

ABSTRACT

REFUSE INCINERATING OVEN

A refuse incinerating oven includes a refuse loading car (2), and a furnace body (3) with lower and upper combustion chambers (36, 37). The car (2) is conveyed
5 through the furnace body (3) such that refuse loaded on the car (2) can be ignited in the lower combustion chamber (36). The combustion exhaust generated in the lower combustion chamber (36) flows into and is heated
10 in the upper combustion chamber (37). A spraying tank (41) is communicated with the upper combustion chamber (37) for receiving the combustion exhaust. Water mist is sprayed to the combustion exhaust in the spraying tank (41) so as to generate aerated water. The aerated
15 water and the combustion exhaust flowing from the spraying tank (41) are cooled as they flow into a reservoir (47). The aerated water is pumped from the reservoir (47) to an upper end of a waterfall tank (43) so as to generate a downwardly cascading water stream
20 inside the waterfall tank (43). An exhaust port unit (5) is connected to the upper end of the waterfall tank (43) for sucking and releasing the combustion exhaust.

Figure 2 is suggested for publication.