and in order to conduct the present control scheme, it is necessary to newly introduce an expensive acidic gas measurement device to measure the inlet acidic gas concentration.

[0010]

Taking consideration of the above-mentioned state of the art, the present invention has an object of providing an acidic gas treatment method according to a new control scheme for performing stable acidic gas treatment that rarely causes the acidic gas concentration at the outlet to peak and for reducing the excessive addition of alkali agents in a feedback format that does not require the introduction of a new, expensive acidic-gas measurement device.

Summary

In an aspect, there is provided a method for treating acidic gas that adds an alkali agent to a combustion exhaust gas containing acidic gas, and feedback controls an addition amount of the alkali agent based on a measurement signal of an acidic-gas concentration measurement device that measures an acidic gas concentration after collecting dust, the method comprising: a step of calculating a basal addition amount by multiplying a coefficient of less than 1 by an average addition amount according to at least a predetermined time; and a step of calculating, through feedback computation, an addition amount output value of the alkali agent based on the basal addition amount thus calculated, and obtaining a value that is at least the basal addition amount thus calculated and

no greater than an upper limit established in advance, as an addition amount output value of the alkali agent.

Means for Solving the Problems

[0011]

According to a first aspect, in a method for treating acidic gas that adds an alkali agent to a combustion exhaust gas containing acidic gas, and feedback controls an addition amount of the alkali agent based on a measurement signal of an acidic-gas concentration measurement device that measures an acidic gas concentration after collecting dust, the method includes: a step of calculating a basal addition amount by multiplying a coefficient of no more than 1 (for example, 95%, 90%, 80%, 70%, 50%, etc. described later) by an average addition amount according to at least an average time (for example, 5 minutes, 15 minutes, 30 minutes, 1 hour, 3 hours, 6 hours, etc. described later); and a step of calculating,