

Abstract

SUPPLY-LIQUID PRODUCING APPARATUS AND SUPPLY-LIQUID
PRODUCING METHOD

Provided is a supply-liquid producing apparatus capable of producing a supply liquid by an amount needed at a use point.

A supply-liquid producing apparatus includes a mixer 113 that mixes water and ozone gas to produce ozone water; a booster pump 112 that increases the pressure of the water to be supplied to the mixer 113; a gas-liquid separation tank 114 that separates the ozone water produced by the mixer 113 into ozone water to be supplied to a use point 119 and exhaust gas to be discharged from an exhaust port 125; a flowmeter 117 that measures the flow rate of the ozone water to be supplied from the gas-liquid separation tank 114 to the use point 119; a flow control unit 126 that adjusts the pressure (flow rate) of the water to be increased in pressure and supplied to the mixer 113 by controlling the booster pump 112 in response to the flow rate of the ozone water measured by the flowmeter 117; and an exhaust pressure control unit 127 that controls the exhaust pressure of the exhaust gas so as to keep the water level in the gas-liquid separation tank 114 constant.

[FIG. 1]