WHAT IS CLAIMED IS:

1. A method for processing a chemical liquid, comprising:

providing a purification system comprising at least one filtration medium, selected from a filter, an ion exchange membrane, and an ion adsorption membrane;

performing a soaking process by placing the at least one filtration medium in a container and soaking the at least one filtration medium in a liquid stored in the container for at least a soaking period of about 12 to 18 hours, and there are at most five soaking periods;

after the soaking process, performing a treatment process on the purification system by passingusing a treatment liquid having a content of iron (Fe) and calcium (Ca) limited to about 10 ppb or less through the at least one filtration medium, wherein the liquid used in the soaking process is the same as the treatment liquid and the treatment liquid is the same as at least one organic solvent contained in the chemical liquid; and

subsequent to the treatment process, processing thea chemical liquid with the purification system configured in an chemical liquid manufacturing apparatus,

wherein the chemical liquid manufacturing apparatus comprises the purification system, and a processed chemical liquid is obtained by introducing the chemical liquid into the chemical liquid manufacturing apparatus and passing the chemical liquid through the purification system.

2. The method of claim 1, wherein the purification system is configured in the chemical liquid manufacturing apparatus after the treatment process is performed.

3. The method of claim 1, wherein the purification system is configured in the chemical liquid manufacturing apparatus before the treatment process is performed.

~~4. The method of claim 1, wherein the treatment process comprises passing the treatment liquid through the system comprising the at least one filtration medium.~~

~~5. The method of claim 1, wherein the treatment liquid is the same as at least one organic solvent contained in the chemical liquid.~~

~~6.~~4. The method of claim 1, wherein the treatment process is performed one or more times.

~~7.~~5. The method of claim 1, wherein the treatment process is performed on the purification system comprising at least two filtration media, selected from the filter, the ion exchange membrane, and the ion adsorption membrane.

~~8.~~6. The method of claim 1, wherein the treatment process is performed on the purification system comprising ~~one of~~ the filter and the ion exchange membrane, or the filter and the ion adsorption membrane.

~~9.~~7. The method of claim 1, wherein the at least one filtration medium ~~comprises~~ is a polytetrafluoroethylene (PTFE) filter having a pore size of 50nm or less.

~~10.~~8. The method of claim 1, wherein the at least one filtration medium ~~comprises~~ is a polytetrafluoroethylene (PTFE) filter having a pore size of 10nm or less.

~~11. The method of claim 1, wherein a treatment condition of the treatment process depends on a combination of the at least one first filtration medium and the treatment liquid.~~

~~12. The method of claim 1, wherein the processing of the chemical liquid comprises a purification process.~~

~~13. The method of claim 1, wherein the treatment process comprises soaking the at least one filtration medium in a liquid, which is a same type as the treatment liquid, for at least a soaking period of about 12 to 18 hours prior to passing the treatment liquid through the system comprising the at least one filtration medium, and there are at most five soaking periods.~~

~~14.~~9. A method for purifying a chemical liquid, comprising:

providing a first purification system comprising at least one first filtration medium, selected from a first filter, a first ion exchange membrane, and a first ion adsorption membrane;

performing a purification process on ~~a~~ the chemical liquid with the first purification system configured in a chemical liquid manufacturing ~~production~~ apparatus; and

~~applying a first treatment liquid to the at least one first filtration medium~~ before the purification process is performed, performing a soaking process by placing the at least one first filtration medium in a container and soaking the at least one first filtration medium in a liquid stored in the container for at least a soaking period of about 12 to 18 hours, and there are at most five soaking periods;

after the soaking process and before the purification process, applying a first treatment liquid to the at least one first filtration medium, wherein a content of iron (Fe) atoms and calcium (Ca) in the first treatment liquid is less than about 10 ppb, and the liquid used in the soaking process is the same as the first treatment liquid and the treatment liquid is the same as at least one organic solvent contained in the chemical liquid,

wherein the chemical liquid manufacturing apparatus comprises the first purification system, and a processed chemical liquid is obtained by introducing the chemical liquid into the chemical liquid manufacturing apparatus and passing the chemical liquid through the first purification system.

~~15.~~10. The method of claim 9~~14~~, wherein the step of applying the first treatment liquid comprises flushing the first treatment liquid into the first purification system.

~~16.~~11. The method of claim 9~~14~~ further comprising:

providing a second purification system comprising at least one second filtration medium, selected from a second filter, a second ion exchange membrane, and a second ion adsorption membrane; and

applying a second treatment liquid to the at least one second filtration medium before the purification process is performed, wherein a content of iron (Fe) and calcium (Ca) in the second treatment liquid is less than about 10 ppb,

wherein the chemical liquid manufacturing apparatus further comprises the second purification system, and the processed chemical liquid is obtained by introducing the chemical

liquid into the chemical liquid manufacturing apparatus and passing the chemical liquid through the first purification system and the second purification system.

~~17.~~12. The method of claim 11~~16~~, wherein the step of applying the second treatment liquid comprises flushing the second treatment liquid into the second purification system.

~~18.~~13. The method of claim 11~~16~~, wherein the purification process is performed on the chemical liquid with the second purification system configured in the chemical liquid manufacturing ~~production~~ apparatus.

~~19.~~14. The method of claim 11~~16~~, wherein the first purification system and the second purification system are configured in the chemical liquid manufacturing ~~production~~ apparatus after the steps of applying the first treatment liquid and the second treatment liquid.

~~20.~~15. The method of claim 11~~16~~, wherein the first purification system and the second purification system are configured in the chemical liquid manufacturing ~~production~~ apparatus before the steps of applying the first treatment liquid and the second treatment liquid.

~~21.~~16. The method of claim 11~~16~~, wherein the step of applying the first treatment liquid and the step of applying the second treatment liquid are respectively performed once.

~~22.~~17. The method of claim 11~~16~~, wherein a number of times of applying the first treatment liquid is different from a number of times of applying the second treatment liquid.