

ABSTRACT

SIMPLIFIED FILTER DEVICE

A flow passage for passing a raw liquid to be processed therethrough that is used to test a separation membrane is of the simplest inline type (so-called "inline" type) and is the simplest in construction. In spite thereof, the separation membrane through which the raw liquid is going to be filtered is mounted in a direction substantially perpendicular to the flow passage. In view of this, the object of the present invention is to provide a filtering device with high filtering efficiency, which is used to test the membrane performance of this separation membrane and which enables exchanging its membrane in an easily removably attachable and quick way.

The simplified type filtering device that includes a bowl 1 having a discharging port 13 on one side thereof and having on the other side thereof an opening portion 2 in which the separation membrane is loaded, the separation membrane for filtering the raw liquid therethrough, a filter plate 5 by which this separation membrane is fixed to the bowl 1 and which has opening portions for passing the raw liquid or a filtered liquid therethrough, a head 3 having on one side thereof a convex pressing portion 23 that presses the filter plate 5 from one side to prevent the filtered liquid from being leaked and having on the other side thereof a raw liquid supplying opening 15, and means that fastens the head 3 onto the bowl 1 so that the head may be pressed against the bowl 1, such as female and male screws 19, 21 provided with respect to the head 3 and the bowl 1 and screw-engaged with each other, or a separate locking nut 33.

Selected Drawing: Fig. 2