

FRESH WATER GENERATION SYSTEM

Abstract

Provided is a fresh water generation system which
5 filters biotreated water produced by microbiologically
treating waste water via a primary semi-permeable membrane
(8), and then mixes concentrated water rejected by the
filtration with seawater, thereby to filter the mixed water
via a secondary semi-permeable membrane (14). This system
10 enables frequencies of chemical cleaning and replacement of
the secondary semi-permeable membrane to be reduced. The
fresh water generation system comprises: a primary semi-
permeable membrane apparatus (9) which separates microorganism
treating waste water into permeated water and concentrated
15 water; a secondary semi-permeable membrane apparatus (13)
which filters mixed water prepared by mixing the concentrated
water into seawater. In the fresh water generation system,
the primary semi-permeable membrane (8) has an equal to or a
higher microorganism adhesive property than the secondary
20 semi-permeable membrane (14).

(Figure 1)