

ABSTRACT

A process for producing a gas-containing cleaning water which contains a specific gas dissolved in water, which process comprises
5 dissolving the specific gas into water under an increased pressure exceeding an atmospheric pressure to prepare a gas-containing water having a concentration of the gas exceeding solubility of the gas under an atmospheric pressure and, then, removing a portion of the dissolved gas by decreasing pressure on the gas-containing water; an apparatus for
10 producing a gas-containing cleaning water which comprises an apparatus for dissolving a gas (14) in which a specific gas is dissolved into water under a pressure exceeding the atmospheric pressure and an apparatus for removing a portion of a dissolved gas (15) in which the pressure on the gas-containing water obtained from the apparatus for dissolving a gas is
15 decreased to a pressure lower than the pressure under which the gas has been dissolved so that a portion of the dissolved gas is removed; and a cleaning apparatus using the gas-containing cleaning water. A gas-containing cleaning water having a desired concentration of the gas can be produced safely without using a mechanism for decreasing the
20 pressure such as a vacuum pump. Water and the specific gas in the gas-containing cleaning water after being used can be reused. The process and the apparatuses can be advantageously applied to cleaning electronic members requiring a great degree of cleanliness.