

WHAT IS CLAIMED IS:

1. A substrate processing apparatus, comprising:

a display having an operation screen including a two-dimensional space in which one axis indicates reservation statuses of various jobs executed by the apparatus including a current job being executed by the apparatus, and the other axis indicates a predetermined monitoring period; and

a display controller configured to:

acquire various information including a start time and a scheduled end time of the current job being executed by the apparatus, or including a scheduled start time and a scheduled end time of a job reserved by the apparatus;

calculate a scheduled execution time of the current job based on the acquired start time and the acquired scheduled end time of the current job, and/or a scheduled execution time of the reserved job based on the acquired scheduled start time and the acquired scheduled end time of the reserved job; and

display a chart as an image indicating the scheduled execution time of the current job and the scheduled execution time of the reserved job on the display,

wherein when the various information includes information indicating a recovery condition waiting, the display controller is further configured to display an icon indicating the recovery condition waiting on the display.

2. The apparatus according to Claim 1, wherein the display controller is further configured to acquire a current time, and to display a line indicating the current time on the display.

3. The apparatus according to Claim 1, wherein when a depression of a factor button installed on the display is detected, the display controller is configured to display a factor for the recovery condition waiting.

4. The apparatus according to Claim 1, wherein when a depression of an update button installed on the display is detected, the display controller is configured to recalculate the scheduled end time of the current job, recalculate the scheduled start time and the scheduled end time of the reserved job, and display the current job and the reserved job on the display based on the recalculated scheduled start time and the recalculated scheduled end times.
5. The apparatus according to Claim 1, wherein when a depression of an update button installed on the display is detected, the display controller is configured to update a current time and to display the updated current time on the display.
6. The apparatus according to Claim 1, wherein the display controller is configured to display an icon for identifying whether a recipe executed in the job is a recipe for processing a substrate or a recipe for maintaining a component on an item number cell installed in the display.
7. A substrate processing apparatus, comprising:
 - a display having an operation screen including a two-dimensional space in which one axis indicates an order number of executing jobs and the other axis indicates a predetermined monitoring period;
 - a storage part configured to store various information including a start time and an end time of a job including a pre-processing step, a main processing step and a post-processing step executed by the apparatus; and
 - a display controller configured to calculate an execution time of each of the pre-processing step, the main processing step, and the post-processing step acquired from the storage part, and display a chart as an image indicating an execution time of the job that has been executed on the display while identifiably displaying the job for each step,wherein when the various information includes information indicating a recovery condition waiting, the display controller is further configured to display an icon indicating the

recovery condition waiting on the display.

8. The apparatus according to Claim 7, wherein the display controller is configured to display an item number cell installed in the display in different colors according to a presence or absence of data indicating an abnormality that has occurred during execution of the job.

9. The apparatus according to Claim 7, wherein the display controller is configured to display an icon for identifying whether a recipe executed in the job is a recipe for processing a substrate or a recipe for maintaining a component on an item number cell installed in the display.

10. A display method for a substrate processing apparatus having an operation screen including a two-dimensional space in which one axis indicates reservation statuses of various jobs executed by the apparatus including a current job being executed by the apparatus, and the other axis indicates a predetermined monitoring period, the method comprising:

acquiring various information including a start time and a scheduled end time of the current job being executed by the apparatus, or including a scheduled start time and a scheduled end time of a job reserved by the apparatus;

calculating a scheduled execution time of the current job based on the acquired start time and the acquired scheduled end time of the current job, and/or a scheduled execution time of the reserved job based on the acquired scheduled start time and the acquired scheduled end time of the reserved job;

displaying a chart as an image indicating the scheduled execution time of the current job and the scheduled execution time of the reserved job; and

displaying an icon indicating a recovery condition waiting on the operation screen when the various information includes information indicating the recovery condition waiting.

11. A display method of a substrate processing apparatus having an operation screen

including a two-dimensional space in which one axis indicates an order number of executing jobs and the other axis indicates a predetermined monitoring period, the method comprising:

storing various information including a start time and an end time of a job including a pre-processing step, a main processing step and a post-processing step executed by the apparatus;

calculating an execution time of each of the pre-processing step, the main processing step, and the post-processing step;

displaying a chart as an image indicating an execution time of the job that has been executed while identifiably displaying the job for each step; and

displaying an icon indicating a recovery condition waiting on the operation screen when the various information includes information indicating the recovery condition waiting.

12. A method for manufacturing a semiconductor device comprising:

acquiring various information including a start time and a scheduled end time of a current job being executed by an apparatus, or including a scheduled start time and a scheduled end time of a job reserved by the apparatus;

calculating a scheduled execution time of the current job based on the acquired start time and the acquired scheduled end time of the current job, and/or a scheduled execution time of the reserved job based on the acquired scheduled start time and the acquired scheduled end time of the reserved job; and

displaying progress statuses of the current job and the reserved job on an operation screen including a two-dimensional space in which one axis indicates reservation statuses of various jobs executed by the apparatus including the current job being executed by the apparatus, and the other axis indicates a predetermined monitoring period,

wherein displaying the progress statuses includes:

displaying a chart as an image indicating the scheduled execution time of the current job and the scheduled execution time of the reserved job; and

displaying an icon indicating a recovery condition waiting on the operation screen when the various information includes information indicating the recovery condition waiting.

13. A method for manufacturing a semiconductor device comprising:

storing various information including a start time and an end time of a job including a pre-processing step, a main processing step and a post-processing step executed by an apparatus;

calculating an execution time of each of the pre-processing step, the main processing step, and the post-processing step; and

displaying a progress status of the job on an operation screen including a two-dimensional space in which one axis indicates an order number of executing the job and the other axis indicates a predetermined monitoring period,

wherein displaying the progress status includes:

displaying a chart as an image indicating the execution time of the executed job while identifiably displaying the job for each step; and

displaying an icon indicating a recovery condition waiting on the operation screen when the various information includes information indicating the recovery condition waiting.