

ABSTRACT

Provided is an inexpensive ion-exchange apparatus having an increased ion-exchange capacity. An ion-exchange apparatus includes a raw-water tank 1 containing a liquid to be treated, the liquid being composed of a liquid that contains impurity ions, a treatment tank 2 containing a treatment material that contains exchange ions composed of ions exchangeable with the impurity ions, and an ion exchanger 3 that permits the passage of the impurity ions from the raw-water tank 1 to the treatment tank 2 and the passage of the exchange ions from the treatment tank 2 to the raw-water tank 1, in which the treatment material in the treatment tank 2 has a higher molarity than the liquid to be treated in the raw-water tank 1.

Fig. 1