

[ABSTRACT]

STOKER FURNACE

The present invention provides a stoker furnace (1) including a feeder (4), a drying stage (11), a combustion stage (12), a post-combustion stage (13), and a discharge chute (17), the stoker furnace has a front arch (31) extending from an upper part of the feeder (4) to an upper part of the drying stage (11) or the combustion stage (12); a rear arch (32) extending from an upper part of the discharge chute (17) to an upper part of the post-combustion stage (13) or the combustion stage (12); and a rectangular tubular furnace wall (33) configured to guide exhaust gas generated by combustion of the incineration object (B). In order that main surfaces of each of the drying stage (11), the combustion stage (12) and the post-combustion stage (13) are directed to a main combustion section (M) generated above the combustion stage (12), the drying stage (11) is disposed to be inclined so that a downstream side in the conveying direction is directed downward, the combustion stage (12) is disposed to be inclined so that the downstream side in the conveying direction is directed upward, and the post-combustion stage (13) is disposed to be inclined so that the downstream side in the conveying direction is directed upward.

(FIG. 1)