

ABSTRACT

SPIRAL TYPE SEAWATER DESALINATION APPARATUS

An embodiment of the present invention includes: a
5 spiral type pressure vessel 15 in which a plurality of
reverse osmosis membrane apparatuses 13-1 to 13-10 having
spiral reverse osmosis membranes is connected through a
permeated water pipe 14, and is housed in a connected
state; a raw water supplying line that supplies raw water
10 11 into the pressure vessel 15; a concentrated water
discharging line through which concentrated water 16
concentrated is discharged; a plug 17 that blocks the
permeated water pipe 14 at the center of the reverse
osmosis membrane apparatuses 13-1 to 13-10; a front-side
15 permeated water line and a front-side permeated water line
through which front-side permeated water 12-1 and rear-side
permeated water 12-2 are discharged to the exterior,
respectively, which are separated fore and aft,
respectively, of the permeated water pipe 14 blocked by the
20 plug 17; a pressure regulating valve 20 that is mounted in
the raw water supplying line and regulates the supply
pressure of the raw water 11; and a flow regulating valve
22 that is mounted in the front-side permeated water line
and regulates the pressure of the front-side permeated
25 water 12-1.

Fig. 1