

EXHAUST GAS TREATMENT SYSTEM AND EXHAUST GAS TREATMENT METHOD

ABSTRACT

To provide an exhaust gas treatment system that predicts the beginning of an increase in acid gas concentration at an early stage based on the change in oxygen gas concentration linked to the change in the acid gas concentration in exhaust gas to add an appropriate amount of treatment agent in a timely manner. The exhaust gas treatment system includes: a treatment agent addition management unit 13 including an exhaust gas analysis unit 131, 132 that is disposed at least at the upstream or the downstream of the exhaust gas recovery unit 16 and that analyzes at least oxygen gas concentration in the exhaust gas, wherein the treatment agent addition management unit 13 calculates the amount of the treatment agent to be added necessary to treat acid gas in the exhaust gas treated in the exhaust gas treatment unit 11 based on the amount of change in oxygen gas concentration analyzed in the exhaust gas analysis unit 132, and the treatment agent addition management unit 13 gives an instruction to supply the calculated amount of the treatment agent; and a treatment agent supply unit 14 that supplies the treatment agent in an amount instructed by the treatment agent addition management unit 13.

[Figure 1]