

[ABSTRACT]

STOKER FURNACE

The present invention provides a stoker furnace which includes a burn out point detection device (31) which is configured to acquire a detection signal corresponding to a burn out point (P) of an incineration object (B), a first driving device (18a) which is configured to drive a movable fire grate of a drying stage (11), a second driving device (18b) which is configured to drive the movable fire grate of a combustion stage (12), a third driving device (18c) which is configured to drive the movable fire grate of a post-combustion stage (13), and a control device (30). The drying stage (11) is disposed to be inclined so that a downstream side is directed downward, and the combustion stage (12) and the post-combustion stage (13) are disposed to be inclined so that the downstream side faces upward. The control device controls the second driving device and the third driving device such that when the position of the burn out point (P) does not exceed the target burn out point, the moving speed of the movable fire grate of the combustion stage (12) and the moving speed of the movable fire grate of the post-combustion stage (13) are not changed, and when the position of the burn out point (P) is located on the downstream side of the target burn out point, driving speed of the movable fire grate of the post-combustion stage (13) is slower than that of the movable fire grate of the combustion stage (12).

(FIG. 1)