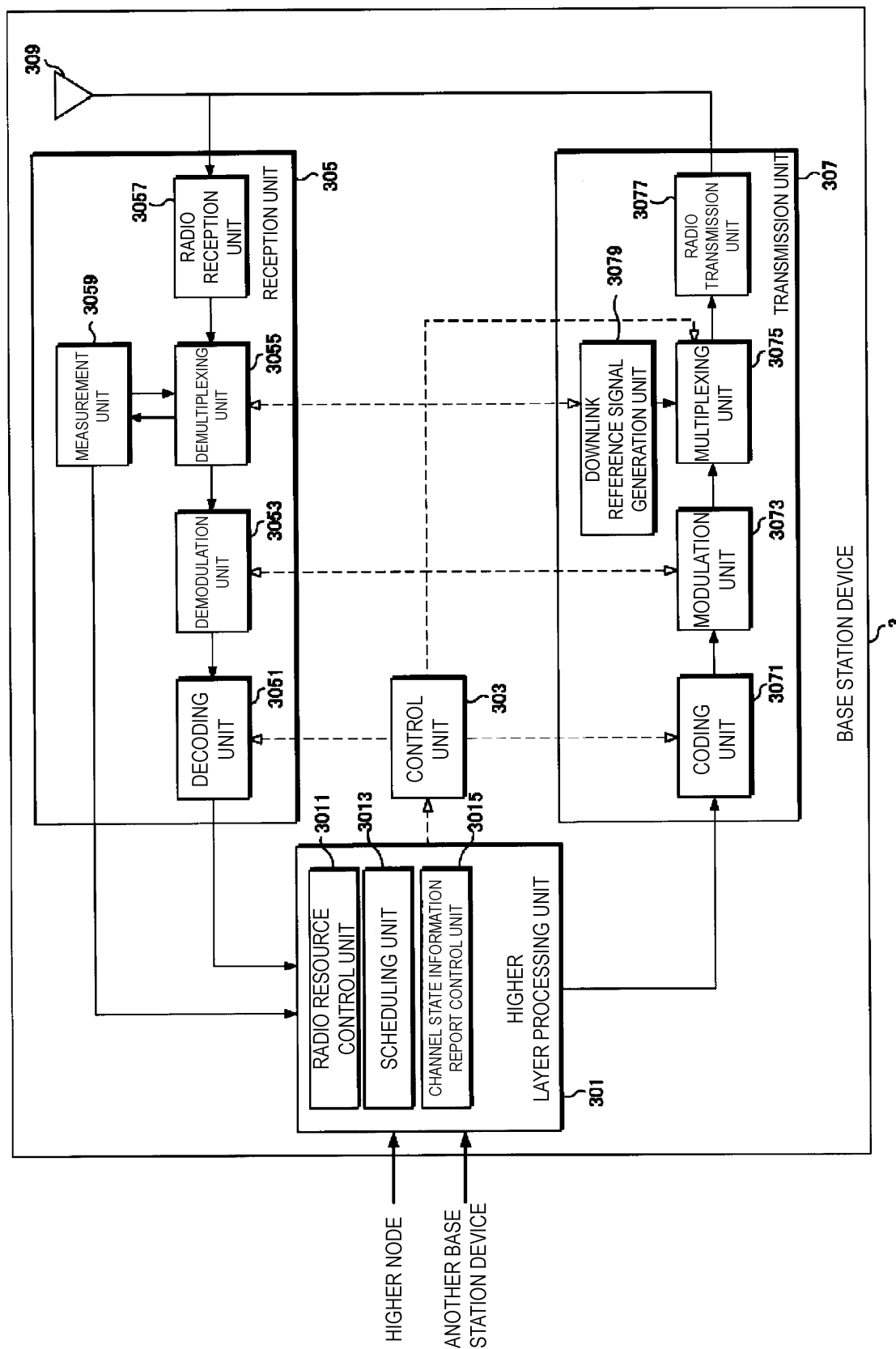


FIG. 5

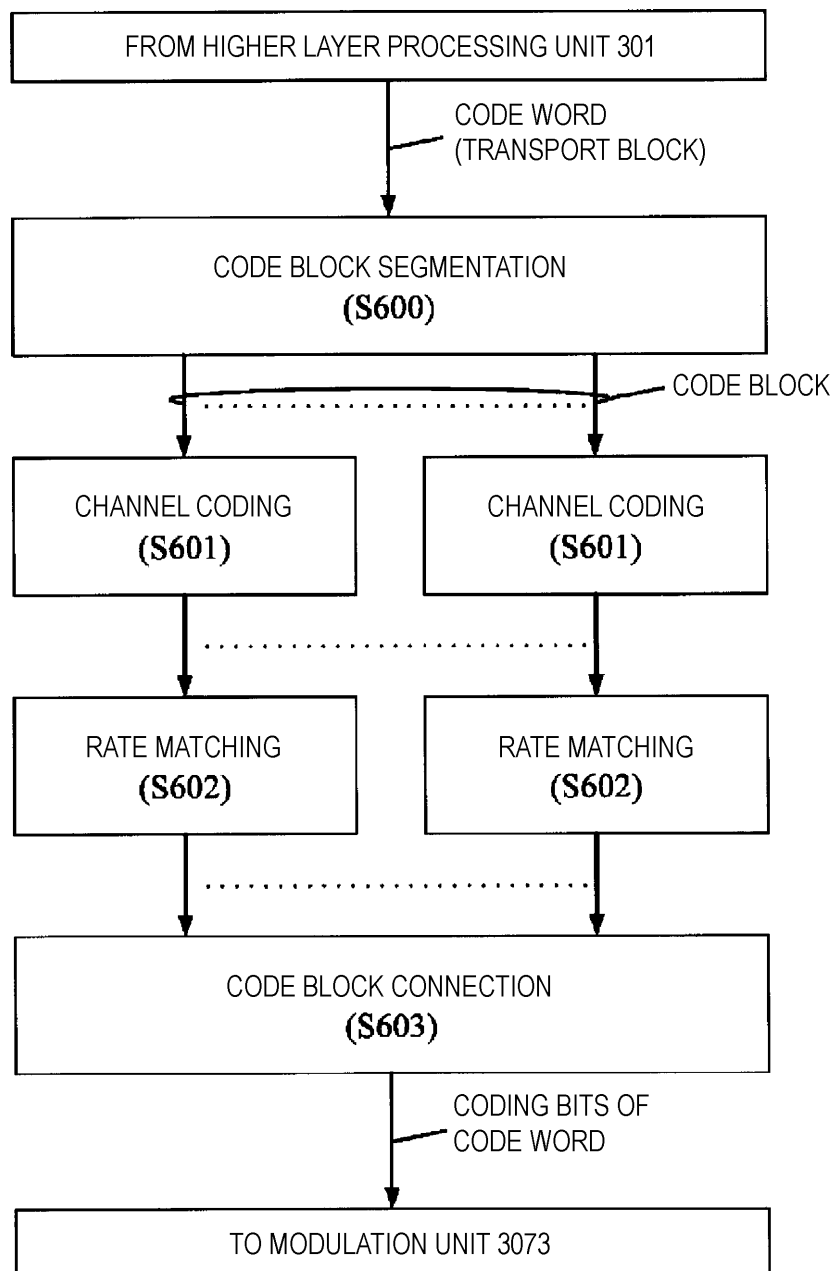


FIG. 6

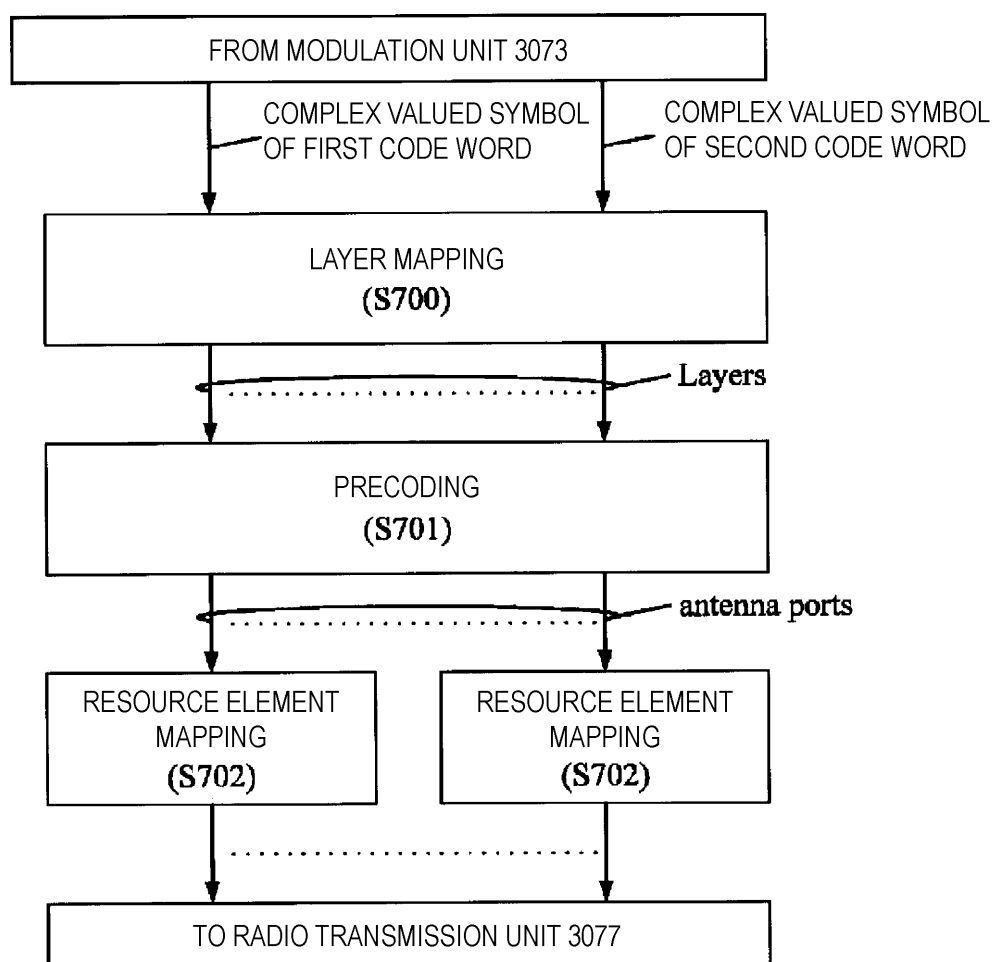


FIG. 7

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Transmission Mode (P800)	DCI format (P801)	Transmission scheme of PDSCH corresponding to PDCCH (the number of supported layers) (P802)
Mode 4	DCI format 2	Closed-loop spatial multiplexing (up to 4 layers) or Transmit diversity (1 layer)
Mode 5	DCI format 1D	Multi-user MIMO (1 layer)
Mode 6	DCI format 1B	Closed-loop spatial multiplexing (1 layer)
Mode 8	DCI format 2B	Dual layer transmission (2 layers) or Single-antenna port (1 layer)
Mode 9	DCI format 2C	Up to 8 layer transmission (up to 8 layers) or Single-antenna port (1 layer)
Mode 10	DCI format 2D	Up to 8 layer transmission (up to 8 layers) or Single-antenna port (1 layer)

FIG. 8

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UE Radio Access Capability parameter (P900)	UE Category (P901)	Total number of soft channel bits (P902)	Maximum number of supported layers for spatial multiplexing in DL (P903)
<i>ue-Category</i> (without suffix)	Category 1	250368	1
	Category 2	1237248	2
	Category 3	1237248	2
	Category 4	1827027	2
	Category 5	3667200	4
<i>ue-Category-v1020</i>	Category 6	3654144	2 or 4
	Category 7	3654144	2 or 4
	Category 8	35982720	8
<i>ue-Category-v1170</i>	Category 9	5481216	2 or 4
	Category 10	5481216	2 or 4
<i>ue-Category-v11a0</i>	Category 11	7308288	2 or 4
	Category 12	7308288	2 or 4

FIG. 9

UE Radio Access Capability parameter (P1000)	UE DL Category (P1001)	Total number of soft channel bits (P1002)	Maximum number of supported layers for spatial multiplexing in DL (P1003)
<i>ue-CategoryDL-r12</i>	DL Category 0	25344	1
	DL Category 6	3654144	2 or 4
	DL Category 7	3654144	2 or 4
	DL Category 9	5481216	2 or 4
	DL Category 10	5481216	2 or 4
	DL Category 11	7308288	2 or 4
	DL Category 12	7308288	2 or 4
	DL Category 13	3654144	2 or 4
	DL Category 14	47431680	8

FIG. 10

Case	<i>ue-Category</i> DL-r12	<i>ue-Category-v11a0</i>	<i>ue-Category-v1170</i>	<i>ue-Category-v1020</i>	<i>ue-Category</i> (without suffix)
Case 1				Category 6	Category 4
Case 2				Category 7	Category 4
Case 3				Category 8	Category 5
Case 4			Category 9	Category 6	Category 4
Case 5			Category 10	Category 7	Category 4
Case 6		Category 11	Category 9	Category 6	Category 4
Case 7		Category 12	Category 10	Category 7	Category 4
Case 8	DL Category 0				
Case 9	DL Category 6			Category 6	Category 4
Case 10	DL Category 7			Category 7	Category 4
Case 11	DL Category 9		Category 9	Category 6	Category 4
Case 12	DL Category 10		Category 10	Category 7	Category 4
Case 13	DL Category 11	Category 11	Category 9	Category 6	Category 4
Case 14	DL Category 12	Category 12	Category 10	Category 7	Category 4
Case 15	DL Category 13			Category 6 or 7	Category 4
Case 16	DL Category 14			Category 8	Category 5

FIG. 11

Bandwidth Class (P1400)	Aggregated Transmission Bandwidth Configuration (P1401)	Number of contiguous component carriers (P1402)
A	$N_{RB,agg} \leq 100$	1
B	$25 < N_{RB,agg} \leq 100$	2
C	$100 < N_{RB,agg} \leq 200$	2
D	$200 < N_{RB,agg} \leq 300$	3
E	$300 < N_{RB,agg} \leq 400$	4
F	$400 < N_{RB,agg} \leq 500$	5

FIG. 12

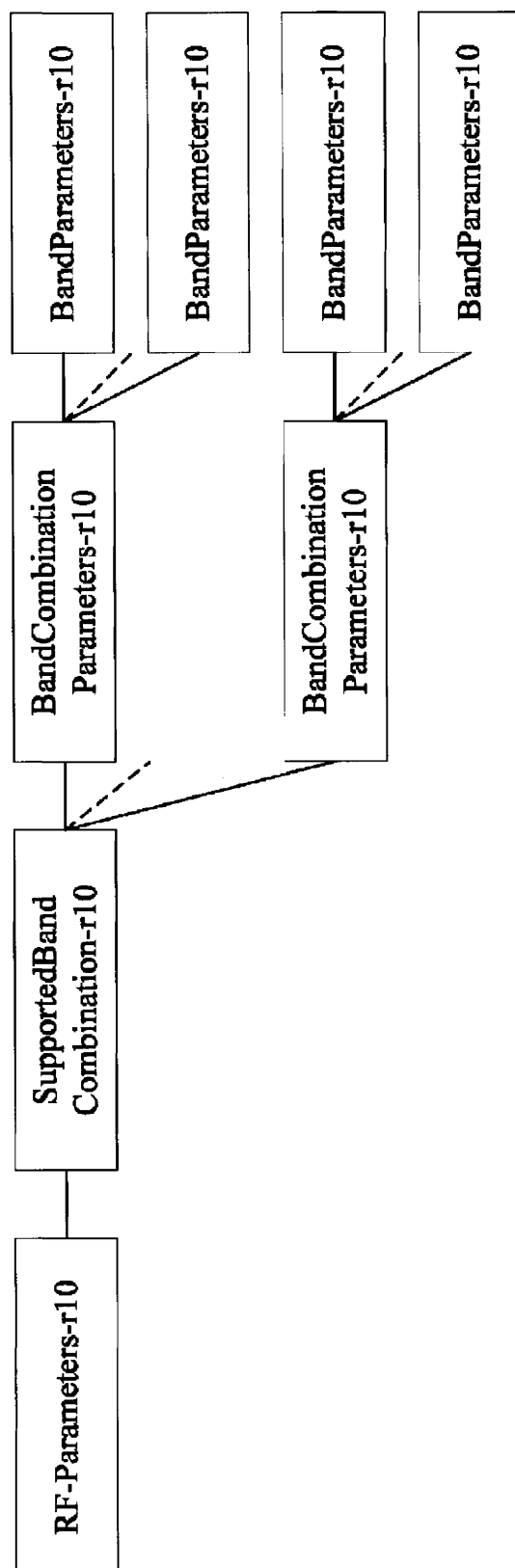


FIG. 13

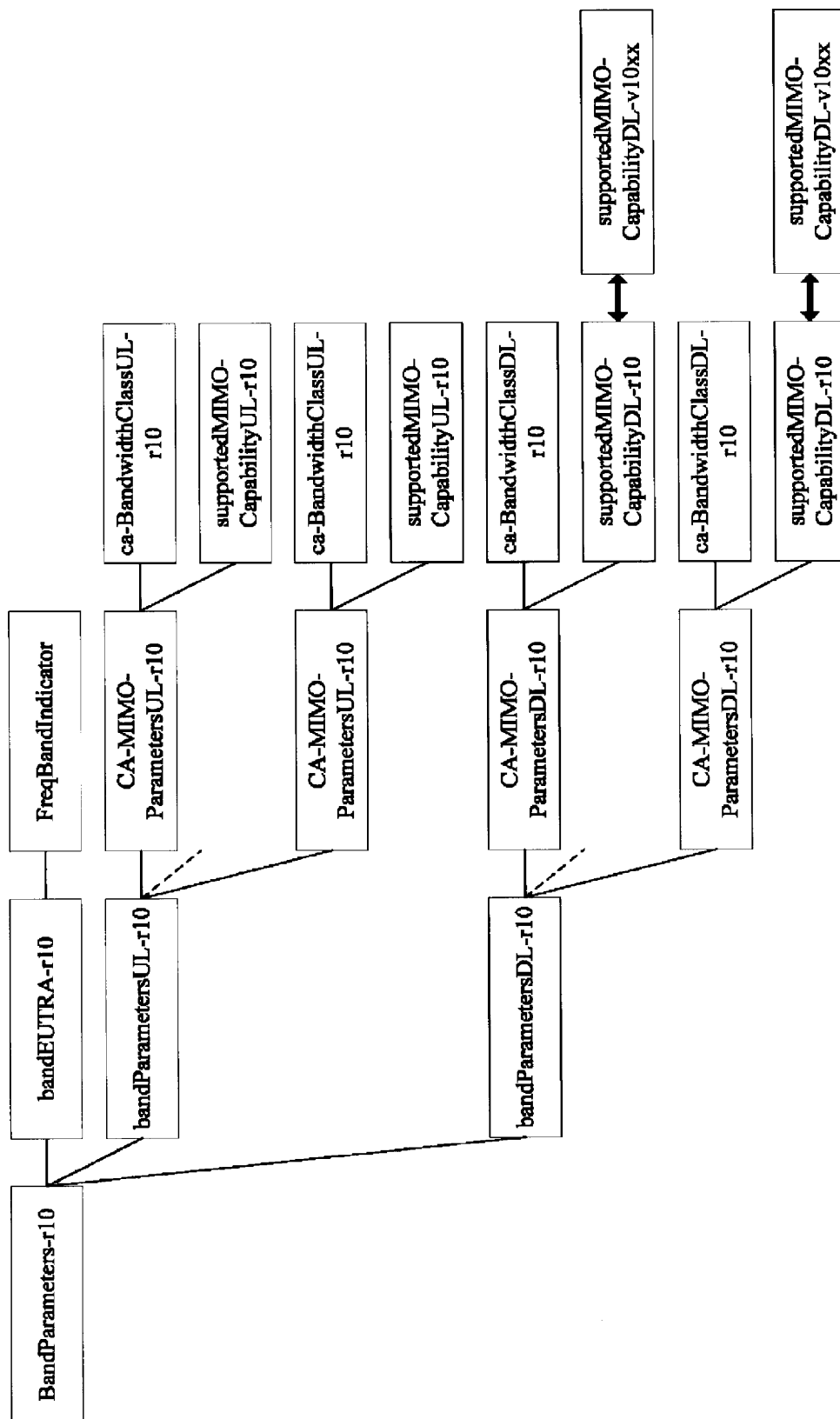


FIG. 14

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ca-BandwidthClassDL-r10	supportedMIMO-CapabilityDL-r10	supportedMIMO-CapabilityDL-v10xx
A	4	{4}
B	2	{4, 2}
C	2	{4, 2}
D	2	{2, 2, 2}

FIG. 15

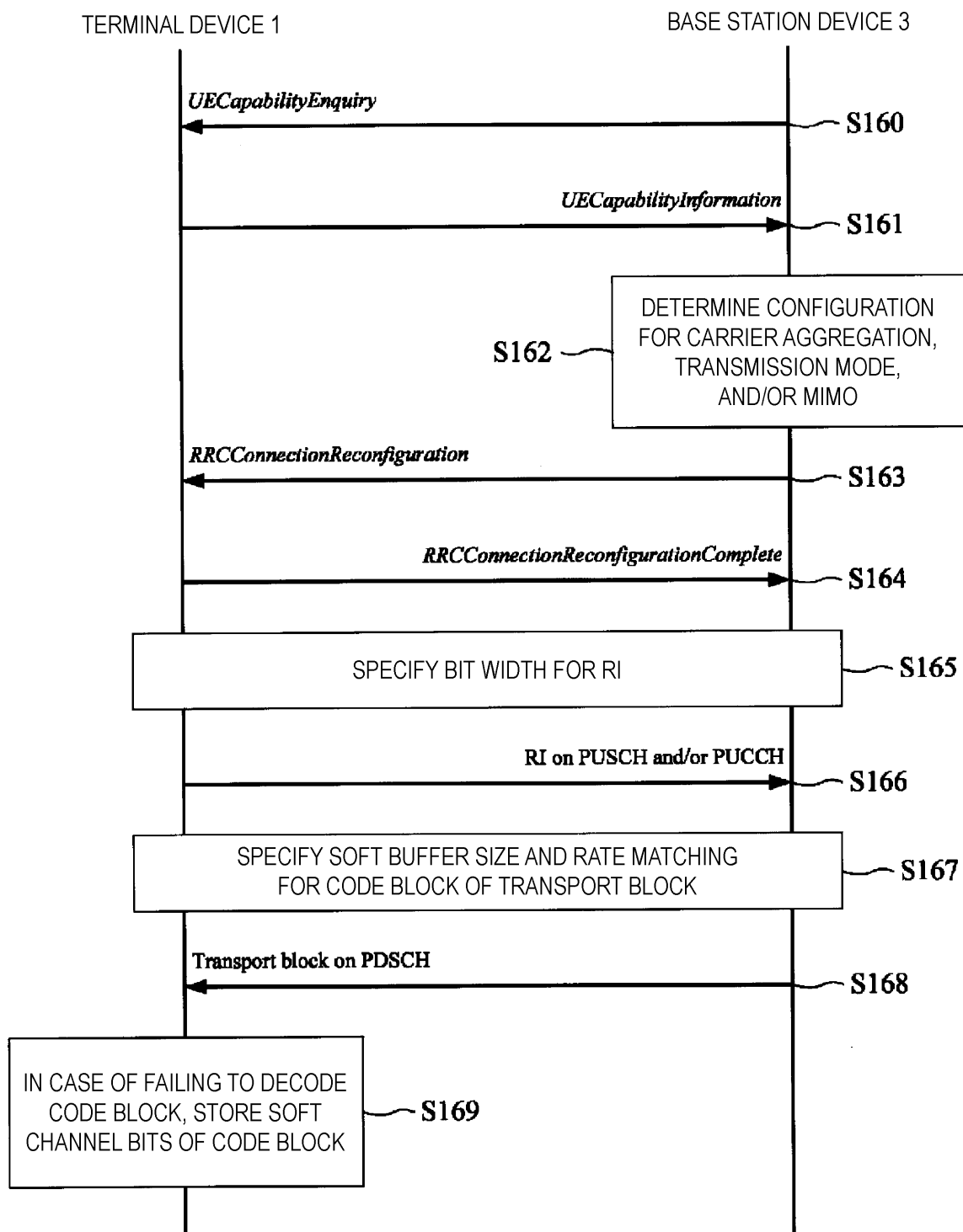


FIG. 16

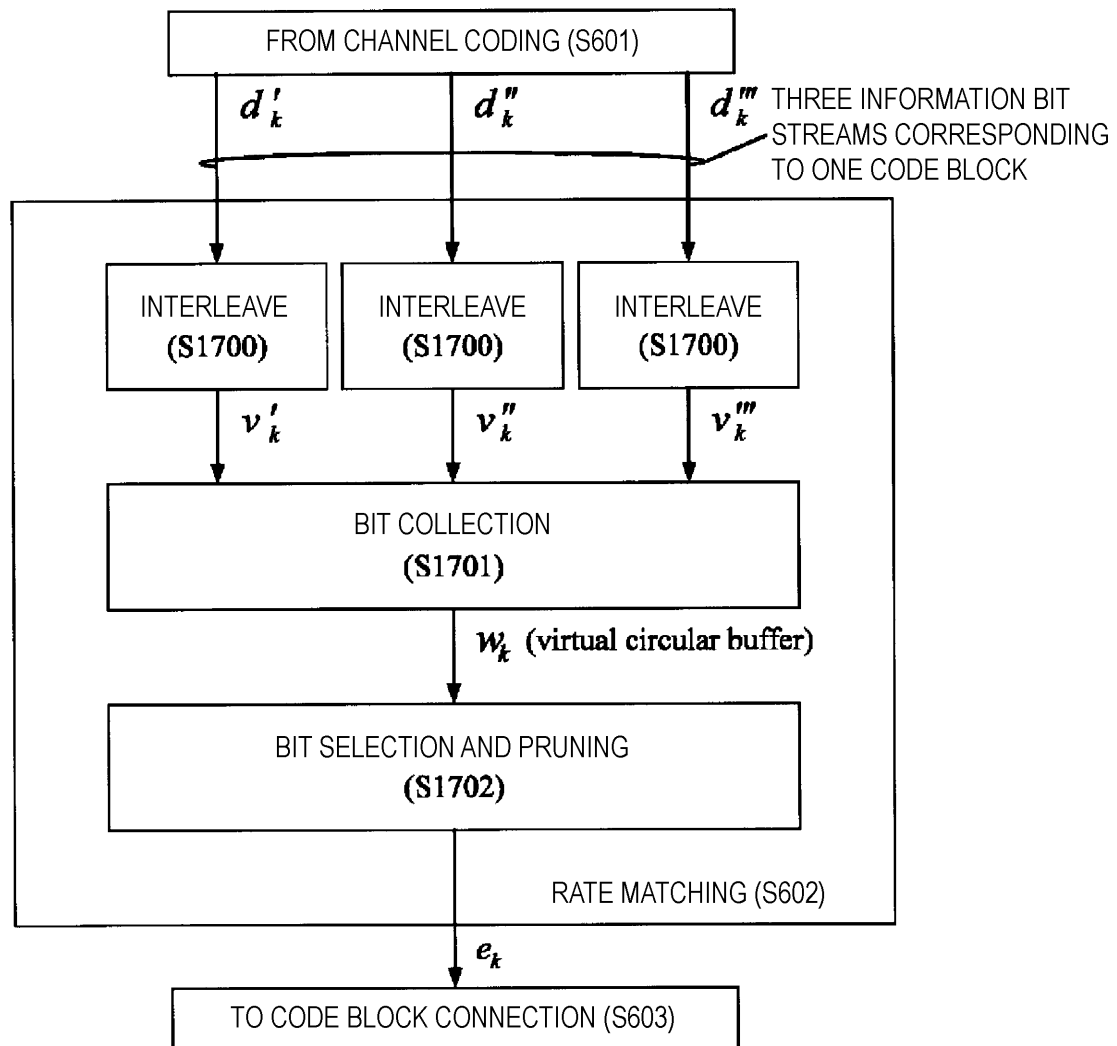


FIG. 17

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$$\text{Set } k_0 = R_{\text{subblock}} \cdot \left(2 \cdot \left\lceil \frac{N_{cb}}{8R_{\text{subblock}}} \right\rceil \cdot rv_{idx} + 2 \right)$$

Set $k = 0$ and $j = 0$

while { $k < E$ }

 if $w_{(k_0+j) \bmod N_{cb}} \neq \langle NULL \rangle$

$$e_k = w_{(k_0+j) \bmod N_{cb}}$$

$$k = k + 1$$

 end if

$$j = j + 1$$

end while

FIG. 18

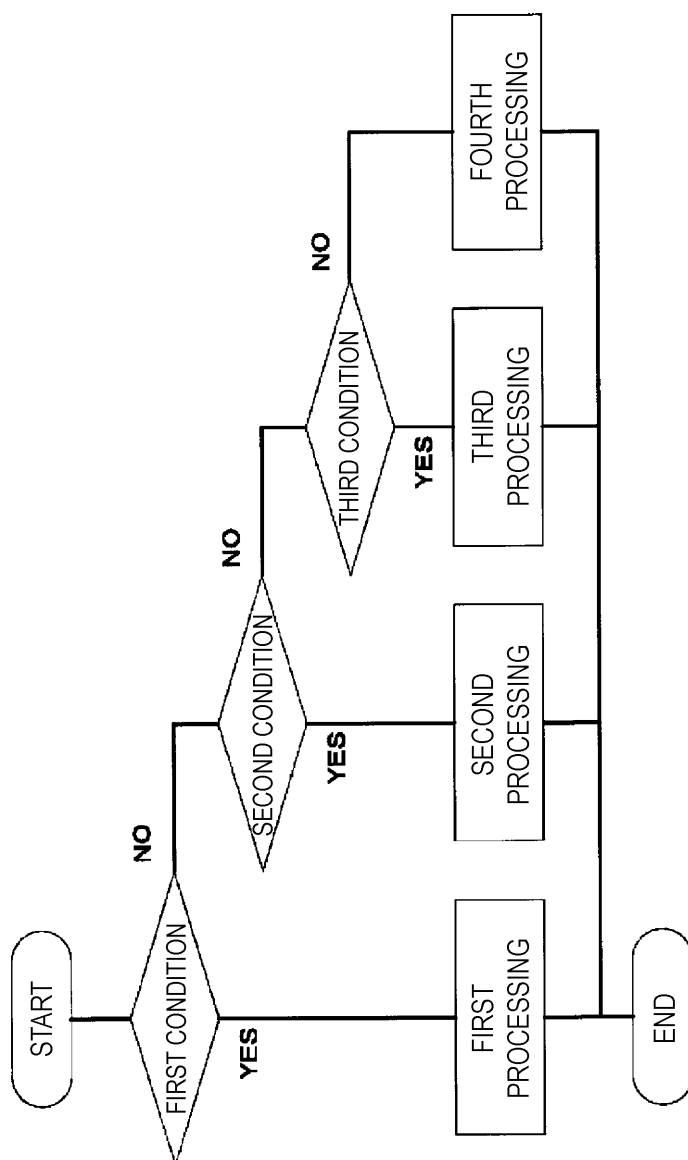


FIG. 19

If $N_{\text{soft}} = 35982720$ or 47431680 ,

$$K_C = 5,$$

elseif $N_{\text{soft}} = 7308288$ and the terminal device is configured by higher layers with *altCQI-Table-r12*,

if the maximum number of layers for the downlink component carrier (downlink cell) is no more than 2,

$$K_C = 3$$

else

$$K_C = 3/2$$

end if.

elseif $N_{\text{soft}} = 3654144$ and the maximum number of layers for the downlink component carrier (downlink cell) is no more than 2,

$$K_C = 2$$

else

$$K_C = 1$$

End if.

FIG. 20

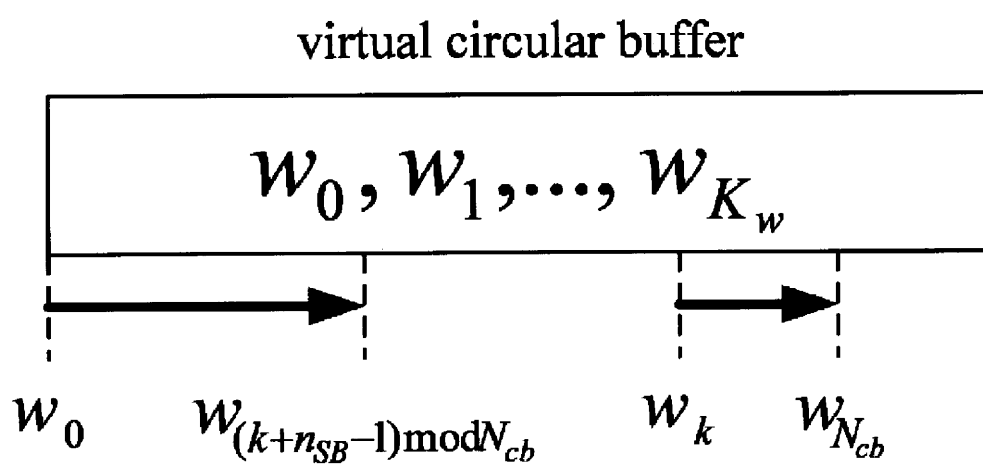


FIG. 21

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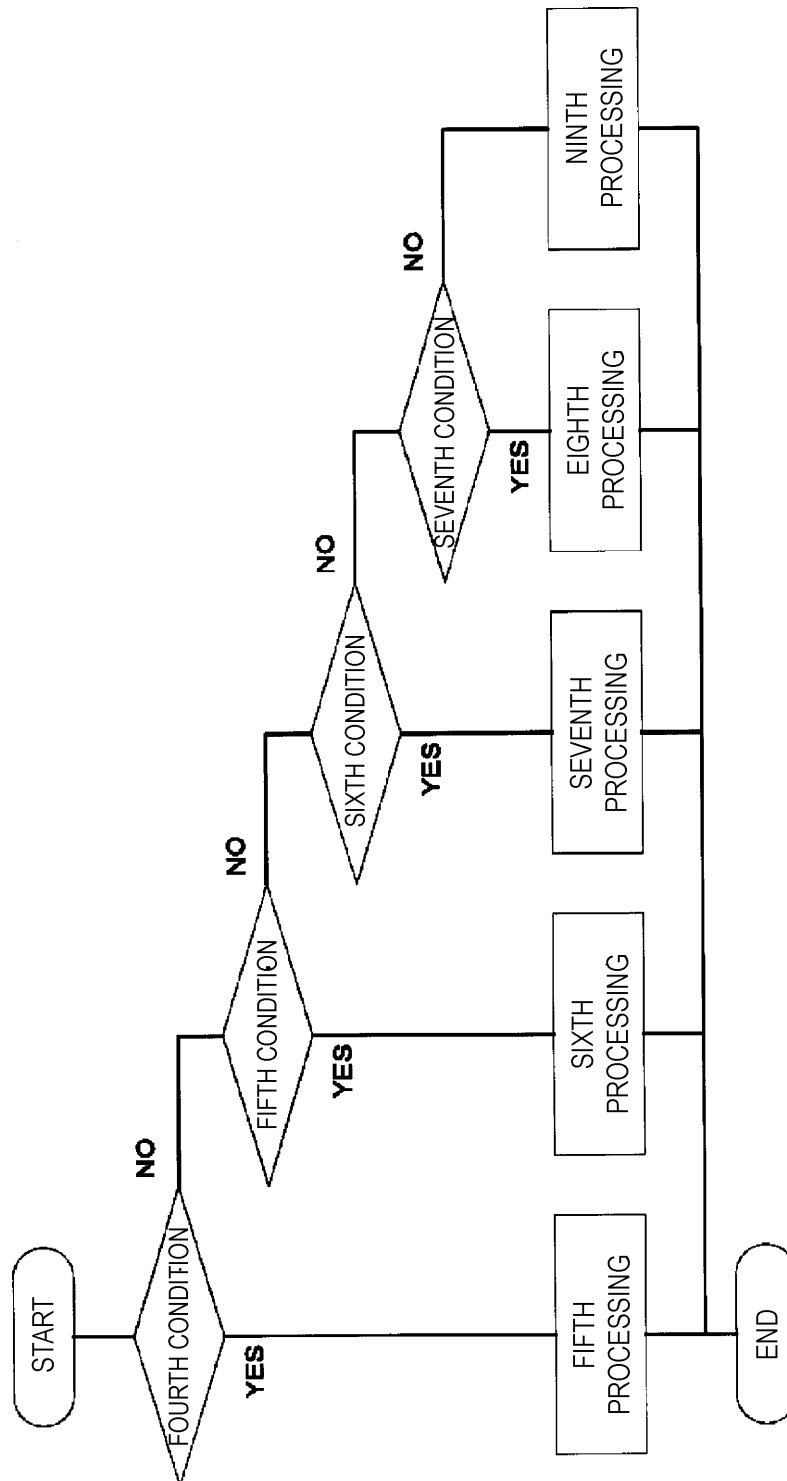


FIG. 22