TITLE OF THE INVENTION: CARBON DIOXIDE REDUCTION DEVICE USING STEAM PLASMA

ABSTRACT

The present disclosure relates to a carbon dioxide reduction device using steam plasma that removes carbon dioxide in exhaust gas passing through an inside of an inlet pipe or an outlet pipe of a scrubber, which includes a plasma catalyst spray module provided with a plasma head configured to discharge plasma into the inside of the inlet pipe or the outlet pipe, an electromagnetic wave generator configured to transmit electromagnetic waves to the plasma within the plasma head, a catalyst injector configured to inject a catalyst which removes carbon dioxide contained in the exhaust gas to the plasma, and a steam supplier configured to spray high-temperature steam to the plasma, thereby having the effect of reliably removing carbon dioxide in the exhaust gas.

FIG. 1