Feb. 3, 1942. M. E. PEACOCK 2,271,828

NO-SPARK TRASH BURNER

Filed Aug. 26, 1940

Fig. 1.

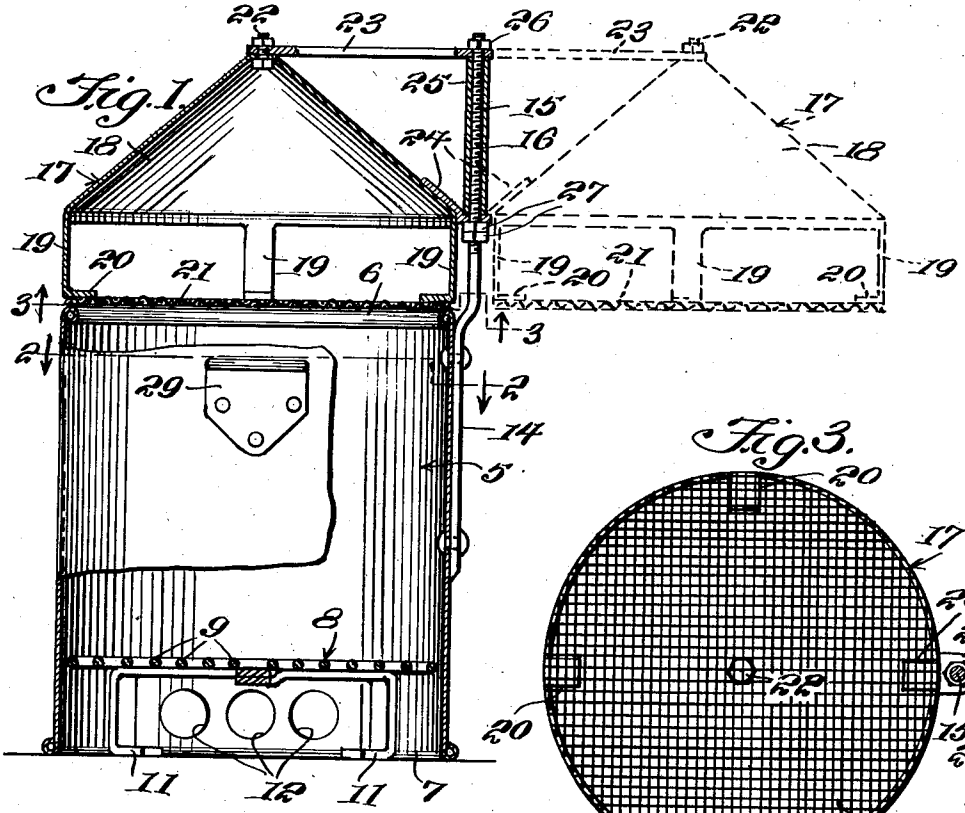


Fig. 3.

Fig. 2.

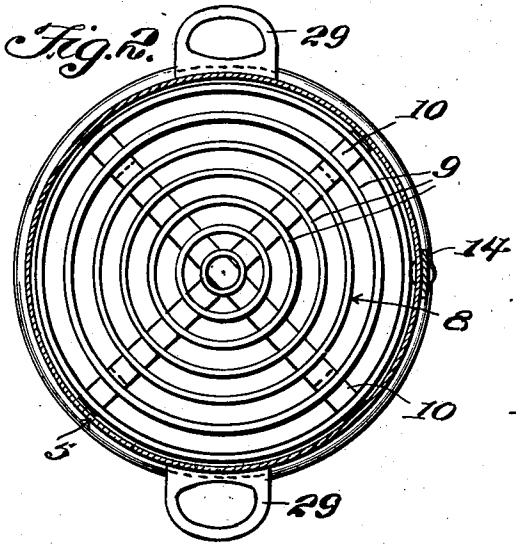
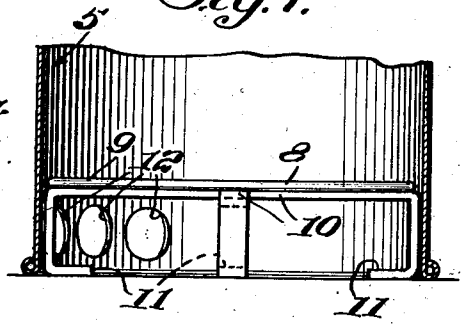


Fig. 4.



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NO-SPARK TRASH BURNER

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3 Claims. (Cl. 110—18)

My invention relates to improvements in incinerators and has as one of the principal objects thereof the provision of an incinerator so constructed and arranged whereby combustible waste material may be easily and conveniently introduced within the incinerator together with means for precluding the discharge of particles of ignited material from the incinerator during the burning of said material.

An important object of my invention is to provide a device of the character described which is simple in construction, durable in use, efficient in operation and economical in manufacture.

Other objects and advantages will be apparent from the following description, appended claims and annexed drawing.

Referring to the drawing wherein like reference characters designate like parts throughout the several views:

Figure 1 is a vertical sectional view of an incinerator constructed in accordance with my invention.

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

Figure 3 is a sectional view taken on a line 3—3 of Figure 1.

Figure 4 is a detail vertical view of the lower portion of the incinerator.

As illustrated in the drawing, my novel form of incinerator comprises a hollow cylindrical body or drum 5 having an open top and bottom 6 and 7 respectively. Disposed within the body 5, adjacent the bottom 7, is a grate 8 fashioned with a plurality of concentric spaced rings 9 mounted on a pair of right angularly disposed cross bars 10, the latter having their ends depending downwardly and formed with feet 11 whereby said rings 9 are supported an appreciable distance above the bottom 7 as clearly illustrated in Figures 1 and 4 of the drawing. One side of the body 5, subjacent the rings 8, is formed with a plurality of draft openings 12 for admitting air into the body below the grate.

Riveted to the outer face of one side of the body 5 is the lower end of a support arm 14, the upper end of which is outwardly offset and extends vertically above the top of the body and constitutes a pintle 15, the latter being provided with threads 16 for a purpose hereinafter set forth. Normally disposed over the top of the body 5 is a cover 17 having an upper conical section 18, the lower end of which is formed with a plurality of spaced depending arms 19 defining smoke discharge openings therebetween, the lower ends of the arms being disposed inwardly to form ears 20 to which is fixed a screen 21 or wire mesh. The apex end of the section 18 has connected thereto, by means of a bolt and nut 22, one end of an arm 23, the opposite end of which is pivoted about the upper end of the pintle 15. The lower end of the section 18, adjacent the pintle 15, is provided with a bracket 24 having one end pivoted about said pintle 15. Sleeved about the pintle 15, between the arm 23 and bracket 24, is a spacing sleeve 25.

The upper end of the pintle 15 has threaded thereon a nut 26 while the lower end, subjacent the bracket 24, has threaded thereon a pair of nuts 27. Obviously, by adjusting the nuts 26 and 27 the cover 17 may be raised or lowered with respect to the body 5 to maintain said cover only a sufficient distance away from the top of the body to permit said cover to be easily pivoted about the pintle 15 whereby access may be had to the body for introducing refuse therein for burning. As illustrated in Figures 1 and 2 of the drawing, the body is provided with a pair of oppositely disposed handles 29, whereby the incinerator may be conveniently carried.

Without further elaboration the foregoing will so fully explain the invention that others may, by applying current knowledge, readily adapt the same for use under various conditions of service. Moreover, it is not indispensable that all the features of the invention be used conjointly since they may be employed advantageously in various combinations and sub-combinations.

It is obviously that the invention is not confined to the herein described use therefore as it may be utilized for any purpose to which it is adaptable. It is therefore to be understood that the invention is not limited to the specific construction as illustrated and described as the same is only illustrative of the principles of operation, which are capable of extended application in various forms, and that the invention comprehends all construction within the scope of the appended claims.

What I claim is:

1. In an incinerator, a vertically disposed hollow cylindrical body open at the ends, a pintle forming member secured to the body and projecting substantially upward thereof at one side, a conical top member having its lower base portion of a diameter approximately corresponding to the diameter of the body, a plurality of circumferentially spaced arms formed on and depending from the bottom edge of the top, each of the said arms having an inbent horizontal extension at the lower end for seating on the top

edge of the body, a flat circular screen secured to the said bottom arm extensions adapted to be positioned horizontally over the top end of the body when the top is in closed position, a plurality of brackets connecting the top with the pintle so that the top may be swung horizontally to an offset open position, a grate in the lower portion of the body, and means for securing the grate in horizontal arrangement above the bottom of the body, the bottom portion of the body having a plurality of openings therein below the said grate.

2. In an incinerator, a cover having an imperforate cone shaped top section, a plurality of arms depending vertically from the bottom enlarged edge portion of the top section and spaced circumferentially of the top, an inwardly directed projection extending horizontally from the lower end of each of the said arms and spaced below the bottom edge of the top section, and a flat open mesh screen secured to the said inwardly directed projections in a plane parallel with the plane of the bottom edge of the conical section.

3. In an incinerator having a hollow body, a pintle forming member secured to one side of the body and projecting upwardly therefrom, a cover for the said incinerator body having a pair of vertically spaced horizontal brackets extending therefrom, the outer ends of the said brackets being apertured and pivotally engaging the upper portion of the pintle, and bracket supporting bearing means mounted on the said pintle.

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