

ABSTRACT

METHOD FOR CAPTURING CARBON DIOXIDE AND GAS ABSORPTION SYSTEM

The present invention provides a method for capturing carbon dioxide and a gas absorption system. The method for capturing the carbon dioxide includes: spraying an alkaline solution through a first spray structure, so as to absorb carbon dioxide gas; temporarily storing a solution, obtained after the alkaline solution chemically reacts with the carbon dioxide gas, in a first temporary storage structure, and making the solution flow out through the first spray structure; detecting at least one of a concentration of hydroxide and a concentration of carbonate of the solution in the first temporary storage structure in real time, and supplementing one of an alkaline solution and water into the first temporary storage structure according to the concentration of the hydroxide and the concentration of the carbonate; and during a process of detecting the at least one of the concentration of the hydroxide and the concentration of the carbonate of the solution in the first temporary storage structure in real time, in a case that the concentration of the hydroxide is detected to be less than or equal to m and the concentration of the carbonate is detected to be n , controlling a first pump body or a third pump body to stop running, so that the solution stored temporarily in the first temporary storage structure enters an electrolysis device for an electrolysis. Adopting the present invention solves problems in that capture efficiency of carbon dioxide gas and overall energy consumption of a system for capturing carbon dioxide are relatively difficult to control in the prior art.

Figure 1