

Feedback information 1-NACK
(negative acknowledgment)

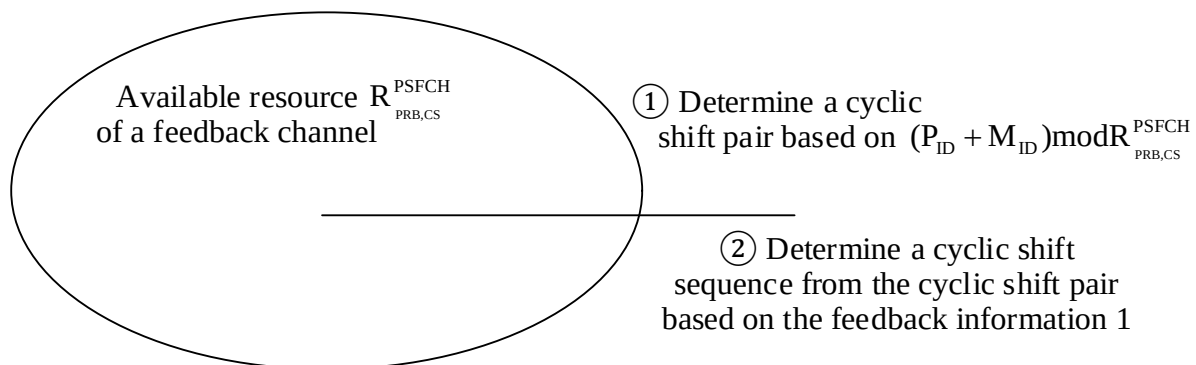


FIG. 1

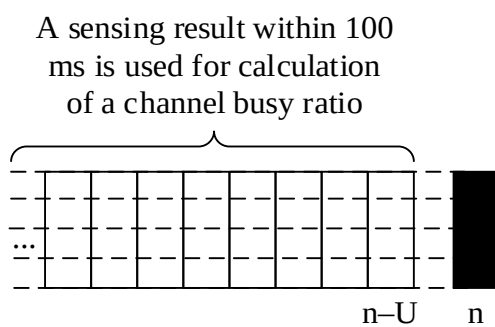


FIG. 2

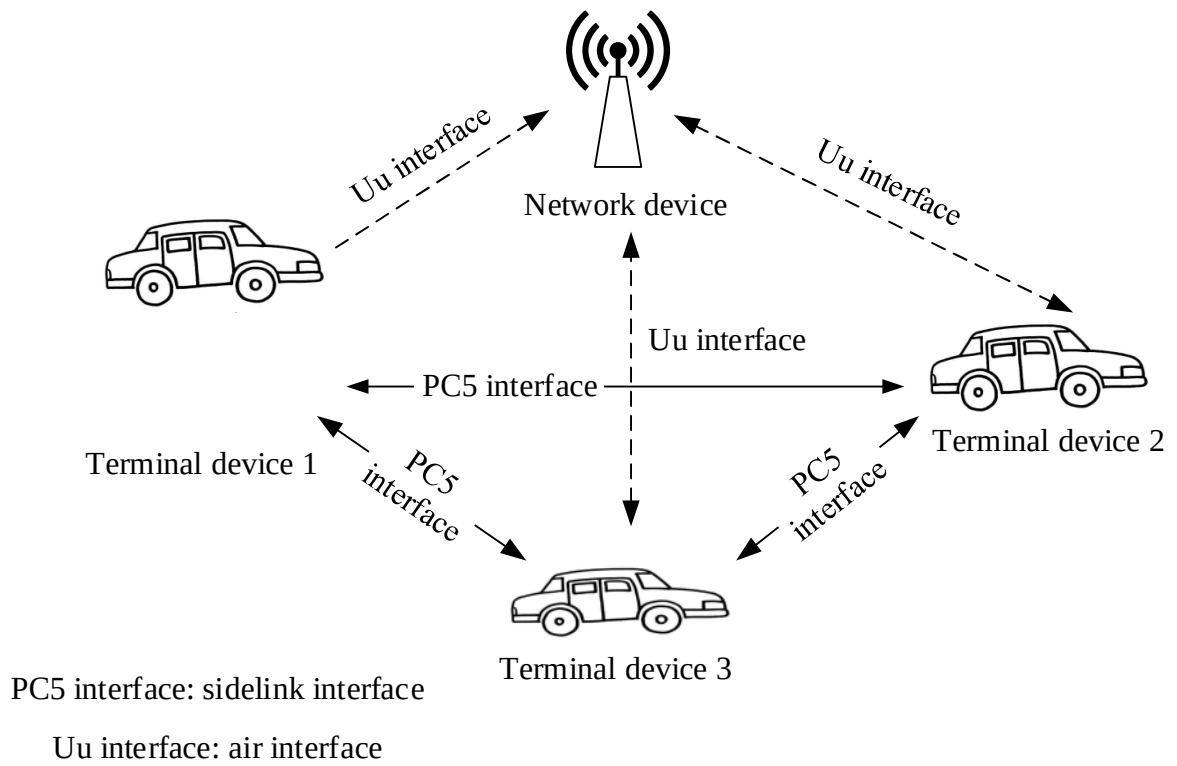


FIG. 3

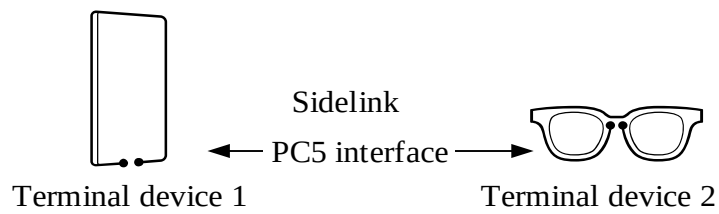


FIG. 4

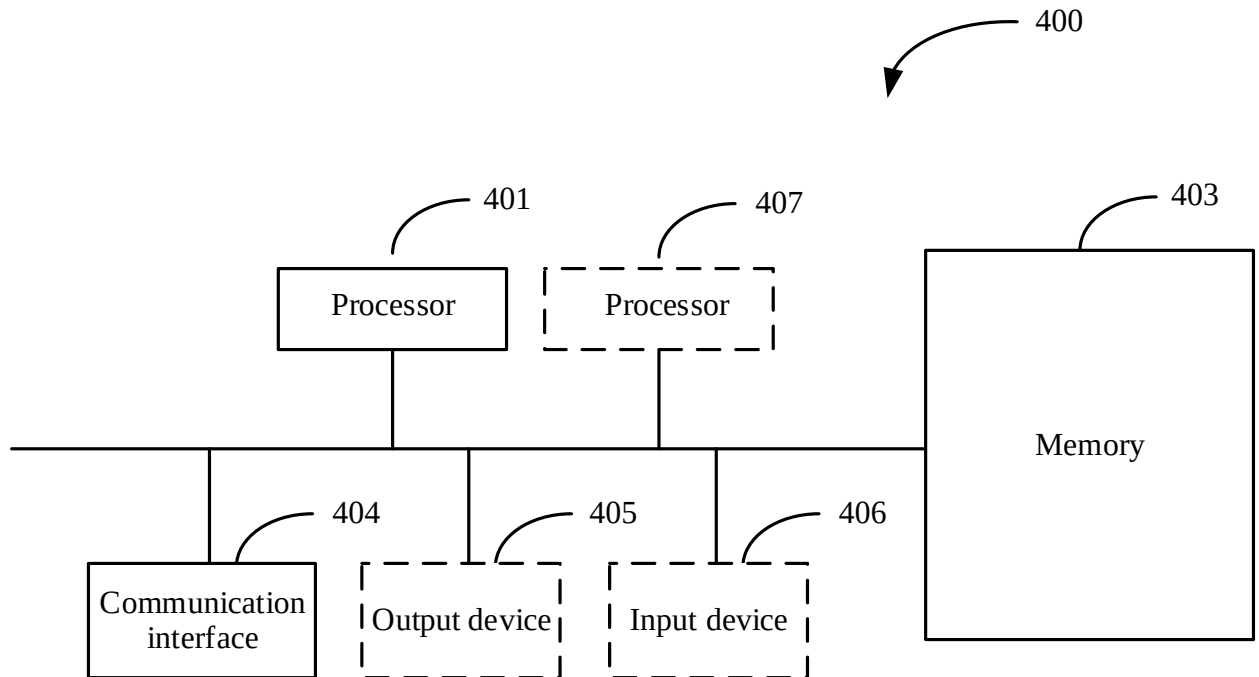
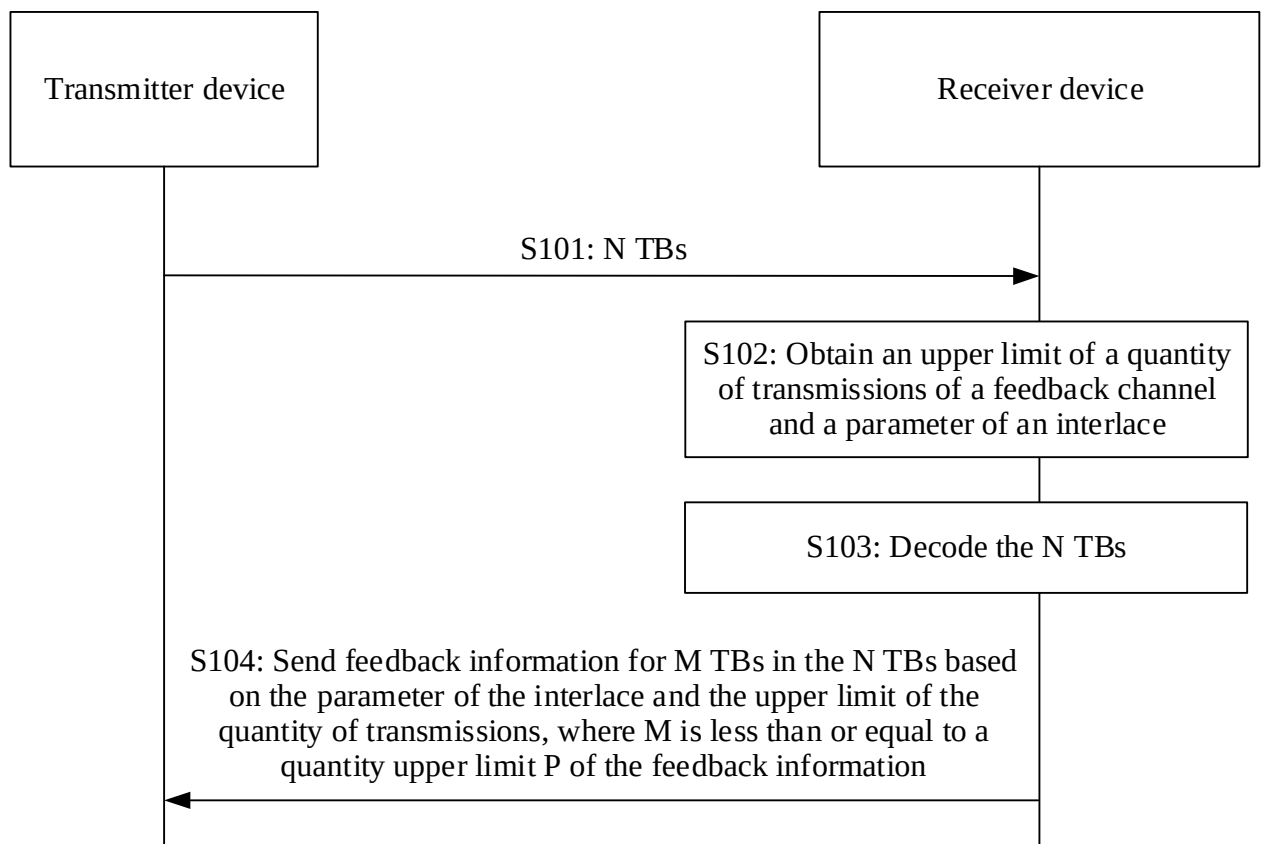
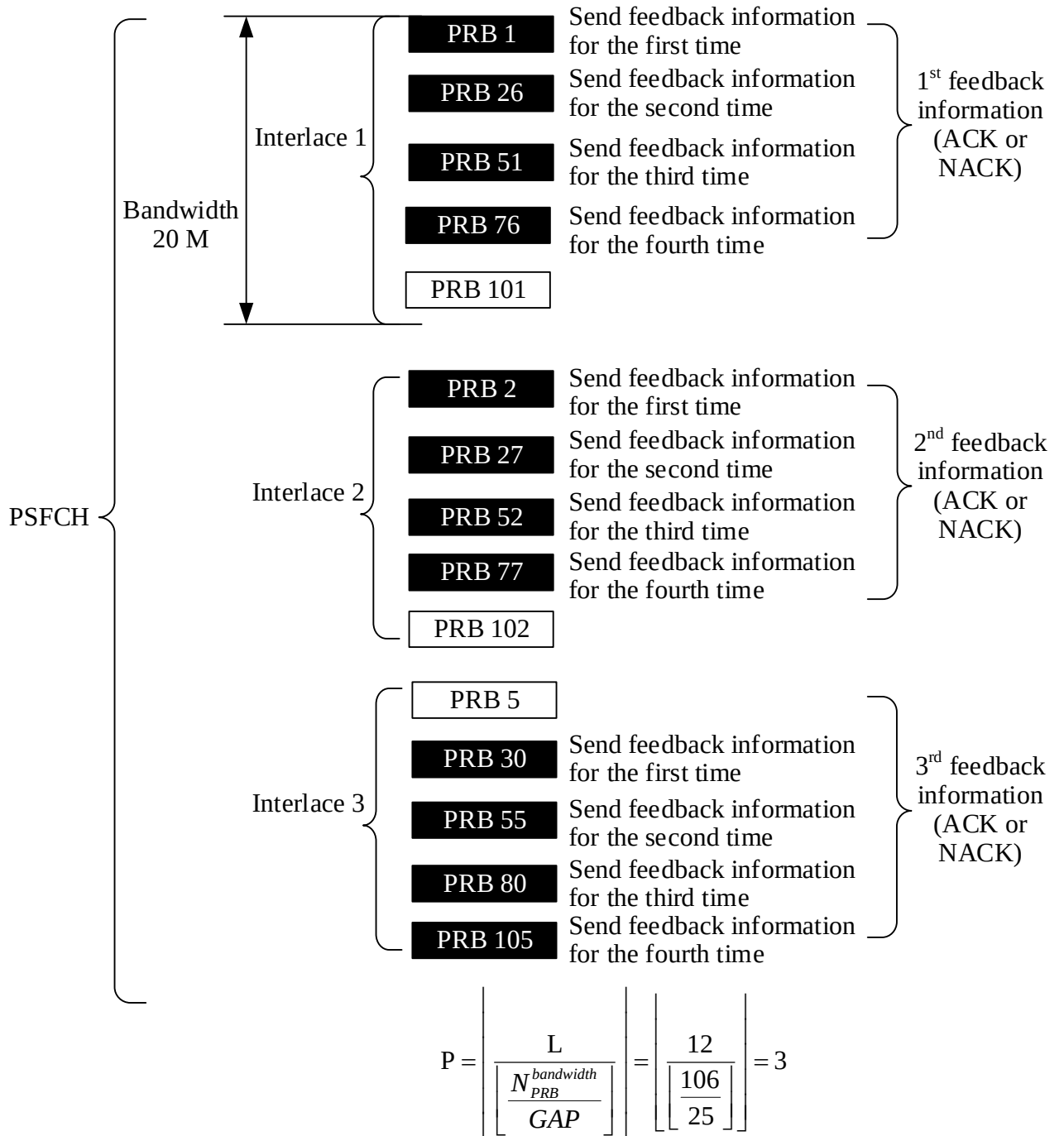


FIG. 5



TB: Transport block

FIG. 6

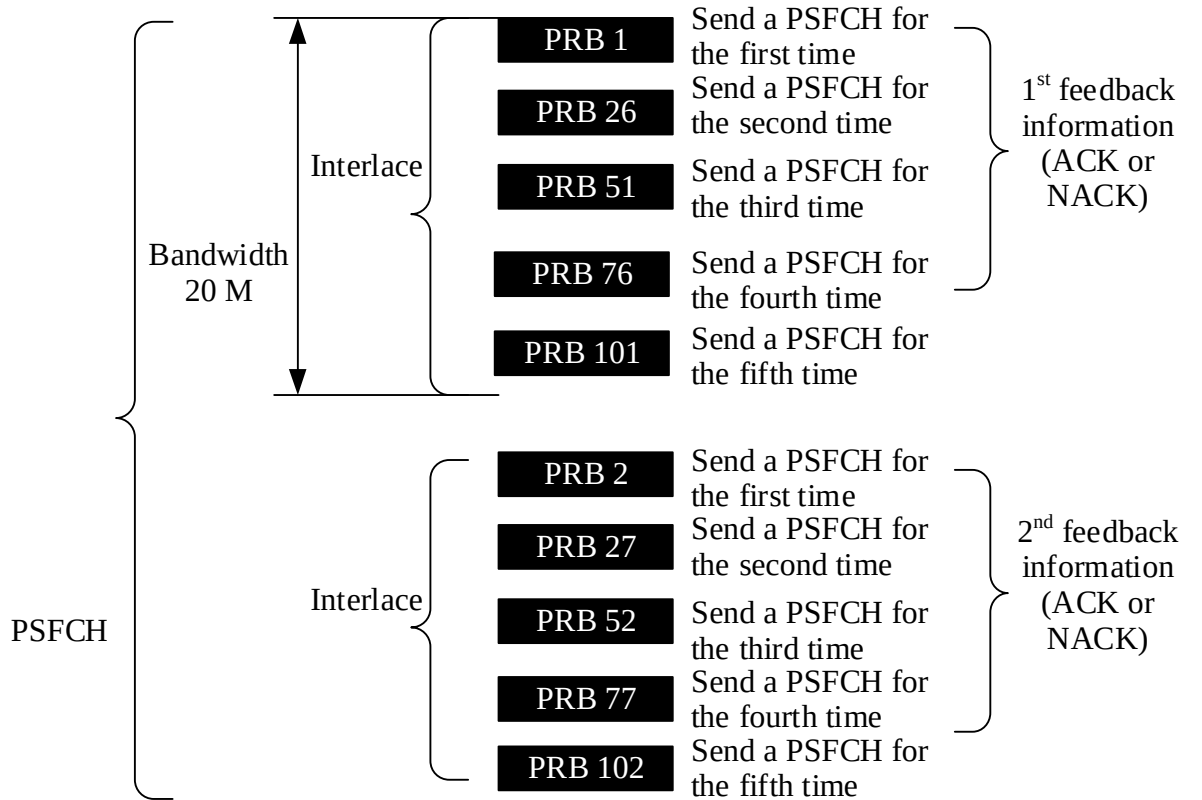


PRB	PRB that sends feedback information
PRB	PRB that does not send feedback information

PRB: Physical resource block

PSFCH: Feedback channel

FIG. 7

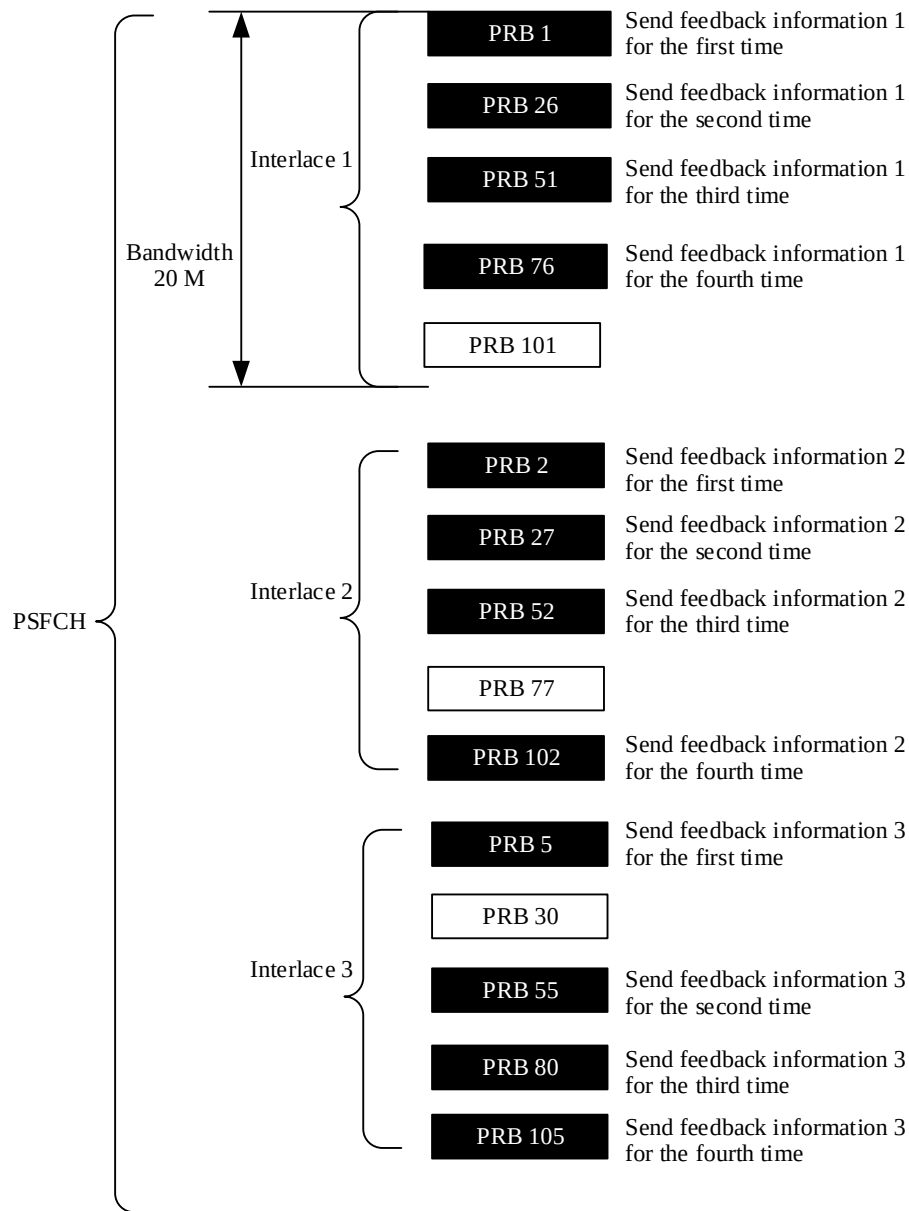


$$P = \left\lceil \frac{L}{\left\lceil \frac{N_{\text{bandwidth PRB}}}{\text{GAP}} \right\rceil} \right\rceil = \left\lceil \frac{12}{5} \right\rceil = 2$$

PRB

PRB that sends feedback information

FIG. 8



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TO
FIG. 9(b)

FIG. 9(a)

$$P = \left\lceil \frac{L}{\left\lfloor \frac{N_{\text{bandwidth PRB}}}{\text{GAP}} \right\rfloor} \right\rceil = \left\lceil \frac{13}{4} \right\rceil = 3$$

PRB	PRB that sends feedback information
PRB	PRB that does not send feedback information

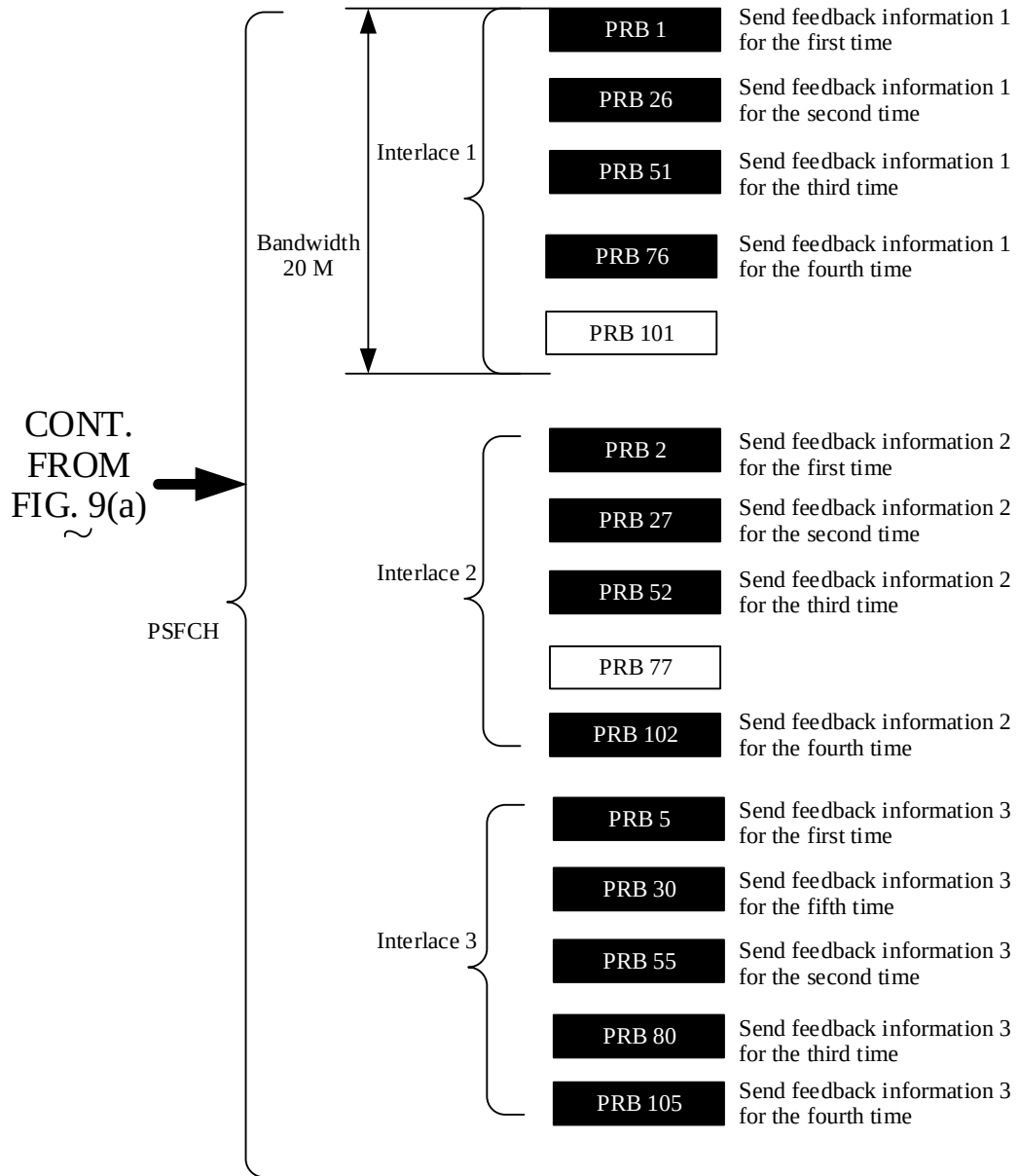


FIG. 9(b)

$$P = \left\lceil \frac{L}{\left\lfloor \frac{N_{\text{bandwidth}}^{\text{PRB}}}{\text{GAP}} \right\rfloor} \right\rceil = \left\lceil \frac{13}{4} \right\rceil = 3$$

PRB	PRB that sends feedback information
PRB	PRB that does not send feedback information

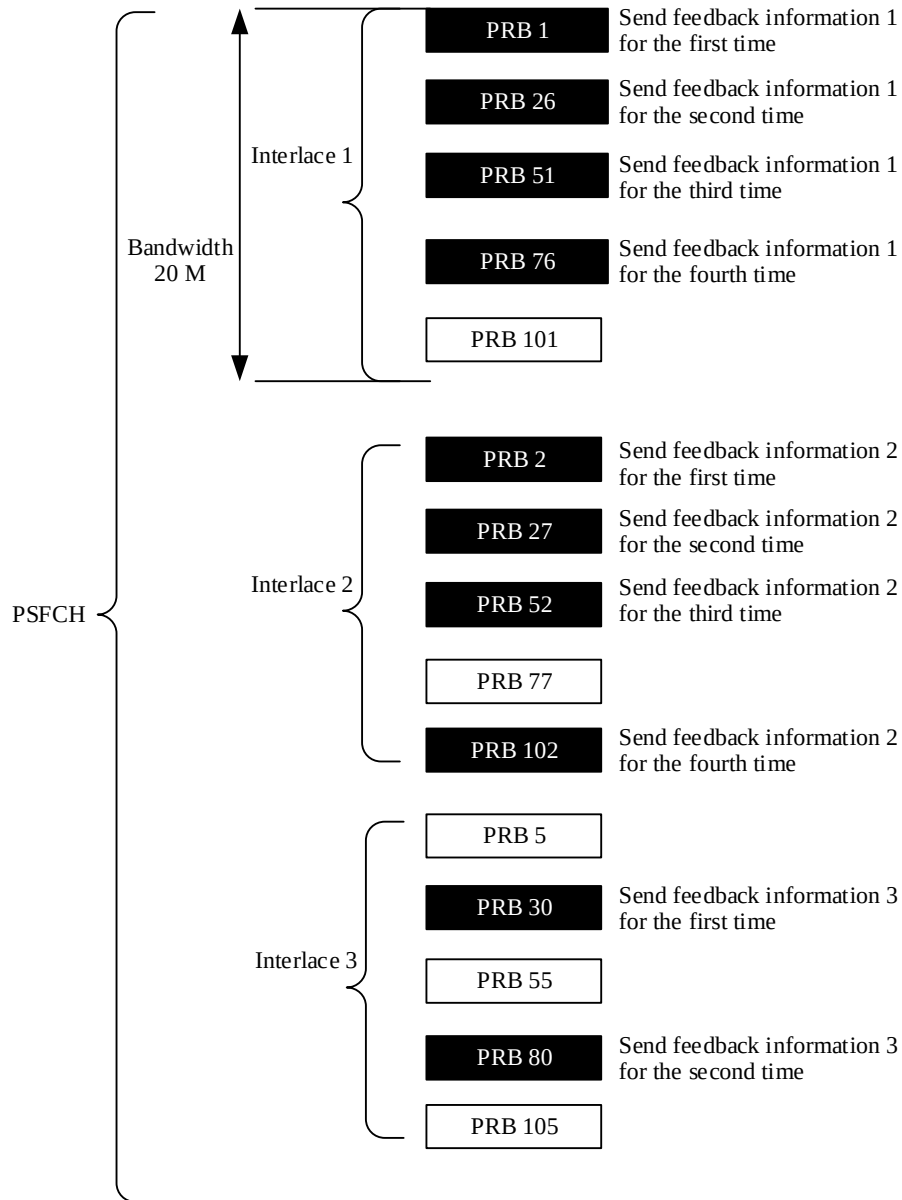


FIG. 10(a)

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TO
FIG. 10(b)

$$P = \left\lceil \frac{L - 2}{\left\lceil \frac{N_{\text{bandwidth PRB}}}{\text{GAP}} \right\rceil} \right\rceil = \left\lceil \frac{12 - 2}{\left\lceil \frac{106}{25} \right\rceil} \right\rceil = 3$$

PRB	PRB that sends feedback information
PRB	PRB that does not send feedback information

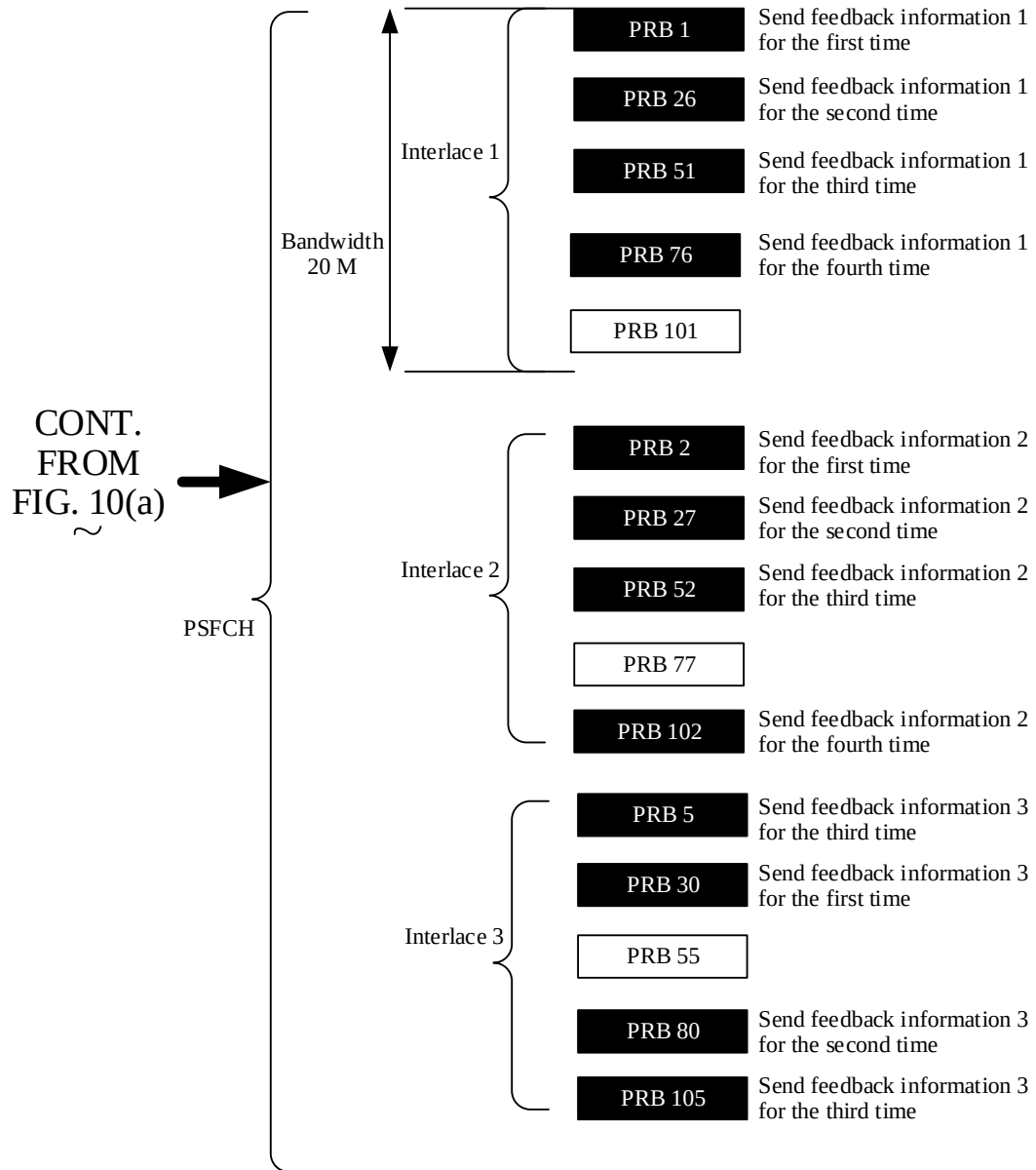
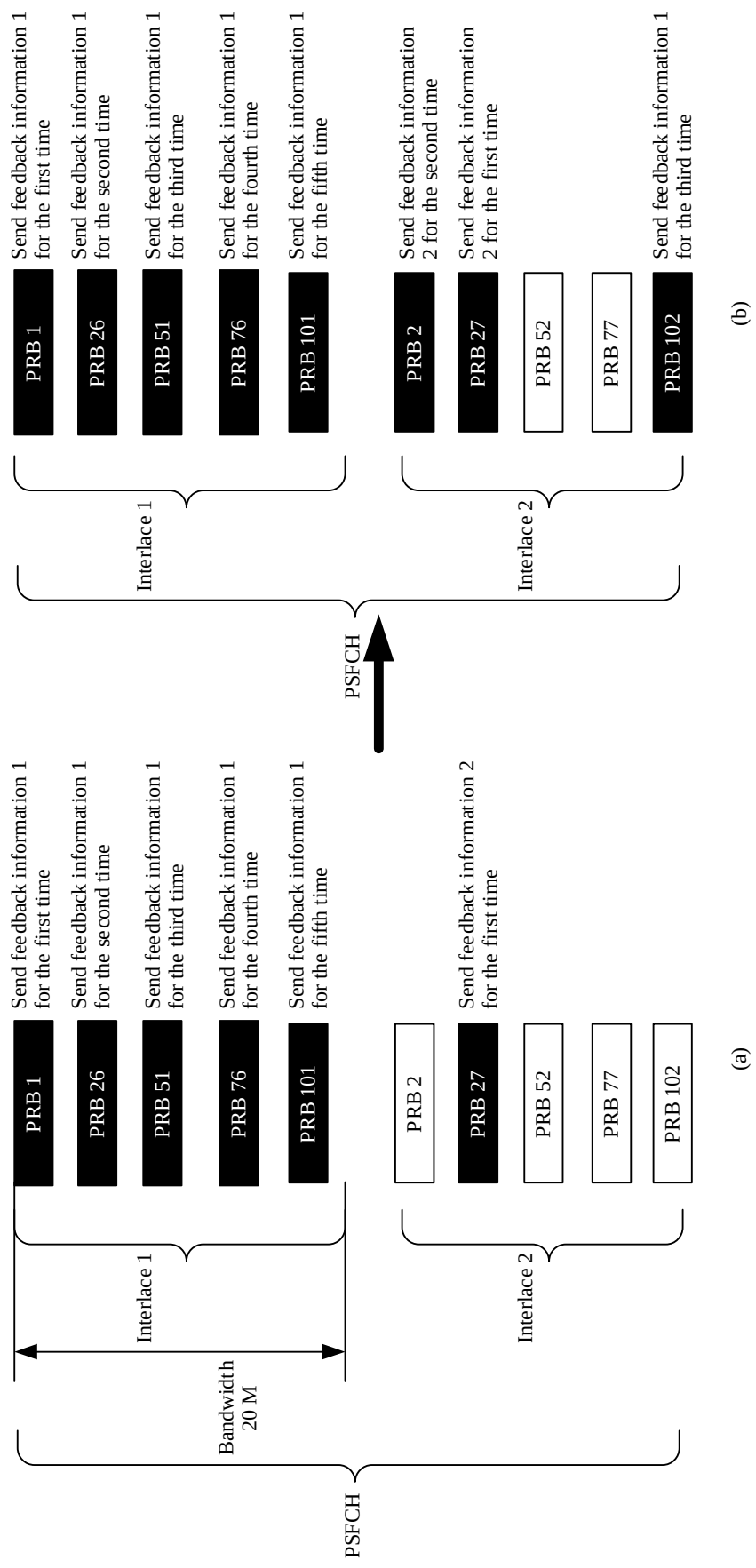


FIG. 10(b)

$$P = \left\lceil \frac{L - 2}{\left\lceil \frac{N_{\text{PRB}}^{\text{bandwidth}}}{\text{GAP}} \right\rceil} \right\rceil = \left\lceil \frac{12 - 2}{\left\lceil \frac{106}{25} \right\rceil} \right\rceil = 3$$

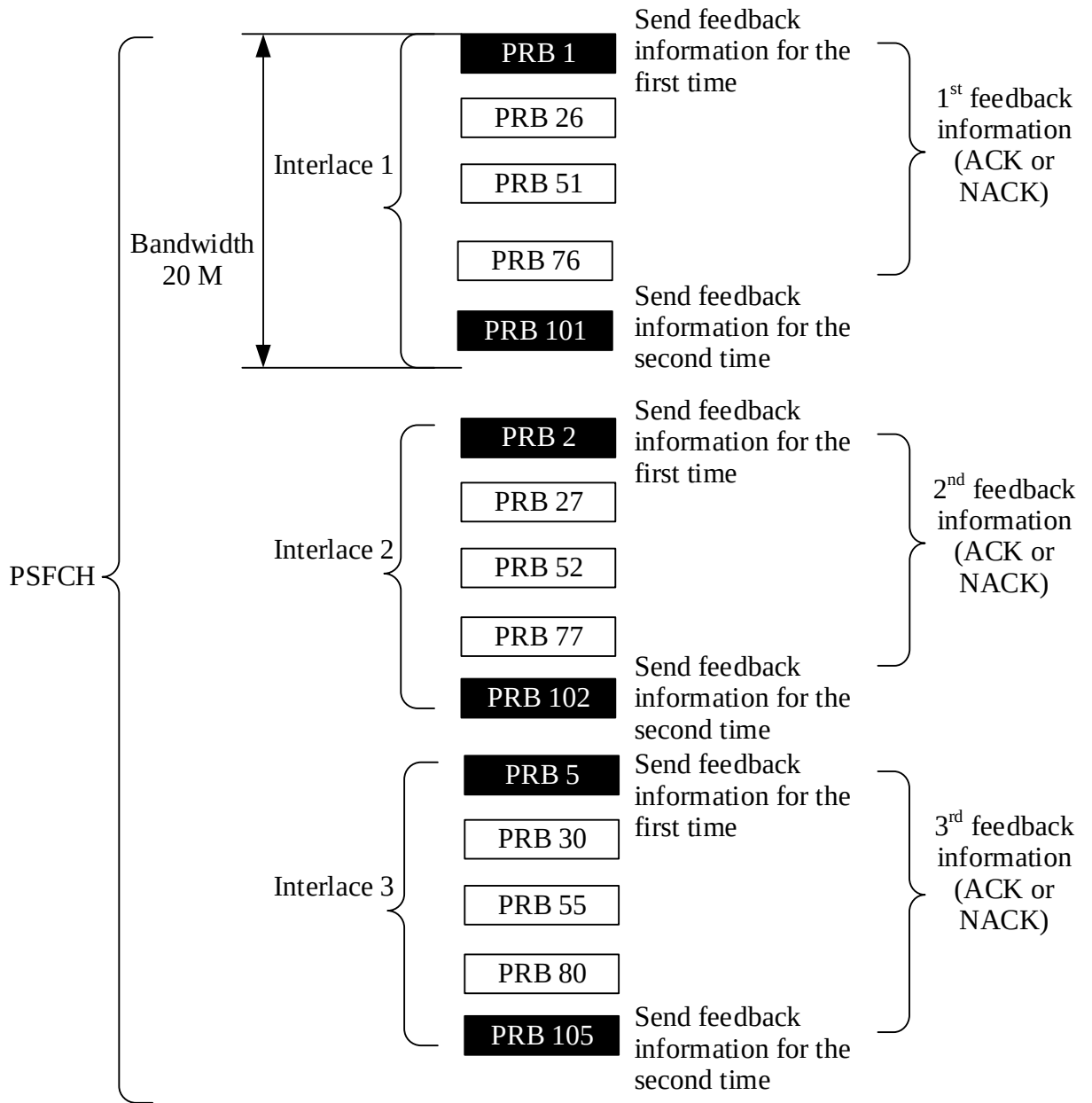
PRB	PRB that sends feedback information
PRB	PRB that does not send feedback information



$$P = \left\lceil \frac{L - 2}{\frac{N_{PRB} \text{ bandwidth}}{GAP}} \right\rceil = \left\lceil \frac{8 - 2}{\frac{106}{25}} \right\rceil = 2$$

- PRB PRB that sends feedback information
- PRB PRB that does not send feedback information

FIG. 11



$$P = \min\{N_{interlace}, \lfloor L/2 \rfloor\} = \min\{12, \lfloor 6/2 \rfloor\} = 3$$

PRB	PRB that sends feedback information
PRB	PRB that does not send feedback information

FIG. 12

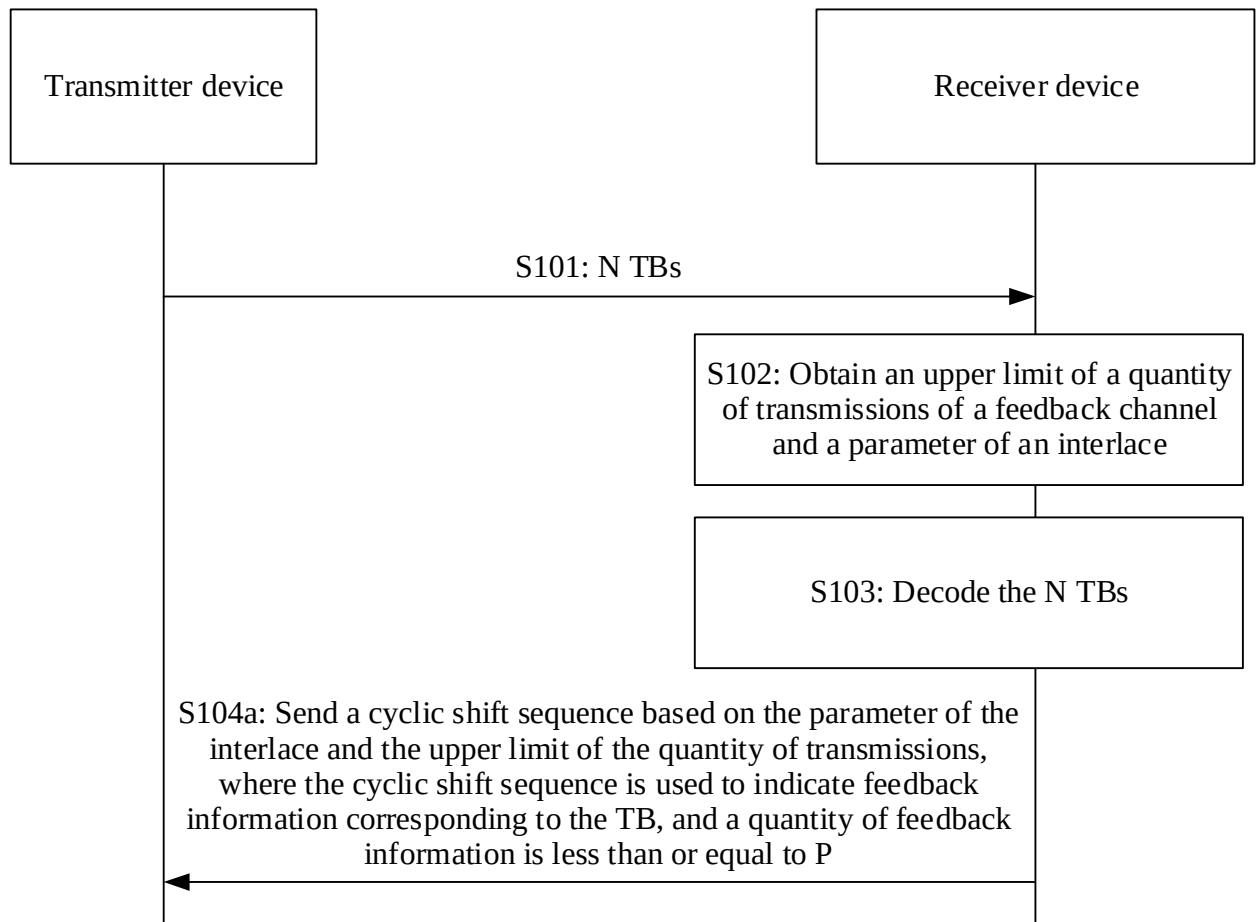


FIG. 13

Feedback information 10111

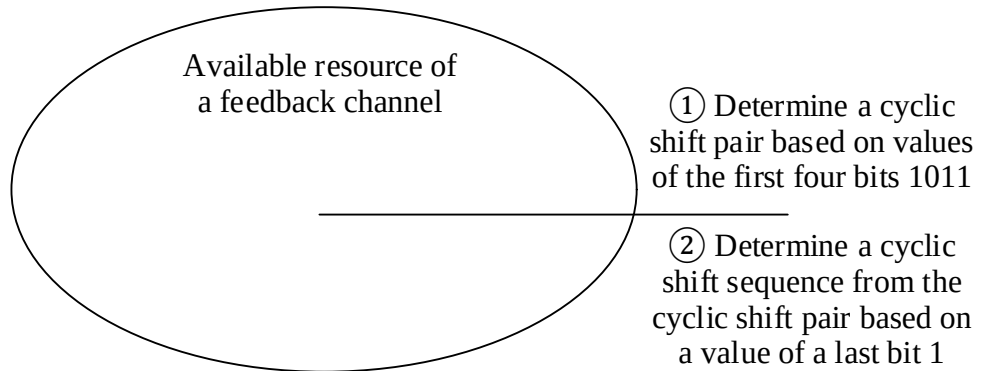


FIG. 14

Feedback information 10111

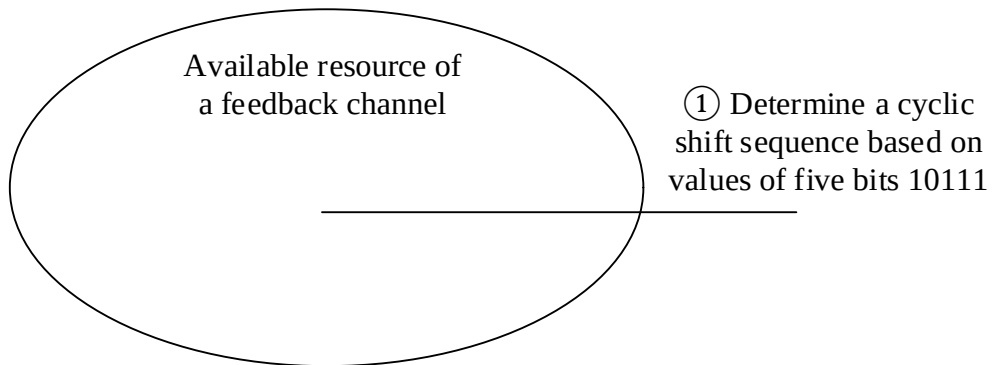


FIG. 15

$M = 5$, and five bits corresponding to five pieces of feedback information are 10111 respectively

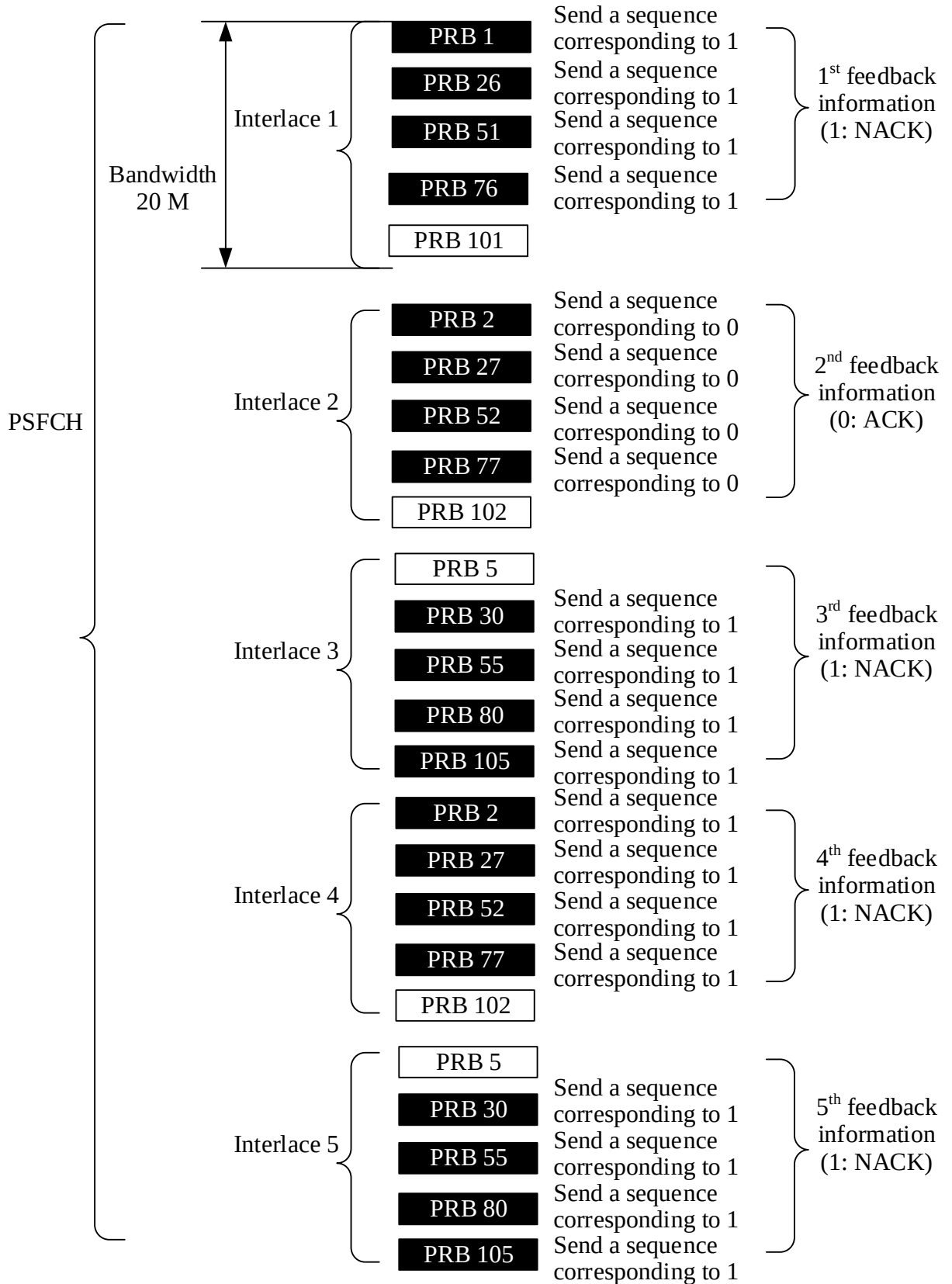
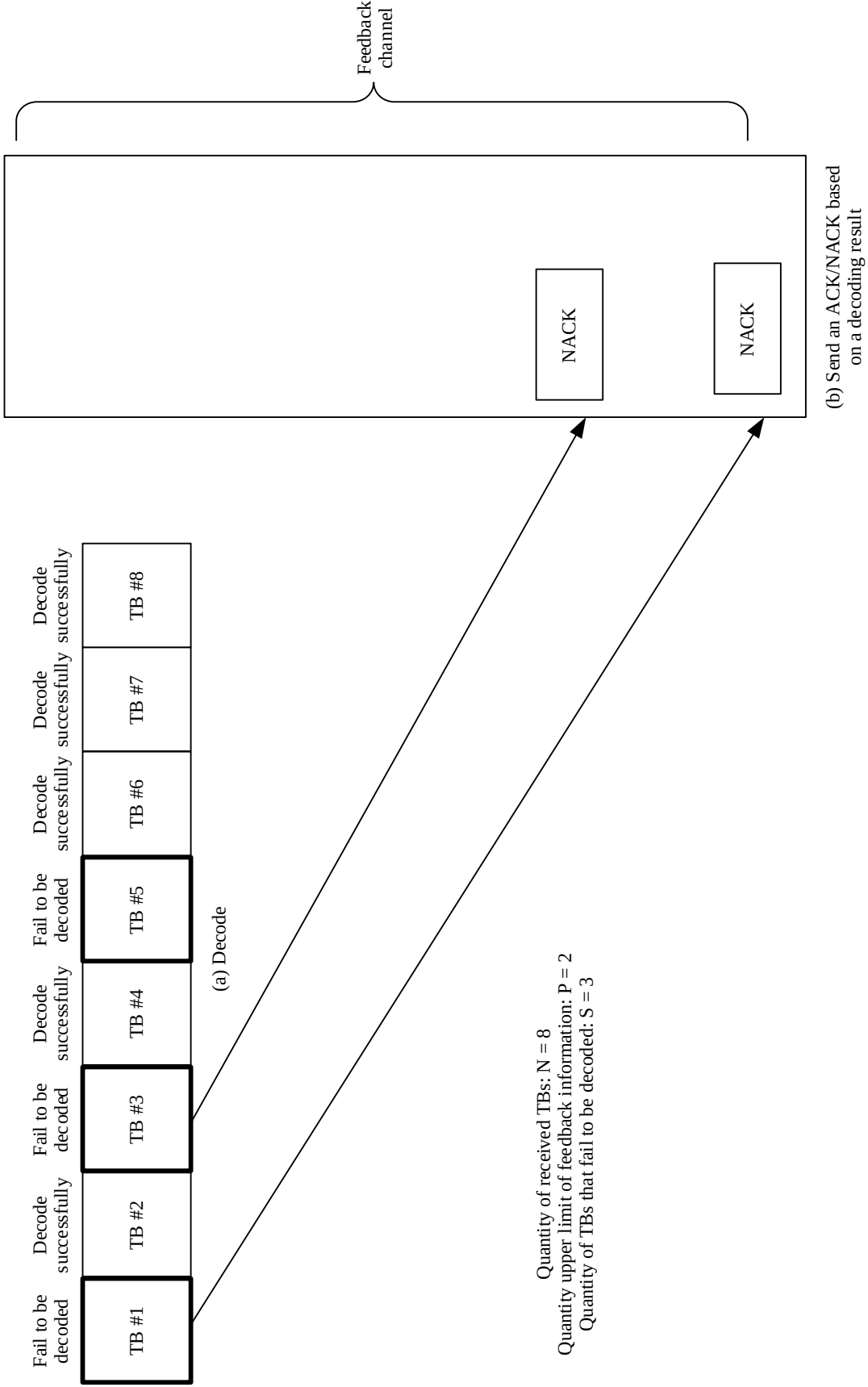
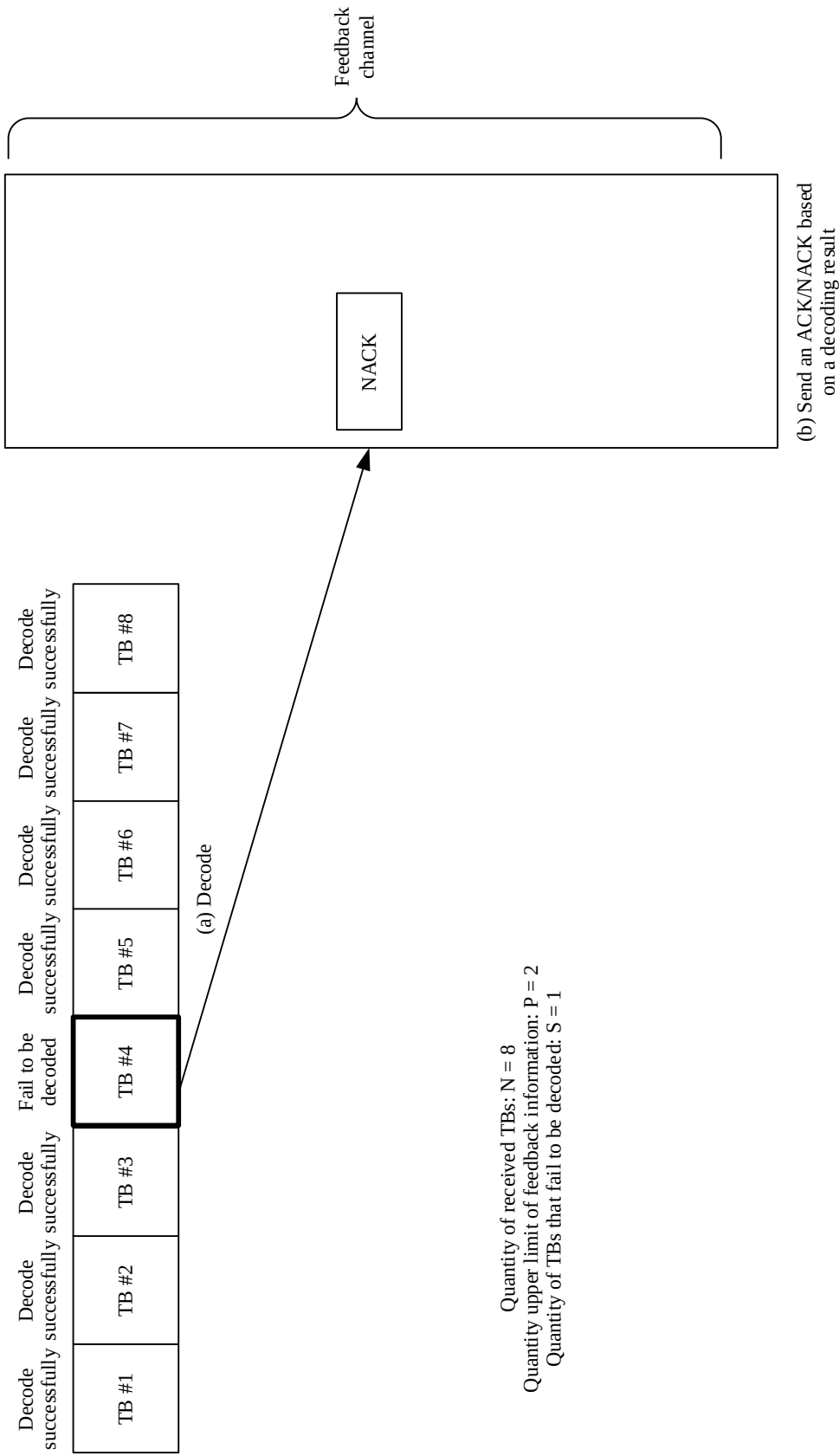


FIG. 16



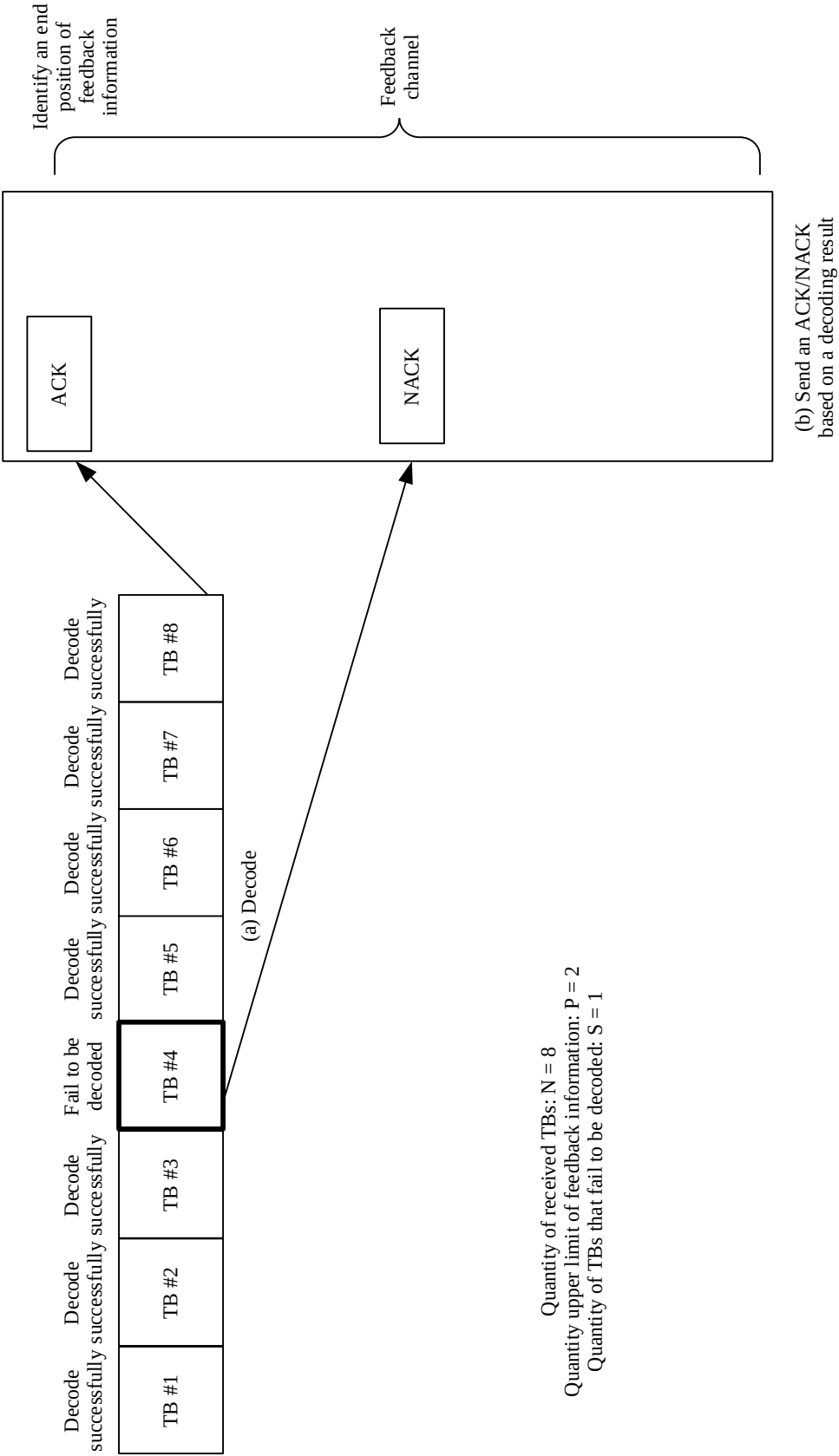
Feedback process when $S \geq P$

FIG. 17



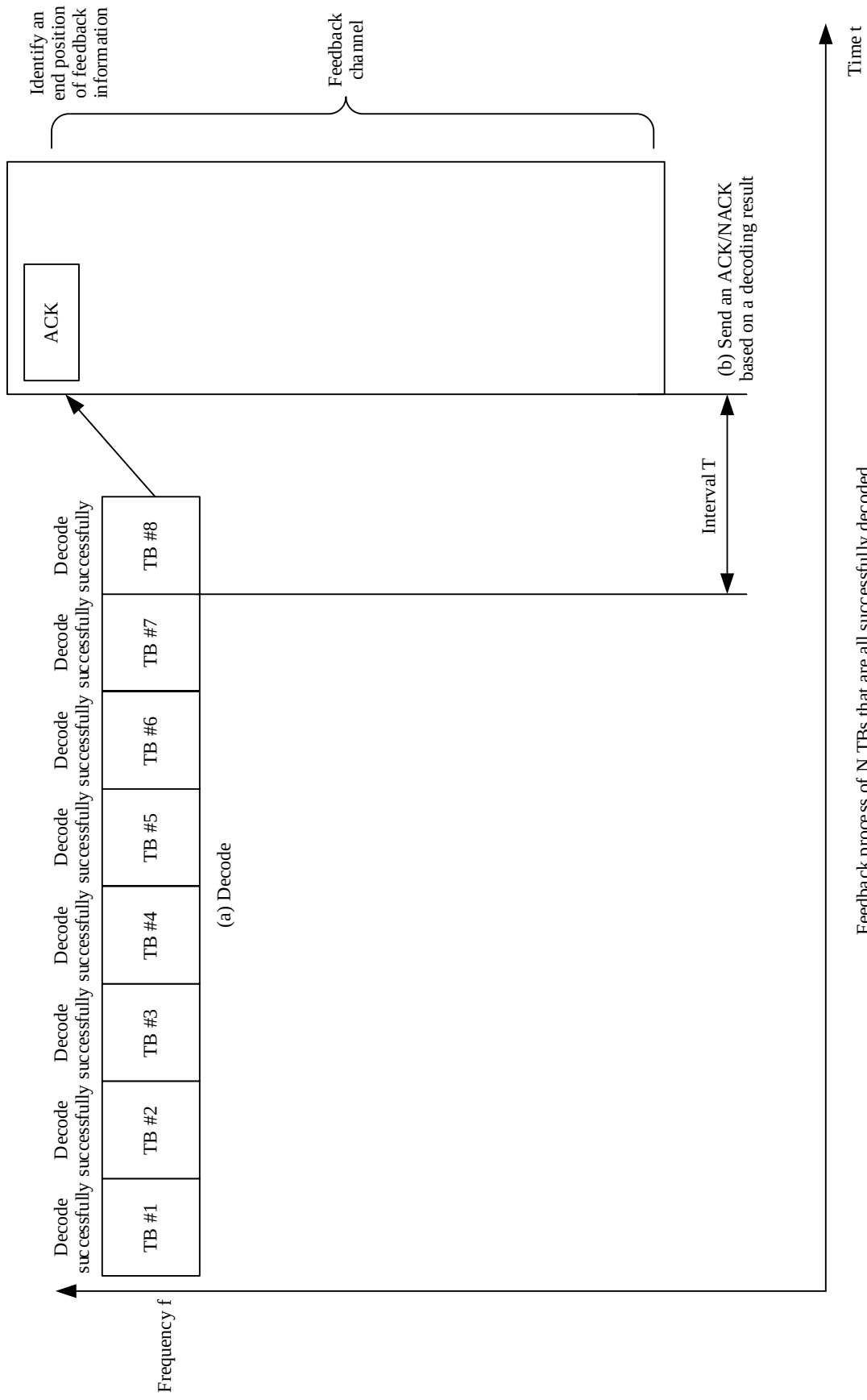
Feedback process when $S < P$

FIG. 18



Feedback process when $S < P$

FIG. 19



Feedback process of N TBs that are all successfully decoded

FIG. 20

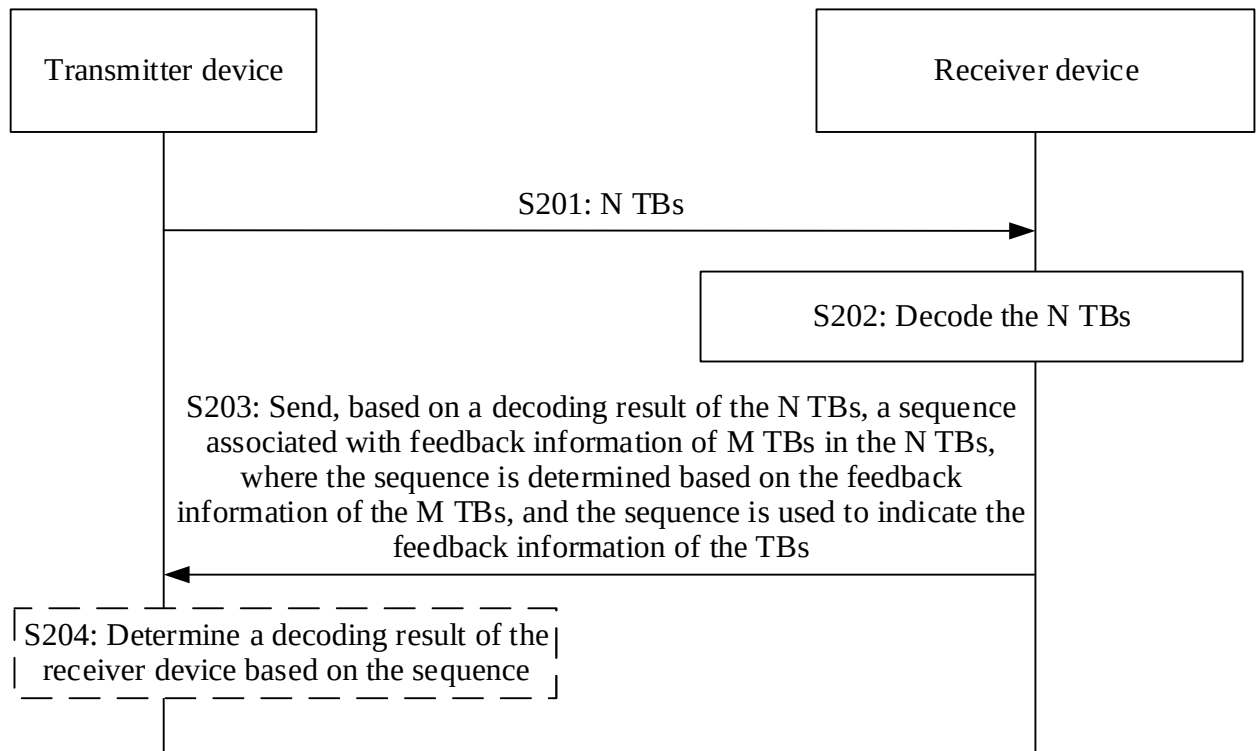


FIG. 21

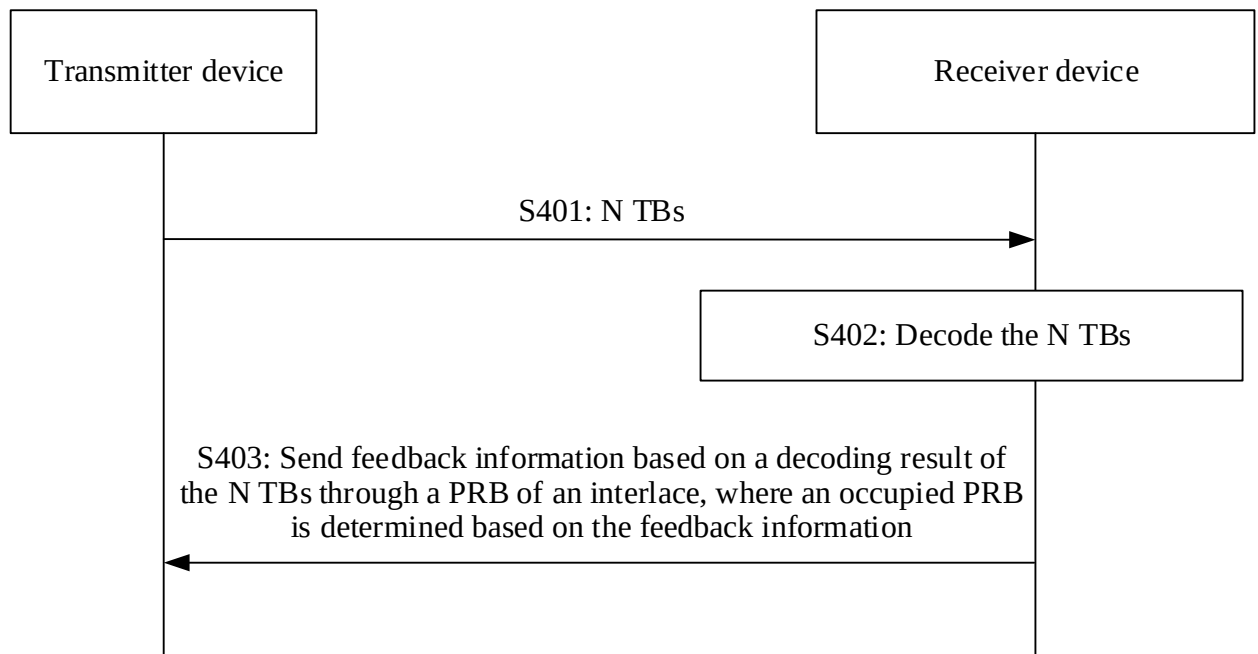


FIG. 22

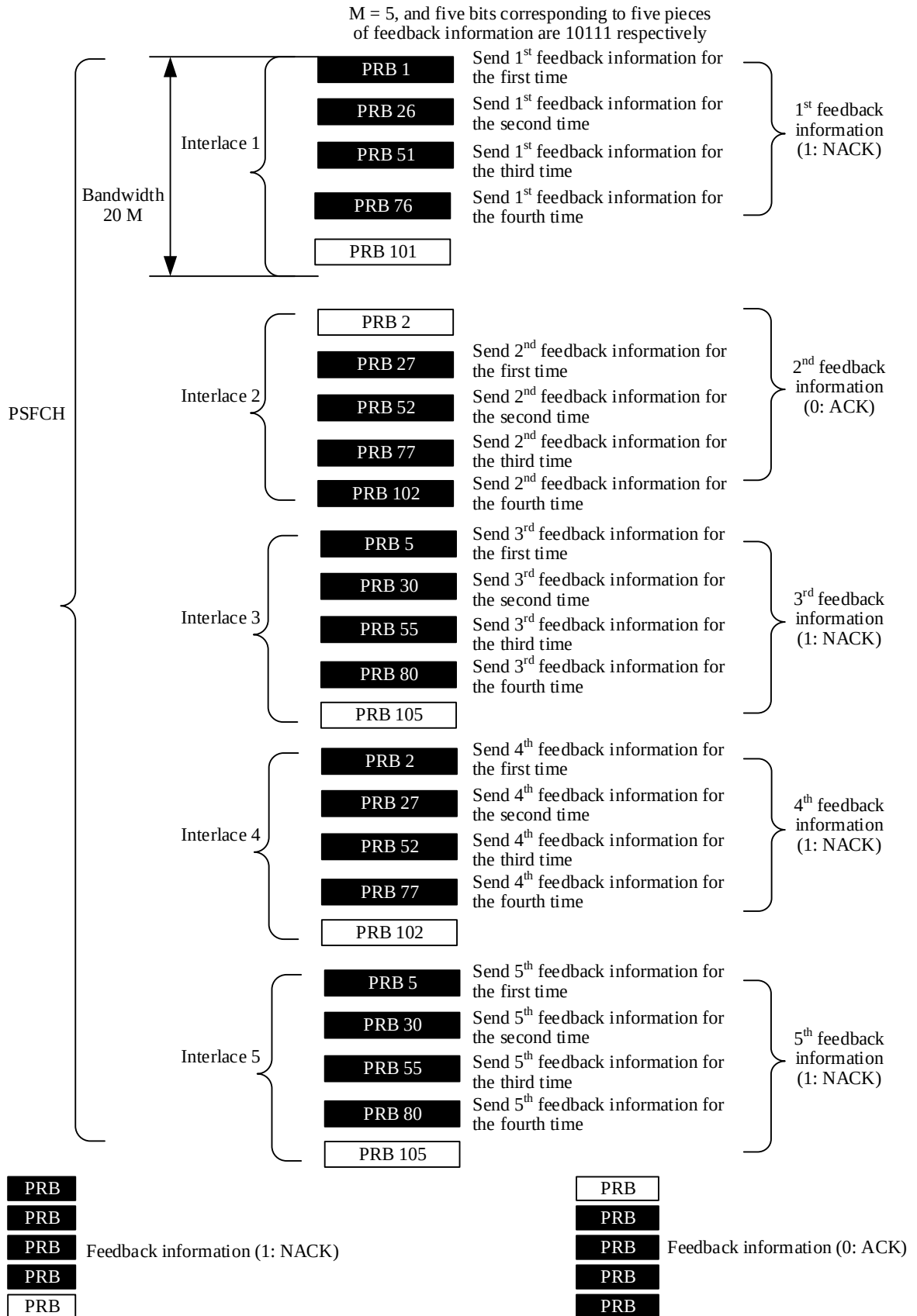


FIG. 23

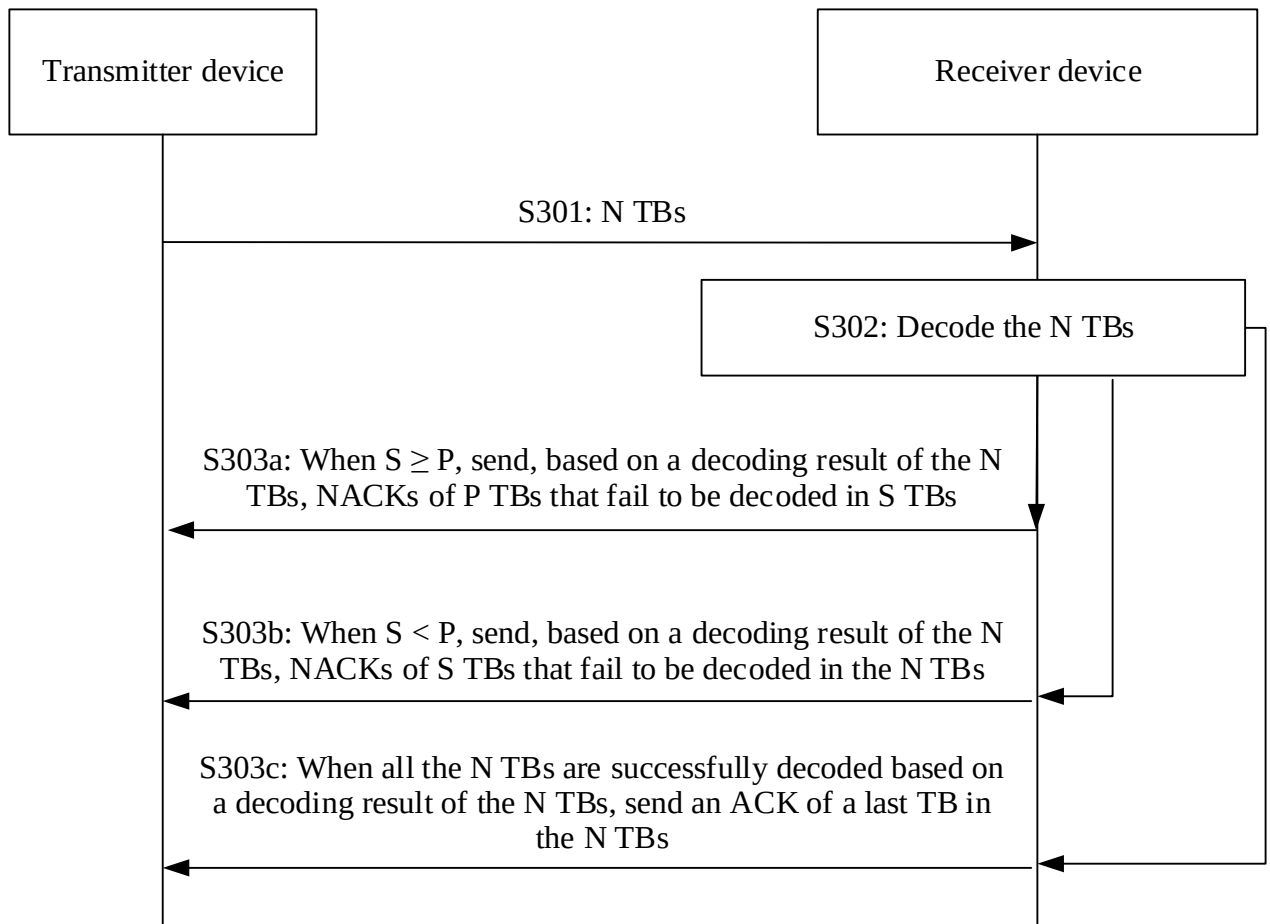


FIG. 24

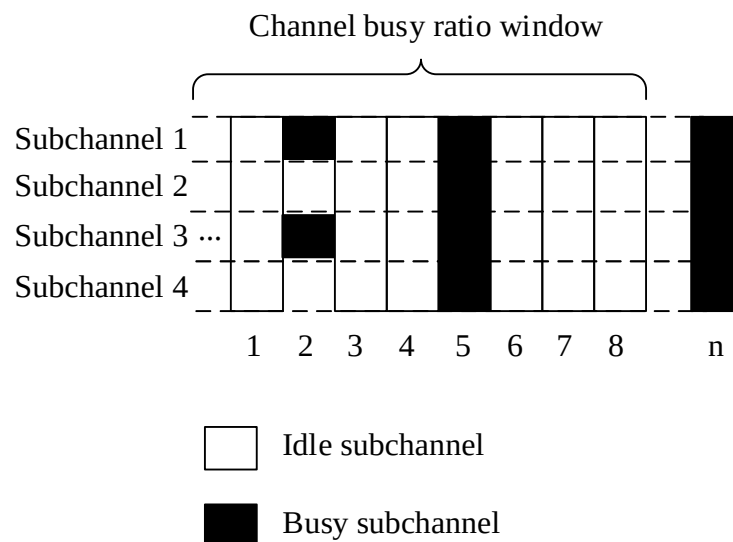


FIG. 25

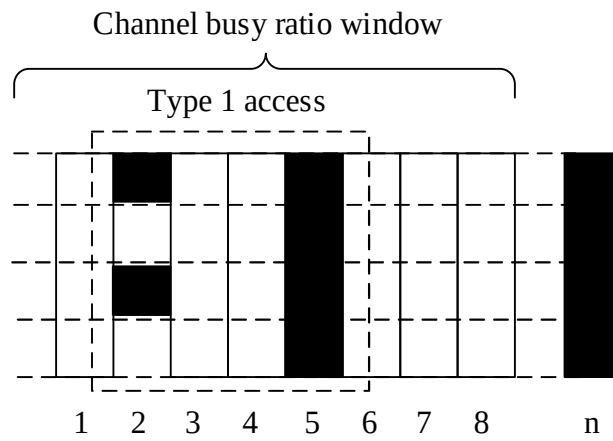


FIG. 26

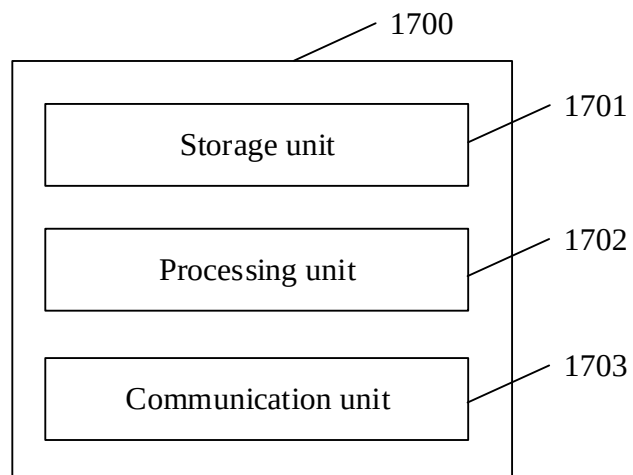


FIG. 27