CLAIMS

1. A stoker-type incinerator comprising:

a stoker which burns an object to be incinerated while being conveyed;

a combustion gas channel which guides combustion gas generated due to combustion of the object to be incinerated upward;

a primary combustion air supply unit which supplies primary combustion air to the stoker;

a recirculated exhaust gas supply unit which allows exhaust gas resulting from treating the combustion gas that has circulated through the combustion gas channel to reflux to the combustion gas channel via a plurality of recirculated exhaust gas nozzles provided on the combustion gas channel and supplies the exhaust gas as recirculated exhaust gas; and

a secondary combustion air supply unit which supplies secondary combustion air on a downstream side of the plurality of recirculated exhaust gas nozzles on the combustion gas channel in a circulation direction of the exhaust gas via a plurality of secondary combustion air nozzles provided on the combustion gas channel,

wherein the plurality of recirculated exhaust gas nozzles ~~and the secondary combustion air nozzle are arranged in different positions in a plan view~~ are arranged in a direction facing a conveyance direction of the object to be incinerated, and

the plurality of secondary combustion air nozzles are arranged in a direction facing the conveyance direction of the object to be incinerated.

2. ~~The stoker-type incinerator according to claim 1,~~

~~wherein the recirculated exhaust gas nozzle supplies the recirculated exhaust gas~~

~~along a conveyance direction of the object to be incinerated, and~~

~~the secondary combustion air nozzle supplies the secondary combustion air along the conveyance direction of the object to be incinerated.~~

A stoker-type incinerator comprising:

a stoker which burns an object to be incinerated while being conveyed;

a combustion gas channel which guides combustion gas generated due to combustion of the object to be incinerated upward;

a primary combustion air supply unit which supplies primary combustion air to the stoker;

a recirculated exhaust gas supply unit which allows exhaust gas resulting from treating the combustion gas that has circulated through the combustion gas channel to reflux to the combustion gas channel via a plurality of recirculated exhaust gas nozzles provided on the combustion gas channel and supplies the exhaust gas as recirculated exhaust gas; and

a secondary combustion air supply unit which supplies secondary combustion air on a downstream side of the plurality of recirculated exhaust gas nozzles on the combustion gas channel in a circulation direction of the exhaust gas via a plurality of secondary combustion air nozzles provided on the combustion gas channel,

wherein the plurality of recirculated exhaust gas nozzles are arranged in the same position in the circulation direction of the exhaust gas and alternately arranged in the conveyance direction of the object to be incinerated, and

the plurality of secondary combustion air nozzles are arranged in the same position in the circulation direction of the exhaust gas and alternately arranged in the conveyance direction of the object to be incinerated.

3. The stoker-type incinerator according to claim 1 or 2,

~~wherein a plurality of the recirculated exhaust gas nozzles and the secondary combustion air nozzles are alternately arranged in a plan view.~~

wherein the recirculated exhaust gas nozzles supply the recirculated exhaust gas along the conveyance direction of the object to be incinerated, and

the secondary combustion air nozzles supply the secondary combustion air along the conveyance direction of the object to be incinerated.

4. The stoker-type incinerator according to ~~any one of~~ claim~~s~~ 1 ~~to~~r ~~3~~2,

wherein the recirculated exhaust gas nozzles are arranged at a height of 1000 mm to 2000 mm from a surface of a fuel layer formed by the object to be incinerated which is supplied to the stoker.

5. The stoker-type incinerator according to ~~any one of~~ claim~~s~~ 1 ~~to~~r ~~4~~2, further comprising:

a reducing agent supply unit which adds a reducing agent to a part of the recirculated exhaust gas and blows the gas to the downstream of the secondary combustion air nozzles.

6. The stoker-type incinerator according to claim 5,

wherein the reducing agent is blown into the downstream of the secondary combustion air nozzles in a furnace temperature range of 950°C to 1050°C.