

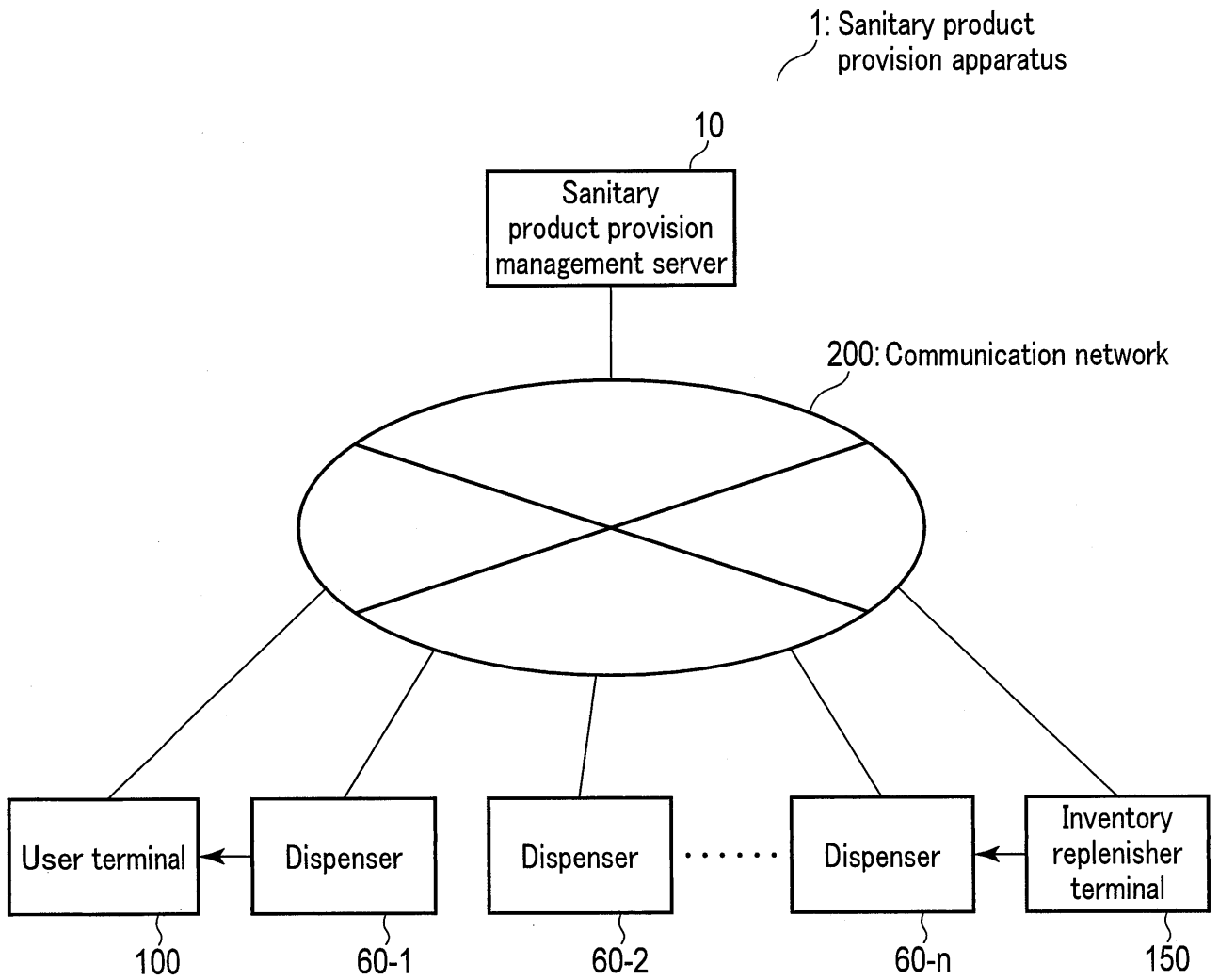


FIG. 1

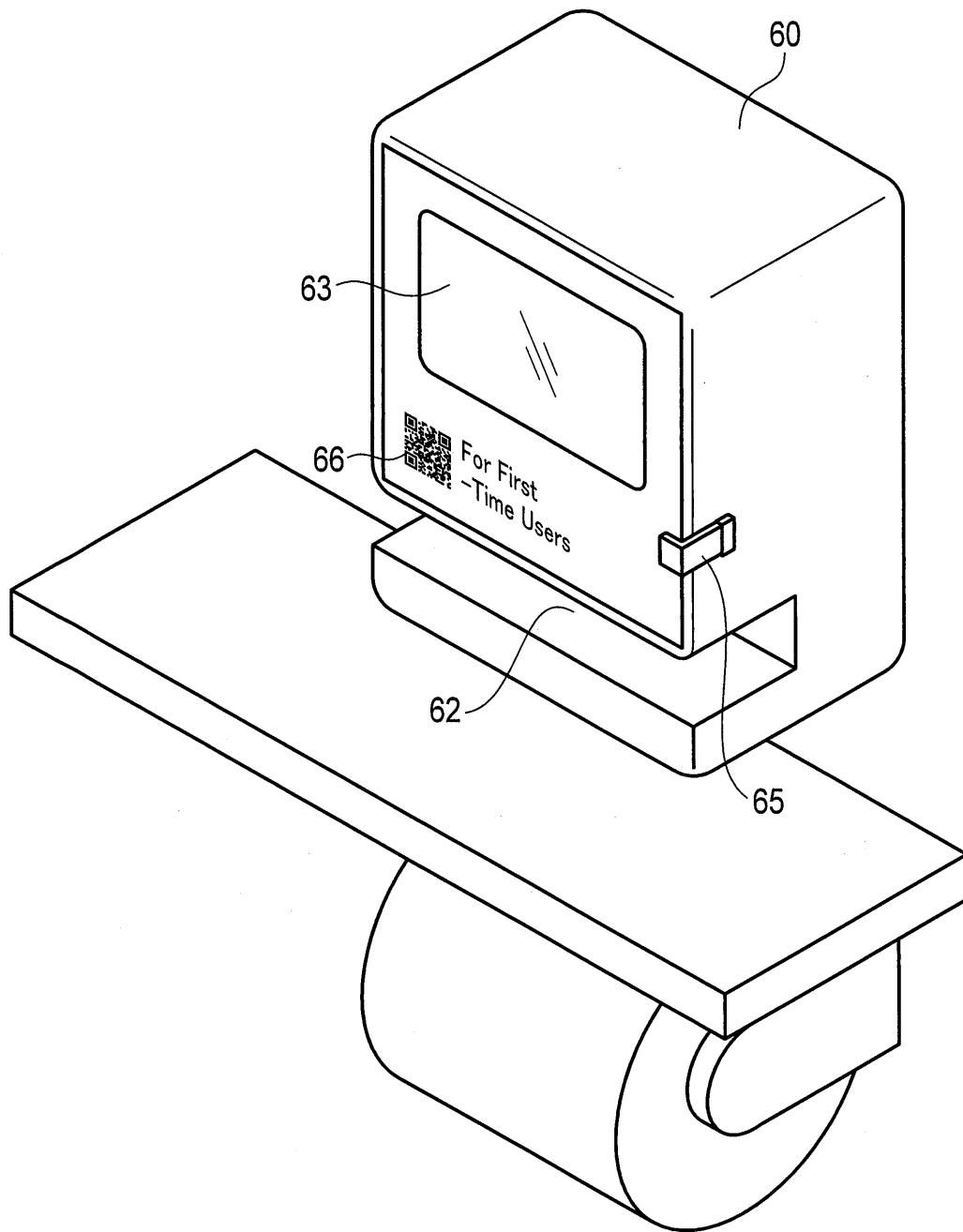


FIG. 2

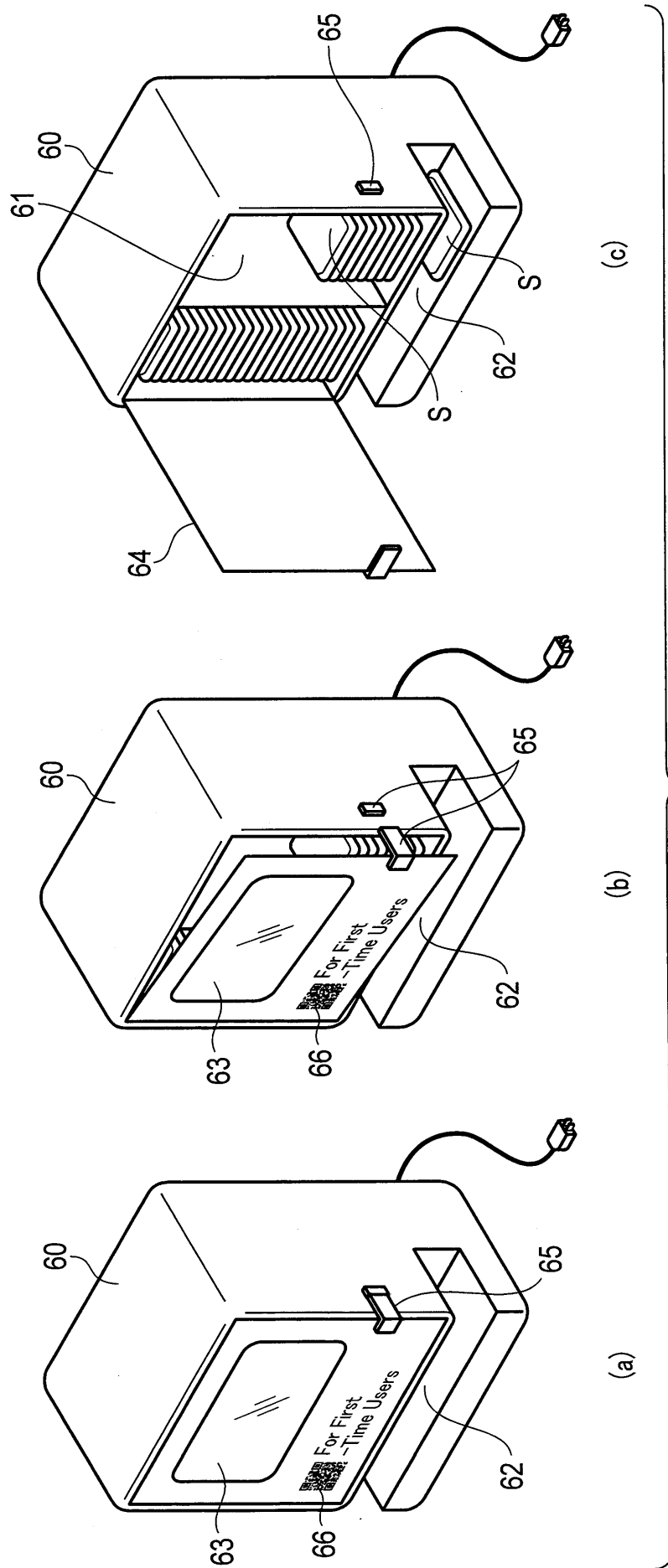


FIG. 3

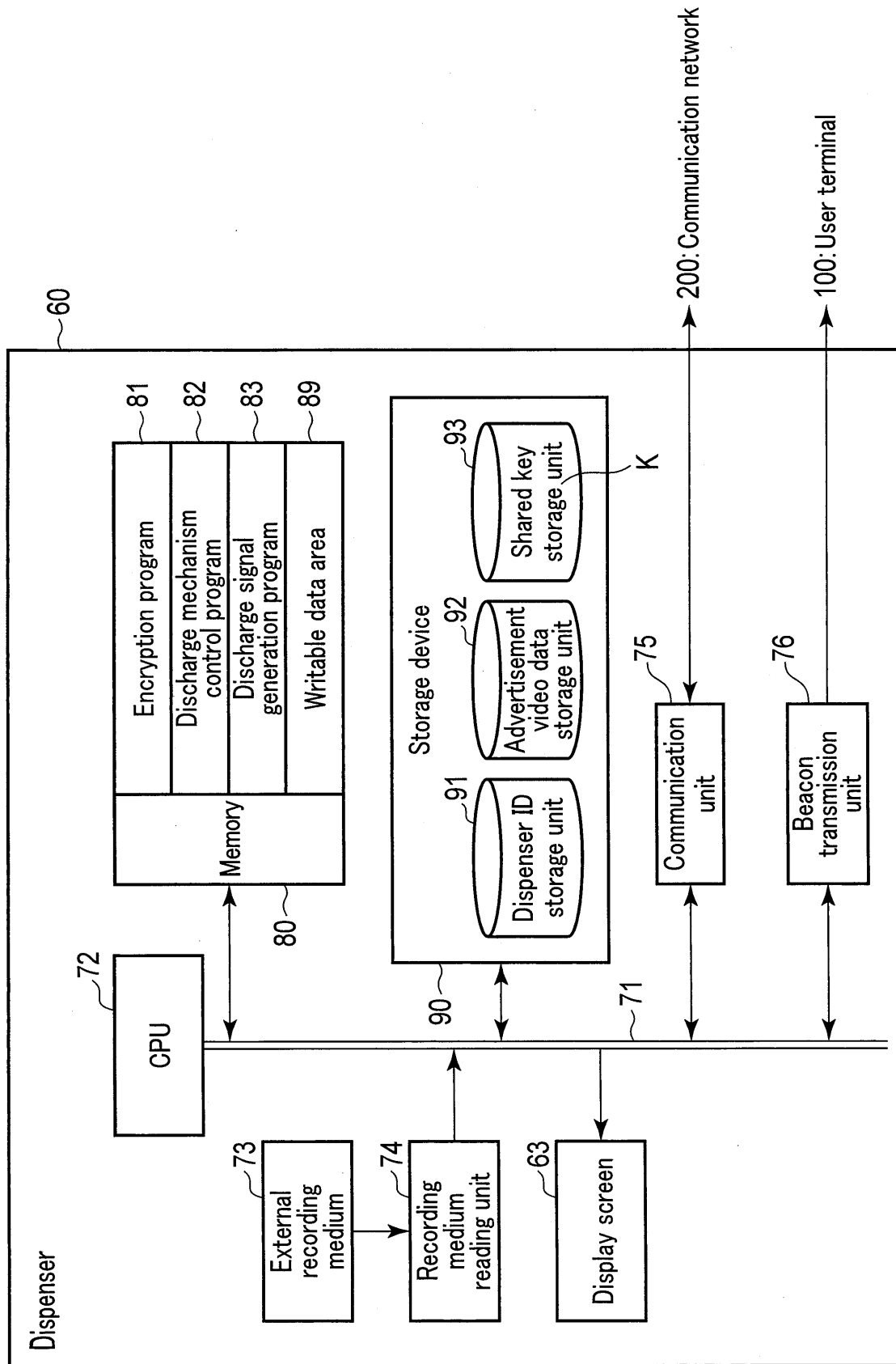


FIG. 4

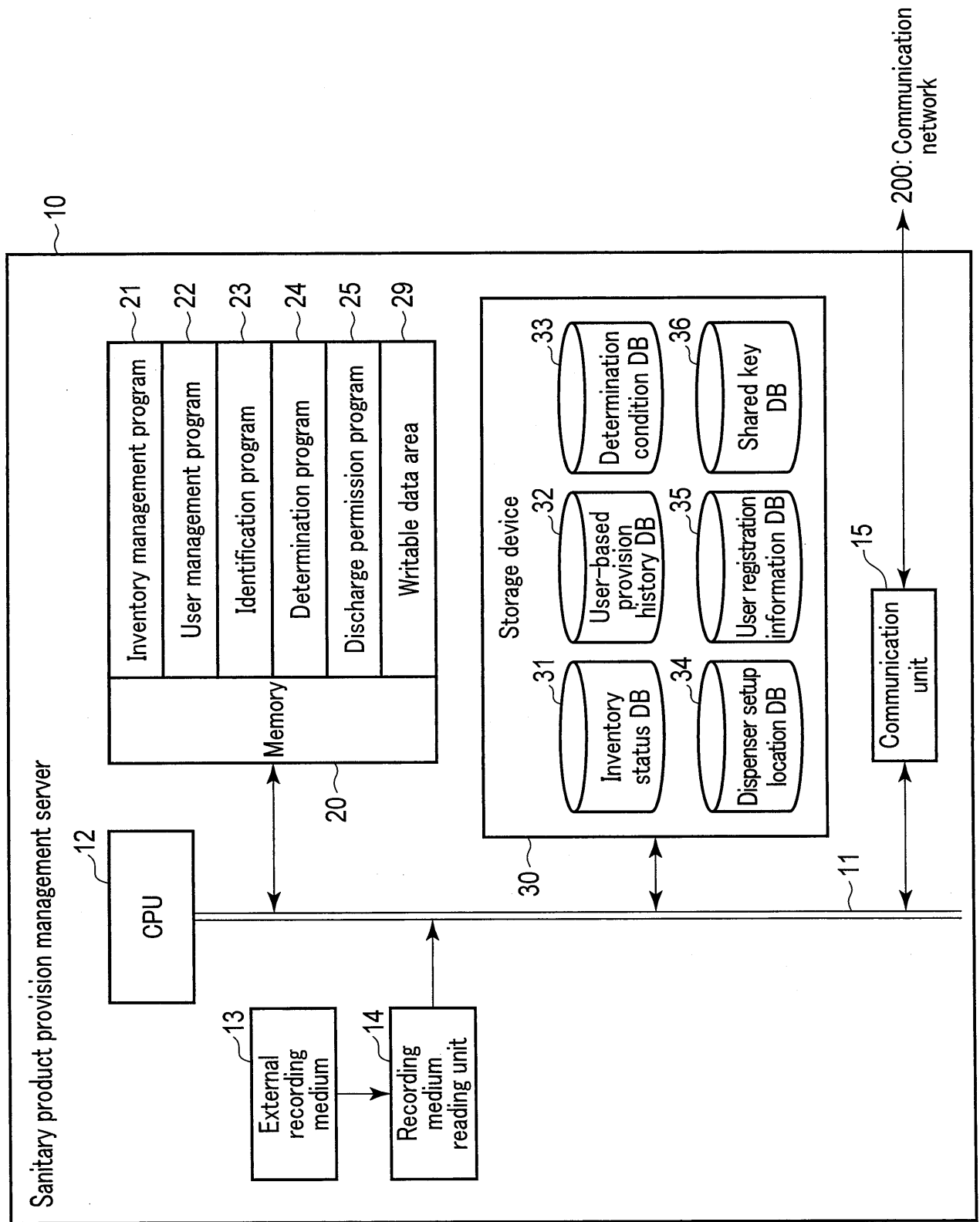


FIG. 5

| Dispenser ID | Latitude/<br>longitude information | Address information                   | Setup location information                         |
|--------------|------------------------------------|---------------------------------------|----------------------------------------------------|
| A0001        | E1394520N354130                    | Kudan-minami,<br>Chiyoda Ward, Tokyo  | Chiyoda Ward Office 3F                             |
| A0002        | E1393241N354349                    | Center, West Tokyo City,<br>Tokyo     | Nishi Tokyo Building 45F                           |
| A0003        | E1394130N354122                    | Nishi-Shinjuku, Shinjuku-ku,<br>Tokyo | Tokyo Metropolitan<br>Government Main Building, 1F |
| ⋮            | ⋮                                  | ⋮                                     | ⋮                                                  |
| A000n        | E1393833N352652                    | NihonOo, Naka Ward,<br>Yokohama City  | Kanagawa Prefectural Office,<br>4F                 |

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FIG. 6

|   |         |                         |              |                       |         |                         |              |                       |
|---|---------|-------------------------|--------------|-----------------------|---------|-------------------------|--------------|-----------------------|
| f | a       |                         | c            |                       | g       |                         | 42-n         |                       |
|   | User ID | Time-of-day information | Dispenser ID | Sanitary product type | User ID | Time-of-day information | Dispenser ID | Sanitary product type |
|   | B0001   | 20191203113542          | A0001        | $\alpha$ 1            | 42-2    | 42-1                    |              |                       |
|   |         | 20191203153543          | A0101        | $\alpha$ 1            |         |                         |              |                       |
|   |         | 20191204093529          | A0101        | $\alpha$ 1            |         |                         |              |                       |
|   |         | :                       | :            | :                     |         |                         |              |                       |
|   |         | 20200203092301          | A0043        | $\beta$ 2             |         |                         |              |                       |

FIG. 7

| Dispenser ID | Event information | Time-of-day information | Inventory fluctuation value | Inventory quantity | User ID | Sanitary product type |
|--------------|-------------------|-------------------------|-----------------------------|--------------------|---------|-----------------------|
|              |                   |                         |                             |                    |         |                       |
| A000n        |                   |                         |                             |                    |         |                       |
|              |                   |                         |                             |                    |         |                       |
|              |                   |                         |                             |                    |         |                       |
|              |                   |                         |                             |                    |         |                       |
| A0001        | Discharge         | 20191203113542          | -1                          | 12                 | B0001   | $\alpha$ 1            |
|              | Discharge         | 20191203152341          | -1                          | 11                 | B0103   | $\alpha$ 1            |
|              |                   | :                       | :                           | :                  | :       |                       |
|              | Replenish         | 20191225090321          | NA                          | 25                 | NA      | $\beta$ 1             |
|              |                   | :                       | :                           | :                  | :       |                       |

FIG. 8

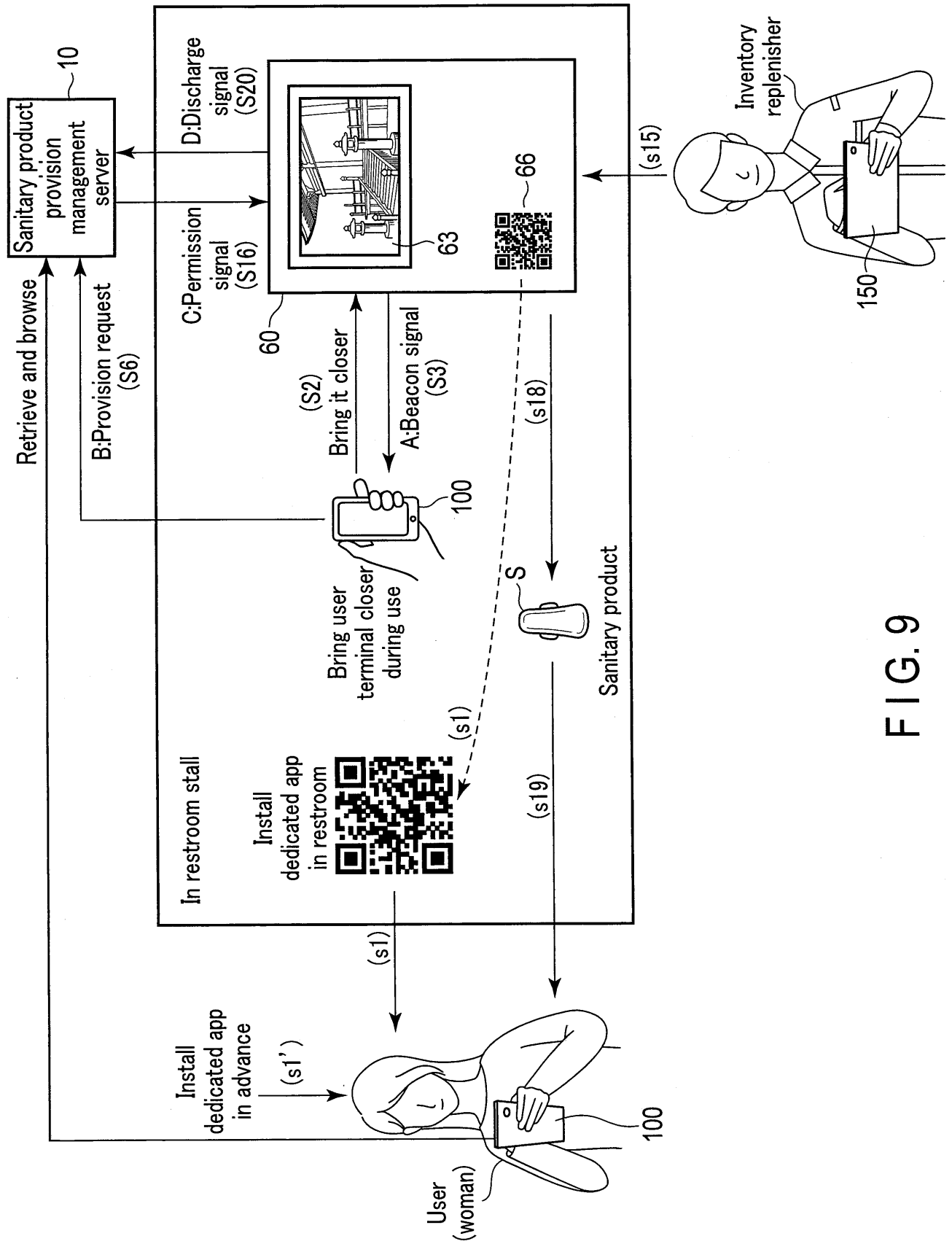


FIG. 9

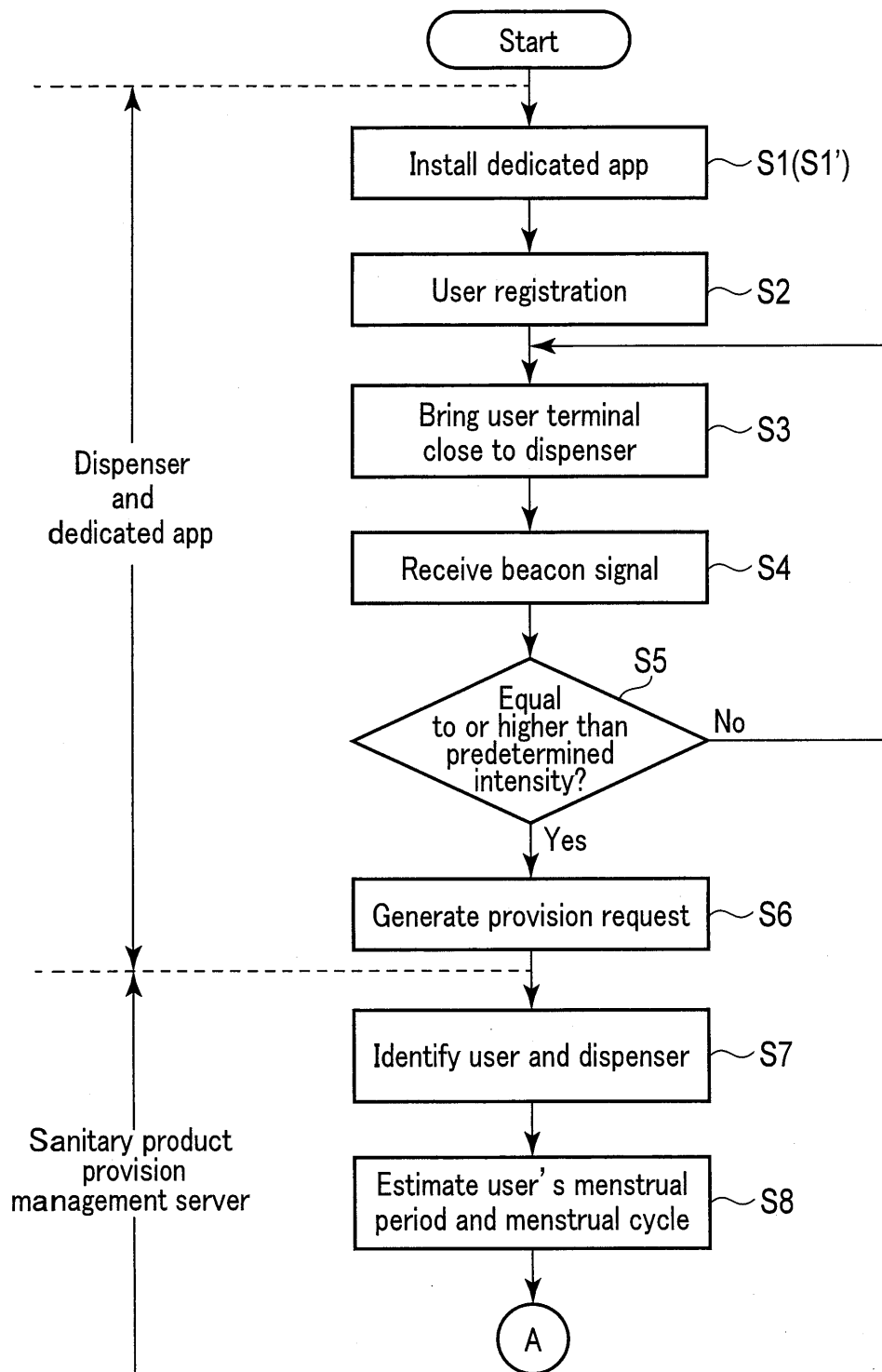


FIG. 10A

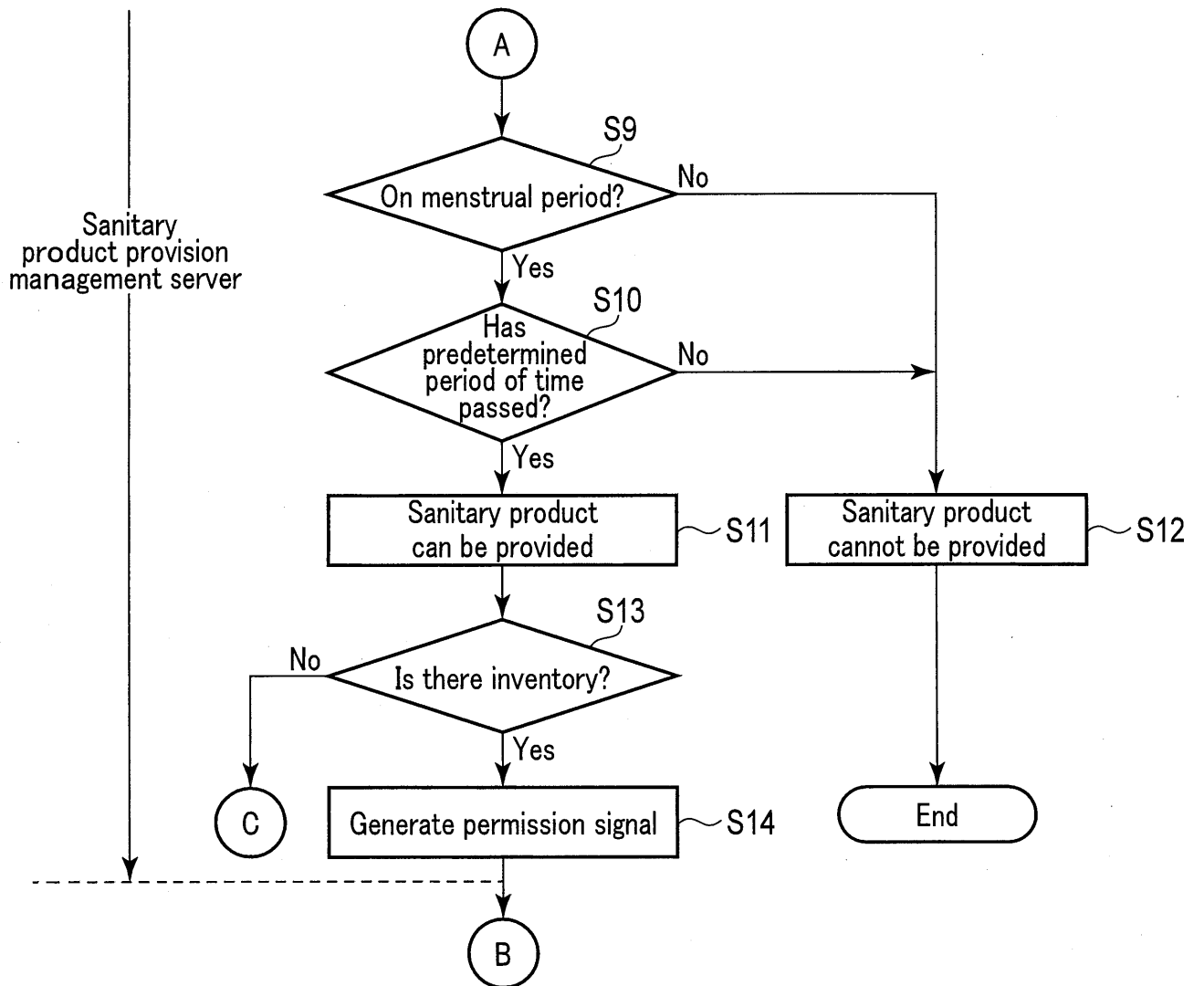


FIG. 10B

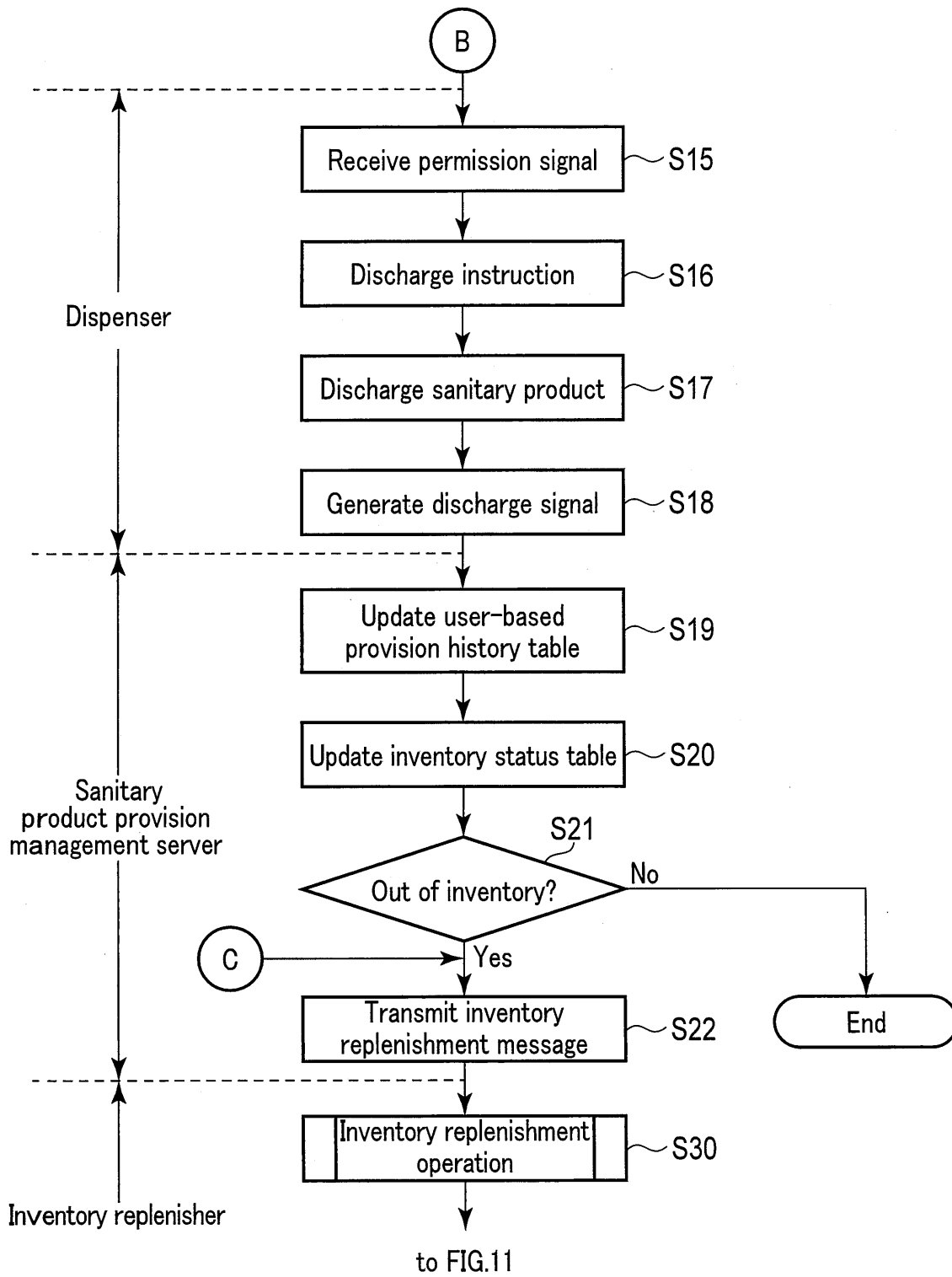


FIG. 10C

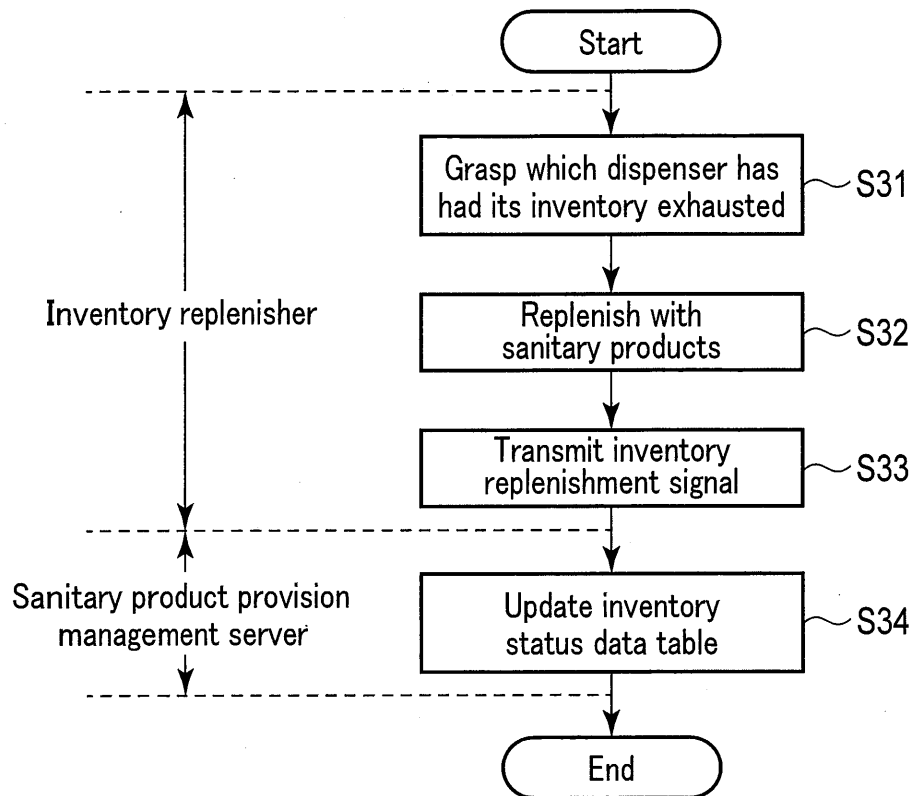
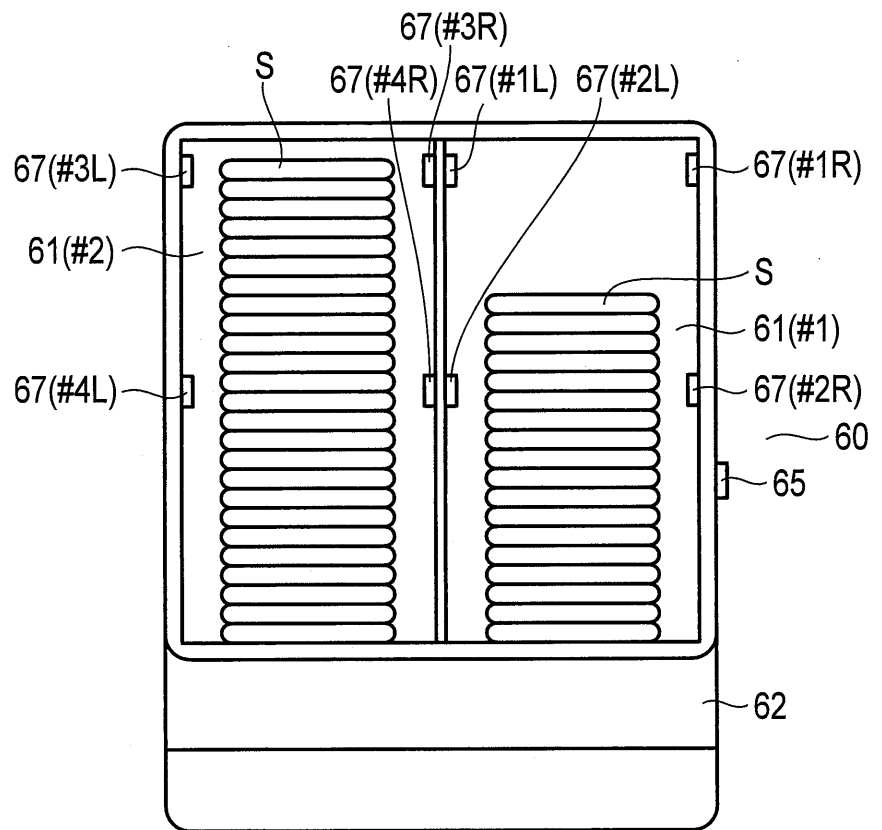
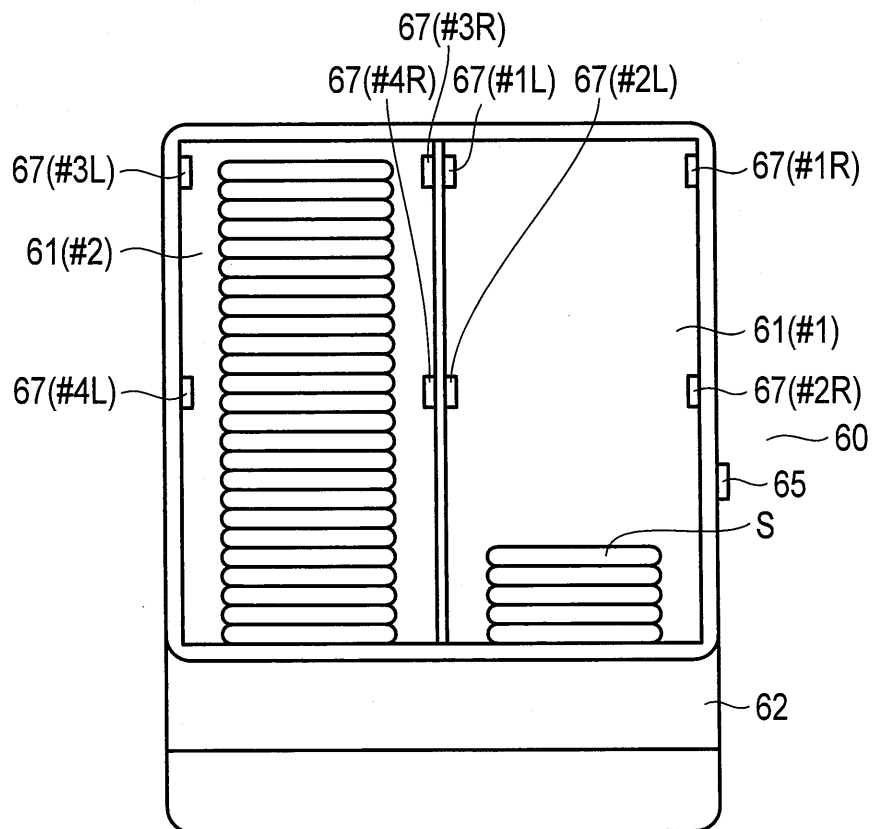


FIG. 11



(a)



(b)

FIG. 12

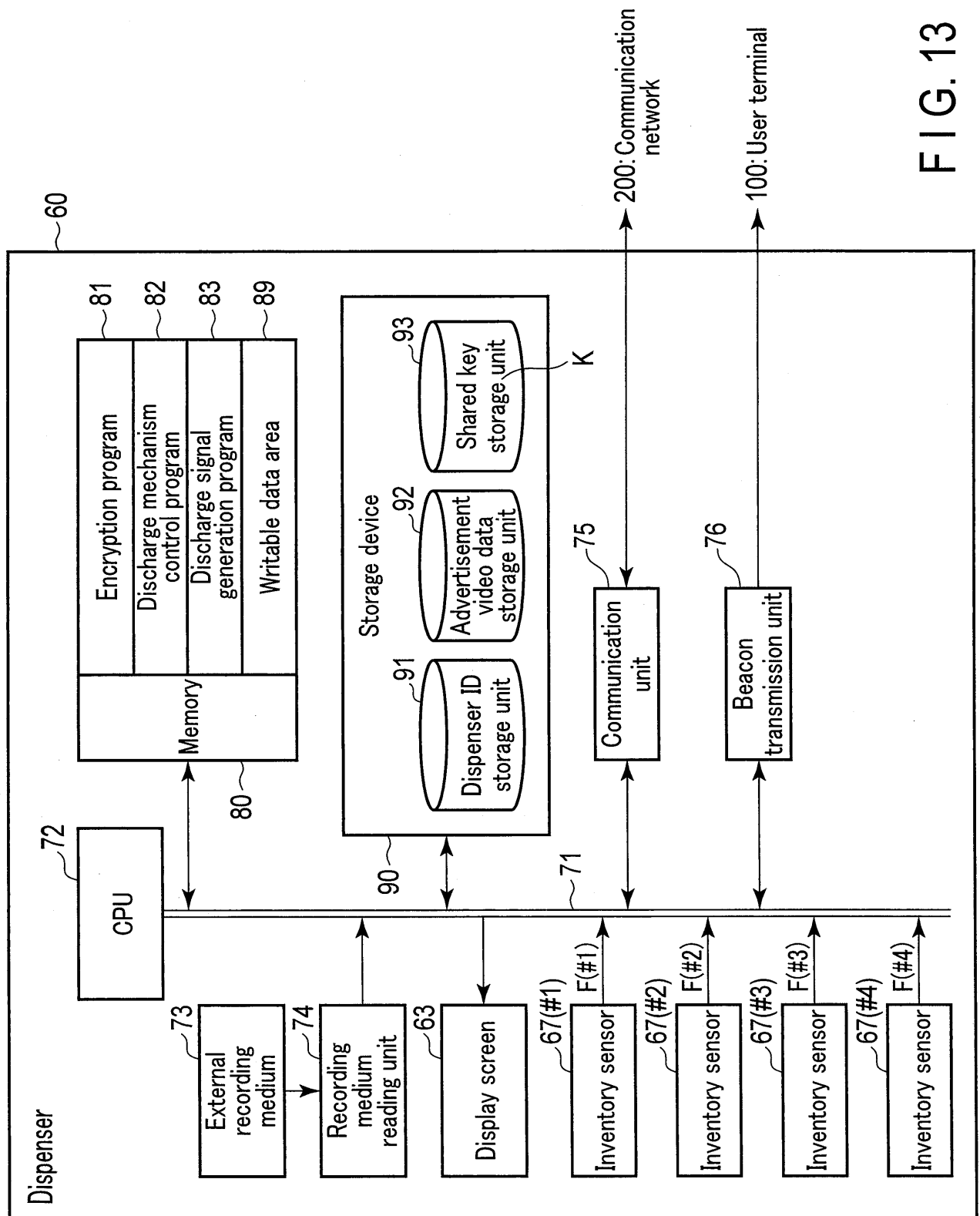


FIG. 13

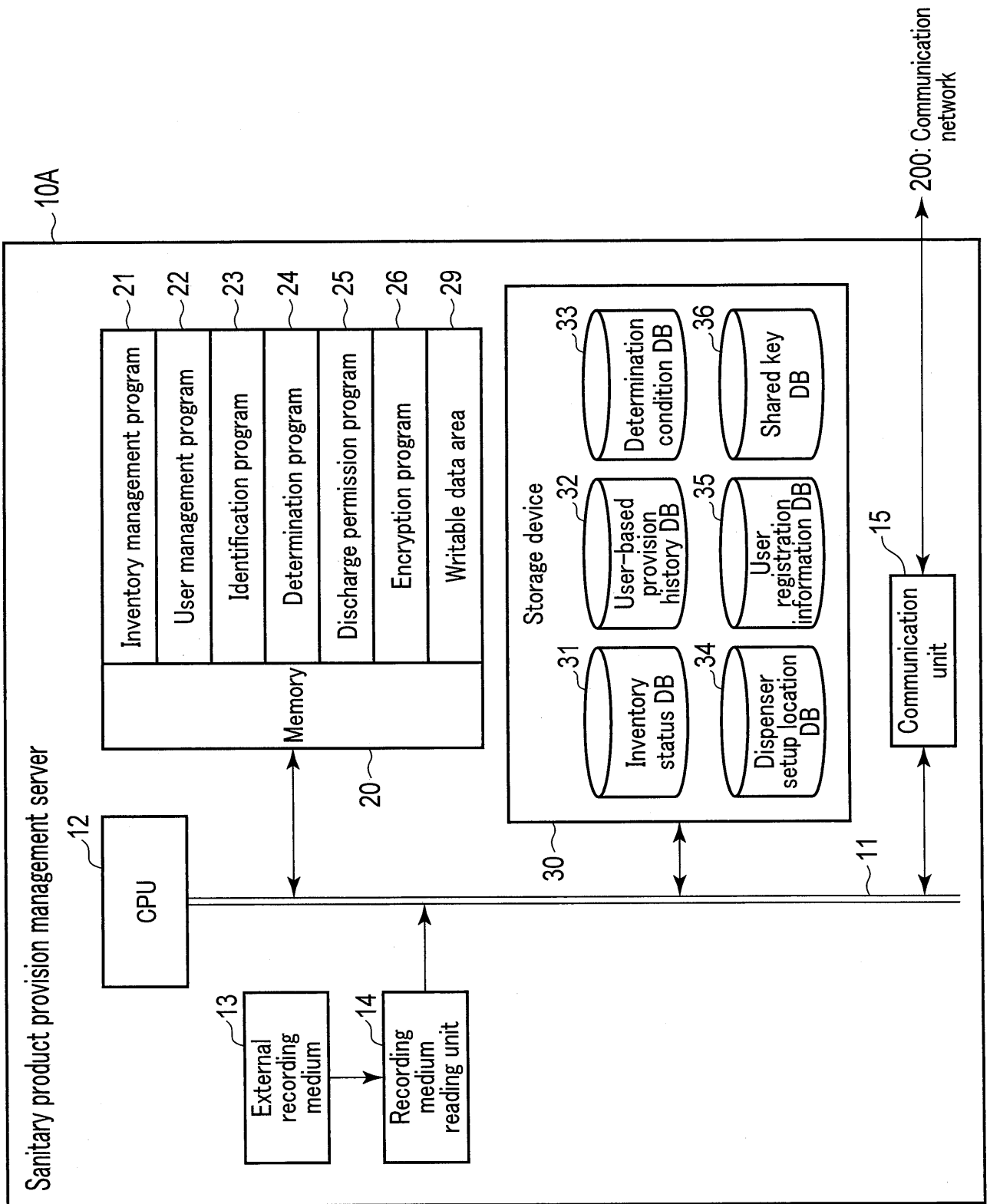


FIG. 14

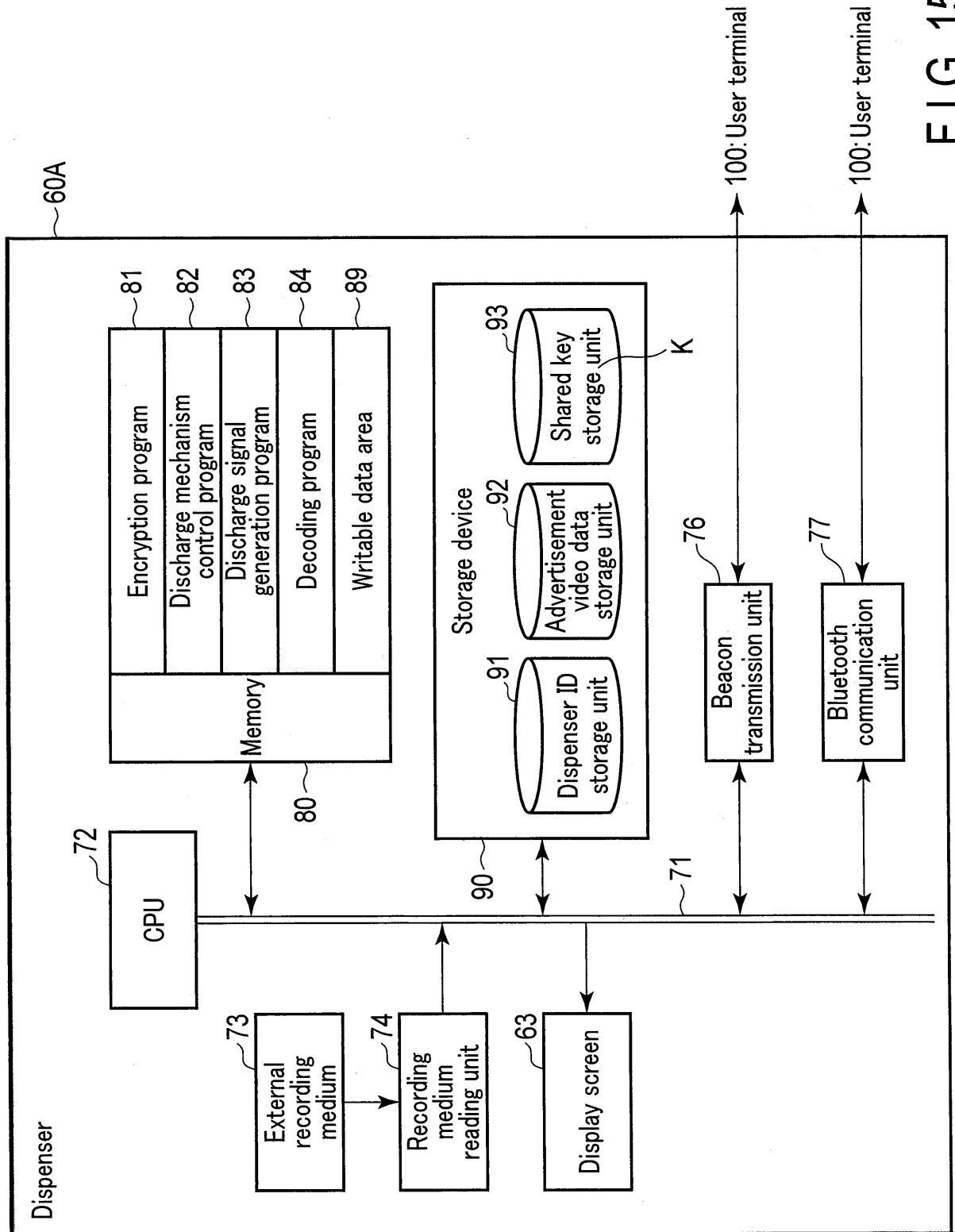


FIG. 15

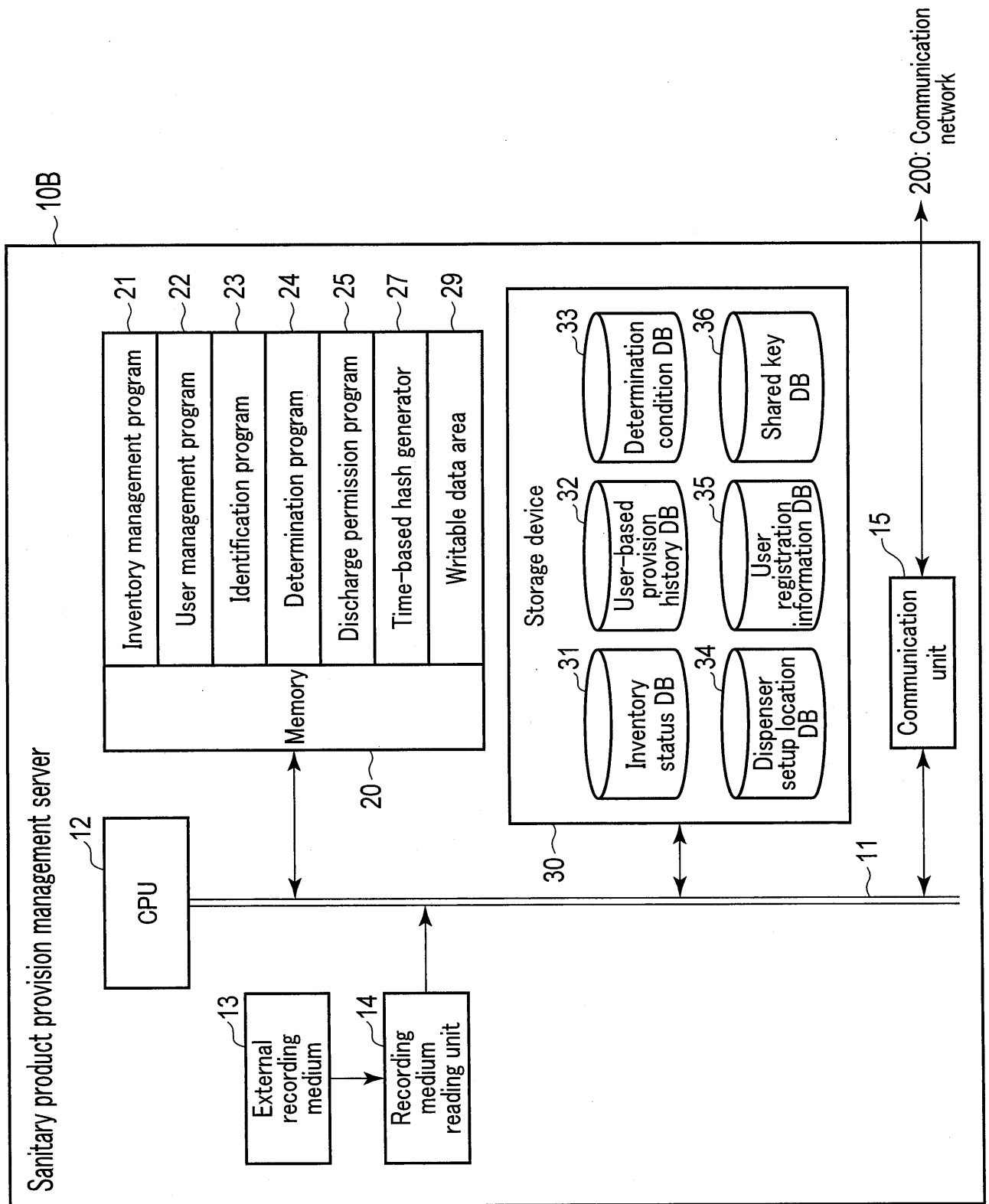


FIG. 16

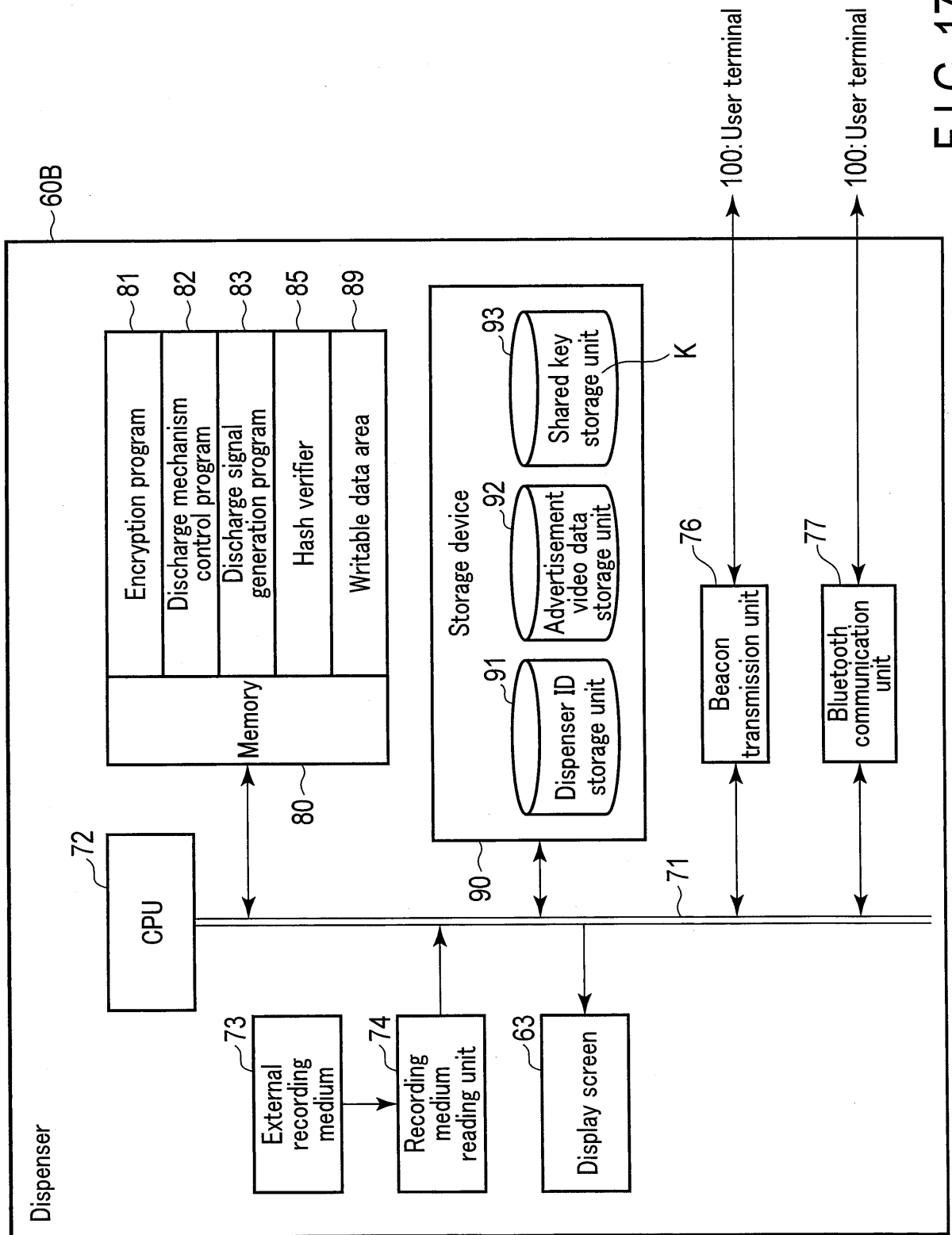


FIG. 17