CLAIMS

1. A desalination system for desalinating sewage water and sea-water, comprising:

a purification apparatus for purifying by permeating the sewage water;

a first RO membrane for

permeating permeate water which permeated the purification apparatus; and

including and removing salinity thereof in first concentrated-water and also generating industrial water;

a first pretreatment apparatus for performing pretreatment of at least either of concentration filtration or NF membrane filtration to the first concentrated-water; and

a second RO membrane for

permeating first water to be treated to which pretreatment was performed by the first pretreatment apparatus; ~~and~~

including and removing salinity thereof in second concentrated-water and also generating industrial water; and

a switching means for switching to drain the first concentrated-water or to flow the first concentrated-water to the first pretreatment apparatus of down-stream.

2. A desalination system according to claim 1, comprising:

a second pretreatment apparatus for performing pretreatment of at least either of concentration filtration or NF membrane filtration to the second concentrated-water; and

a third RO membrane for

permeating second water to be treated to which pretreatment was performed by the second pretreatment apparatus; ~~and~~

including and removing salinity thereof in third concentrated-water and also generating industrial water; and

a switching means for switching to drain the second concentrated-water or to flow the second concentrated-water to the second pretreatment apparatus of down-stream.

~~3. A desalination system for desalinating sewage water and sea-water, comprising:~~

~~a purification apparatus for purifying by permeating the sewage water;~~

~~a plurality of RO membranes for~~

~~permeating permeate water which permeated the purification apparatus; and~~

~~including and removing salinity thereof in concentrated-water and also generating industrial water; and~~

~~a single of or a plurality of pretreatment apparatuses for performing pretreatment of at least either of concentration filtration or NF membrane filtration to concentrated-water which was removed by either of a plurality of the RO membranes.~~

~~4. A desalination system according to either one of the claim 1 to 3, comprising a switching means for switching to drain the concentrated-water or to flow the concentrated-water to the pretreatment apparatus of down-stream, in down-stream of concentrated-water side removed by the RO membrane.~~

~~5.~~3. A desalination system according to ~~either one of the~~ claim 1 ~~to 4~~or claim 2, comprising:

a UF membrane for removing particles in the sea-water by permeating the sea-water; and

an RO membrane for

permeating water to be treated which permeated the UF membrane; and

including and removing salinity of the water to be treated and also generating drinking water.

~~6~~4. A desalination method for desalinating sewage water and sea-water,

generating industrial water by making the sewage water permeate purification apparatus and first RO membrane; and

generating industrial water by making first concentrated-water which was removed by the first RO membrane permeate second RO membrane, after at least either pretreatment of concentration filtration or NF membrane filtration is performed; and

switching to drain the first concentrated-water or to flow the first concentrated-water to the pretreatment performed in down-stream.

~~7~~5. A desalination method according to claim ~~6~~4, for generating industrial water by permeating third RO membrane, after second concentrated-water removed by

the second RO membrane performs at least either pretreatments of concentration filtration or NF membrane filtration; and

switching to drain the second concentrated-water or to flow the second concentrated-water to the pretreatment performed in down-stream.

~~8. A desalination method for desalinating sewage water and sea water, purifying the sewage water by permeating purification apparatus; and repeating~~

~~a process to generate industrial water by making permeate water which permeated the purification apparatus permeate RO membrane; and~~

~~a process to perform at least either pretreatments of concentration filtration or NF membrane filtration to concentrated water removed by the RO membrane.~~

~~9. A desalination method according to either one of the claim 6 to 8, switching to drain the concentrated-water or to flow the concentrated-water to the pretreatment performed in down-stream, in down-stream of concentrated-water side removed by the RO membrane.~~

~~10~~6. A desalination method according to ~~either one of the~~ claim ~~6~~4 ~~to 9~~or claim 5, for generating drinking water by making the sea-water permeate UF membrane and RO membrane.