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2,427,480

INCINERATOR

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Fig. 1.

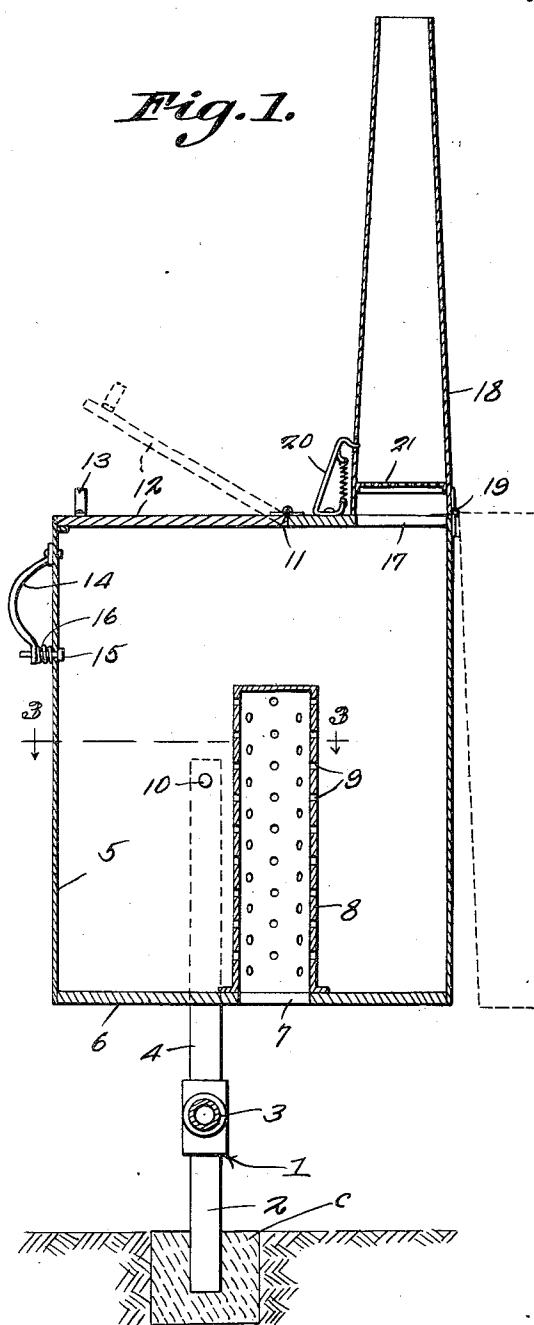


Fig. 2.

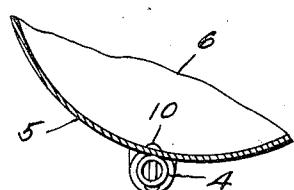
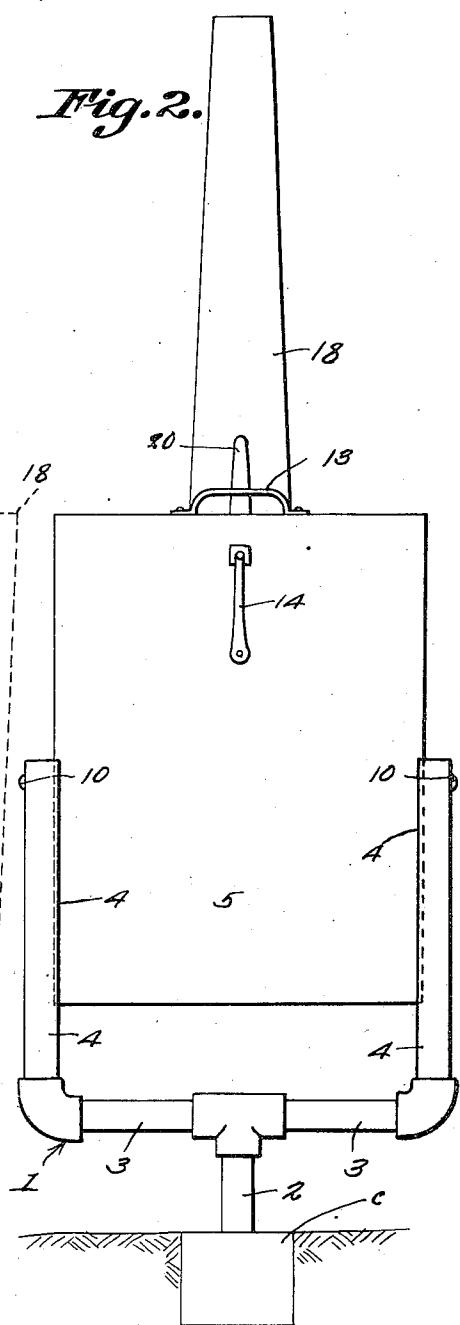


Fig. 3.

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INCINERATOR

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3 Claims. (Cl. 110—18)

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This invention relates to incinerators, one of the objects being to provide a simple and compact structure which can be set up readily and into which material to be burned can be easily placed without danger to the user.

A further object is to provide an incinerator having means by which it can be dumped, the means employed for manipulating the incinerator during the dumping operation, also constituting a cushion for limiting its movement in one direction.

A still further object is to provide an incinerator having a stack which can be folded out of the way during the dumping operation but which can be quickly set up into operative position.

Another object is to provide the incinerator with a means whereby air can be supplied to all portions of the interior thereof so as to expedite combustion.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

In the accompanying drawing the preferred form of the invention has been shown.

In the drawing

Figure 1 is a central-vertical section through the incinerator taken from front to rear, the stack being shown by broken lines in folded position and the cover being shown by broken lines in partly raised position.

Figure 2 is a front elevation of the incinerator.

Figure 3 is a section through a portion of the structure taken on the line 3—3 Figure 1.

Referring to the figures by characters of reference 1 designates a supporting structure which, in the present instance, is made up of a post 2 having laterally extended arms 3 from which are extended parallel standards 4. These standards are spaced apart slightly less than the greatest diameter of the body of the incinerator.

The incinerator body has been indicated at 5 and is preferably cylindrical, the bottom 6 thereof being closed except for a central opening 7 about which is arranged a foraminous flue 8 which extends upwardly a desired distance into the body, the openings 9 in this flue constituting means for distributing air within the body at different elevations and in all directions toward the wall of the body. Pivot studs 10 are extend-

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ed laterally from the body and bear within the standards 4, these pivots being located in advance of the diametrically opposed side portions of the body. Thus as the center of gravity is located 5 rearwardly of the pivot axis, portions of the wall of the body will thrust forwardly against the standards 4 as will be apparent by referring to Figures 2 and 3. In other words the weight of the body will serve to hold the body in an upstanding position.

The top of the body has a segmental opening 11 normally closed by a segmental cover 12 provided with a handle 13. To the front of the body close to the top thereof is connected the upper 15 end of a handle 14 the lower end of which is movably connected to the body by a pin 15, there being a cushioning spring 16 mounted on this pin between the handle and the body. This handle is so located that when the body is swung forwardly and downwardly to dump the contents thereof by bringing the body into a substantially inverted position, the handle will strike against the bottom portion of the frame 1, thereby not only limiting the movement of the body but also 20 serving to jar the body and its contents so as to facilitate delivery of material through the opening in the top of the body.

A smoke outlet opening 17 is provided in the top of the body back of the opening 11 and is normally surrounded by the lower end of a stack 18 the back of which is hinged, as at 19, to the back portion of the body at the top thereof. A spring latch 20 mounted on the top of the body is adapted to engage the front portion of the stack and hold the stack in upwardly extended position while in use. This stack is preferably tapered toward its outer end and within the lower portion thereof is located a spark arrester in the form of a screen 21 or the like.

In practice, when it is desired to burn trash, the lid 12 is opened and the trash is dropped into the body where it is ignited. Air will be supplied to the interior of the body through the flue 8 so that combustion will occur quickly. Smoke 40 will be discharged upwardly through the stack 18. When it is desired to dump the contents of the body 5, the latch 20 is disengaged from the stack and the stack is permitted to swing backwardly and downwardly to the position indicated 45 by broken lines in Figure 1. By means of the handle 14 the top portion of the body is swung forwardly and downwardly until the handle comes against the lower portion of the frame 1. This movement is permitted because the container, being of sheet metal, can buckle slightly 50

as the wide portion thereof passes between the upper ends of the standards 4. Obviously other means could be used so that this swinging movement of the container would not be interfered with. Thus the downward movement is limited when the body is brought to a substantially inverted position and the impact of the handle against the frame serves not only to cushion the contact between the parts but also to jar loose any of the contents remaining in the container so that they can flow freely through the opening 11.

As soon as the container has been emptied, it is swung upwardly and backwardly until the lower parts of the side portions thereof come against the standards 4, whereupon the container will be maintained in its upstanding position by gravity. Stack 18 should of course be restored to its normal upstanding position whereupon the incinerator is ready for further use.

It is of course to be understood that the supporting structure can be modified within the limits of the present invention and that it can be held in place securely by anchoring it in a bed of concrete such as shown at C or by merely inserting it into hard packed earth.

What is claimed is:

1. An incinerator including a supporting structure having parallel standards, a cylindrical incinerator body having a bottom formed with a draft opening, said body being pivoted to the standards between the standards, means for pivotally connecting said body directly to the standards, said standards being spaced apart a distance slightly less than the maximum diameter of the body the pivot axis passing through both standards, and passing through the incinerator body on a line horizontally offset in relation to the maximum diameter of the body, a hinged lid normally closing the top of the body, a handle on the body positioned to contact the supporting structure when the body is moved to a substantially inverted or dumping position, and a means for cushioning the handle when contacting with the supporting structure.

2. An incinerator including a supporting structure having parallel standards, a cylindrical incinerator body having a bottom formed with a draft opening, said body being pivoted to the standards between the standards, means for pivotally connecting said body directly to the standards, said standards being spaced apart a distance slightly less than the maximum diameter

of the body the pivot axis passing through both standards, and passing through the incinerator body on a line horizontally offset in relation to the maximum diameter of the body, a hinged lid normally closing the top of the body, a handle on the body positioned to contact the supporting structure when the body is moved to a substantially inverted or dumping position, a means for cushioning the handle when contacting with the supporting structure, and a foraminous flue supported on the bottom of the body and extending upwardly within the body to a point above the transverse center thereof, said flue being open at its lower end and communicating at its lower end with the draft opening in the bottom of the incinerator body.

3. An incinerator including a supporting structure having parallel standards, a cylindrical incinerator body having a bottom formed with a draft opening, said body being pivoted to the standards between the standards, means for pivotally connecting said body directly to the standards, said standards being spaced apart a distance slightly less than the maximum diameter of the body the pivot axis passing through both standards, and passing through the incinerator body on a line horizontally offset in relation to the maximum diameter of the body, a hinged lid normally closing the top of the body, a handle on the body positioned to contact the supporting structure when the body is moved to a substantially inverted or dumping position, a means for cushioning the handle when contacting with the supporting structure, and a stack hingedly connected to the top of the body and positioned to swing into position behind the body when said body is moved to dump its contents.

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