

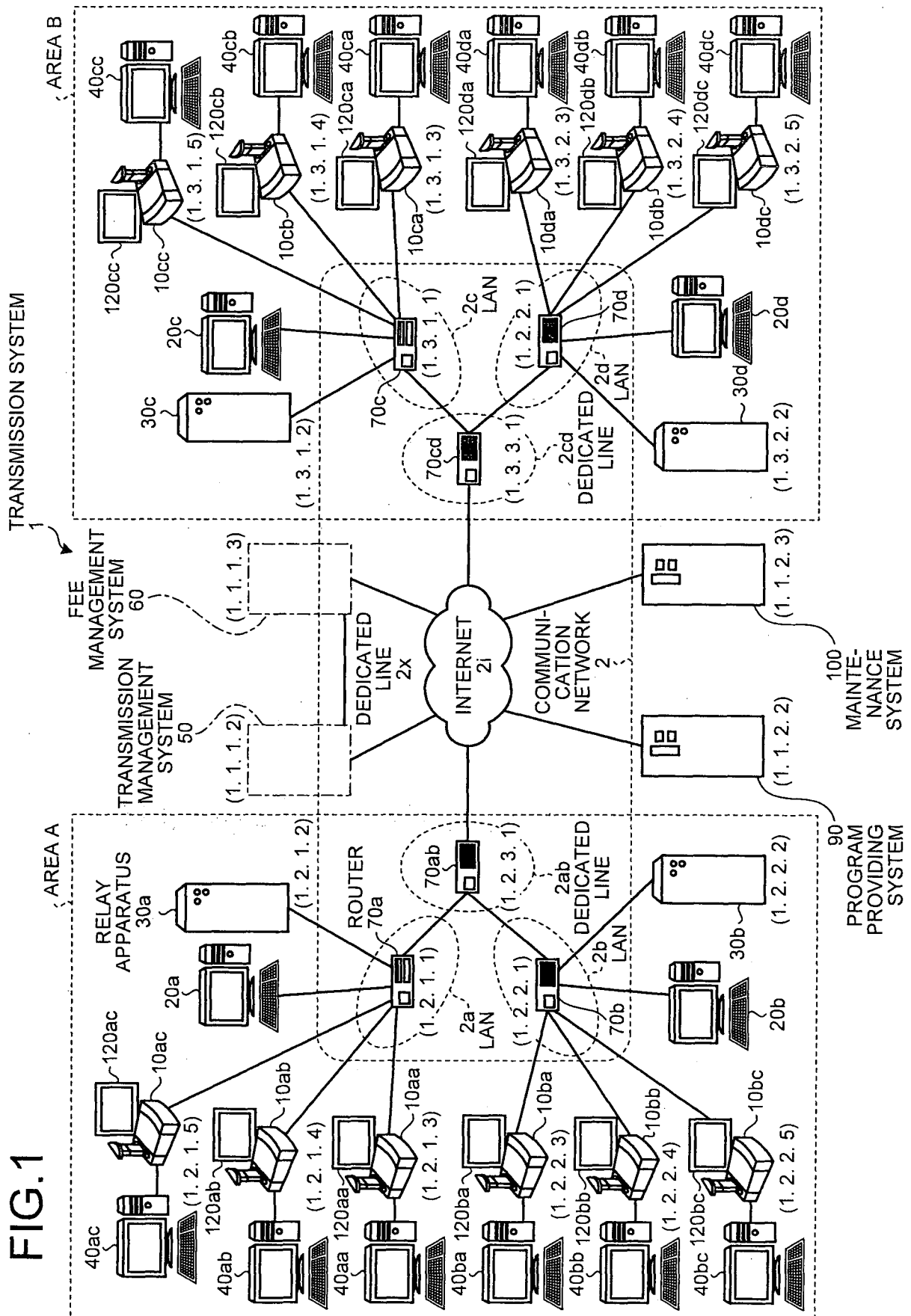


FIG.2

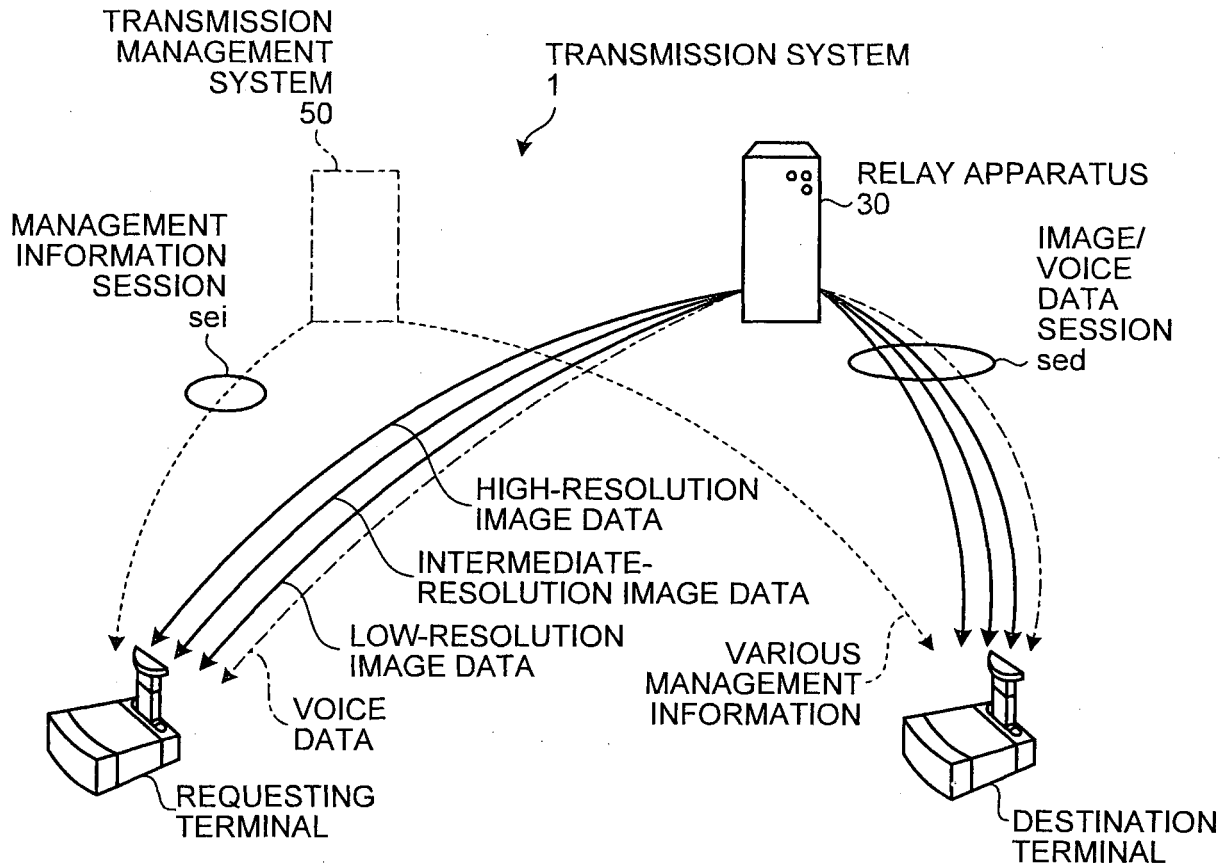


FIG.3

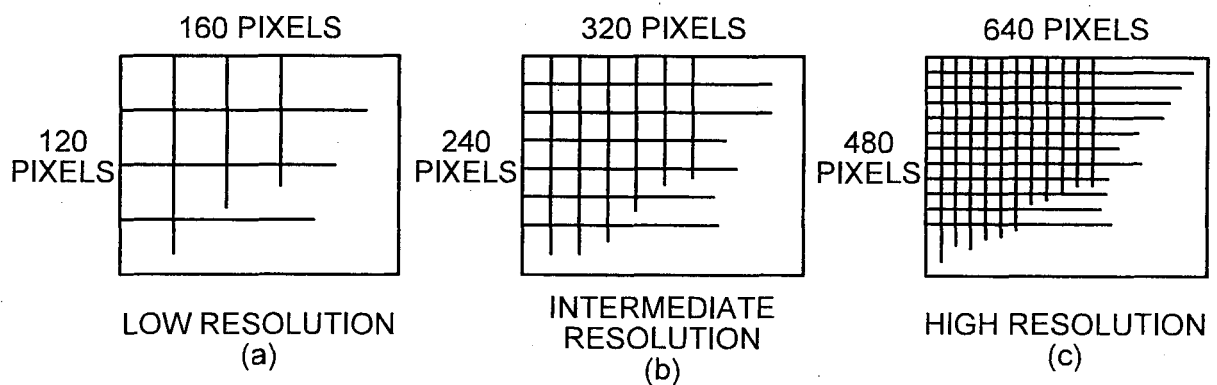


FIG.4

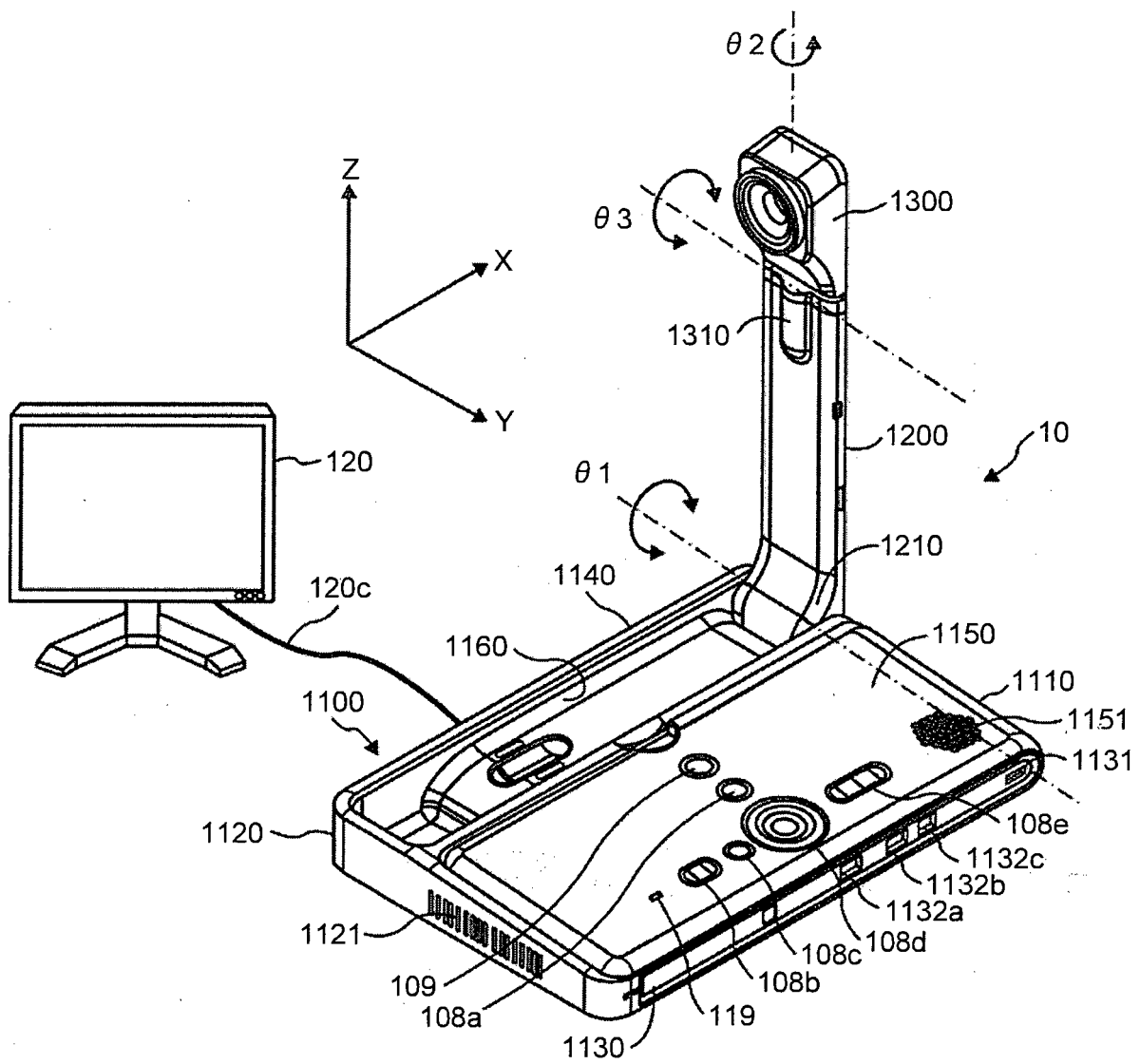
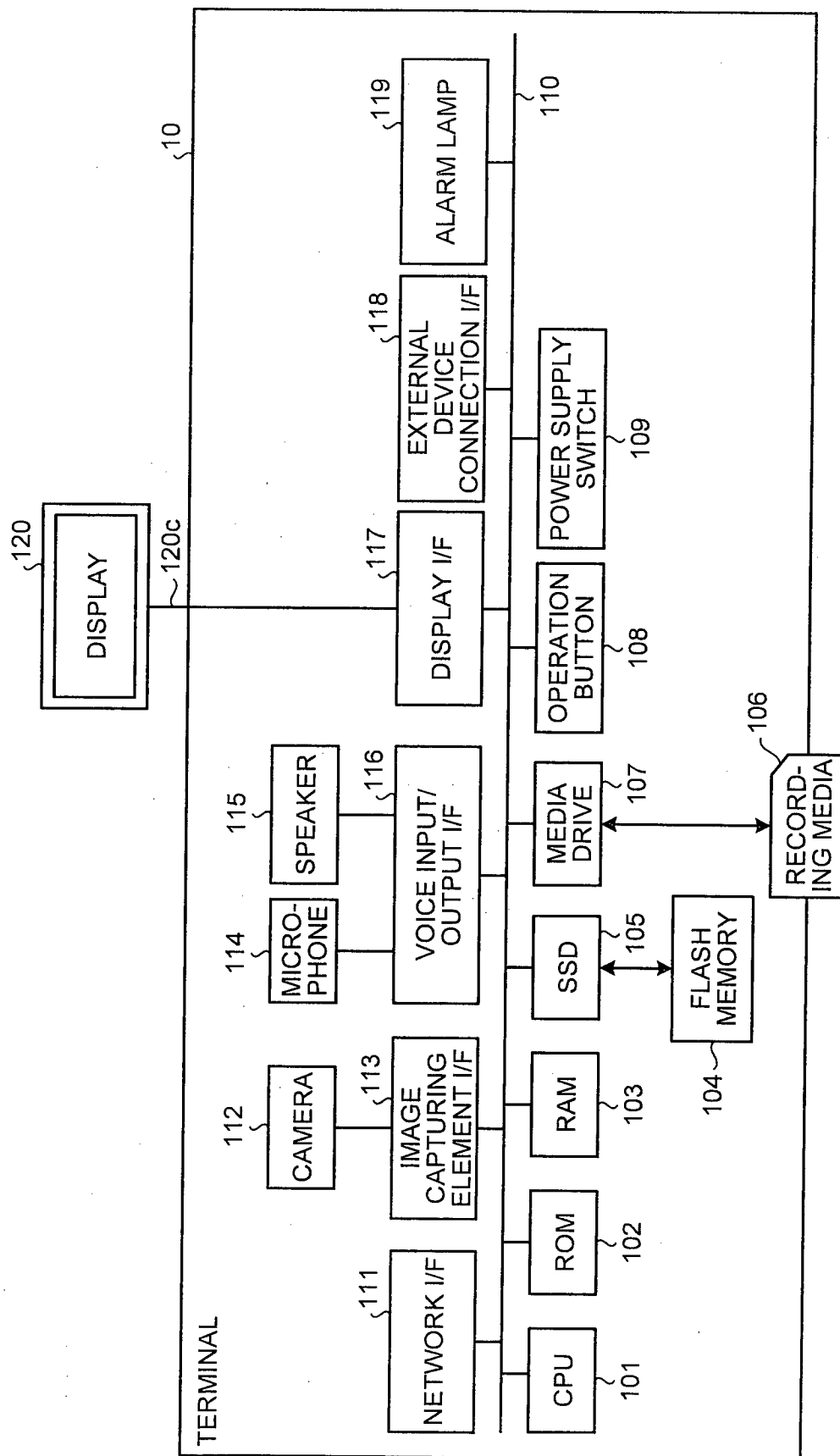


FIG.5



5/20

FIG.6

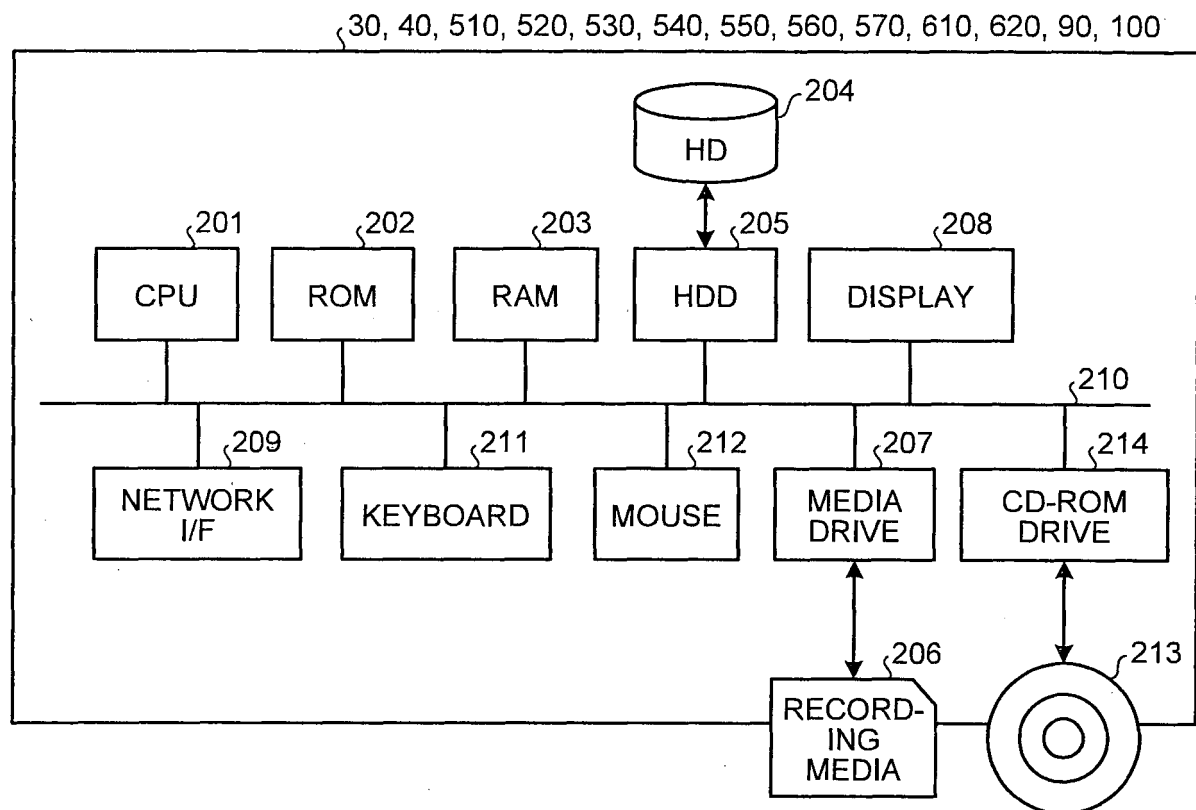
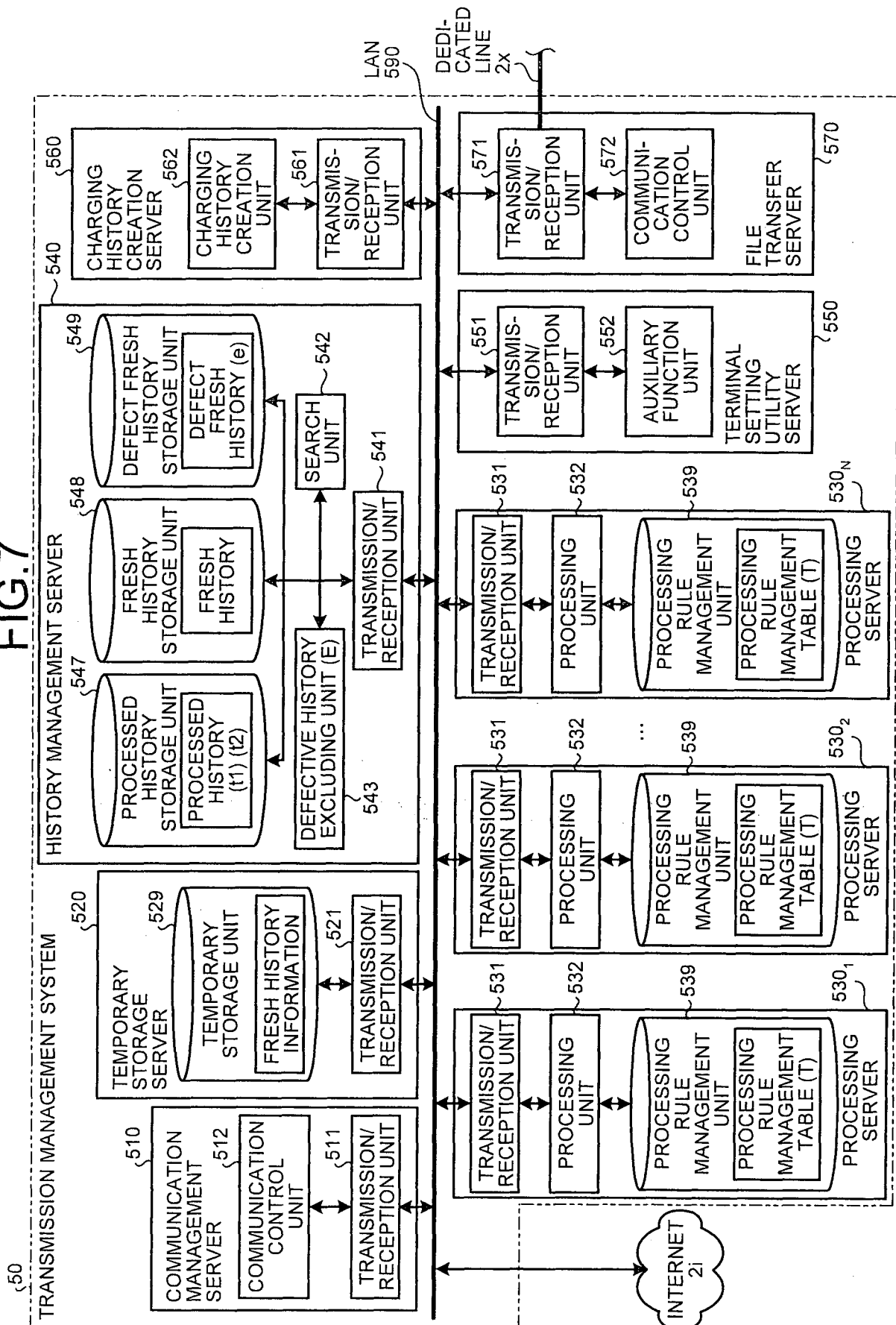


FIG. 7



7/20

FIG.8

PROCESSING RULE MANAGEMENT TABLE (T)

| PROCESSING<br>START CONDITION<br>(COMMUNICATION<br>STATE)                                 | POST-<br>PROCESSING<br>TARGET<br>TABLE             | POST-<br>PROCESSING<br>TARGET RECORD                  | PROCESSING CONTENTS                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COMMUNICATION<br>STATE="invite"                                                           | CONFERENCE<br>HISTORY<br>MANAGEMENT<br>TABLE (t2)  | RECORD<br>INDICATING SAME<br>CONFERENCE ID            | CONFERENCE ID= <u>CONFERENCE ID</u><br>HOST TERMINAL ID=<br><u>TRANSMISSION SOURCE TERMINAL ID</u>                                                                                                                                                                                                                                                               |
| COMMUNICATION<br>STATE="start"                                                            | CONFERENCE<br>HISTORY<br>MANAGEMENT<br>TABLE (t2)  | RECORD<br>INDICATING SAME<br>CONFERENCE ID            | CONFERENCE ID= <u>CONFERENCE ID</u><br>HELD DATE AND TIME=<br><u>COMMUNICATION DATE AND TIME</u><br>CONFERENCE TIME=<br>END DATE AND TIME · COMMUNICATION<br>DATE AND TIME                                                                                                                                                                                       |
| COMMUNICATION<br>STATE="end"                                                              | CONFERENCE<br>HISTORY<br>MANAGEMENT<br>TABLE (t2)  | RECORD<br>INDICATING SAME<br>CONFERENCE ID            | CONFERENCE ID= <u>CONFERENCE ID</u><br>HELD DATE AND TIME=<br><u>COMMUNICATION DATE AND TIME</u><br>CONFERENCE TIME=<br>CONFERENCE TIME · HELD DATE AND TIME                                                                                                                                                                                                     |
| COMMUNICATION<br>STATE="join"                                                             | PARTICIPANT<br>HISTORY<br>MANAGEMENT<br>TABLE (t1) | RECORD<br>INDICATING SAME<br>CONFERENCE<br>SESSION ID | HOST TERMINAL ID=<br><u>TRANSMISSION SOURCE TERMINAL ID</u><br>CONFERENCE ID= <u>CONFERENCE ID</u><br>CONFERENCE SESSION ID=<br>CONFERENCE SESSION ID<br>PARTICIPATION DATE AND TIME=<br><u>COMMUNICATION DATE AND TIME</u><br>PARTICIPATION TIME=(LEAVING DATE AND<br>TIME- <u>COMMUNICATION DATE AND TIME</u> )<br>LEAVING STATE="DURING CONFERENCE"           |
| COMMUNICATION<br>STATE="leave"                                                            | PARTICIPANT<br>HISTORY<br>MANAGEMENT<br>TABLE (t1) | RECORD<br>INDICATING SAME<br>CONFERENCE<br>SESSION ID | HOST TERMINAL ID=<br><u>TRANSMISSION SOURCE TERMINAL ID</u><br>CONFERENCE ID= <u>CONFERENCE ID</u><br>CONFERENCE SESSION ID=<br>CONFERENCE SESSION ID<br>PARTICIPATION DATE AND TIME=<br><u>COMMUNICATION DATE AND TIME</u><br>PARTICIPATION TIME=( <u>COMMUNICATION</u><br><u>DATE AND TIME</u> · PARTICIPATION DATE<br>AND TIME)<br>LEAVING STATE="NORMAL"     |
| COMMUNICATION<br>STATE="offline"<br>CONFERENCE ID!=null<br>CONFERENCE<br>SESSION ID!=null | PARTICIPANT<br>HISTORY<br>MANAGEMENT<br>TABLE (t1) | RECORD<br>INDICATING SAME<br>CONFERENCE<br>SESSION ID | HOST TERMINAL ID=<br><u>TRANSMISSION SOURCE TERMINAL ID</u><br>CONFERENCE ID= <u>CONFERENCE ID</u><br>CONFERENCE SESSION ID=<br>CONFERENCE SESSION ID<br>PARTICIPATION DATE AND TIME=<br><u>COMMUNICATION DATE AND TIME</u><br>PARTICIPATION TIME=( <u>COMMUNICATION</u><br><u>DATE AND TIME</u> · PARTICIPATION DATE AND<br>TIME)<br>LEAVING STATE="FORCE-QUIT" |
| ...                                                                                       | ...                                                | ...                                                   | ...                                                                                                                                                                                                                                                                                                                                                              |

\* UNDERLINED TERMS INDICATE ITEM VALUES OF FRESH HISTORY INFORMATION

## FIG.9

FRESH HISTORY INFORMATION

| COMMUNICATION STATE | REQUESTING TERMINAL ID | DESTINATION TERMINAL ID | SESSION ID | CONFERENCE ID | CONFERENCE SESSION ID | COMMUNICATION DATE AND TIME |
|---------------------|------------------------|-------------------------|------------|---------------|-----------------------|-----------------------------|
| online              | 110001                 | -                       | se001      | -             | -                     | 2010-09-01 09:30:00         |
| online              | 110002                 | -                       | se002      | -             | -                     | 2010-09-01 09:30:00         |
| online              | 110003                 | -                       | se003      | -             | -                     | 2010-09-01 09:30:00         |
| intive              | 110001                 | 110002                  | -          | conf001       | -                     | 2010-09-01 09:59:50         |
| accept              | 110002                 | 110001                  | -          | conf001       | -                     | 2010-09-01 09:59:59         |
| start               | 110001                 | -                       | -          | conf001       | -                     | 2010-09-01 10:00:00         |
| join                | 110001                 | -                       | -          | conf001       | cse001                | 2010-09-01 10:00:00         |
| join                | 110002                 | -                       | -          | conf001       | cse001                | 2010-09-01 10:00:00         |
| call                | 110003                 | 110001                  | -          | conf001       | -                     | 2010-09-01 10:09:50         |
| accept              | 110001                 | 110003                  | -          | conf001       | -                     | 2010-09-01 10:09:59         |
| join                | 110003                 | -                       | -          | conf001       | cse003                | 2010-09-01 10:10:00         |
| leave               | 110002                 | -                       | -          | conf001       | cse002                | 2010-09-01 10:40:00         |
| offline             | 110003                 | -                       | se003      | conf001       | cse003                | 2010-09-01 11:30:25         |
| leave               | 110001                 | -                       | -          | conf001       | cse001                | 2010-09-01 11:30:25         |
| end                 | 110001                 | -                       | -          | conf001       | -                     | 2010-09-01 11:30:25         |
| offline             | 110001                 | -                       | se001      | -             | -                     | 2010-09-01 11:35:00         |
| offline             | 110002                 | -                       | se002      | -             | -                     | 2010-09-01 11:40:00         |
| ...                 | ...                    | ...                     | ...        | ...           | ...                   | ...                         |
| online              | 110005                 | -                       | se005      | -             | -                     | 2010-09-12 14:20:00         |
| online              | 110006                 | -                       | se006      | -             | -                     | 2010-09-12 14:21:00         |
| intive              | 110005                 | 110006                  | -          | conf002       | -                     | 2010-09-12 14:29:50         |
| accept              | 110006                 | 110005                  | -          | conf002       | -                     | 2010-09-12 14:29:55         |
| start               | 110005                 | -                       | -          | conf002       | -                     | 2010-09-12 14:30:00         |
| join                | 110005                 | -                       | -          | conf002       | cse005                | 2010-09-12 14:30:00         |
| ...                 | ...                    | ...                     | ...        | ...           | ...                   | ...                         |

9/20

FIG.10A

PARTICIPANT HISTORY MANAGEMENT TABLE (t1)

| HISTORY ID | TERMINAL ID | CONFERENCE ID | CONFERENCE SESSION ID | PARTICIPATION DATE AND TIME | LEAVING DATE AND TIME | PARTICIPATION TIME | LEAVING STATE |
|------------|-------------|---------------|-----------------------|-----------------------------|-----------------------|--------------------|---------------|
| 001        | 110001      | conf001       | cse001                | 2010-09-01 10:00:00         | 2010-09-01 11:30:25   | 01:30:25           | LEAVE         |
| 002        | 110002      | conf001       | cse002                | 2010-09-01 10:00:00         | 2010-09-01 10:40:00   | 00:44:00           | LEAVE         |
| 003        | 110003      | conf001       | cse003                | 2010-09-01 10:00:00         | 2010-09-01 11:30:25   | 01:20:25           | FORCE-QUIT    |
| 004        | 110005      | conf002       | cse005                | 2010-09-12 14:30:00         | 2010-09-12 15:35:25   | 01:05:25           | LEAVE         |
| 005        | 110001      | conf002       | cse005                | 2010-09-12 14:30:00         | 2010-09-12 15:40:10   | 01:10:10           | LEAVE         |
| 006        | 110002      | conf002       | cse005                | 2010-09-12 14:33:35         | 2010-09-12 15:40:10   | 01:06:35           | LEAVE         |
| ...        | ...         | ...           | ...                   | ...                         | ...                   | ...                | ...           |

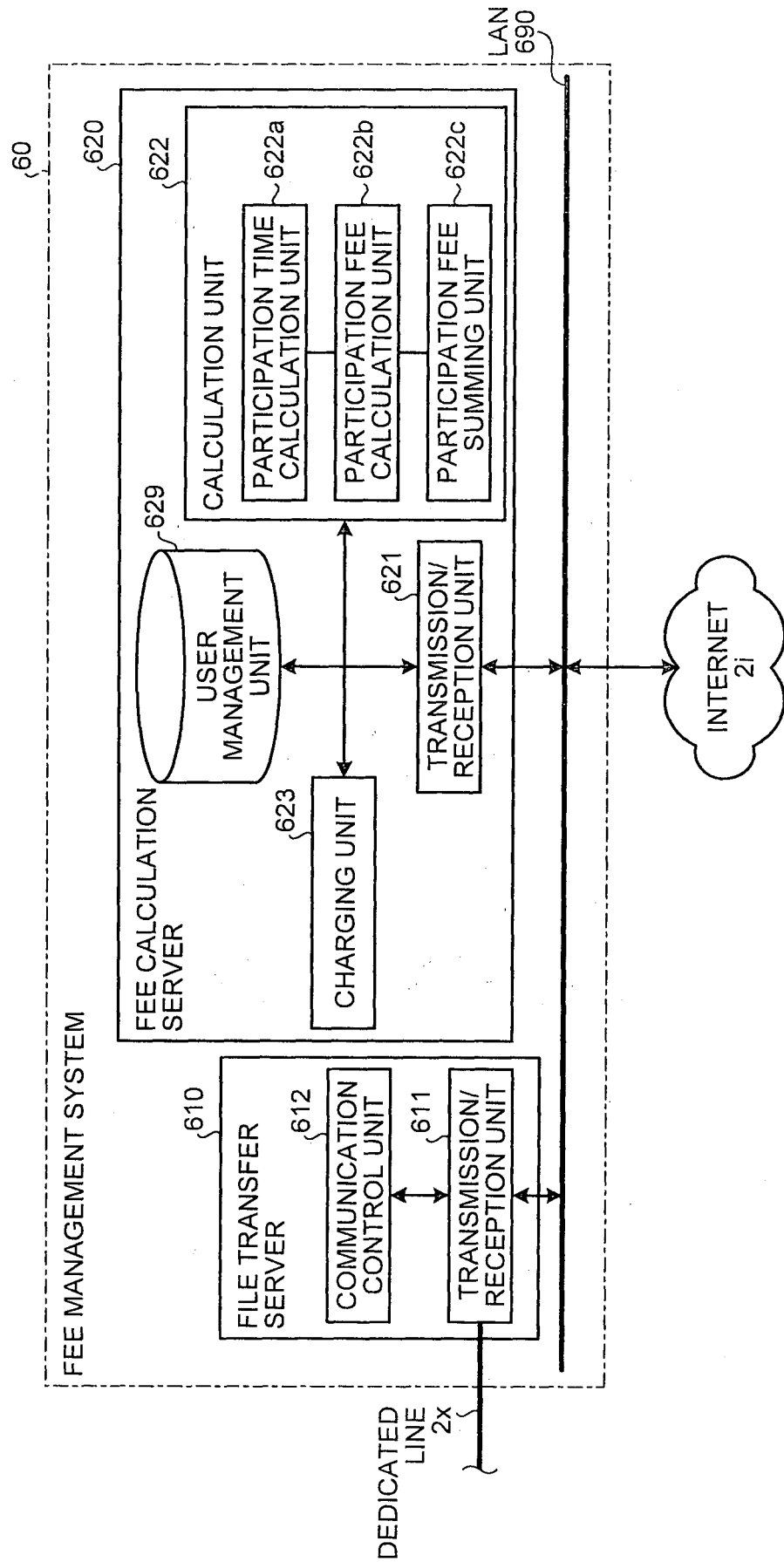
FIG.10B

PARTICIPANT HISTORY MANAGEMENT TABLE (t2)

| CONFERENCE ID | HOST TERMINAL ID | CONFERENCE START DATE AND TIME | CONFERENCE END DATE AND TIME | CONFERENCE TIME |
|---------------|------------------|--------------------------------|------------------------------|-----------------|
| conf001       | 110001           | 2010-09-01 10:00:00            | 2010-09-01 11:30:25          | 01:30:25        |
| conf002       | 110005           | 2010-09-12 14:30:00            | -                            | -               |
| ...           | ...              | ...                            | ...                          | ...             |

10/20

FIG.11



11/20

FIG.12

USER MANAGEMENT TABLE (Ty)

| CONTRACT NUMBER | USER ID | USER NAME | USER ADDRESS         | USER TELEPHONE NUMBER | USER E-MAIL ADDRESS | TERMINAL ID |
|-----------------|---------|-----------|----------------------|-----------------------|---------------------|-------------|
| 20101005-0001   | a123    | AAA       | TOKYO...             | ...                   | ...                 | 11001       |
|                 |         |           |                      |                       |                     | 11002       |
|                 |         |           |                      |                       |                     | 11003       |
|                 |         |           |                      |                       |                     | ...         |
| 20110105-0001   | b234    | BBB       | OSAKA...             | ...                   | ...                 | 11011       |
|                 |         |           |                      |                       |                     | 11012       |
|                 |         |           |                      |                       |                     | 11013       |
|                 |         |           |                      |                       |                     | ...         |
| 20110110-0001   | c345    | CCC       | State of New York... | ...                   | ...                 | 11021       |
|                 |         |           |                      |                       |                     | 11022       |
|                 |         |           |                      |                       |                     | 11023       |
|                 |         |           |                      |                       |                     | ...         |
| 20110110-0002   | d456    | DDD       | Washington, D.C....  | ...                   | ...                 | 11031       |
|                 |         |           |                      |                       |                     | 11032       |
|                 |         |           |                      |                       |                     | 11033       |
|                 |         |           |                      |                       |                     | ...         |
| ...             | ...     | ...       | ...                  | ...                   | ...                 | ...         |

12/20

FIG.13

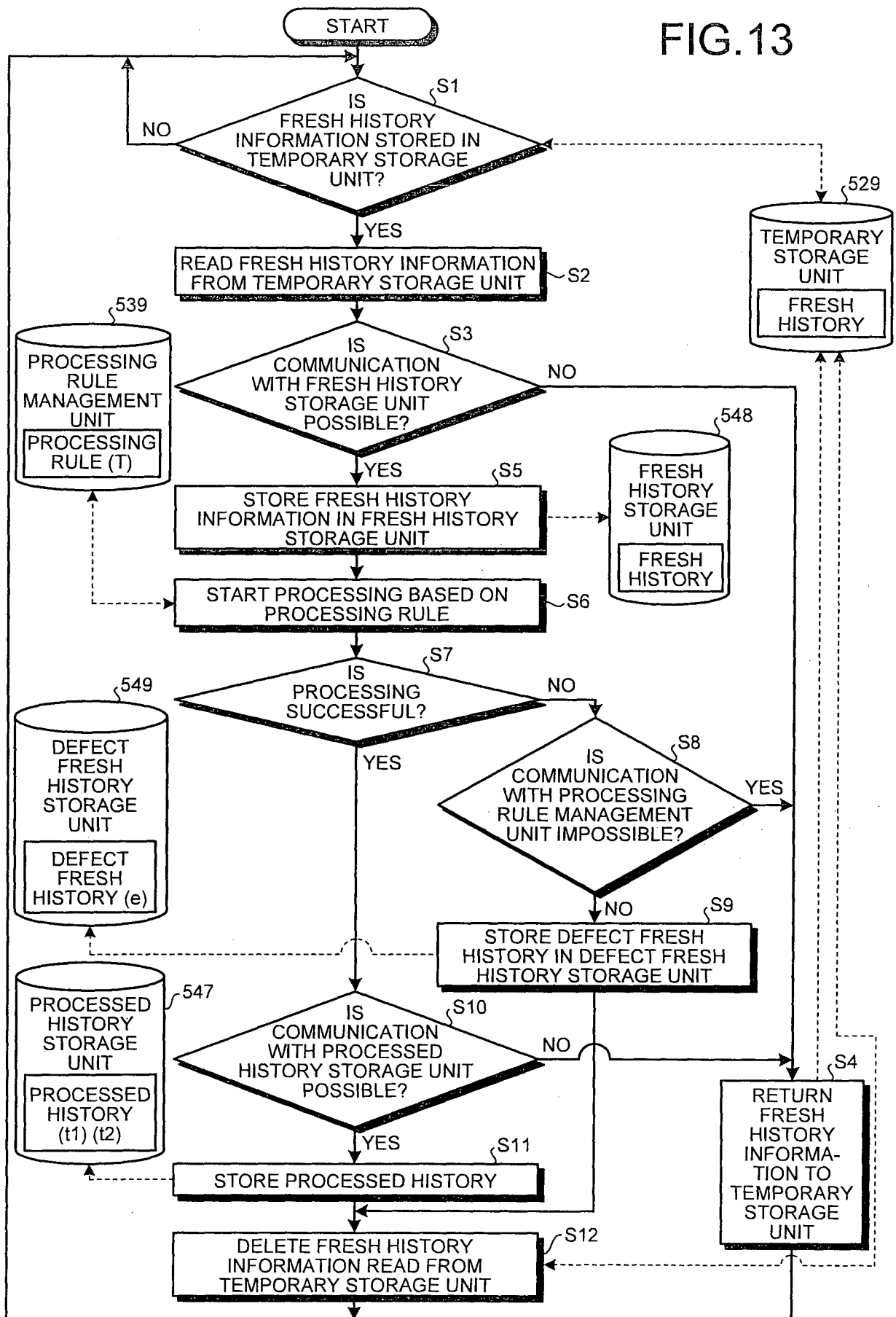


FIG.14

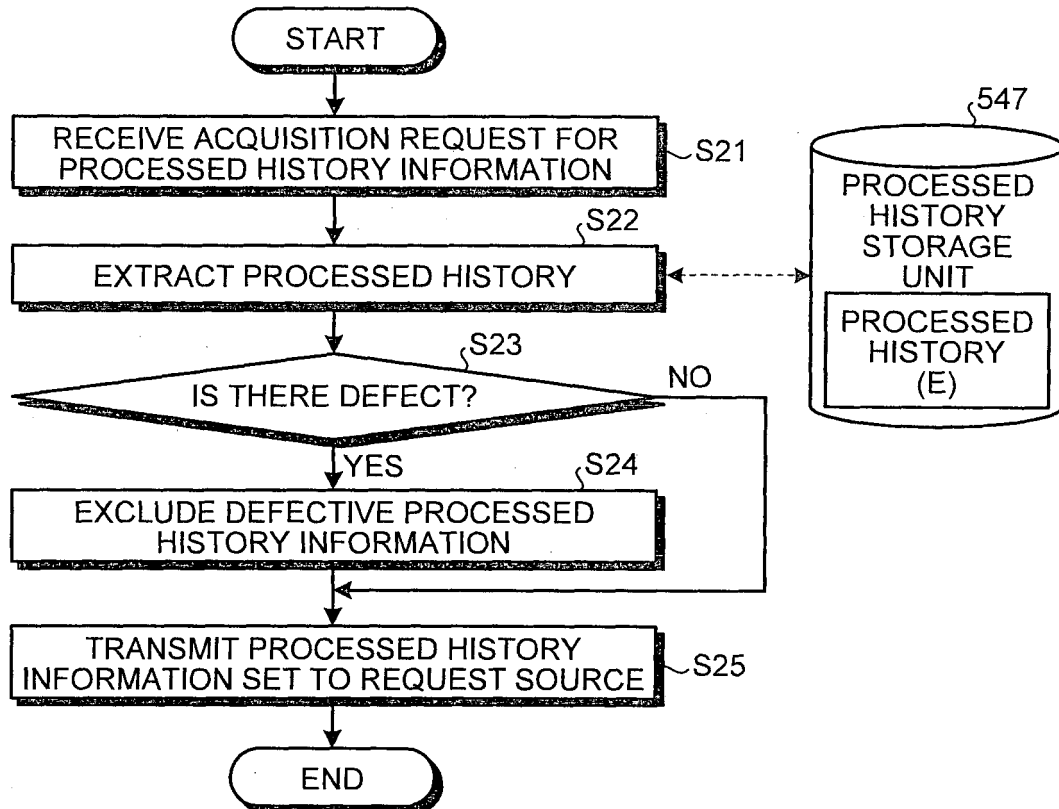
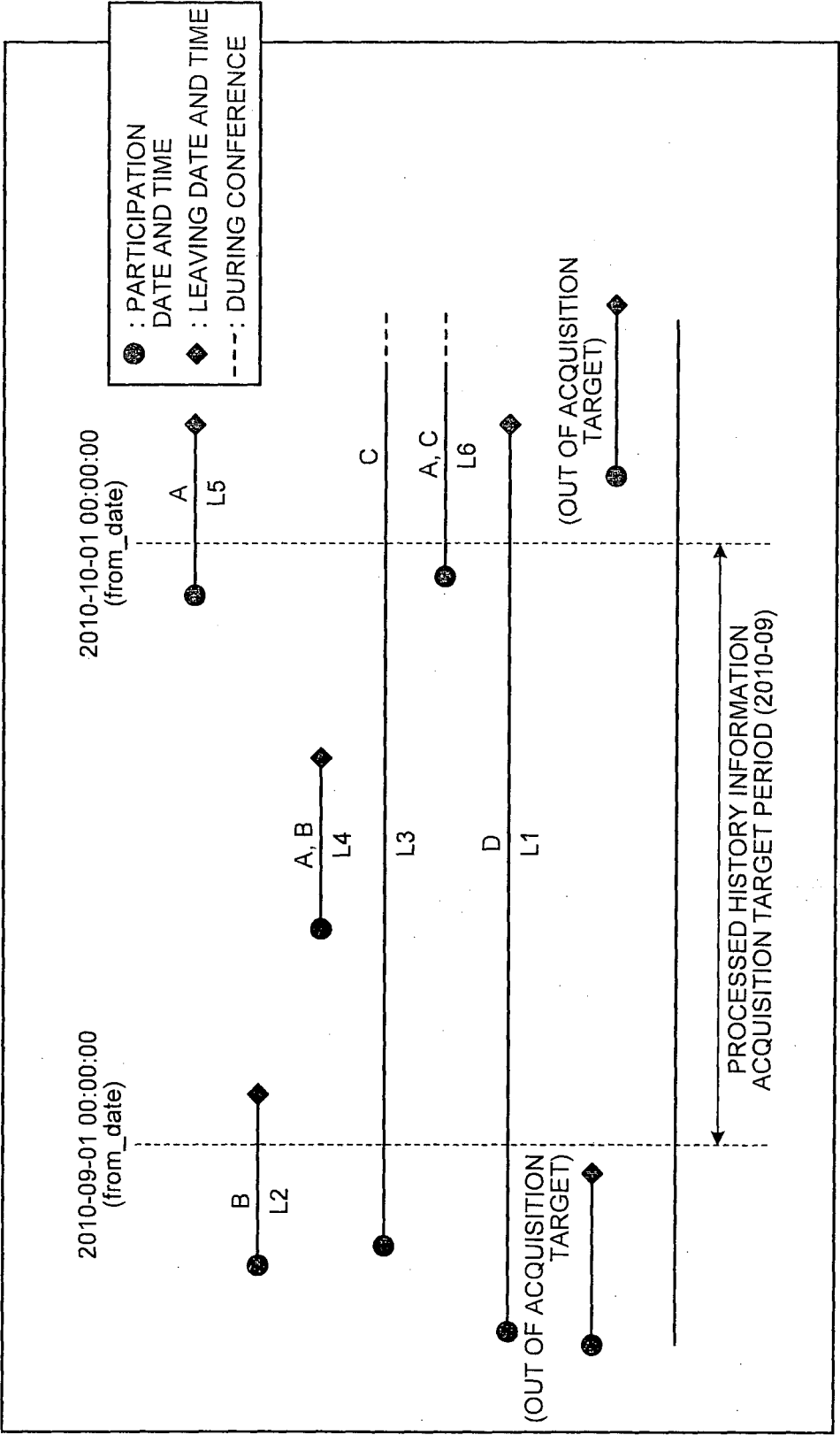


FIG.15A



## FIG.15B

SEARCH CONDITION A : (TERMINAL ID = TERMINAL ID OF ACQUISITION REQUESTING TERMINAL)  
&& from\_date  $\leq$  PARTICIPATION DATE AND TIME) && (PARTICIPATION DATE AND TIME < to\_date)

SEARCH CONDITION B : (TERMINAL ID = TERMINAL ID OF ACQUISITION REQUESTING TERMINAL)  
&& from\_date  $\leq$  LEAVING DATE AND TIME) && (LEAVING DATE AND TIME < to\_date)

SEARCH CONDITION C : (TERMINAL ID = TERMINAL ID OF ACQUISITION REQUESTING TERMINAL)  
&& (LEAVING STATE = "DURING CONFERENCE") && (PARTICIPATION DATE AND TIME < to\_date)

SEARCH CONDITION D : (TERMINAL ID = TERMINAL ID OF ACQUISITION REQUESTING TERMINAL)  
&& (PARTICIPATION TIME  $\leq$  to\_date - from\_date) && (PARTICIPATION DATE AND TIME < from\_date)  
&& (LEAVING DATE AND TIME  $\geq$  to\_date)

16/20

## FIG.16

TRANSMISSION TERMINAL  
SETTING UTILITY SCREEN

1001

1000

| TERMINAL ID: 110001                                                                                                                                 |                             |                            |                        |                                              |                                            |                         | HELP LOGOUT      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------|------------------------|----------------------------------------------|--------------------------------------------|-------------------------|------------------|--|
| MAIN MENU > CONFERENCE HISTORY                                                                                                                      |                             |                            |                        |                                              |                                            |                         |                  |  |
| CONFERENCE HISTORY (SEPTEMBER, 2010)                                                                                                                |                             |                            |                        |                                              |                                            |                         |                  |  |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <span>◀</span> <span>SEPTEMBER, 2010</span> <span>▶</span> </div> |                             |                            |                        |                                              |                                            |                         |                  |  |
| PARTICI-<br>PATION<br>DATE<br>AND TIME                                                                                                              | LEAVING<br>DATE<br>AND TIME | PARTICI-<br>PATION<br>TIME | HOST<br>TERMINAL<br>ID | CONFER-<br>ENCE<br>START<br>DATE<br>AND TIME | CONFER-<br>ENCE<br>END<br>DATE<br>AND TIME | CONFER-<br>ENCE<br>TIME | LEAVING<br>STATE |  |
| 2010-09-01<br>10:00:00                                                                                                                              | 2010-09-01<br>11:30:25      | 01:30:25                   | 110001                 | 2010-09-01<br>10:00:00                       | 2010-09-01<br>11:30:25                     | 01:30:25                | LEAVE            |  |
| 2010-09-02<br>15:10:00                                                                                                                              | 2010-09-02<br>15:30:40      | 00:20:40                   | 110003                 | 2010-09-02<br>14:50:00                       | 2010-09-02<br>16:50:00                     | 02:00:00                | LEAVE            |  |
| 2010-09-05<br>13:00:00                                                                                                                              | 2010-09-05<br>14:00:00      | 01:00:00                   | 110002                 | 2010-09-05<br>13:00:00                       | 2010-09-05<br>14:30:00                     | 1:30:00                 | FORCE-<br>QUIT   |  |
| 2010-09-12<br>18:01:10                                                                                                                              | 2010-09-12<br>20:30:45      | 02:29:35                   | 110005                 | 2010-09-12<br>18:00:00                       | 2010-09-12<br>20:31:00                     | 2:31:00                 | LEAVE            |  |

17/20

FIG.17

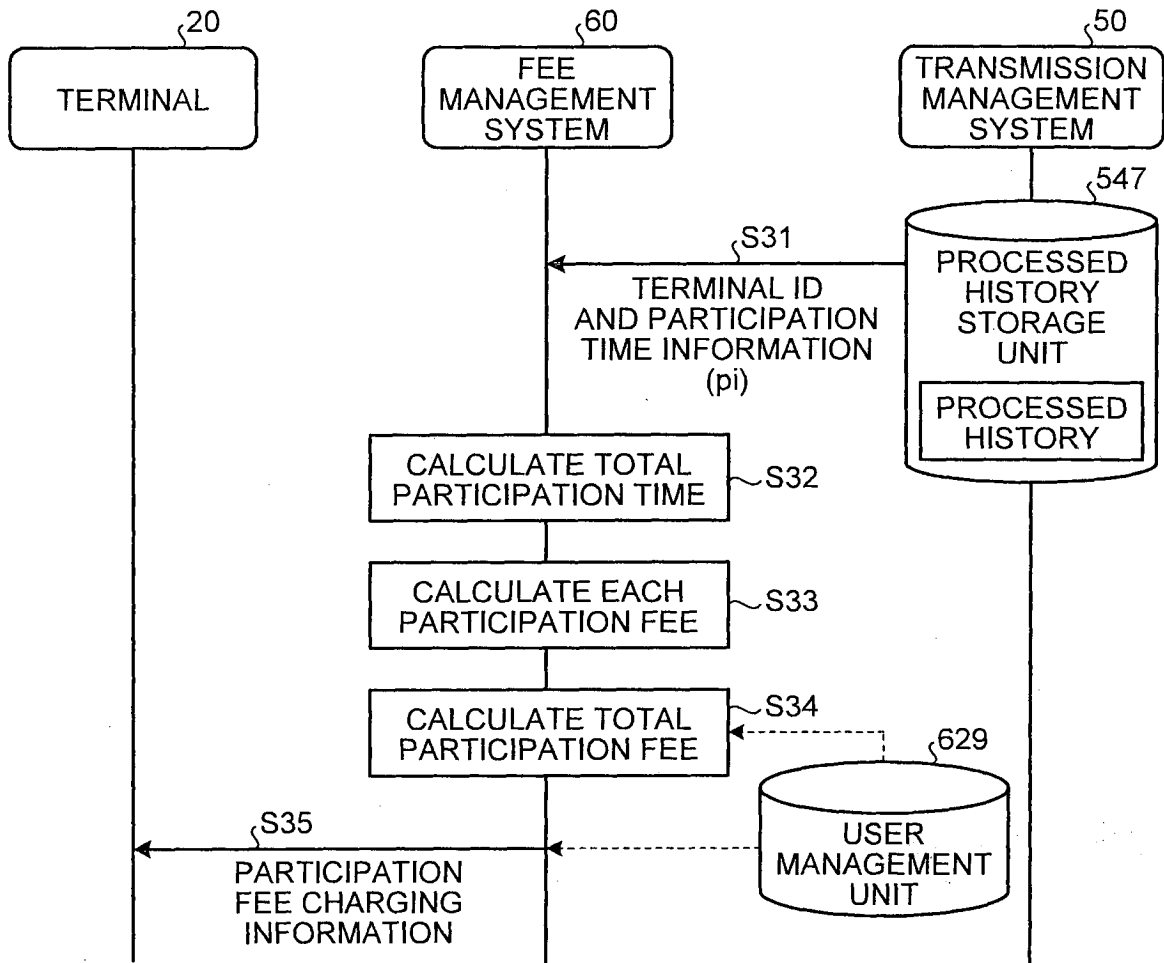


FIG.18

| USER ID | TERMINAL ID | TOTAL PARTICIPATION TIME FOR EACH TERMINAL | PARTICIPATION FEE FOR EACH TERMINAL | TOTAL PARTICIPATION FEE FOR EACH USER |
|---------|-------------|--------------------------------------------|-------------------------------------|---------------------------------------|
| a123    | 11001       | 21 HOURS 32 MINUTES                        | 12920 YEN                           | 45020 YEN                             |
|         | 11002       | 17 HOURS 54 MINUTES                        | 10740 YEN                           |                                       |
|         | 11003       | 11 HOURS 10 MINUTES                        | 6700 YEN                            |                                       |
|         | ...         | ...                                        | ...                                 |                                       |
| b234    | 11001       | 14 HOURS 47 MINUTES                        | 8870 YEN                            | 34370 YEN                             |
|         | 11001       | 12 HOURS 35 MINUTES                        | 7550 YEN                            |                                       |
|         | 11001       | 11 HOURS 10 MINUTES                        | 10750 YEN                           |                                       |
|         | ...         | ...                                        | ...                                 |                                       |
| c345    | 11001       | 22 HOURS 03 MINUTES                        | 13230 YEN                           | 38600 YEN                             |
|         | 11001       | 20 HOURS 45 MINUTES                        | 12450 YEN                           |                                       |
|         | 11001       | 15 HOURS 15 MINUTES                        | 9150 YEN                            |                                       |
|         | ...         | ...                                        | ...                                 |                                       |
| d456    | 11001       | 8 HOURS 45 MINUTES                         | 5250 YEN                            | 17820 YEN                             |
|         | 11001       | 16 HOURS 38 MINUTES                        | 9980 YEN                            |                                       |
|         | 11001       | 2 HOURS 45 MINUTES                         | 1650 YEN                            |                                       |
|         | ...         | ...                                        | ...                                 |                                       |
| ...     | ...         | ...                                        | ...                                 | ...                                   |



FIG.19B

CONFERENCE HISTORY MANAGEMENT TABLE (t12)

| CONFERENCE ID | HOST TERMINAL ID | CONFERENCE START DATE AND TIME | CONFERENCE END DATE AND TIME | CONFERENCE TIME | DEFECT FLAG |
|---------------|------------------|--------------------------------|------------------------------|-----------------|-------------|
| conf001       | 110001           | 2010-09-01 10:00:00            | 2010-09-01 11:30:25          | 01:30:25        | 1           |
| conf002       | 110005           | 2010-09-12 14:30:00            | -                            | -               | 1           |
| ...           | ...              | ...                            | ...                          | ...             | ...         |