

ABSTRACT

In an exhaust gas desulfurizer using a seawater method, leakage of combustion exhaust gas can be prevented by preventing or reducing entrainment of boiler exhaust gas generated when used seawater plunges into a seawater surface of diluting seawater. In an exhaust gas desulfurizer (1A) employing a seawater method in which desulfurization is conducted by causing gas-liquid contact between seawater falling from the upper portion of the desulfurization tower (2) and boiler exhaust gas rising up from the lower portion of a desulfurization tower (2), desulfurized used seawater falls from the desulfurization tower (2) into diluting seawater flowing in a seawater oxidation treatment system (9) and is mixed and diluted therewith, and an impact-force damping device (20), for damping an impact force generated when the used seawater falls down and plunges into the diluting seawater, is provided at a position below an inflow position of the combustion exhaust gas in the desulfurization tower (2).