

WATER TREATMENT APPARATUS AND WATER TREATMENT METHOD

ABSTRACT

Provided is a water treatment apparatus that can
5 efficiently subject to-be-treated water (20) to water
treatment.

A treatment tank (1), having therein a grounded
electrode (5) and a high-voltage electrode (4) opposing the
grounded electrode (5), for generating electric discharge (6)
10 between both the electrodes, and causing to-be-treated water
(15) to pass between the electrodes and contact with the
electric discharge (6) to perform water treatment, an ozone
mixing portion (2) for supplying ozone-containing gas in the
treatment tank (1) through a gas sending portion (29) to the
15 to-be-treated water (20) supplied from outside, and a gas
returning portion (31) for sending gas in the ozone mixing
portion (2) to the treatment tank (1), are provided, and
water treatment is performed by ozone in the ozone mixing
portion (2), and water treatment is thereafter performed by
20 the electric discharge (6) in the treatment tank (1).

Fig. 1