

ABSTRACT

MEMBRANE FILTRATION SYSTEM AND MEMBRANE BIOREACTOR INCLUDING THE SAME

A membrane filtration system, capable of effectively removing foreign matter attached to a separation membrane while saving energy by reciprocating the separation membrane, includes a treatment bath, a membrane support frame disposed in the treatment bath, a separation membrane module installed in the membrane support frame, a reciprocating part connected with the membrane support frame to reciprocate the membrane support frame, and a sludge floating part disposed on a lower end of the membrane support frame to float sludge accumulated in the treatment bath, and a filtered-water discharge part discharging filtered water that has been filtered via the separation membrane module. The filtered-water discharge part is formed to be movable or stretchable in response to a reciprocating motion of the membrane support frame.

Fig. 1