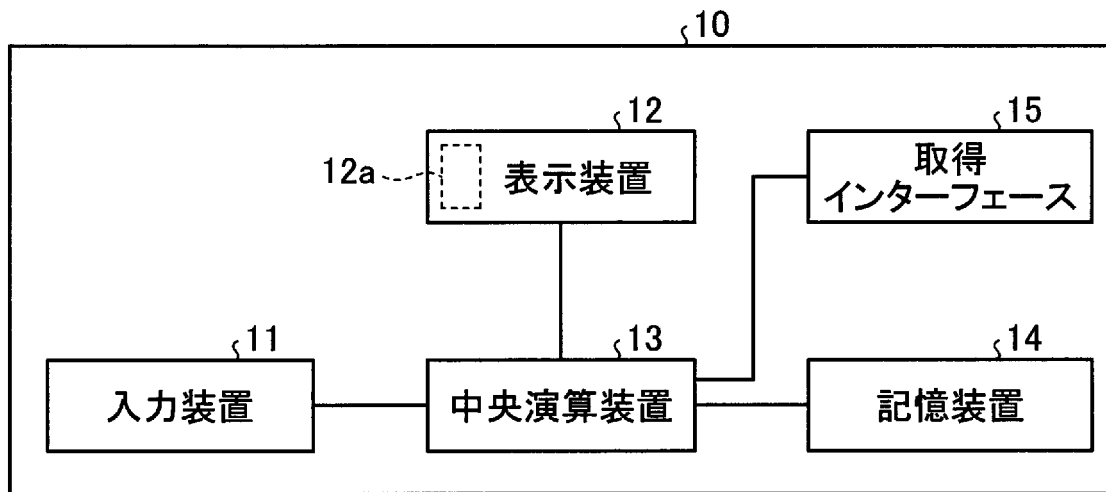
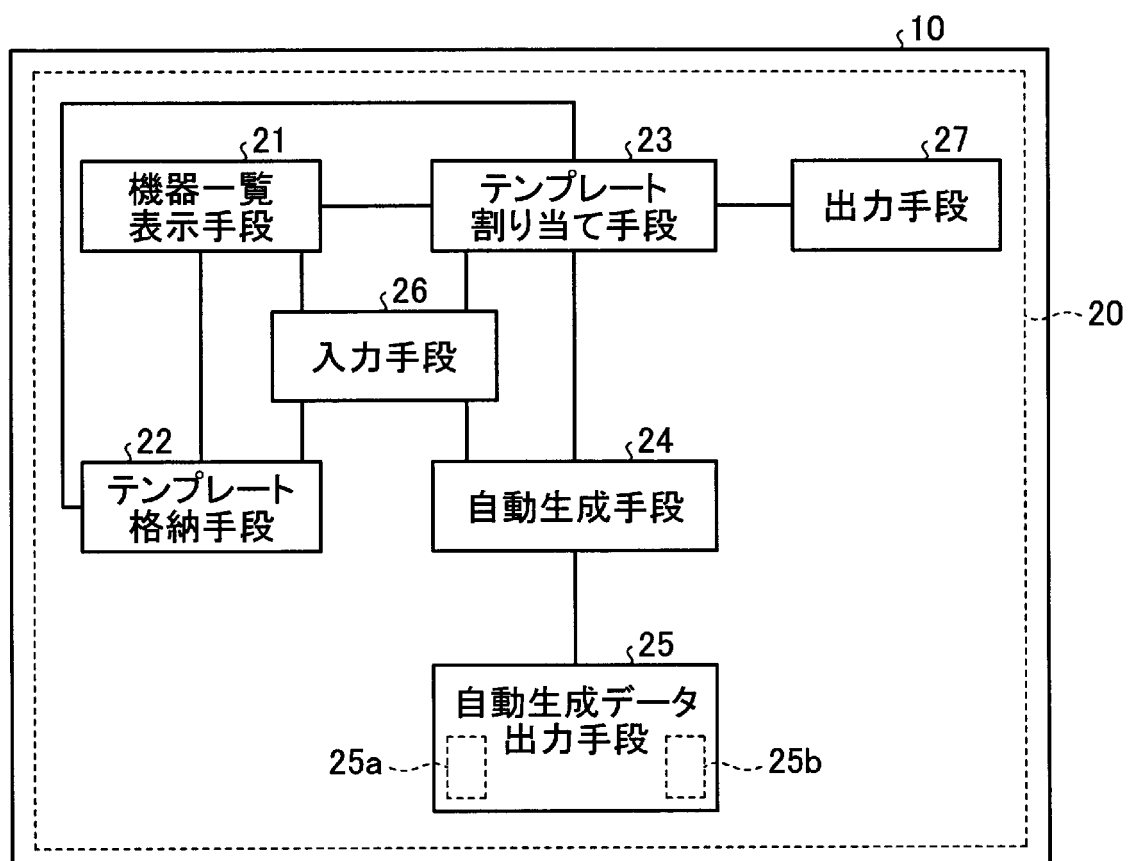


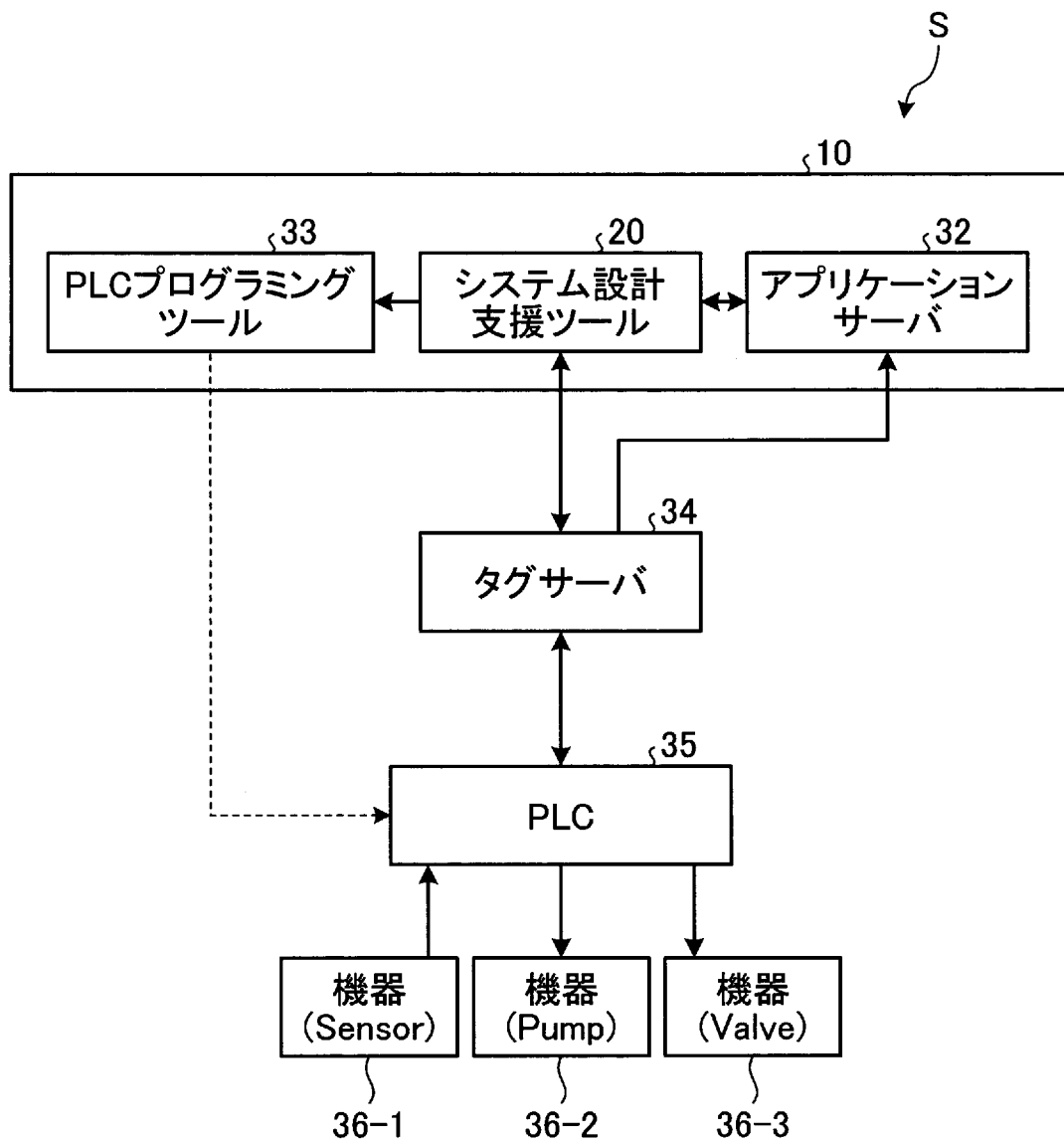
[図1]



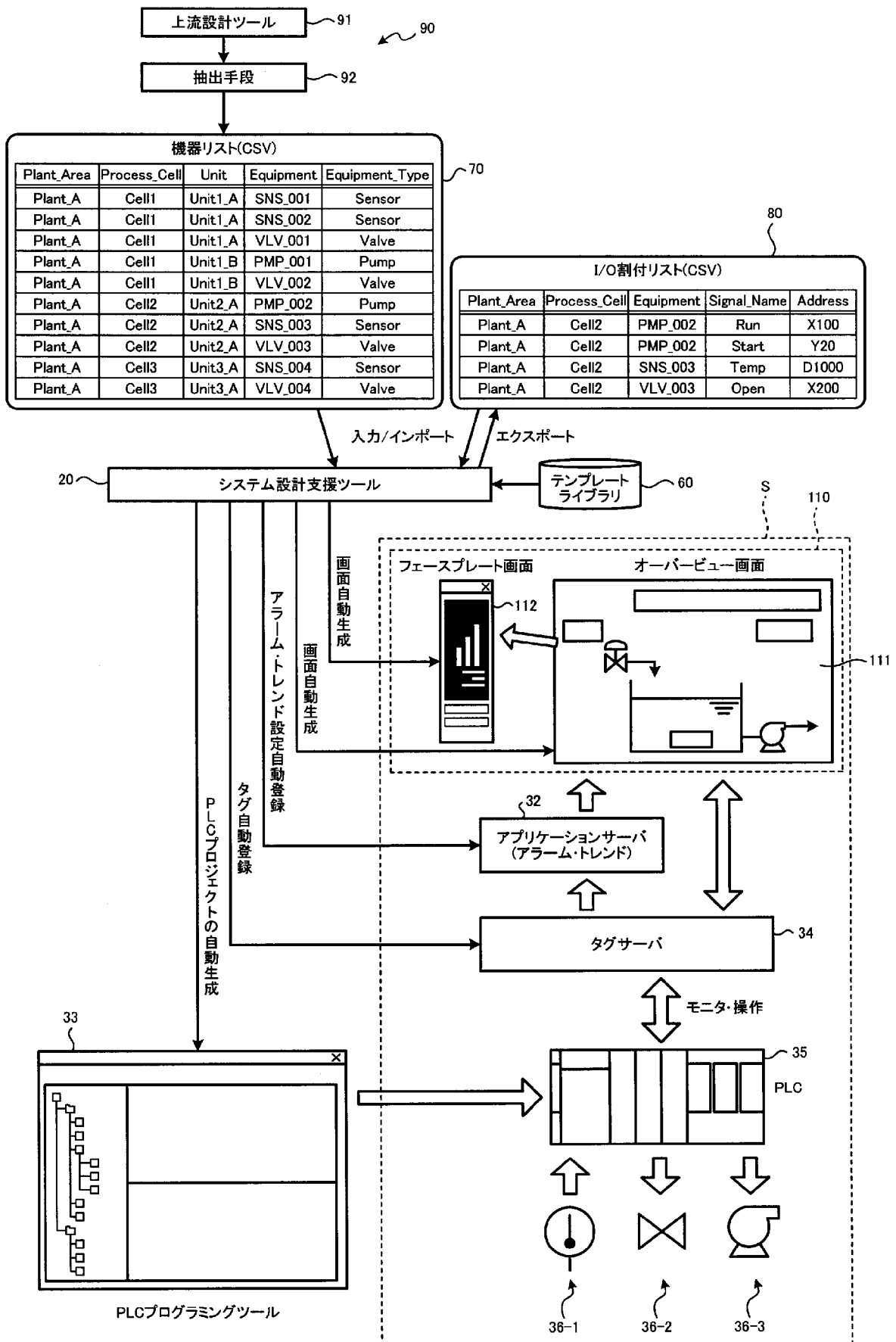
[図2]



[図3]



[図4]



[図5]

70

| 71<br>Plant_Area | 72<br>Process_Cell | 73<br>Unit | 74<br>Equipment | 75<br>Equipment_Type |
|------------------|--------------------|------------|-----------------|----------------------|
| Plant_A          | Cell1              | Unit1_A    | SNS_001         | Sensor               |
| Plant_A          | Cell1              | Unit1_A    | SNS_002         | Sensor               |
| Plant_A          | Cell1              | Unit1_A    | VLV_001         | Valve                |
| Plant_A          | Cell1              | Unit1_B    | PMP_001         | Pump                 |
| Plant_A          | Cell1              | Unit1_B    | VLV_002         | Valve                |
| Plant_A          | Cell2              | Unit2_A    | PMP_002         | Pump                 |
| Plant_A          | Cell2              | Unit2_A    | SNS_003         | Sensor               |
| Plant_A          | Cell2              | Unit2_A    | VLV_003         | Valve                |
| Plant_A          | Cell3              | Unit3_A    | SNS_004         | Sensor               |
| Plant_A          | Cell3              | Unit3_A    | VLV_004         | Valve                |

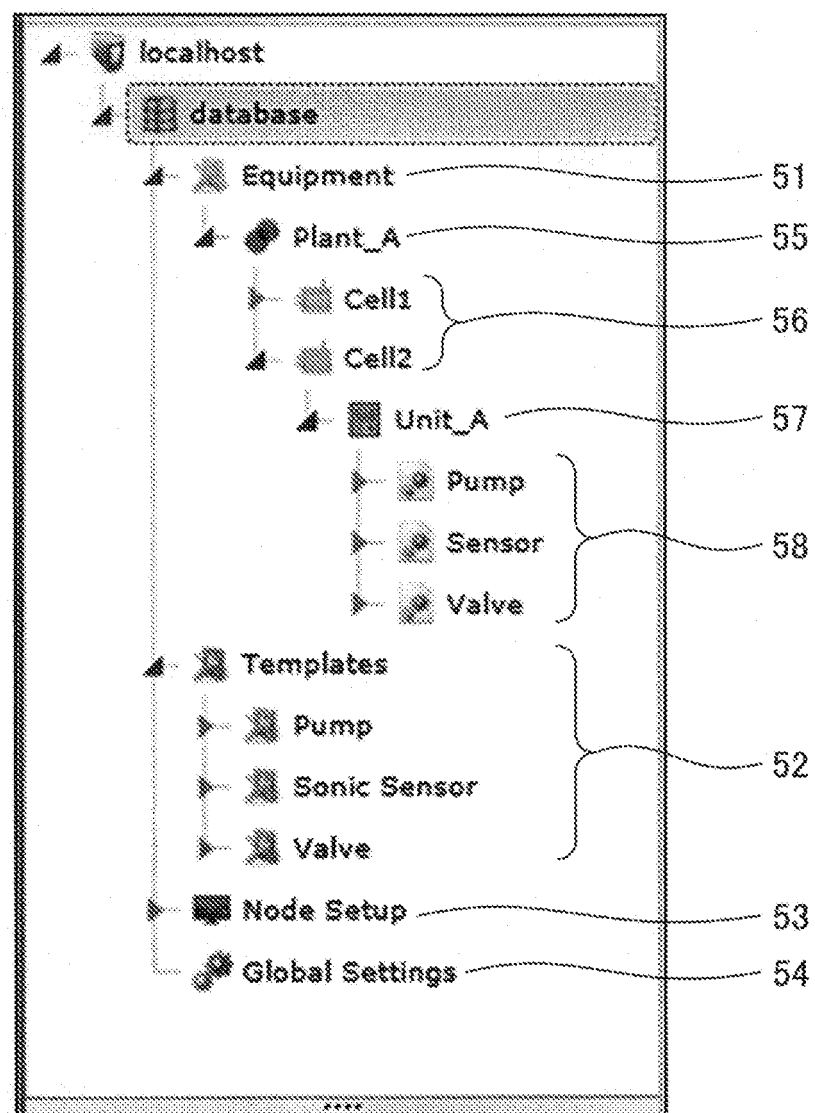
[図6]

80

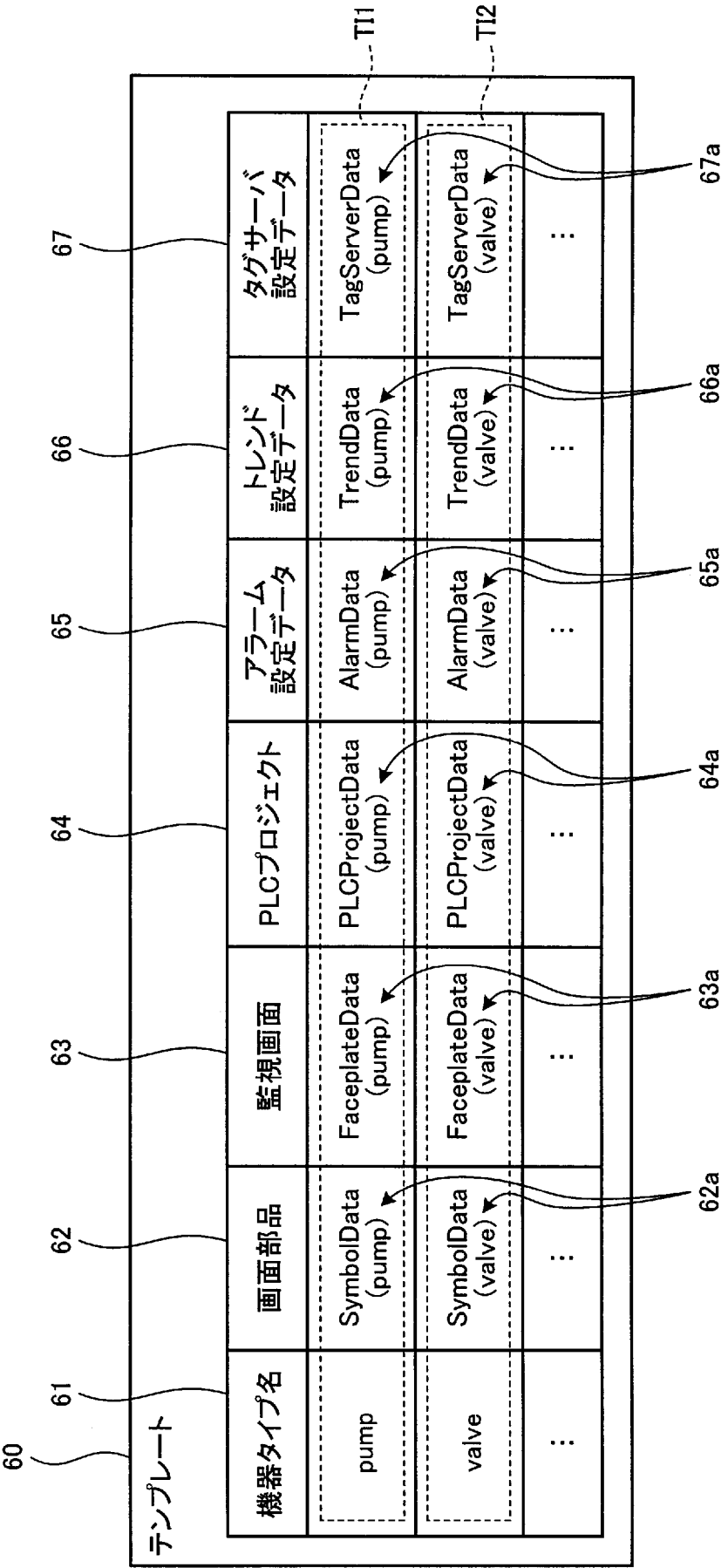
| 81<br>Plant_Area | 82<br>Process_Cell | 83<br>Equipment | 84<br>Signal_Name | 85<br>Address |
|------------------|--------------------|-----------------|-------------------|---------------|
| Plant_A          | Cell2              | PMP_002         | Run               | X100          |
| Plant_A          | Cell2              | PMP_002         | Start             | Y20           |
| Plant_A          | Cell2              | SNS_003         | Temp              | D1000         |
| Plant_A          | Cell2              | VLV_003         | Open              | X200          |

Figure 1-10 shows the main screen of the HMI/SCADA software. The interface is divided into several panels. On the left is a 'Tools and Settings' panel with icons for Home, Applications, Tools and Settings, and a toolbar with icons for Cut, Copy, Paste, and other functions. Below this is a 'Source' panel with a tree view showing the project structure: 'localhost' -> 'Database' -> 'Equipment' -> 'Plant\_A' -> 'Cell1' -> 'Unit\_A' -> 'Pump' -> 'Sensor' -> 'Valve'. The main area is divided into two sections. The top section is 'Unit\_A' with a 'Name' field set to 'Unit\_A' and a 'Description' field. Below this are 'Symbols' and 'Main Display' sections, each with a 'Description' field and a 'Main Display' field. The bottom section is 'Templates' with a list of templates: 'システム構成支援ツール', 'SCADA画面構築ツール', 'アラーム構築ツール', and 'トレンド構築ツール'. The right side of the screen has a 'Close' button and a 'Refresh' button.

[図8]



[図9]



[図10]

