

ABSTRACT

METHOD FOR REGENERATING CARBONATE-TYPE LAYERED DOUBLE HYDROXIDE AND ACIDIC EXHAUST GAS TREATMENT FACILITY

The present invention has an object to provide a method for regenerating a carbonate-type layered double hydroxide, the method being capable of efficiently regenerating a spent anion-type Mg-Al layered double hydroxide (Mg-Al LDH) in an acidic exhaust gas treatment into a carbonate-type Mg-Al LDH, and provide an acidic exhaust gas treatment facility. The method for regenerating a carbonate-type layered double hydroxide of the present invention regenerates the carbonate-type Mg-Al LDH by bringing the anion-type Mg-Al LDH formed in the acidic exhaust gas treatment using the carbonate-type Mg-Al LDH into contact with a mixed gas at 70°C or higher containing water and carbon dioxide at a concentration of 5% by volume or higher.

[No Suitable Figure]