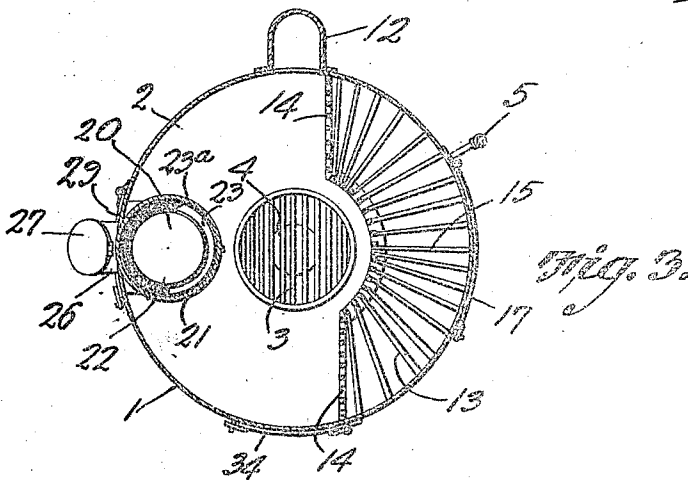
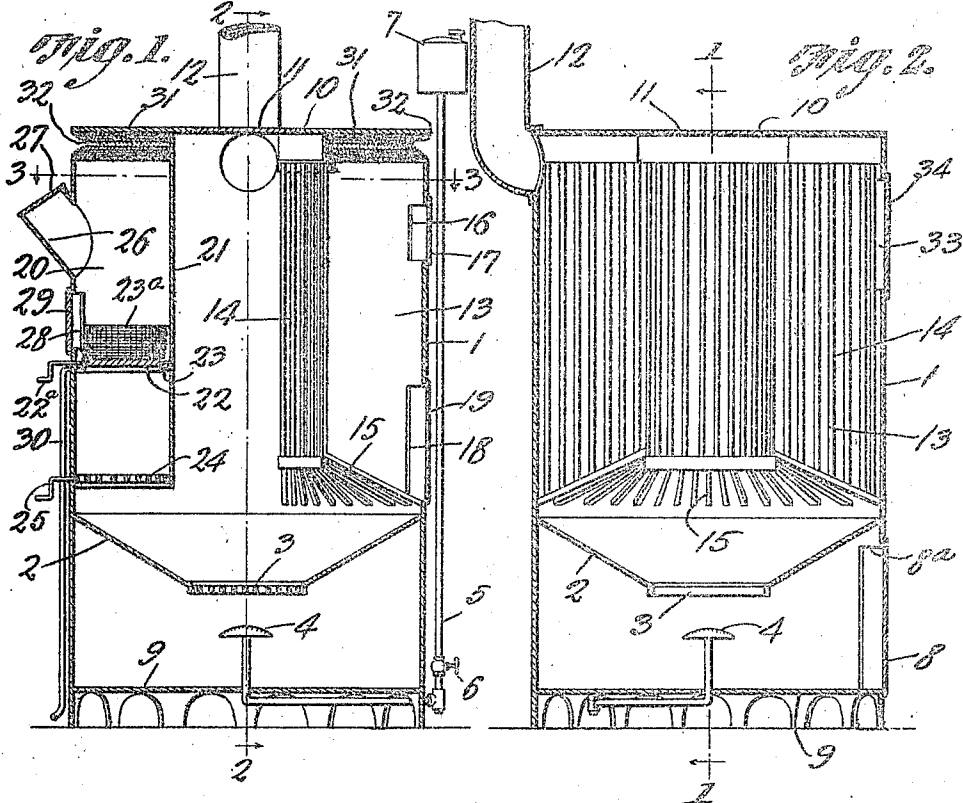


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GARBAGE AND TRASH INCINERATOR.
APPLICATION FILED AUG. 6, 1915.

1,165,607.

Patented Dec. 28, 1915.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAMS A. KRESS, OF COFFEYVILLE, KANSAS.

GARBAGE AND TRASH INCINERATOR.

1,165,607.

Specification of Letters Patent. Patented Dec. 28, 1915.

Application filed August 6, 1915. Serial No. 44,083.

To all whom it may concern:

Be it known that I, WILLIAMS A. KRESS, a citizen of the United States, residing at Coffeyville, in the county of Montgomery and State of Kansas, have invented a new and useful Garbage and Trash Incinerator, of which the following is a specification.

The present invention is a crematory or incinerator for burning garbage and trash, and aims to provide a novel and improved appliance of that character.

It is the object of the invention to provide an incinerator of unique construction, into which the garbage and trash may be dumped or deposited, whereby the same will be dried and then burnt, so that the invention affords sanitary and convenient means of disposing of the garbage and trash.

The structure is provided with a trash compartment for receiving cans and other trash whereby the paper and other combustible matter will be burnt, and so that the metallic and other noncombustible parts may be readily discharged. The structure also includes a compartment for receiving the garbage or slops, and is provided with means whereby the water or fluids will be drained off, and after which the remaining solids are permitted to dry sufficiently, to be finally dropped into the incinerating chamber to be burnt up. It is also within the scope of the invention to provide a garbage and trash incinerator which is comparatively simple, compact and inexpensive in construction, as well as being convenient, practical, serviceable and efficient in its use.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:—

Figure 1 is a vertical section of the incinerator taken on the line 1—1 of Fig. 2. Fig. 2 is a vertical section taken on the line 2—2 of Fig. 1. Fig. 3 is a horizontal section taken on the line 3—3 of Fig. 1.

In carrying out the invention, there is provided an upright casing 1, preferably of

cylindrical form, and having between its upper and lower ends, a hopper 2 providing the incinerating chamber thereabove. A grate 3 is supported immediately below the central opening of the hopper 2, and a burner 4 is disposed within the lower portion of the casing 1 below the grate 3. The burner 4 may be supplied with gas, gasoline, oil, or other suitable fuel, and as illustrated is connected by means of a pipe 5 having a controlling valve 6, to a liquid fuel tank 7.

The front wall of the casing 1 is provided with a lower ash opening 8^a adjacent the raised bottom 9 of the casing, and the opening 8^a is normally closed by a door 8 hinged to the casing. The raised bottom 9 provides an air space therebelow, which is desirable. When the door 8 is opened, the ashes within the ash pit below the grate 3 may be removed through the opening 8^a, and may be used for fertilizing or other purposes.

The top or upper end of the casing is provided with a central opening 10 normally closed by a removable lid 11, which lid when removed permits coal, paper, wood or other fuel to be deposited within the incinerating chamber, for facilitating the combustion of the garbage and trash.

A smoke pipe 12 is attached to the back wall of the casing adjacent the upper end thereof, and serves to carry off the products of combustion.

The casing 1 is provided therein adjacent one side thereof, with a trash compartment 13 formed by an upright grating 14 between the front and back walls of the casing, and an inclined bottom grate 15 having its upper portion attached to the lower end of the grating 14, and having its lower portion attached to the respective side wall of the casing 1. The respective side wall of the casing is provided with an opening 16 leading to the upper portion of the compartment 13, and said opening 16 is normally closed by a door 17 hinged to the casing. Said wall of the casing is provided with a second opening 18 communicating with the lower portion of the compartment 13 immediately above the bottom grate 15 of said compartment, and the opening 18 is normally closed by a door 19 hinged to the casing.

The casing 1 is provided therein at its opposite side with a garbage compartment

20, provided by an upright cylindrical shell 21 secured to the respective side wall of the casing. An imperforate trap door 22 is pivoted or trunnioned within the shell 21 between the upper and lower ends thereof, and is provided with an outstanding crank 22^a projecting exteriorly of the casing 1, whereby the door 22 may be swung open and closed. The door 22 is normally disposed horizontally in closed position, and when swung vertically opens the passage through the compartment 20 from the upper portion to the lower portion thereof. An annular trough 23 surrounds the door 22, and an upstanding annular screen 23^a is secured to the inner flange of the trough. A perforated trap door or grate 24 is pivoted or trunnioned within the lower end of the shell 21, and is provided with an outstanding crank 25 projecting exteriorly of the casing 1, whereby the door or grate 24 may be manipulated the same as the door 22. The lower end of the shell 21 terminates above or is spaced from the hopper 3.

The respective side wall of the casing is provided with an inlet chute 26 for the compartment 20 or shell 21, which is normally closed by a door 27, and said side wall of the casing is further provided with an opening 28 leading to the compartment 20 immediately above the trap door 22. This opening 28 is normally closed by a door 29 hinged to the casing.

A drain pipe 30 is disposed upon the exterior of the casing 1 and has its upper end engaged through the casing and communicating with the trough 23. The drain pipe 30 extends downwardly and may be led to the desired point of discharge.

Provided within the upper portion of the casing at the opposite sides thereof, are two combining chambers 31 for flies and other insects, and said chambers are provided with inlet leaders 32, preferably constructed of wire mesh, to allow the insects to readily enter the chambers 31, but to prevent the retreat or escape of the insects after once they enter the chambers.

In using the incinerator, paper, wood and similar refuse may be deposited in the incinerating chamber when the lid 11 is opened, the refuse being dropped down through the opening 10 so as to fall onto the grate 3. Tin cans and other trash are deposited in the trash compartment 13 by way of the opening 16 when the door 17 is opened, while garbage or slops are dumped through the chute 26 into the compartment 20. The garbage or slops will be supported by the trap door 22, within the screen 23^a, and the water and other liquids will pass through the screen 23^a to flow into the trough 23 and thence down the pipe 30. After the garbage is drained, the trap door 22 is tilted to allow the garbage to drop into

the lower chamber of the compartment 20, onto the trap door or grate 24. When the burner 4 is lighted, the flames will pass upwardly through the grate 3 to burn or consume the trash thereon, and the flames will also burn the paper and other combustible matter within the compartment 13, it being noted that the grating 14 and bottom grate 15 allow the flames to pass into the compartment 13. The heat created by the combustion will also dry the garbage within the compartment 20 upon the trap door 24, and when the garbage is dried sufficiently so that it will burn, the trap door 24 is tilted to allow the garbage to drop off onto the hopper 2. The hopper 2 having its walls inclined will direct the matter thereon onto the grate 3 whereby the garbage and trash will be brought above the flames, to be cremated. It is of course understood that the various doors are kept closed during the burning of the garbage and refuse, whereby the products of combustion are constrained to pass upwardly through the smoke pipe 12. The tin cans and other noncombustible objects may be removed from the compartment 13 by opening the door 19, in which event the inclined grate 15 will cause the cans, and the like, to roll down through the opening 18 into a basket or receptacle (not shown) provided for that purpose and disposed below the opening 18. The ashes may be readily removed from the ash pit when the door 8 is opened, and this also permits access to be had to the burner 4 for lighting, cleaning or repairing the same. Flies or insects trapped within the chambers 31 will also be exterminated.

Particular attention is directed to the provision made for first draining the garbage or slops deposited in the compartment 20, and then drying the remaining garbage, whereby the garbage may be finally dropped into the incinerating chamber to be burnt up.

The present contrivance provides a sanitary and convenient means for disposing of the garbage, refuse and trash, and may be used for various purposes, as will suggest themselves from the nature of the invention.

If desired, the front wall of the casing may be provided with an upper opening 33 for depositing paper and other trash into the incinerating chamber, said opening 33 being normally closed by a door 34 hinged to the casing. This opening 33 permits the operator to stir the matter within the incinerating chamber, should the grate 3 become clogged.

The door 29, when opened, permits the drained garbage to be removed off of the door 22, for feeding hogs, chickens, and other stock.

Having thus described the invention, what is claimed as new is:

1. An incinerator comprising a casing

having a combustion chamber therein and provided with an upright garbage compartment, said compartment having means for the delivery of garbage therein, an imperforate trap door within said compartment for supporting the garbage therein and having means for operating it, the compartment having an opening immediately above said trap door, a door for normally closing said opening, a draining means cooperating with said trap door to carry off water, and a perforated trap door within said compartment below the aforesaid trap door and having means for operating it.

2. An incinerator comprising a casing having a combustion chamber therein and provided with an upright garbage compartment for discharging garbage into the combustion chamber, said compartment having upper means for the delivery of garbage therein, an annular trough within said compartment, a swinging imperforate trap door mounted within said trough, and normally closed so that the water is shed into the trough, means for swinging said trap

door, and means communicating with said trough for draining off the water therefrom.

3. An incinerator comprising a casing having a combustion chamber therein and provided with an upright garbage compartment for discharging garbage into the combustion chamber, said compartment having upper means for the delivery of garbage therein, an annular trough within said compartment, a swinging imperforate trap door mounted within said trough and normally closed, an upstanding annular screen carried by the inner flange of said trough for receiving the garbage, a drain pipe connected to said trough, and a perforated trap door within said compartment below the aforesaid trap door, said doors having means for operating them.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAMS A. KRESS.

Witnesses:

FRANK S. JOHNSON,
ELMER E. McMurtry.