CLAIMS

1. A stoker type incinerator for combusting objects to be incinerated such as waste, comprising:

a drying stage, a combustion stage and a post-combustion stage, each of the stages having a plurality of fixed fire grates and a plurality of movable fire grates, and in which the objects to be incinerated supplied from a feeder is subjected to drying, combustion and post-combustion while sequentially conveying the objects to be incinerated through the drying stage, the combustion stage and the post-combustion stage,

wherein the drying stage is disposed to be inclined so that a downstream side in a conveying direction is directed downward,

the combustion stage is connected to the drying stage and disposed to be inclined so that the downstream side end thereof in the conveying direction is directed upward,

the post-combustion stage is connected to the combustion stage and disposed to be inclined so that the downstream side end thereof in the conveying direction is directed upward, and

an end portion of the post-combustion stage on the downstream side in the conveying direction is disposed in a vertical direction substantially at the same position as the end portion of the combustion stage on the downstream side in the conveying direction, or at a position higher than the end portion of the combustion stage.

2. The stoker type incinerator for combusting the objects to be incinerated such as waste according to claim 1, wherein each of the fixed fire grates and the movable fire grates is disposed to be inclined so that the downstream side end thereof in the conveying direction is directed upward with respect to installation surfaces of the drying stage, the combustion

stage, and the post-combustion stage.

3. The stoker type incinerator for combusting the objects to be incinerated such as waste according to claim 2, wherein the drying stage, the combustion stage, and the post-combustion stage each has a drive mechanism configured to drive the plurality of included movable fire grates, and

driving speeds in the drying stage, the combustion stage, and the post-combustion stage are set to same speed or different speed in at least one of the drying stage, the combustion stage, and the post-combustion stage with respect to the other.

4. The stoker type incinerator for combusting the objects to be incinerated such as waste according to claim 3, wherein the combustion stage and the post-combustion stage are continuously connected to each other without steps.

5. The stoker type incinerator for combusting the objects to be incinerated such as waste according to claims 3 or 4, wherein at least one of the plurality of movable fire grates of the drying stage is a protrusive fire grate in which a protrusion is formed on the distal end of the protrusive fire grate.

6. The stoker type incinerator for combusting the objects to be incinerated such as waste according to claim 5, wherein at least one of the plurality of movable fire grates of the combustion stage is a protrusive fire grate in which a protrusion is formed on the distal end of the protrusive fire grate.

7. The stoker type incinerator for combusting the objects to be incinerated such as waste according to claim 6, wherein a stoker inclination angle of the drying stage is arranged at an angle between -15° and -25°,

the stoker inclination angle of the combustion stage and the post-combustion stage is arranged at an angle between +8° and +12°, and

the stoker inclination angle of the post-combustion stage is the same as the stoker inclination angle of the combustion stage.

8. The stoker type incinerator for combusting the objects to be incinerated such as waste according to claim 7, wherein the stoker inclination angle of the drying stage is -20°, and

the stoker inclination angle of the combustion stage and the post-combustion stage is +10°.