

METHOD AND DEVICE FOR SORPTION/DESORPTION OF CARBON DIOXIDE

Abstract

Provided is a method and apparatus for separating carbon dioxide from exhaust gas containing carbon dioxide and easily regenerating a sorption solution. In a sorption tank 2, exhaust gas containing carbon dioxide is contacted with a sorption solution to provide an aqueous metal carbonate solution. The aqueous metal carbonate solution is transferred to a desorption tank 3. Under a condition of reducing the desorption tank 3 pressure, ultrasonic waves are radiated onto the aqueous metal carbonate solution to desorb carbon dioxide from the aqueous metal carbonate solution and regenerate the sorption solution. The regenerated sorption solution is transferred to the sorption tank.

Figure 2