Nov. 16, 1926. 1,607,309

L. G. ROMIG

INCINERATOR

Filed March 22, 1926

Fig. 1.

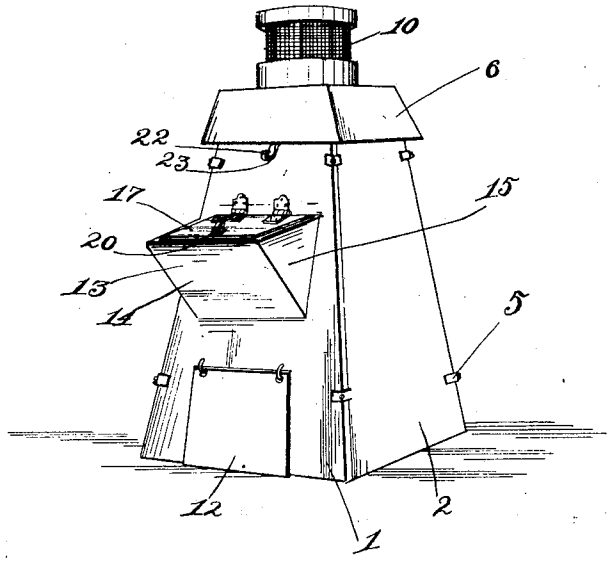


Fig. 2.

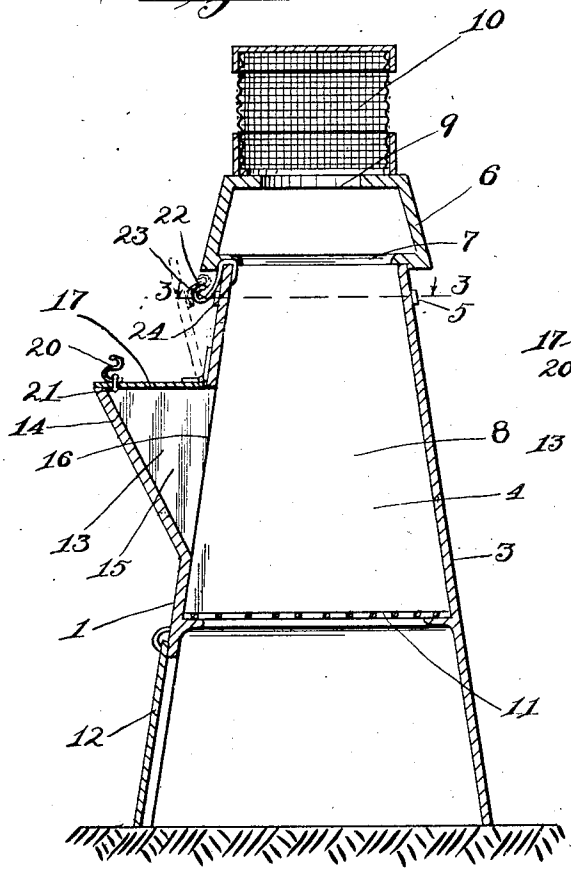
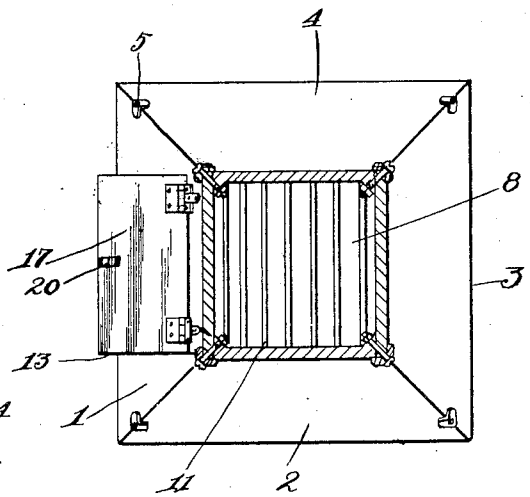


Fig. 3.



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LYMAN G. ROMIG, OF LOS ANGELES, CALIFORNIA.

INCINERATOR.

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My invention is an incinerator particularly adapted for domestic use in burning rubbish or the like.

An object of my invention is to form an incinerator adapted for burning rubbish or the like, for domestic purposes, and my invention pertains particularly to the manner of feeding material or charging the incinerator with rubbish or the like to be burned.

A particular object of my invention is forming a charging hopper or the like on one side of the incinerator extending outwardly therefrom, so that material may be charged therein, and on account of the sloping shape of the hopper will be fed on to the burner grates of the incinerator.

In constructing my invention I preferably form a substantially rectangular incinerator of somewhat pyramidal shape with a burning grate adjacent the bottom, a loosely hung damper door on the outside wall also adjacent the bottom, a box-like combustion chamber above the grates and a spark arresting hood on the top. The hopper extends outwardly from one side and has a lid through which rubbish or the like may be inserted, the rubbish falling on the grate.

My invention will be more readily understood from the following description and drawings, in which:

Figure 1 is a perspective view of my incinerator.

Fig. 2 is a vertical section through the incinerator and through the charging hopper.

Fig. 3 is a horizontal section on the line 3—3 of Fig. 2, in the direction of the arrows.

In the general construction of my incinerator I preferably form the same with four side walls which may be designated by the numerals 1, 2, 3 and 4; these being preferably tapered so that when secured together by corner clamps 5 they form a structure shaped similar to the frustum of a pyramid.

A hollow box cap 6, forming an upper combustion chamber is placed on top of the side walls. This chamber has a lower opening 7 communicating with the fire chamber 8 of the incinerator. An opening 9 leads from the box 6 to a spark arresting hood 10. A grate 11 is secured on suitable brackets or the like, adjacent the base of the incinerator and a pivotally mounted damper plate 12 is hinged on the outside of the incinerator. The incinerator is adapted to be supported directly on the ground and in normal operation with the damper 12 closing the air opening, this being opened to create a draft by utilizing some device to hold the damper open.

I construct the hopper 13 having a front sloping wall 14 and substantially vertical side walls 15 on one side of the incinerator; this being shown on the front side 1, there being an opening 16 through the wall to allow rubbish or the like when placed in the hopper to slide on to the burning grate 11. A lid 17 is pivotally connected to the front wall of the incinerator and forms a closure for the hopper.

The manner of utilizing my incinerator is substantially as follows:

It will be understood that rubbish or the like may be ignited in any suitable manner and when additional rubbish is placed in the hopper it slides on to the grate 11. If the grate is pretty well filled with burning material, the last inserted rubbish will remain in the hopper and gradually settle down as the rubbish is burned. Moreover, with the charging hopper on the side a person inserting rubbish to be burned is not exposed to a blast or flame, smoke or the like from the burning rubbish and does not have to insert the rubbish directly on the fire or on the grates 11.

If the rubbish is inserted before the incinerator is lighted, the charging hopper provides a receptacle which may contain a surplus quantity of material which feeds down on the grate as the material thereon is consumed; thereby preventing clogging of the grates with too great a quantity of rubbish.

Although my incinerator is of a simple construction, it will nevertheless be apparent that it may be considerably altered in general features and in specific details without departing from the spirit of my invention as set forth in the description, drawings and claims.

A convenient form of hook for holding the lid open comprises an S-shaped latch 20 having one end secured to the lid by a rivet or the like 21 and a hook 22 having a spring loop 23, and a hooked end 24 extending over or through one of the sides of the incinerator. The S-shaped strip of

metal and the loop are resilient so that they latch together as shown by dotted lines in Fig. 2.

It will be noted by reference particularly to Figs. 1 and 3, that the side walls 1, 2, 3 and 4 of the incinerator are formed of slabs and connected together by corner clamps 5. In this construction I preferably make two of the opposite slabs of the full width as indicated in connection with the walls 1 and 3. The remaining sides 2 and 4 are made of lesser width than the others being the thickness of the material of the walls 1 and 3 and have an angle at the ends so that when the four walls are abutted together, these angles form abutments for the nuts of the bolts and secure the clamps in place. Such construction is clearly illustrated in Fig. 3.

It will also be noted that the hopper is formed integral with the wall 1, the inclined surface 14 and the vertical surfaces 15 being molded in connection with this wall 1. It is also to be noted that the hook 22 is conveniently formed hooked over the upper end of the wall 1 and engages the S-shaped latch 20 holding the lid 17 in its upward position.

Having described my invention, what I claim is:

1. An incinerator having four wall slabs, each slab being tapered, some of the slabs having internal angles forming corners, clamps having bolts securing the slabs together at their edges with the nuts of the bolts bearing on the angles, thereby forming an incinerator structure shaped as a frustum of a pyramid, a charging hopper built into one of the walls, said hopper having an inclined front wall and substantially vertical side walls, a lid forming a pivotal closure for the hopper and one of the walls having an opening at the bottom with a damper plate forming a closure for said opening.

2. In an incinerator, side walls formed of tapered slabs, an opposite pair of said slabs being of less width than the other two slabs and having angles formed at their corners, clamps having bolts securing the edges of the slabs together, the nuts of the bolts bearing on the angle corners of the narrower slabs.

In testimony whereof I have signed my name to this specification.

L. G. ROMIG.