

METHOD AND SYSTEM FOR TREATING GROUNDWATER

ABSTRACT

A pumping pipe 2 is inserted into the ground G where alkaline groundwater W having a pH of 9 or higher is present. Then, a gas C having a higher volume ratio of carbon dioxide than the air at the construction site is injected from an injection port 2b provided at the lower part of the pumping pipe 2 into the pipe of the pumping pipe 2 by an air blower 4 so that a large number of bubbles are generated in the pipe of the pumping pipe 2, the groundwater W is raised and pumped by a decrease in apparent specific gravity due to the large number of bubbles, and a neutralization reaction is allowed to occur between the carbon dioxide contained in the bubbles and the alkaline groundwater W during or after pumping so that the pH of the groundwater NW is lowered. As a result, the alkaline groundwater W having a high pH can be easily and efficiently neutralized by effectively utilizing carbon dioxide that is not desired to be released into the atmosphere.

[Selected Figure] Fig. 1