Claims

1. A combustion system, comprising:

an ammonia tank;

a combustor connected to the ammonia tank;

an engine including the combustor;

an intake flow passage connected to the combustor;

a compressor provided in the intake flow passage;

an ammonia collection tank connected to the ammonia tank;

a first flow passage that connects the ammonia collection tank and the compressor to each other; and

a first control unit configured to control a supply amount of ammonia sent from the ammonia tank to the combustor and a supply amount of ammonia water that is sent from the ammonia collection tank to the compressor via the first flow passage so that an output from the engine becomes equal to a set value.

2. The combustion system according to claim 1, wherein the first control unit is configured to limit the supply amount of the ammonia water that is sent from the ammonia collection tank to the compressor via the first flow passage to a first upper limit value or less.

3. The combustion system according to claim 1 or 2, further comprising:

an exhaust flow passage connected to the combustor;

a denitration device provided in the exhaust flow passage; and

a second flow passage that connects the ammonia collection

tank and the denitration device to each other.

4. The combustion system according to claim 3,

wherein the denitration device is connected to the ammonia tank, and

wherein the combustion system further comprises a second control unit configured to control a supply amount of ammonia sent from the ammonia tank to the denitration device and a supply amount of ammonia water that is sent from the ammonia collection tank to the denitration device via the second flow passage based on a nitrogen-oxide concentration in an exhaust gas discharged from the denitration device.

5. The combustion system according to claim 4, wherein the second control unit is configured to limit the supply amount of the ammonia water that is sent from the ammonia collection tank to the denitration device via the second flow passage to a second upper limit value or less.