Sept. 27, 1932. E. KLINGBEIL 1,880,142

INCINERATOR

Filed April 16, 1931

Fig. 1.

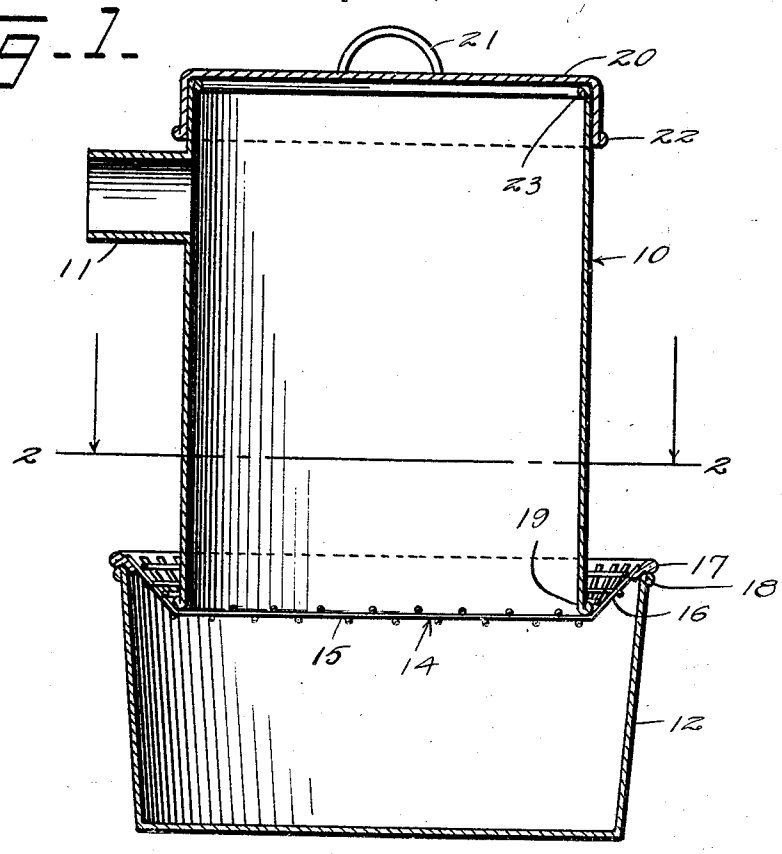
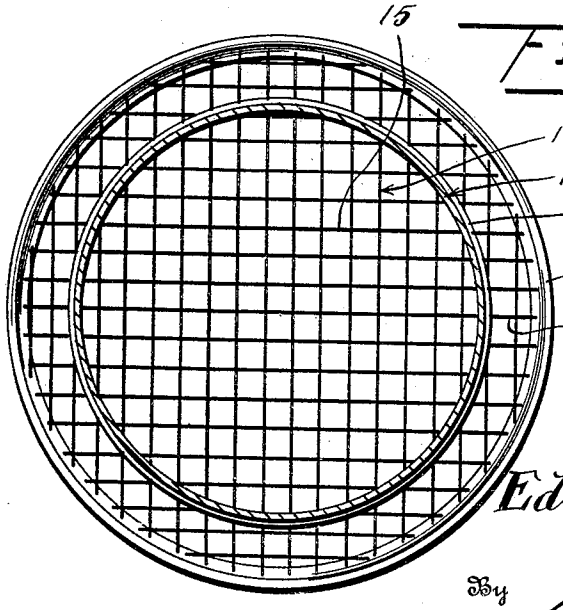


Fig. 2.



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UNITED STATES PATENT OFFICE

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INCINERATOR

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This invention relates to burners, and more particularly to a rubbish burner.

An object of this invention is to provide a burner of this kind with which rubbish may be safely burned either inside of a building or on the exterior thereof.

Another object of this invention is to provide a burner of this kind which is relatively simple in construction and wherein the parts thereof may be readily disassembled for cleaning thereof.

The above and various other objects and advantages of this invention will in part be described in and in part be understood from the following detailed description of the present preferred embodiment, the same being illustrated in the accompanying drawing, wherein:—

Figure 1 is a vertical section taken substantially through the center of a device constructed according to the preferred embodiment of this invention, and

Figure 2 is a sectional view taken on the line 2—2 of Figure 1.

Referring to the drawing wherein like numerals of reference designate corresponding parts throughout the several views, the numeral 10 designates generally a rubbish receiver of substantially cylindrical construction which is provided adjacent the upper edge thereof with an outlet 11 which may be connected to a conventional smoke pipe or the like, or where the device is disposed on the exterior of a building, the outlet 11 may be left open to the atmosphere. A base 12 is disposed below the rubbish receiver 10, this base 12 having a diameter substantially in excess of the diameter of the receiver 10, and a supporting screen structure, generally designated as 14, is interposed between the top of the ash receiver 12 and the lower end of the rubbish receiver 10. This lower end of the receiver 10 is purposely open and the upper end of the ash receiver 12 is also open.

The screen supporting member 14 comprises a substantially disk-like central portion 15 which is inclined upwardly at the marginal edge portions thereof, as designated at 16, this inclined portion 16 terminating in a bead 17 or the like which is adapted to engage the beaded upper edge 18 of the ash receiver 12 so as to prevent the downward movement of the screen 14 in the ash receiver, and so as to support the rubbish container 10 on the upper end of this receiver, the wall of the rubbish container 10 being spaced inwardly from the wall of the ash receiver 12. Preferably, the rubbish receiver 10 is constructed of sheet metal and the lower edge thereof is rolled or beaded, as at 19. The space between the rubbish receiver 10 and the ash receiver 12 constitutes a draft for admission of air into the bottom of the rubbish receiver 10.

A flanged cover or lid 20 having a handle or bail 21 is removably mounted on the upper end of the rubbish receiver 10, this lid 20 having a beaded lower edge portion 22 which is adapted to engage about the beaded upper end 23 of the rubbish receiver 10.

It will be obvious from the foregoing that the burner hereinbefore described may be constructed out of sheet metal or the like so that the devices may be readily transported and that the device may be readily taken apart when not in use. The ash receiver 12 is constructed in the form of a cup or the like so as to retain all of the ashes dropping through the screen 14.

In the use of this device, the rubbish receiver 10 may be mounted on the screen 14 which is also mounted on the top of the ash receiver 12. The desired rubbish may be placed in the receiver 10 after removing the lid 20. It will, of course, be understood that the rubbish placed within the receiver 10 is of a combustible nature and after the material has been lighted, the lid 21 may be placed on the top of the rubbish reeciver 10, whereupon the rubbish therein will burn, the ashes dropping into the receiver 12. Due to the fact that the diameter of the rubbish receiver 10 is less than the ash receiver 12 and that the screen 14 supports the receiver 10 on the receiver 12, a draft of air will enter the bottom of the receiver 10 and pass upwardly therethrough and out through the outlet 11.

It is, of course, understood that various changes and modifications may be made in the details of construction and design of the

above specifically described embodiment of this invention without departing from the spirit thereof, such changes and modifications being restricted only by the scope of the following claims.

I claim:—

1. An incinerator of the character described comprising a cylindrical burner having open upper and lower end portions, an outlet pipe connected to the burner member adjacent the upper end thereof, an open top ash receiver disposed beneath the burner and having a diameter greater than the diameter of the burner, and a grate member mounted on the upper end of the ash receiver and engaging the lower end of the burner, said grate comprising a flat central portion and an inverted frustro-conical outer edge engaging the upper edge of said ash receiver.

2. An incinerator of the character described comprising a substantially cylindrical burner, an outlet pipe connected to the burner adjacent the upper end thereof, a removable lid for closing the upper end of the burner, an open top ash receiver having a diameter greater than the diameter of the burner, and a grate element mounted on the upper end of the ash receiver and having a portion thereof extending downwardly thereinto, said grate being adapted to support the burner on the upper end of the ash receiver, said grate comprising a flat central portion and an inverted frustro-conical outer edge engaging the upper edge of said ash receiver.

3. An incinerator of the character described comprising a cylindrical burner having open upper and lower end portions, said burner having an outlet adjacent the upper end thereof, an open top ash receiver having a diameter greater than the diameter of the burner, a grate element interposed between the ash receiver and the burner and supporting the burner on the upper surface of the ash receiver, said grate element having upwardly extending marginal portions whereby to dispose the lower end of the burner at a point below the top of the ash receiver, and a lid for closing the upper end of the burner.

In testimony whereof I hereunto affix my signature.

EDWARD KLINGBEIL.