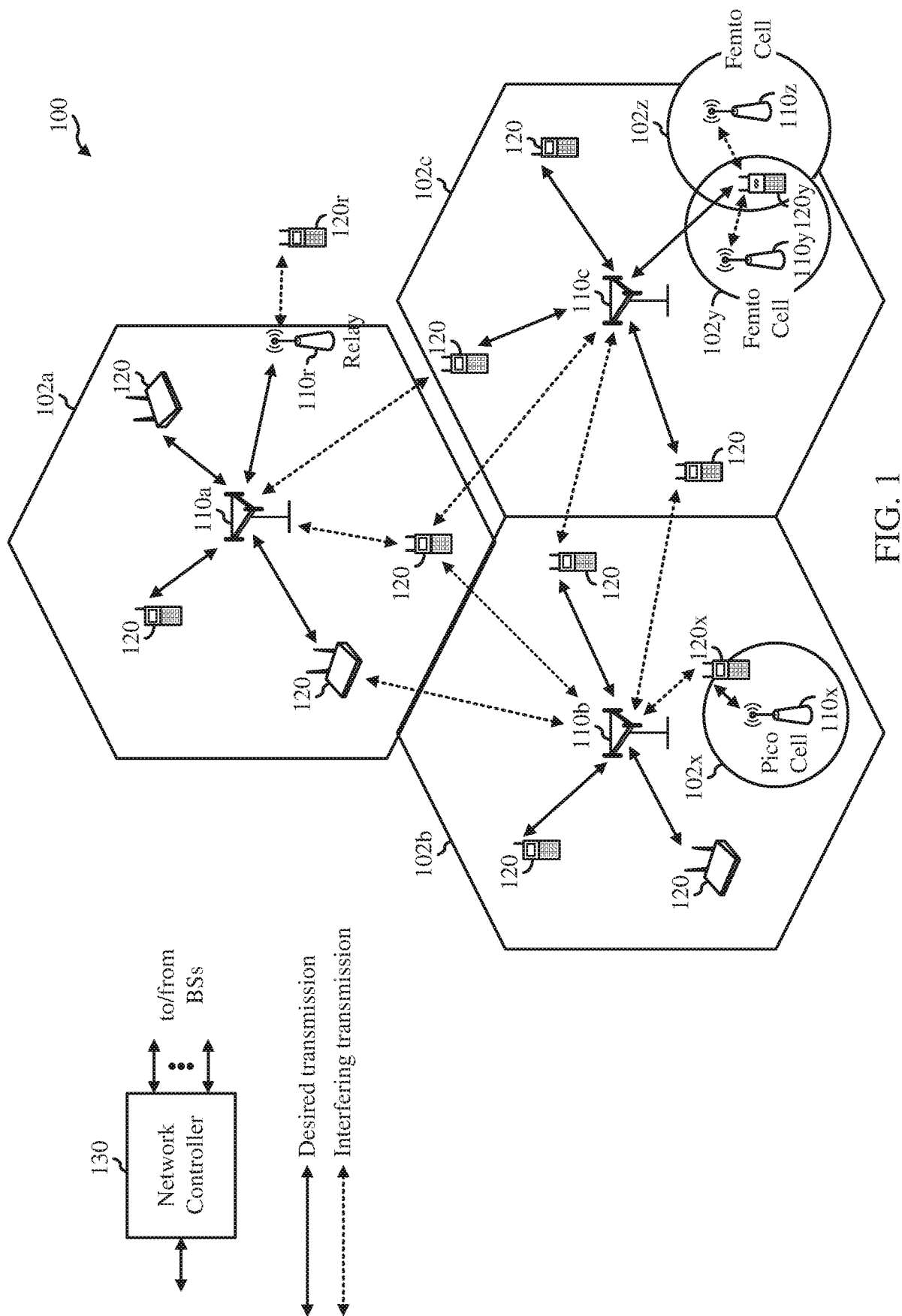




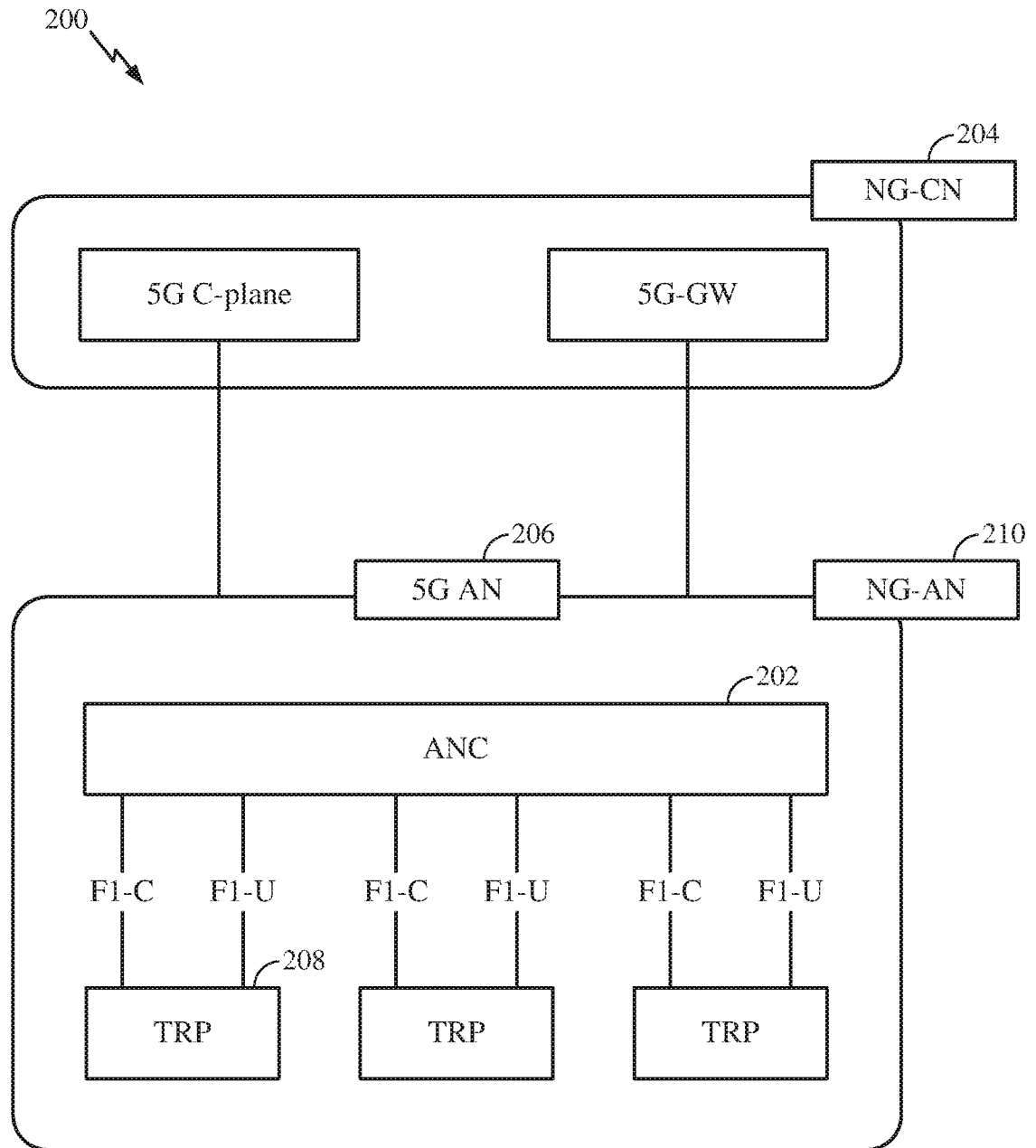


FIG. 2

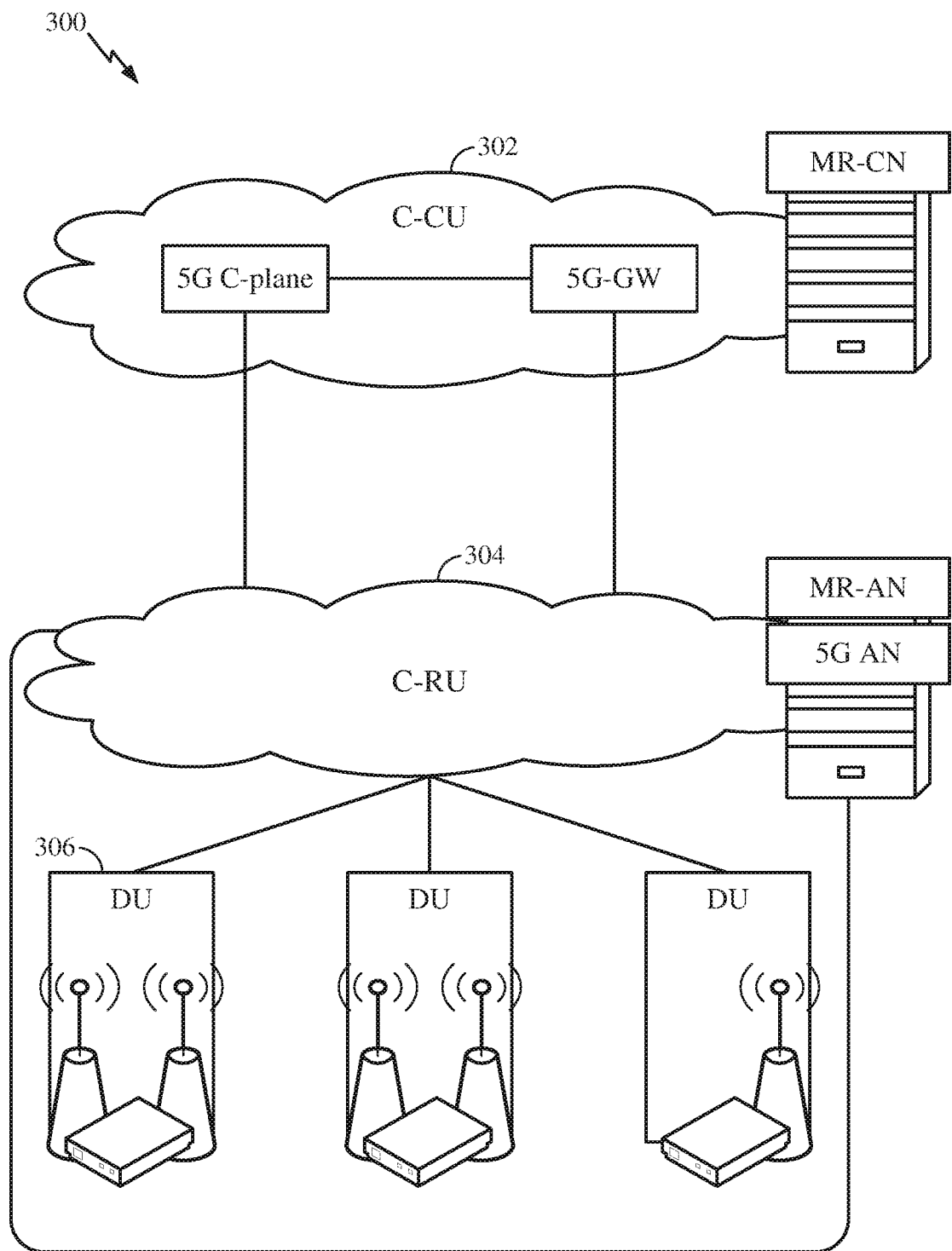
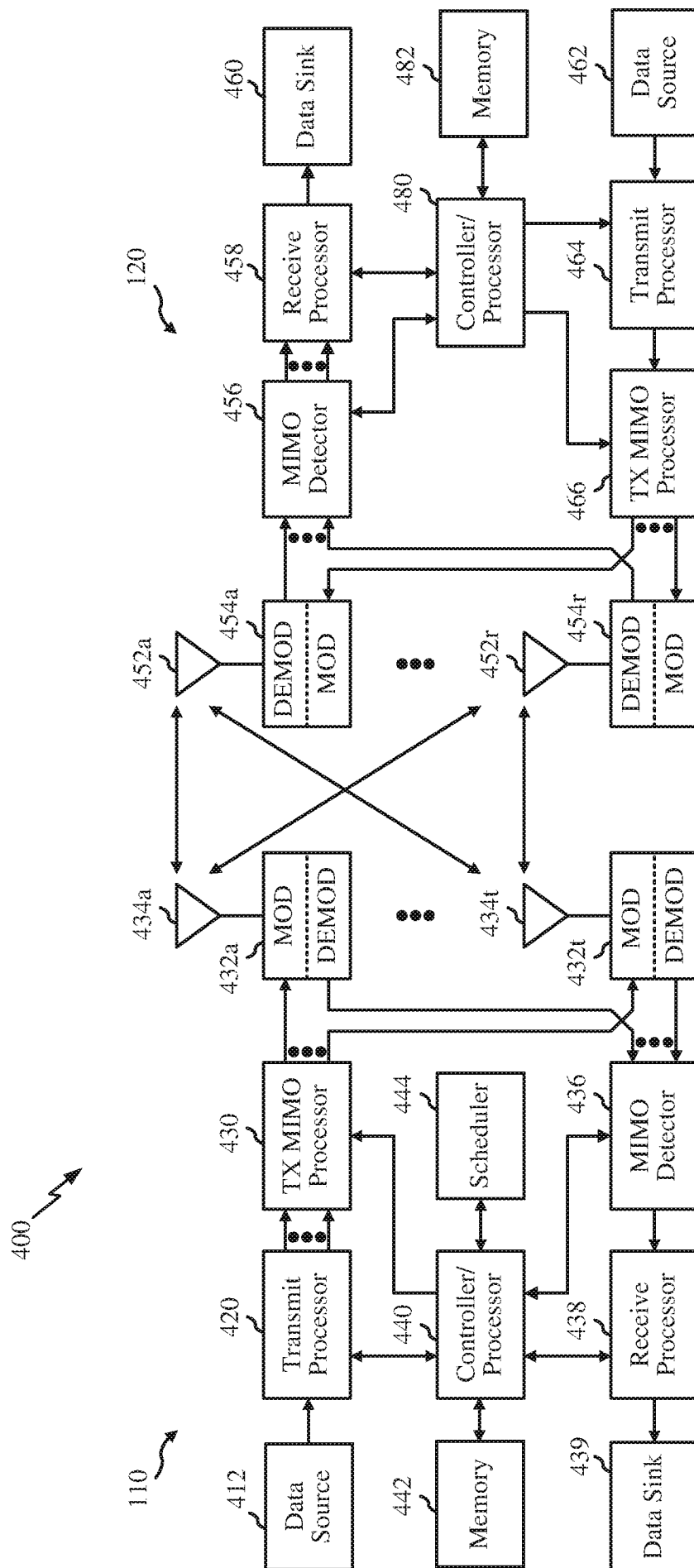


FIG. 3



4  
G  
H

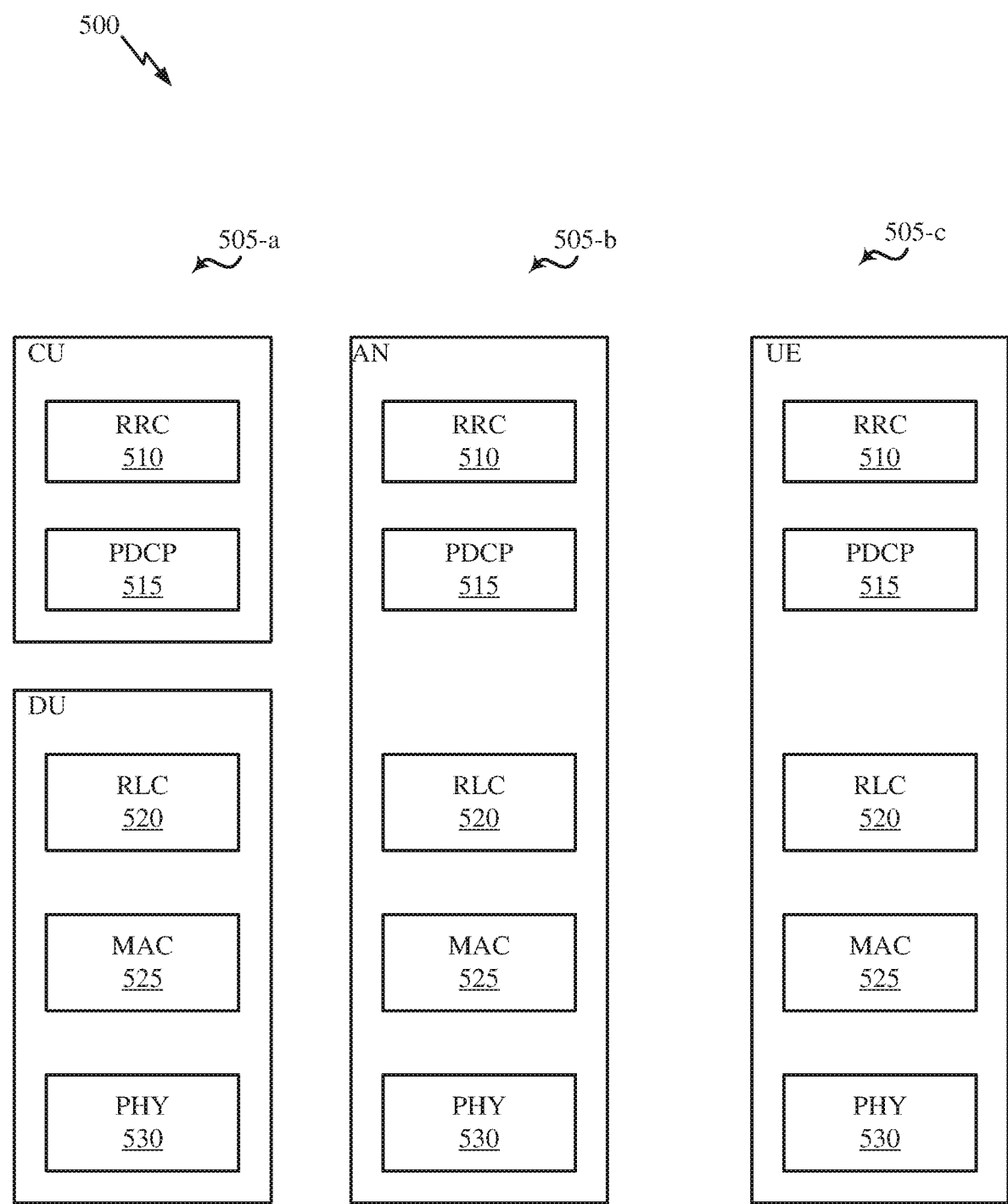


FIG. 5

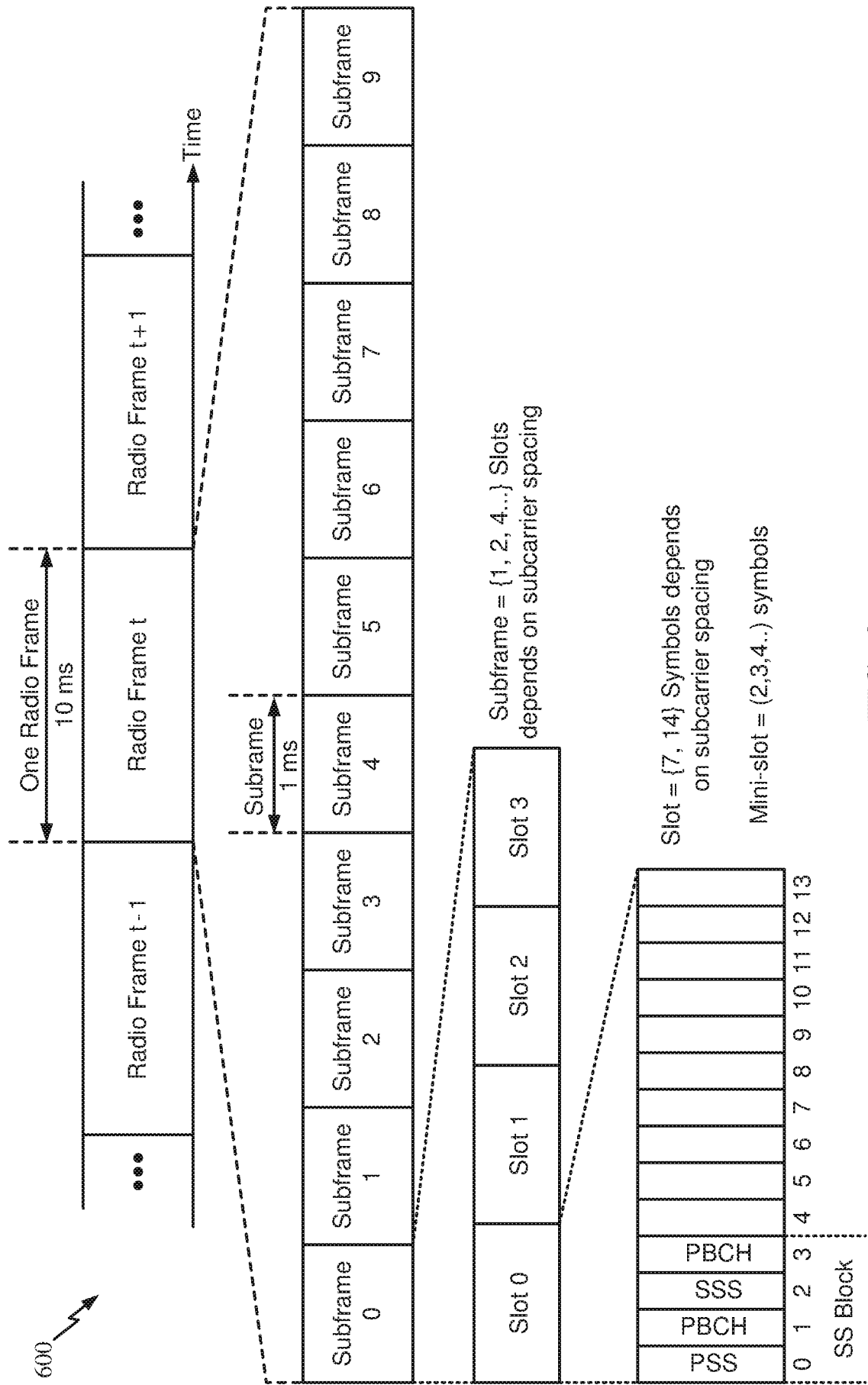


FIG. 6

7/22

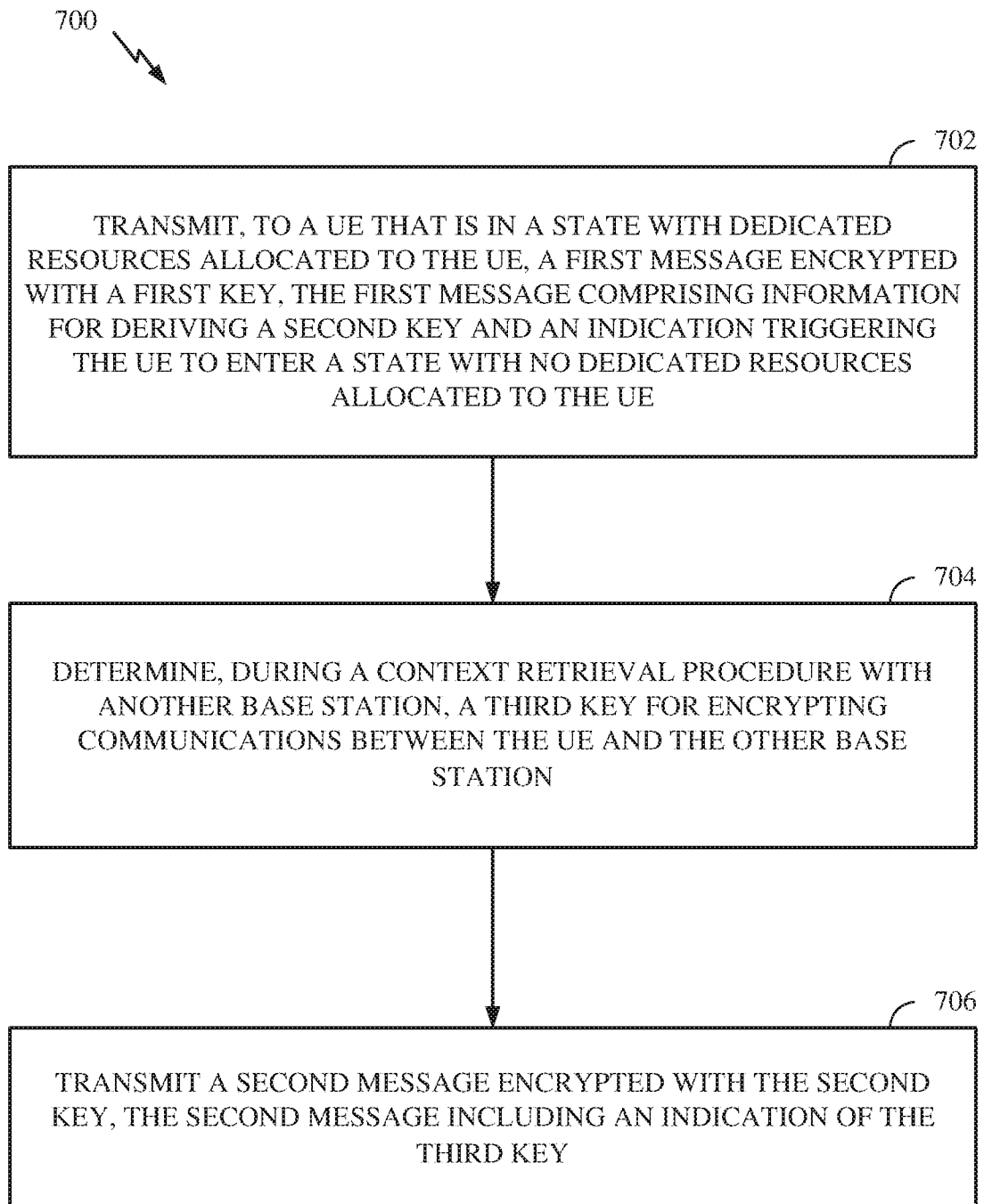


FIG. 7

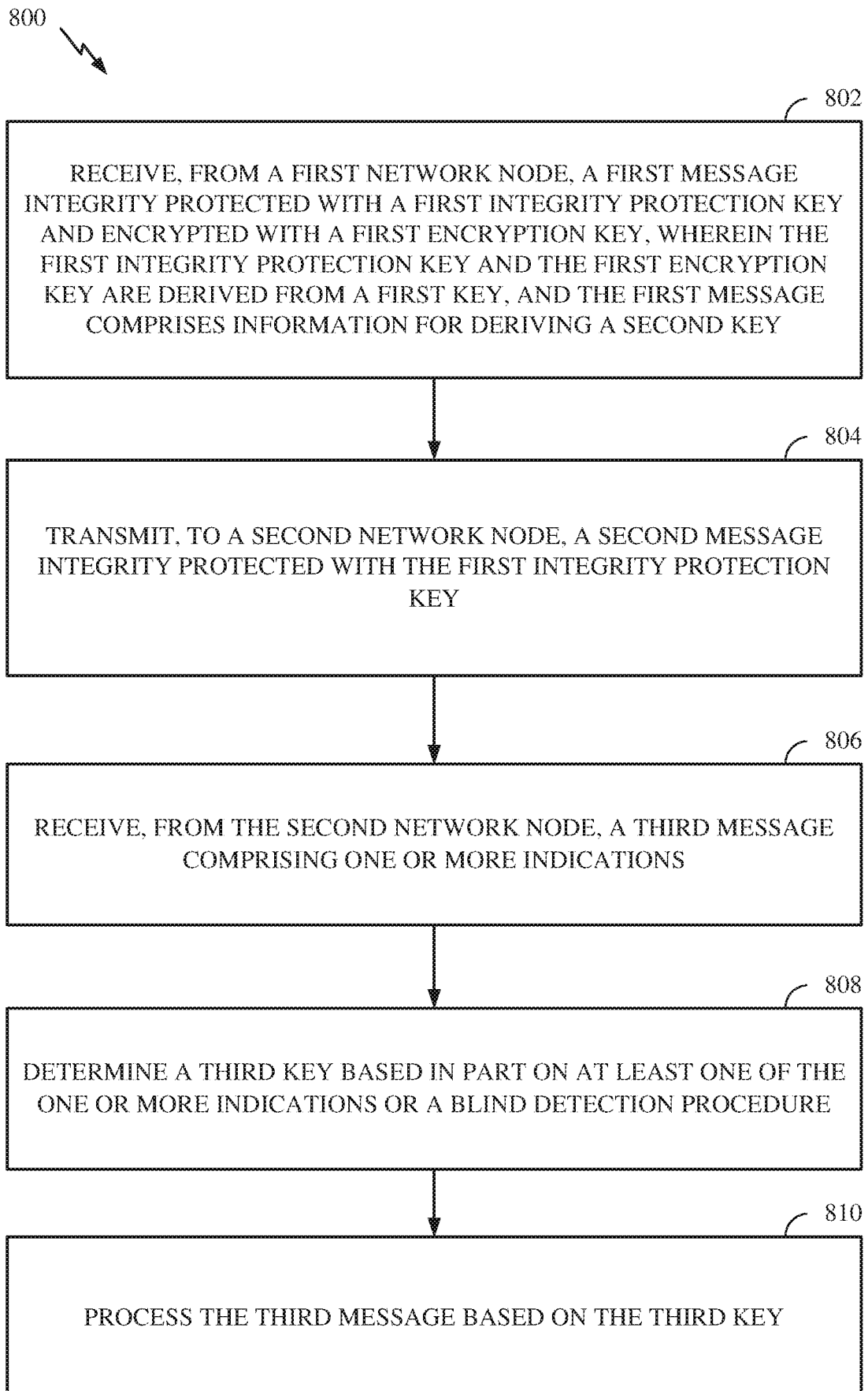


FIG. 8

9/22

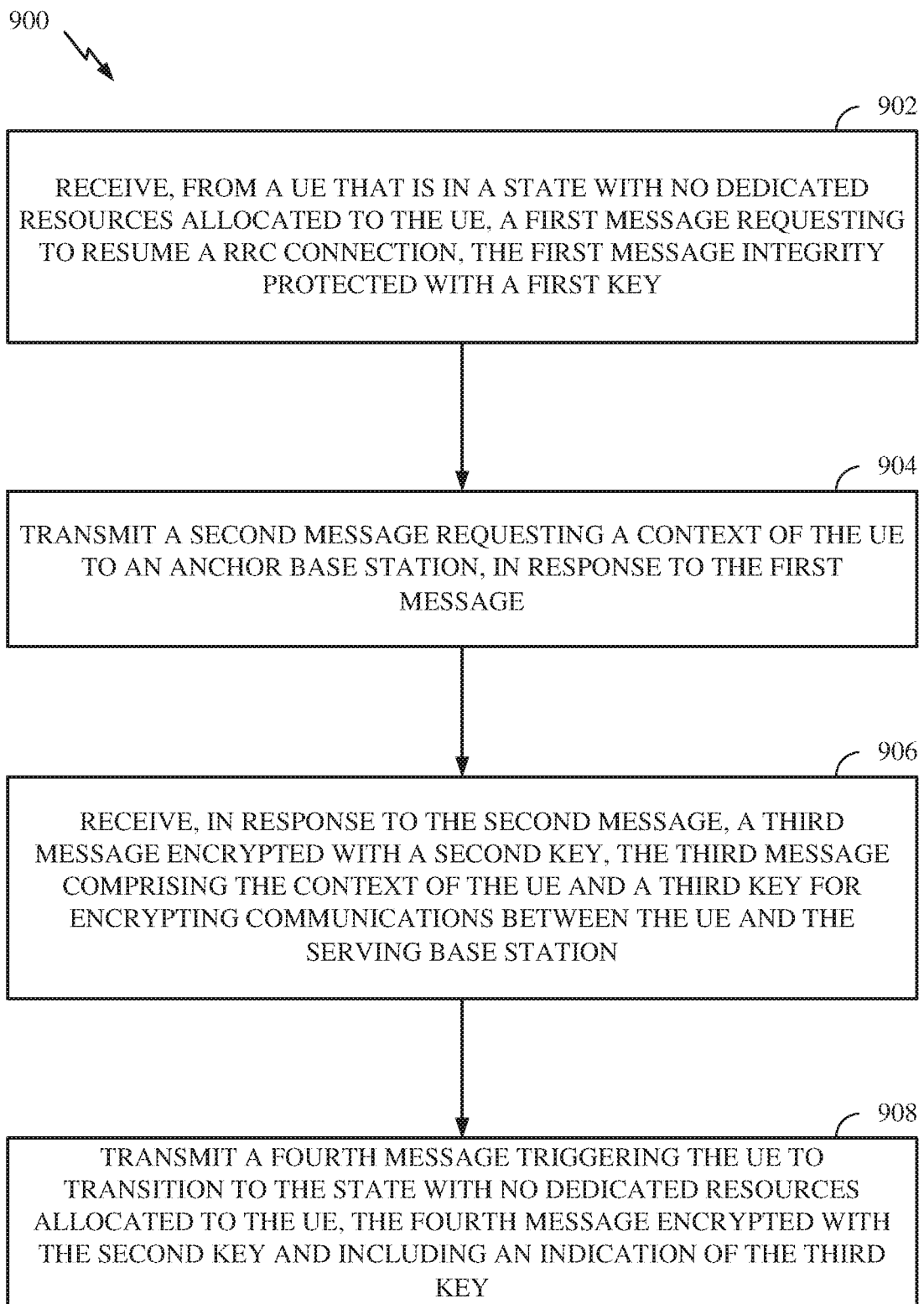


FIG. 9

10/22

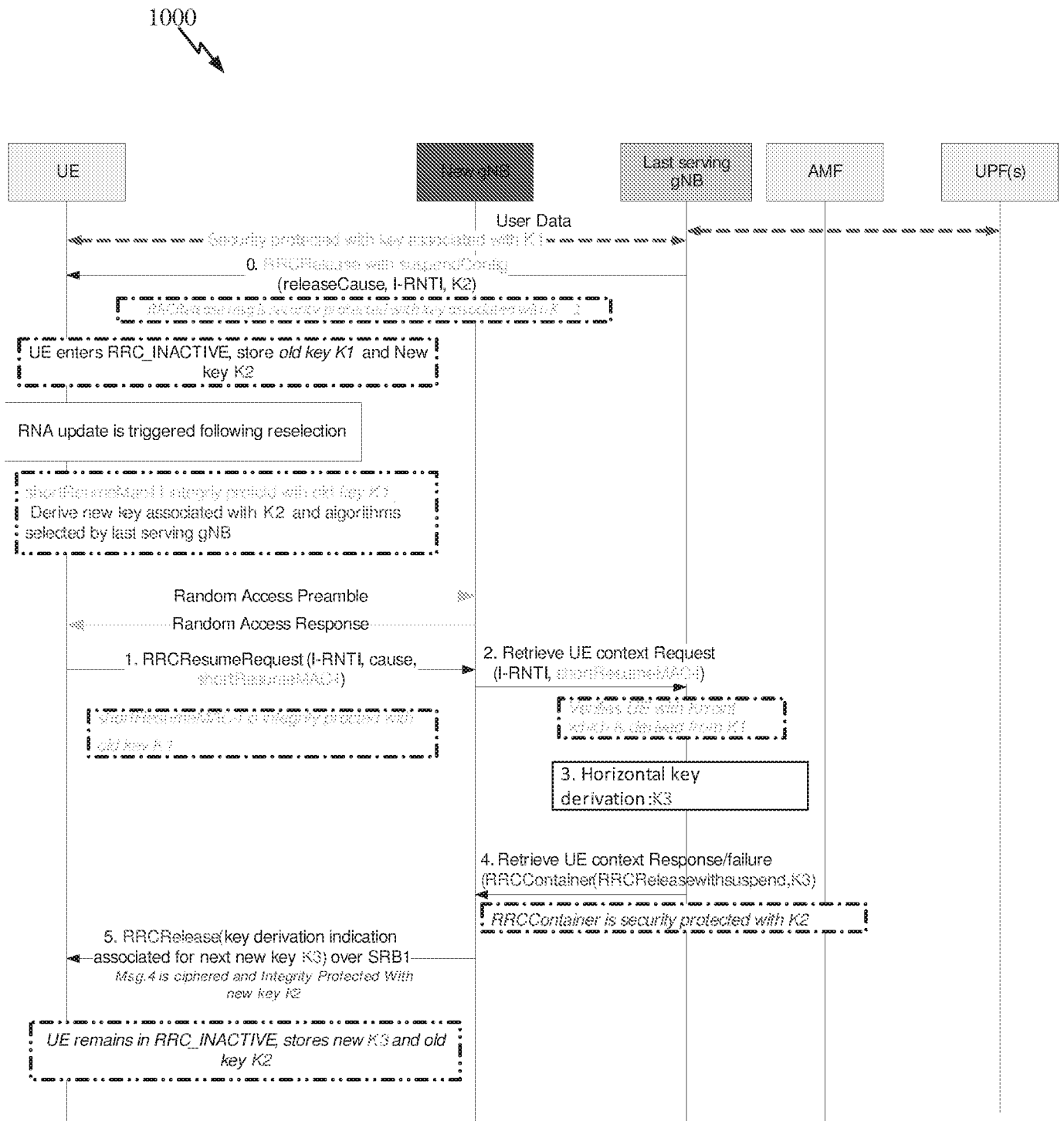


FIG. 10

1100

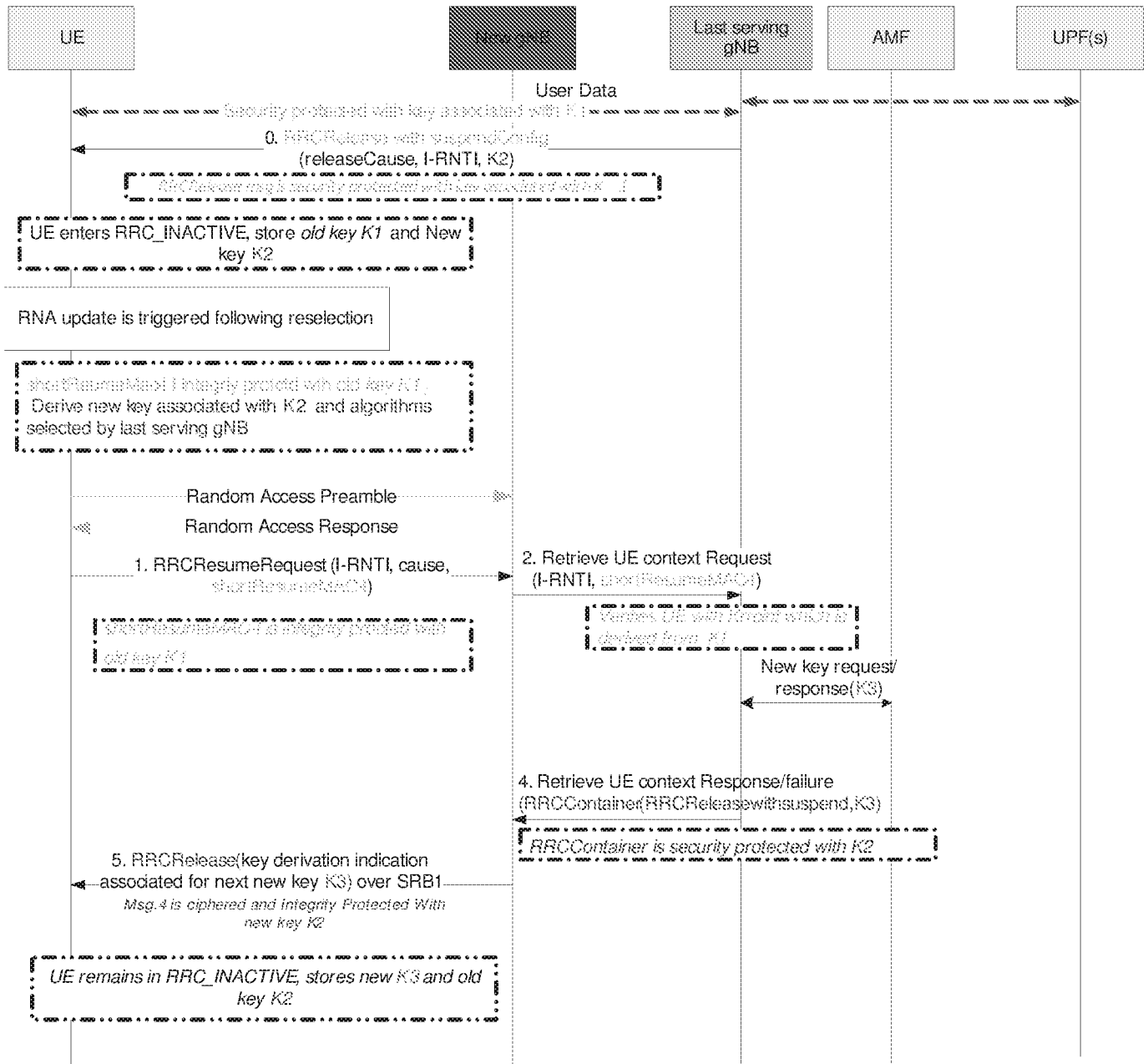


FIG. 11

12/22

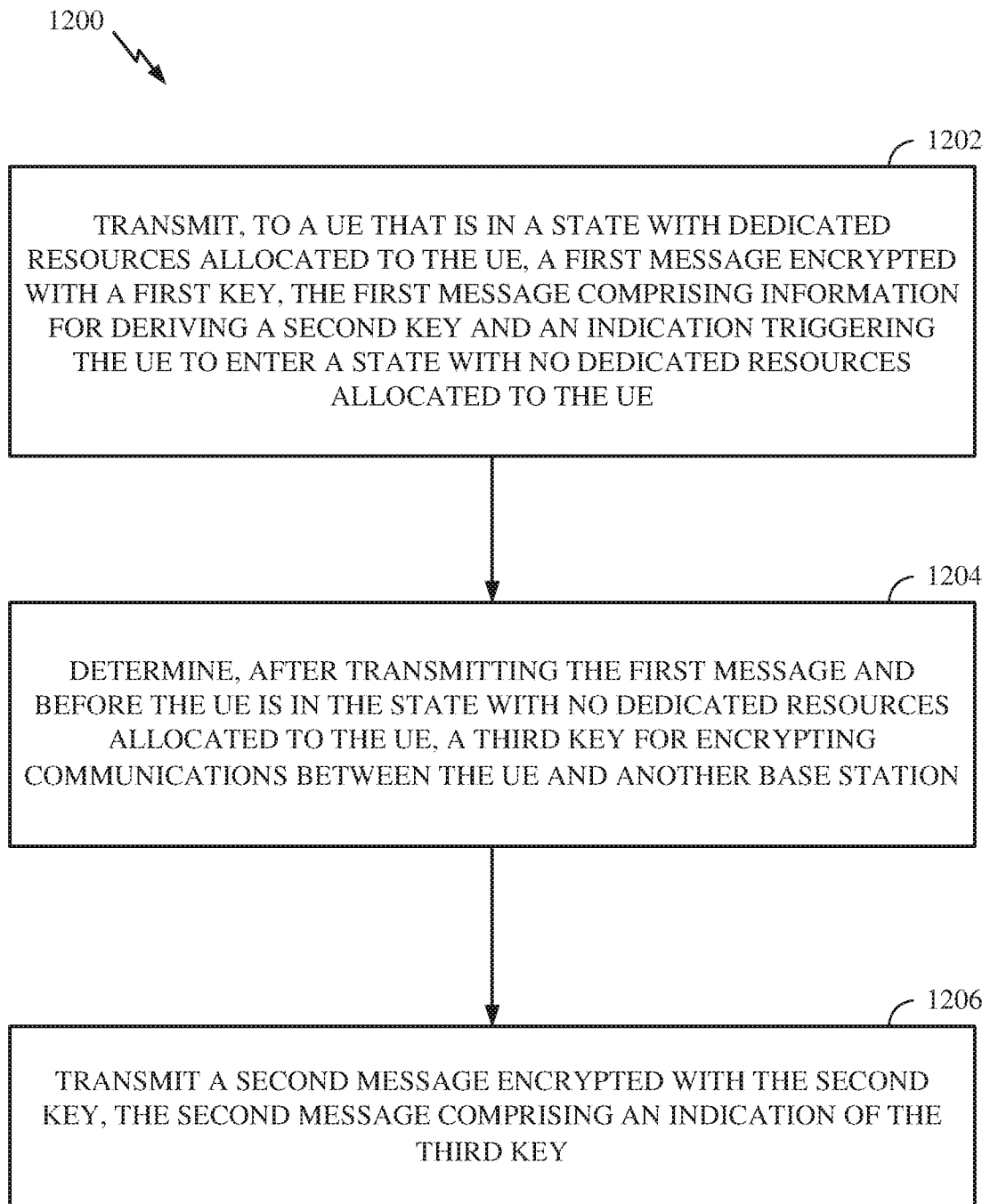


FIG. 12

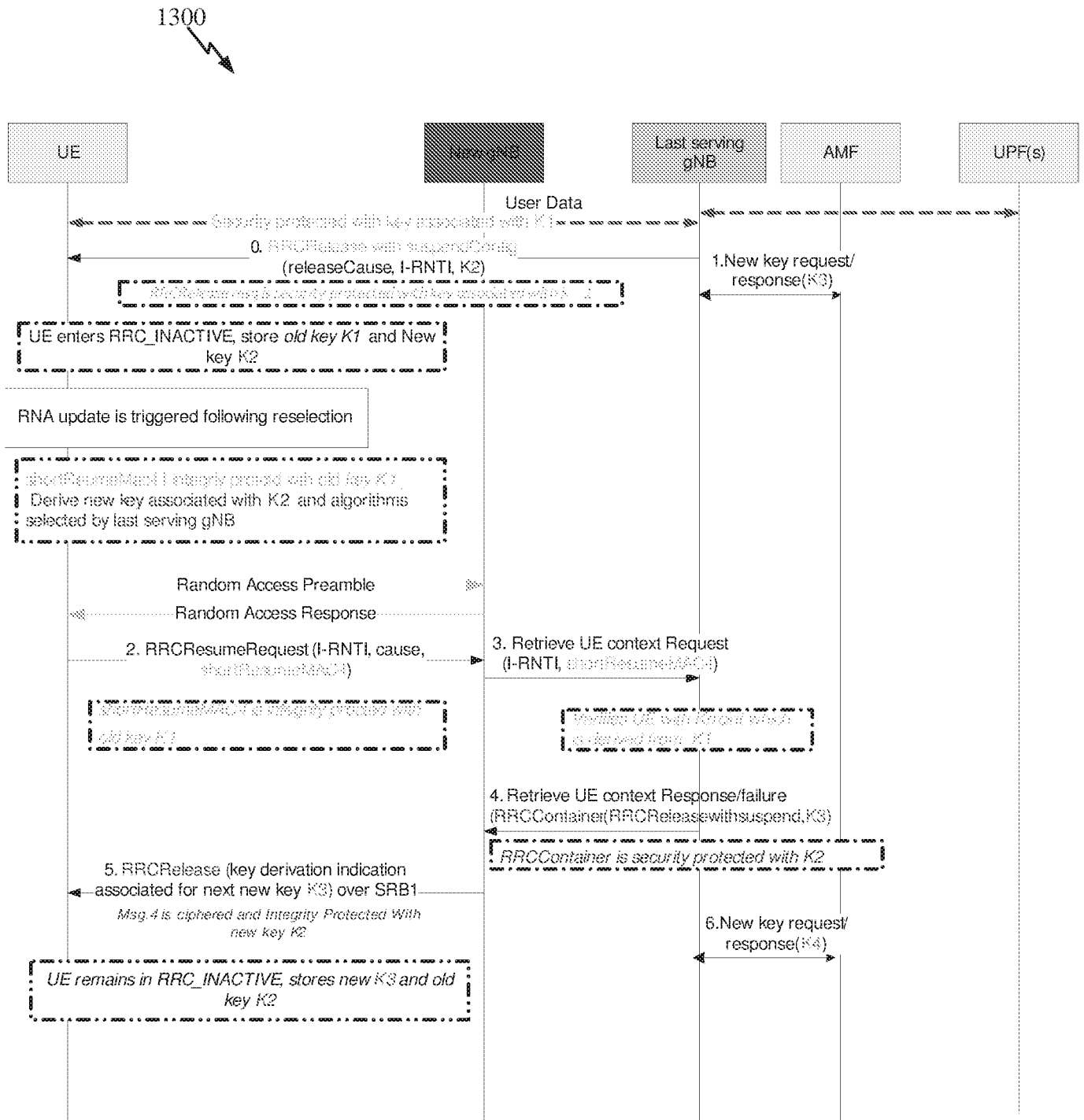


FIG. 13

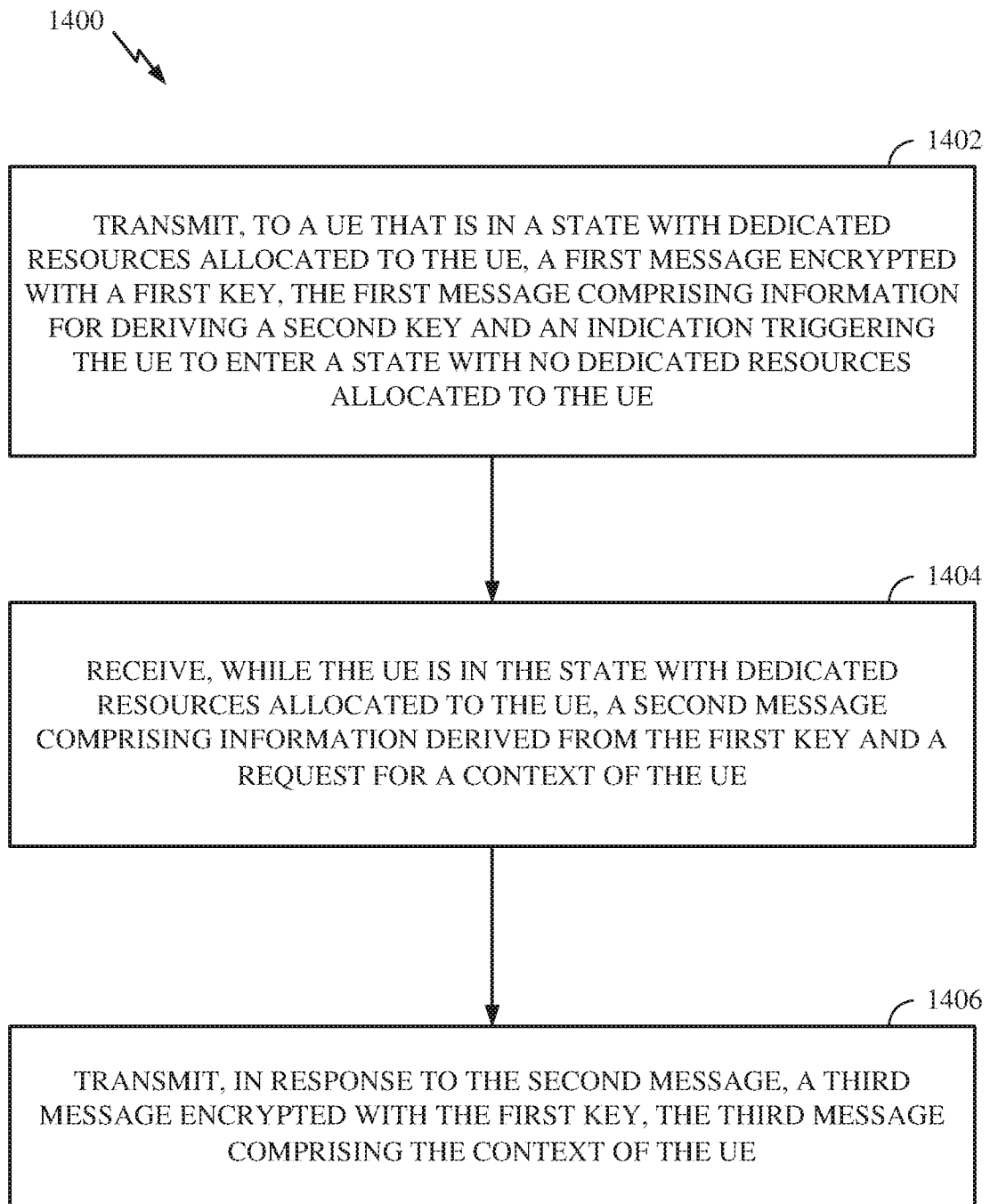


FIG. 14

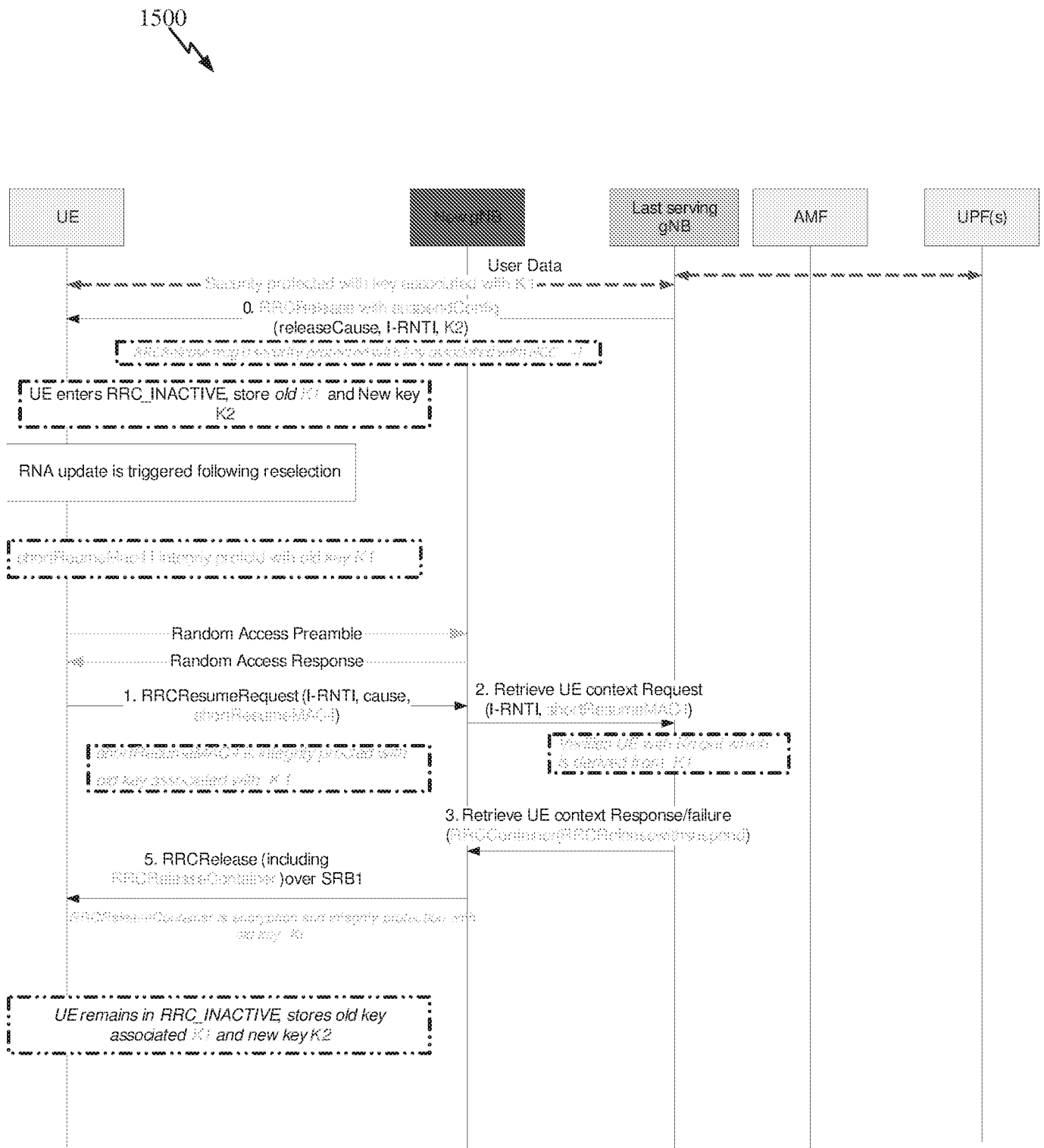


FIG. 15

1600

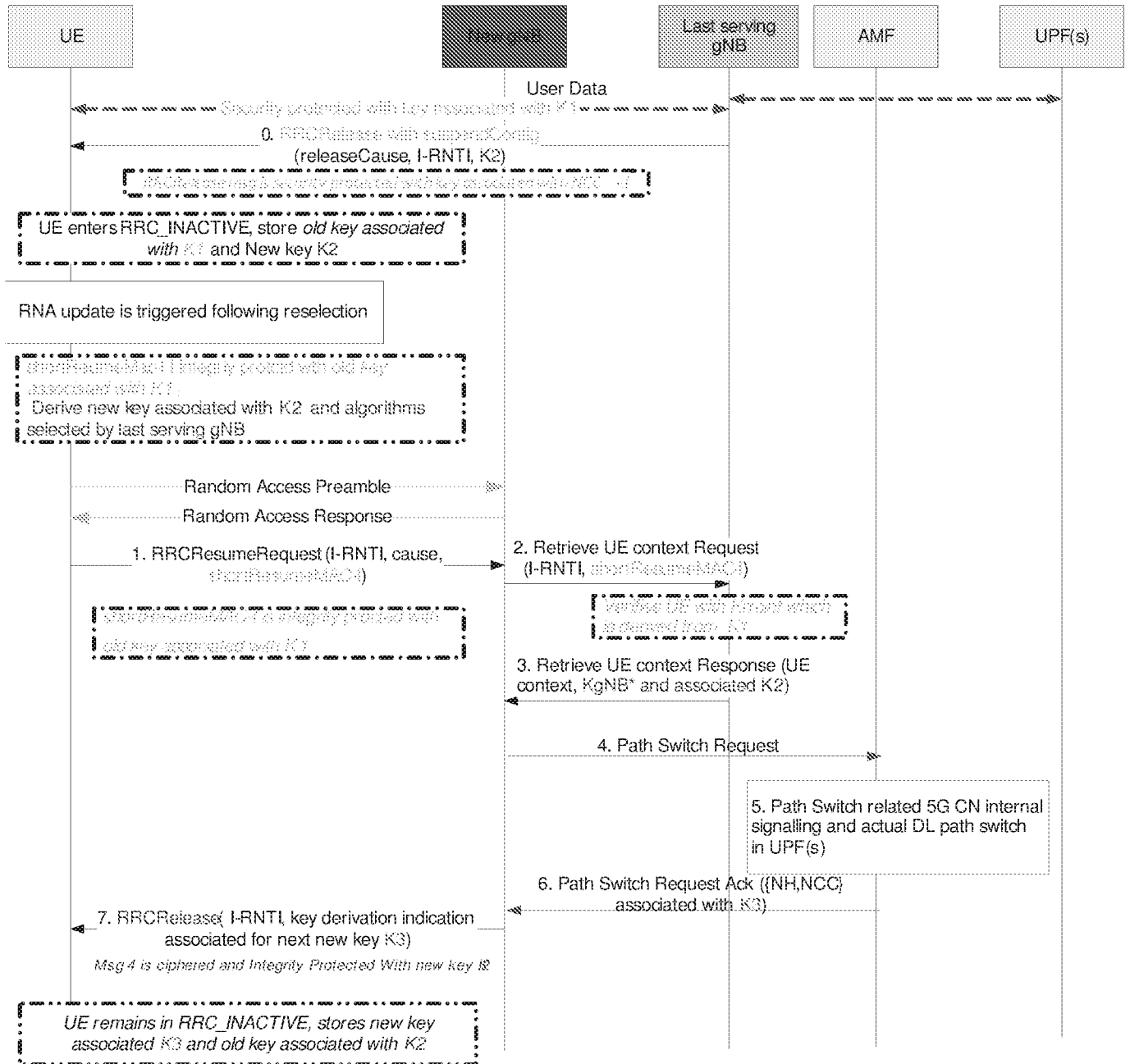


FIG. 16

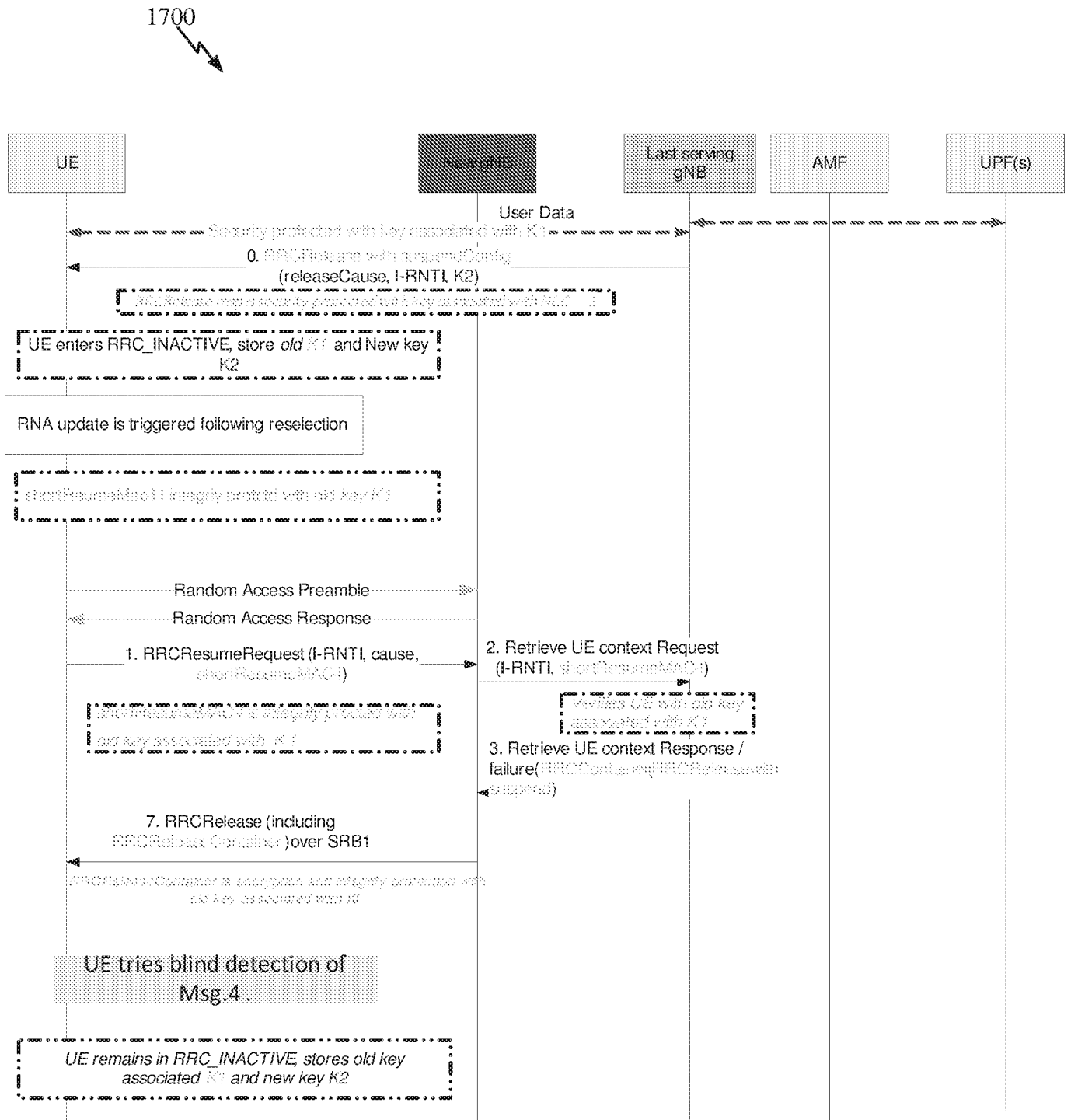


FIG. 17

Table 6.2.1-1 Values of LCID for DL-SCH

| Index         | LCID values                             |
|---------------|-----------------------------------------|
| 000000        | CCCH                                    |
| 000001–100000 | Identity of the logical channel         |
| 100001–110111 | Reserved                                |
| 111000        | Duplication Activation/Deactivation     |
| 111001        | SCell Activation/Deactivation (4 octet) |
| 111010        | SCell Activation/Deactivation (1 octet) |
| 111011        | Long DRX Command                        |
| 111100        | DRX Command                             |
| 111101        | Timing Advance Command                  |
| 111110        | UE Contention Resolution Identity       |
| 111111        | Padding                                 |

| Index  | LCID values           |
|--------|-----------------------|
| 110111 | Key change indication |

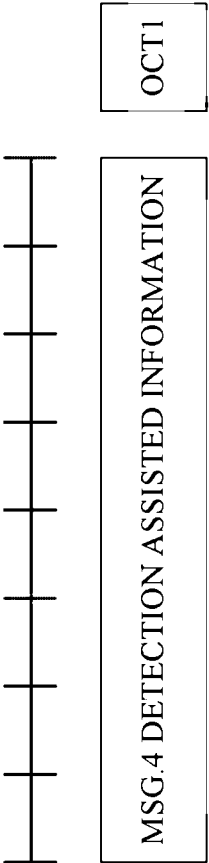


FIG. 18

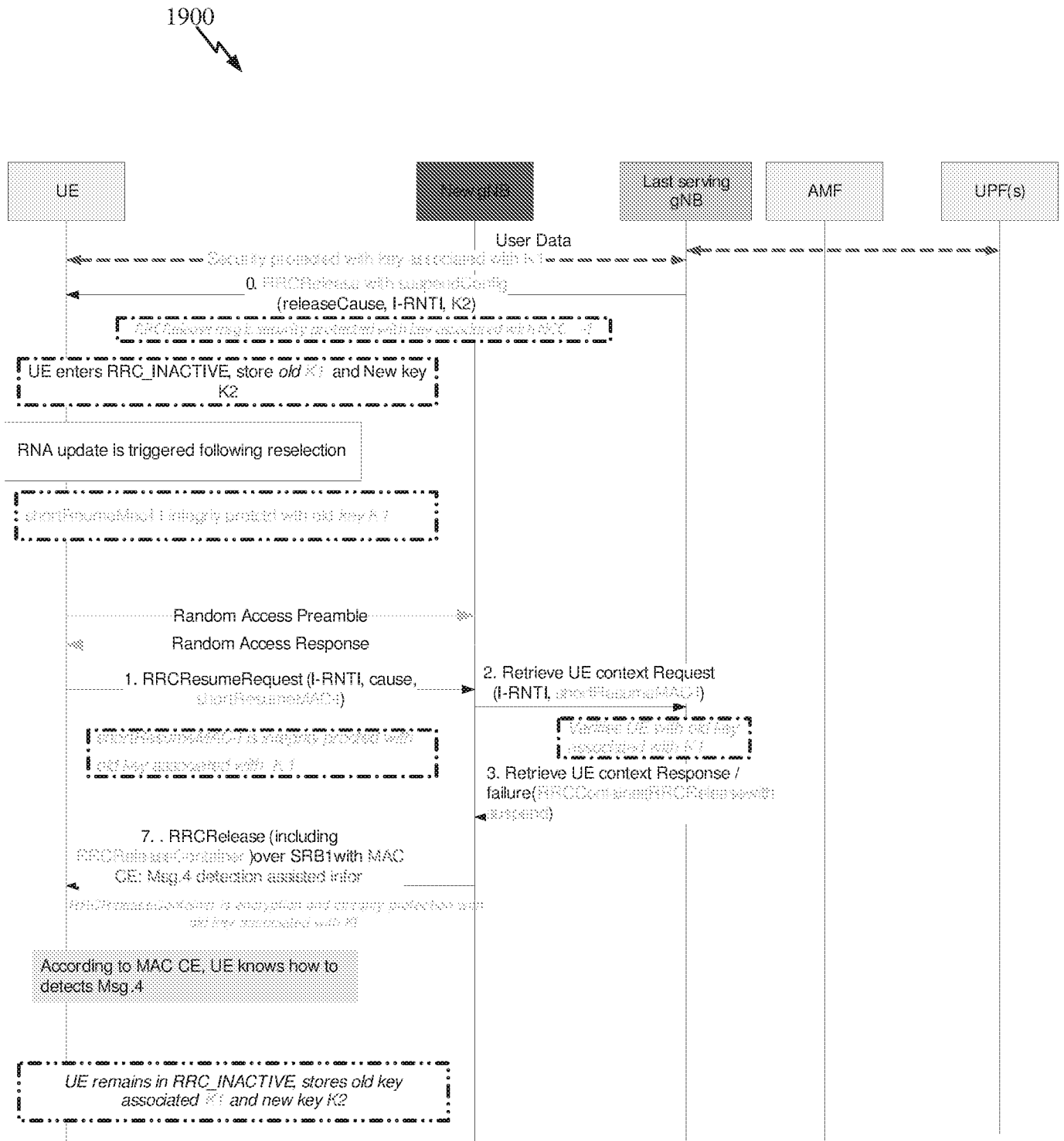
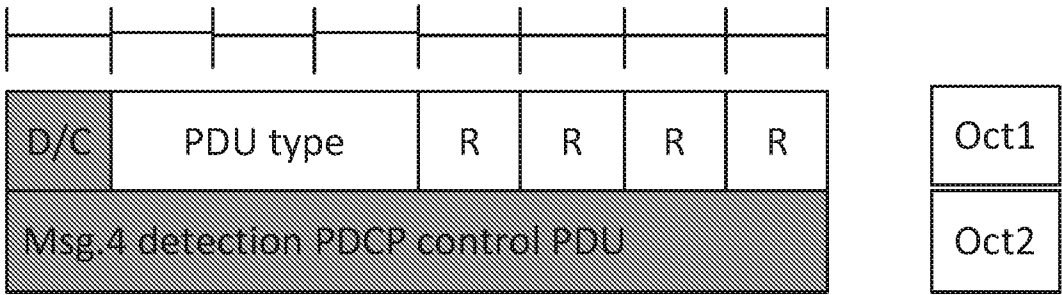


FIG. 19



Control Plane Msg.4 detection PDCP control PDU

FIG. 20

| Options  | How Anchor node derives new key upon context retrieval (K3) | Msg.4 security protected by old key(K1 or K2) | Msg.4 security key input parameter: ARFCN/PCI are of (anchor node or serving node) | How to signal to UE (blind detection/MAC CE/PDCP Control PDU/PDCP count) |
|----------|-------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>A</b> | Horizontal key derivation                                   | New key(K2)                                   | Anchor node                                                                        | Blind detection                                                          |
| <b>B</b> | Horizontal key derivation                                   | New key(K2)                                   | Serving node                                                                       | No need to signal to UE how to detect msg.4.                             |
| <b>C</b> | Horizontal key derivation                                   | New key(K2)                                   | Anchor node                                                                        | MAC CE/PDCP control PDU                                                  |
| <b>D</b> | No key derivation                                           | Old key(K1)                                   | Anchor node                                                                        | Blind detection; MAC CE/PDCP control PDU                                 |

FIG. 21

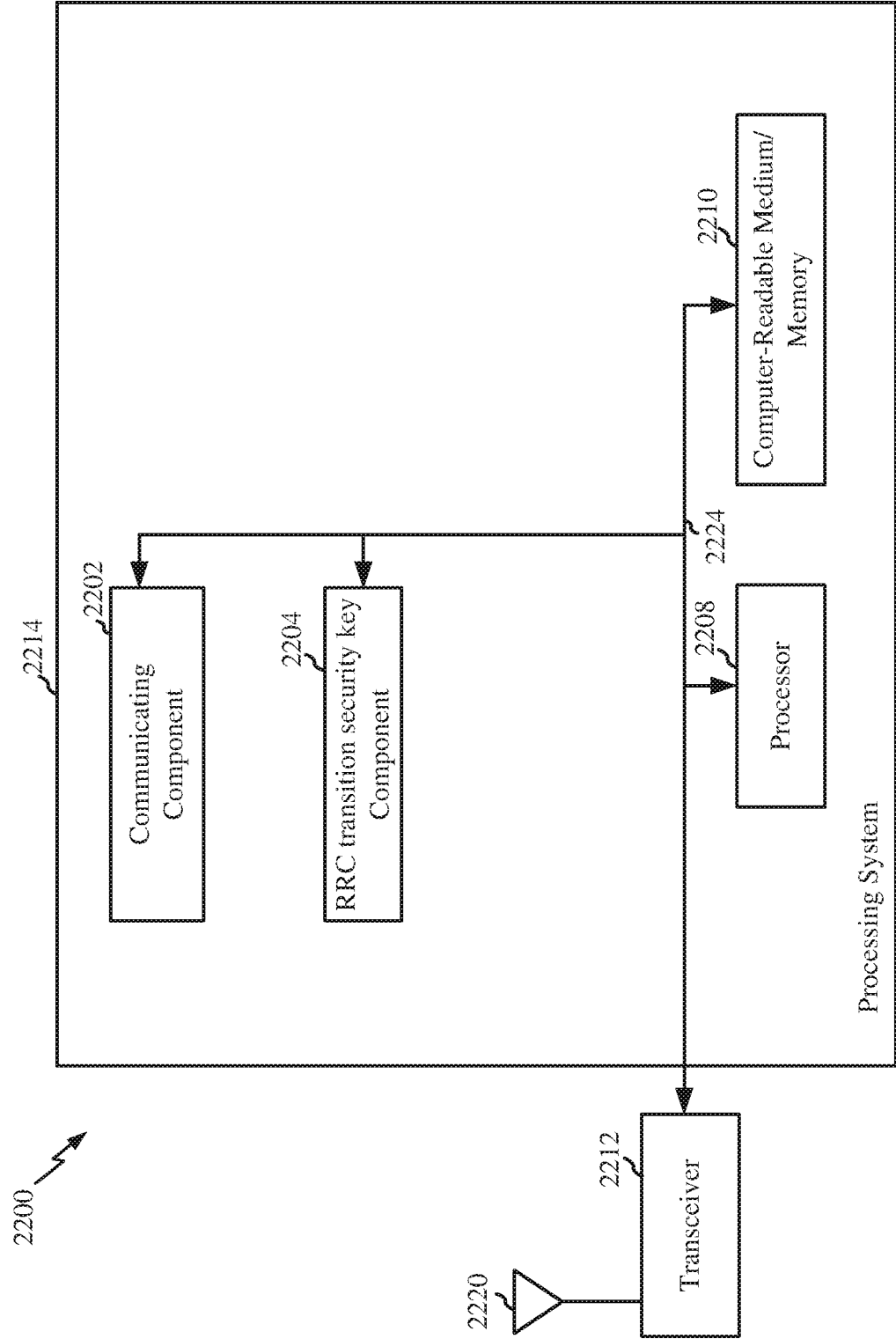


FIG. 22