Dec. 3, 1929. F. J. CARLSON 1,737,638

INCINERATOR

Filed Feb. 24, 1926

FIG. 1

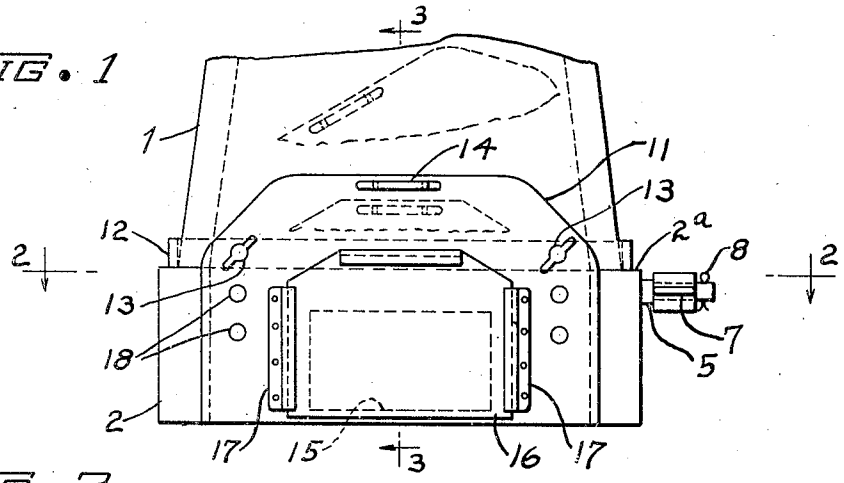


FIG. 2

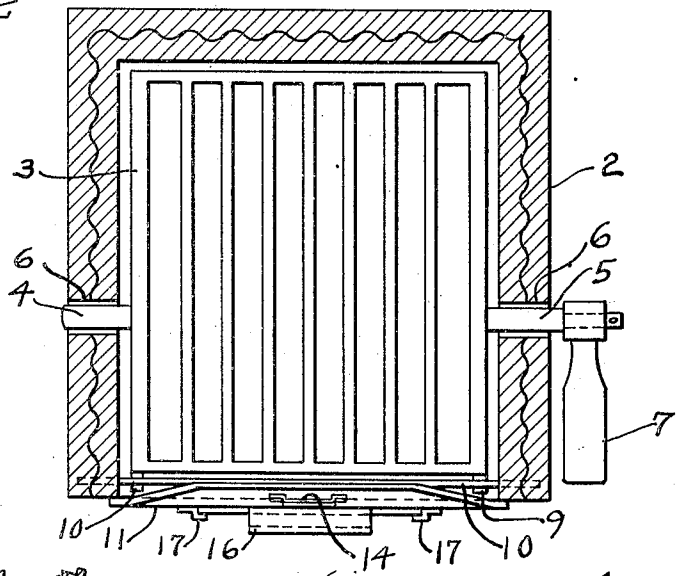
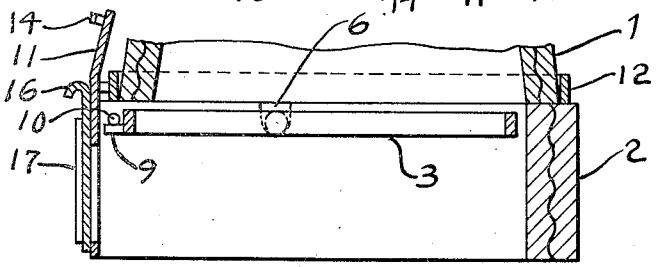


FIG. 3



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UNITED STATES PATENT OFFICE

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INCINERATOR

Application filed February 24, 1926. Serial No. 90,262.

My invention relates to incinerators, and the primary object of this invention is: improvements over my application for incinerator filed June 6, 1925, Serial Number 35,341, the principal objects of which are:

First, to provide an incinerator of this class with a pivotally mounted grate which will agitate the material being incinerated thereby facilitating combustion. Second, to provide a practical means by which the grate may be oscillated. Third, to provide a cleaning door large enough to permit the removal of wire, band iron, et cetera, from the grate and ashes from the ash pit under the grate. Fourth, to provide a means for swinging the cleaning door open and closed edgewise. Fifth, to provide a cleaning door with a draft door mounted thereon. Sixth, to provide a novelly constructed incinerator base and, seventh, to provide an incinerator of this class which is very simple and economical of construction and operation, durable, and which will not readily deteriorate or get out of order.

With these and other objects in view, my invention consists of certain novel features of construction, combination and arrangement of parts and portions as will be hereinafter described in detail, and particularly set forth in the appended claims, reference being had to the accompanying drawings on which similar numerals refer to similar parts throughout the several views and wherein:

Figure 1 is a fragmentary front elevation, showing by dotted lines the cleaning door tilted and the draft door raised. Fig. 2 is a sectional view taken on lines 2—2 of Fig. 1 showing some of the parts in elevation to facilitate the illustration, and Fig. 3 is a sectional view taken on lines 3—3 of Fig. 1.

In the preferred embodiment of my invention, 1 indicates a firebox which is mounted on base 2. A suitable grate structure 3 is formed with rocker arms 4 and 5 which rotate in slots 6 formed in the upper edge of the base 2.

The outer end of rocker arm 5 is made square and provided with a foot pedal 7 which is held in place on rocker arm 5 by a cotter pin 8. When pressure is applied to pedal 7 the grate 3 will pivot on rocker arms 4 and 5 and when the pressure on pedal 7 is released grate 3 will return to normal position by gravity and stop when lugs 9 reach the rod 10.

The firebox is made of slabs of concrete or other plastic material. The lower ends of the slabs are held together at their ends by a collar 12 which is preferably made of band iron. The periphery of the firebox 1 at the lower end is smaller than the base 2, leaving a shoulder on which the collar rests.

A cleaning door 11 is secured to this collar 12 by wing bolts 13, so that by removing one of said bolts the cleaning door 11 may be swung, facilitated by handle 14, to the fragmentary dotted position shown on Fig. 1.

The cleaning door 11 is formed with an opening 15 and is covered by a draft door 16 which moves in slides 17, retarded by friction contact, thereby making it possible to obtain the desired draft aided by draft openings 18, which draft openings also serve for adjusting the position of cleaning door 11.

Although I have shown and described a particular construction, combination and arrangement of parts, I do not wish to be limited to this particular construction, combination and arrangement of parts and portions but desire to include in the scope of my invention the construction, combination and arrangement substantially as set forth in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In an incinerator, a base slotted at opposite sides of its upper edge, a grate with rocker arms pivotally mounted in said slots, a foot pedal secured to one of said arms outside of said base, and a firebox removably mounted on the base over the slots for retaining the rocker arms in the slots.

2. In an incinerator, a three sided reinforced plastic base, a firebox, made of a plurality of plastic slabs, mounted thereon, a metallic collar about the base of said firebox for holding said slabs together, a cleaning door formed with draft opening detach-

ably connected to said collar over the open side of the base, and a grate mounted in the upper edge of said base, said cleaning door being the full width of said grate to facilitate cleaning of the same.

In testimony whereof, I have hereunto set my hand at Los Angeles this 8th day of February, 1926.

FRANK J. CARLSON.