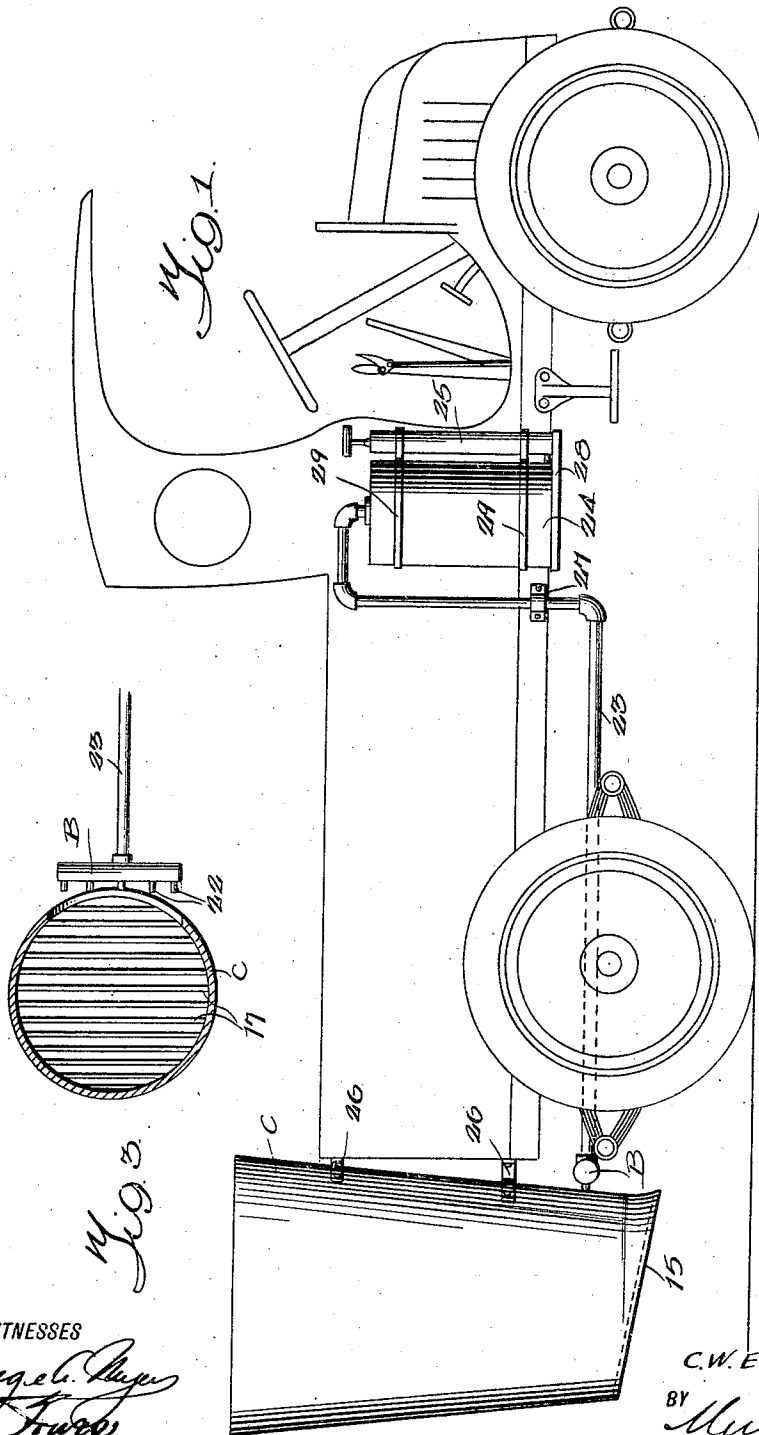


Dec. 26, 1922.

C. W. ESHELMAN.
PORTABLE INCINERATOR.
FILED JUNE 29, 1922.

1,440,141

2 SHEETS-SHEET 1



WITNESSES
George C. Meyer
E. H. Furrer

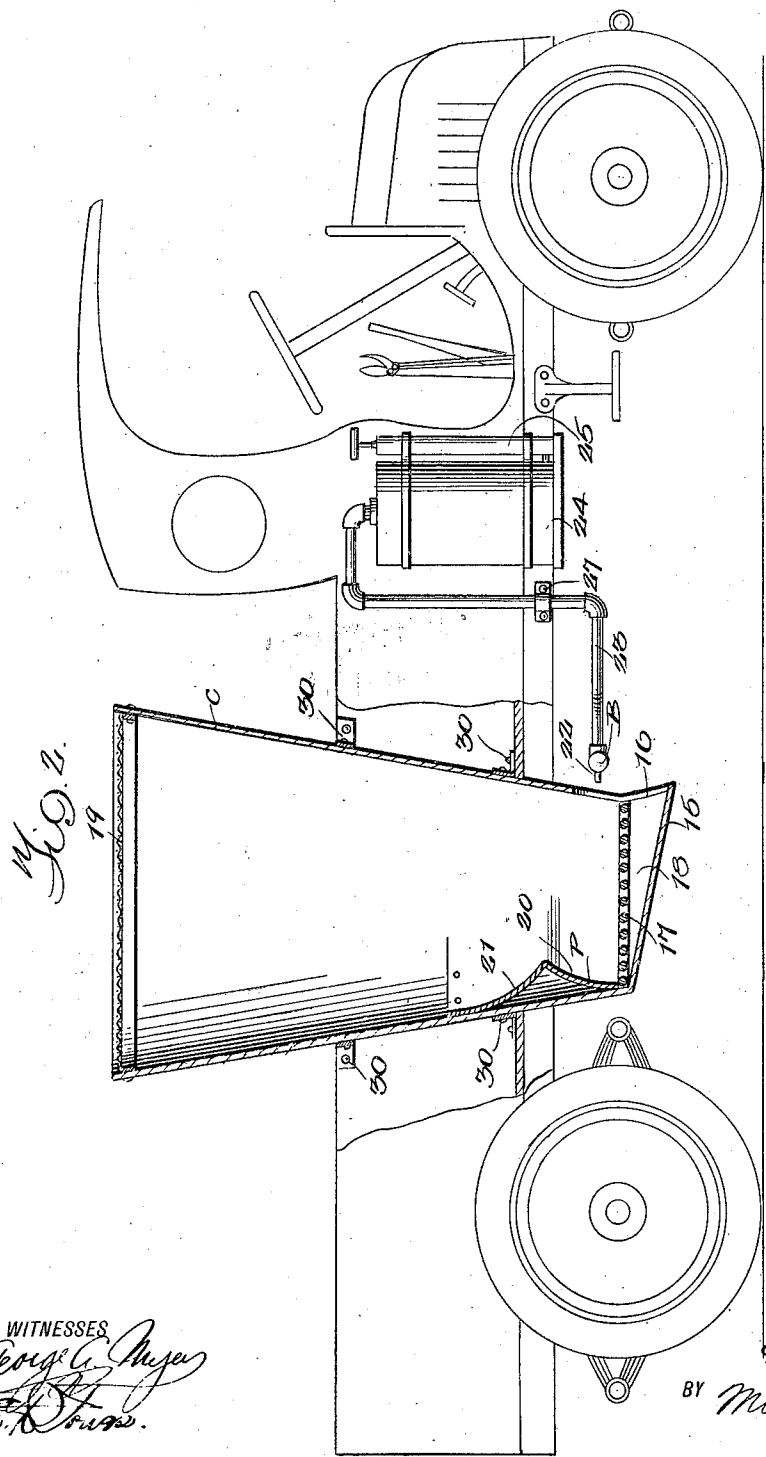
INVENTOR
C. W. ESHELMAN,
BY *Wm. H. Lee*
ATTORNEYS

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2 SHEETS-SHEET 2



WITNESSES
George E. Meyer
E. A. Dineen

INVENTOR
C. W. ESHELMAN,
BY *Mumford*
ATTORNEYS

UNITED STATES PATENT OFFICE.

CHARLES WILBERTON ESHELMAN, OF NEWPORT NEWS, VIRGINIA.

PORTABLE INCINERATOR.

Application filed June 29, 1922. Serial No. 571,636.

To all whom it may concern:

Be it known that I, CHARLES W. ESHELMAN, a citizen of the United States, and a resident of Newport News, in the county of Warwick and State of Virginia, have invented certain new and useful Improvements in Portable Incinerators, of which the following is a specification.

My invention relates to incinerators and the purpose of my invention is the provision of an incinerator adapted to be applied to a motor truck so as to render the same portable and to thereby permit of the incineration of refuse while the vehicle is under way.

It is also a purpose of my invention to provide a portable incinerator of extremely simple and inexpensive construction and which effects the complete incineration of garbage to the extent that the fumes emanating from the incinerator are odorless.

I will describe one form of incinerator and two applications of the same to motor vehicles, and will then point out the novel features thereof in claims.

In the accompanying drawings:

Figure 1 is a view showing in side elevation a motor truck having applied thereto one form of incinerator embodying my invention.

Figure 2 is a view similar to Figure 1 with portions thereof broken away showing the incinerator applied to a motor truck at a point intermediate the ends of the truck body.

Figure 3 is a transverse horizontal section of the container and burner embodied in the incinerator shown in the preceding views.

Similar reference characters refer to similar parts in each of the several views.

Referring specifically to the drawings, my invention in its present embodiment comprises a container or receptacle C substantially of frusto-conical formation with its smallest end disposed lowermost and having an inclined bottom wall 15 with an opening 16 in the forward side of the container adjacent the wall for the purpose of creating a draft upwardly of the container and for admitting the flames from the burner B. Suitably supported in the lower end of the container is a grate 17 arranged to divide the container into an ash pit 18 which is in communication with the opening 16 to permit of the discharge of ashes there-through. The upper end of the container is spanned by a foraminous material 19 such

as screening or the like designed for the purpose of preventing the escape from the container of sparks or other particles elevated by means of the draft created in the container. Within the lower end of the container a baffle plate P is provided for the purpose of deflecting the flames upwardly of the container, such plate having an arcuately and inwardly curved portion 20 for this purpose. The plate P is also formed with a reversely curved portion 21 which forms a support for the material in the container and thereby allows of the proper draft being created.

As illustrated to advantage in Figure 3 the burner B is provided with a plurality of jets 22 all arranged in the same horizontal plane to evenly distribute the flames across the surface of the grate. This burner B is adapted to be supplied with oil or other suitable form of fuel by means of a pipe 23 connected to a fuel supply tank 24. For putting the fuel contained in the tank 24 under pressure so as to convey the same to the burner B and to create the necessary pressure to atomize the fuel as it leaves the jets, a pump 25 is provided.

In the application of the incinerator to a motor vehicle as shown in Figure 1, the container C is supported at the rear end of the truck body by means of brackets 26, and in such manner that the opening 16 is arranged at the forward side of the container to allow of the deposition of the ashes beneath the vehicle. The pipe 23 is extended beneath the truck body and to one side where it is supported in a bracket 27. The tank 24 is supported on a ledge 28 and brackets 29 are provided for securely retaining the tank as well as the pump 25 thereon. The pump is disposed in convenient position for operation by the driver of the motor vehicle so that when the vehicle is under way the pump can be operated to maintain sufficient pressure in the tank 24 for the purpose previously described.

In Figure 2, the container C is disposed intermediate the ends of the truck body, a suitable opening being formed in the truck body and the container secured therein by means of brackets 30. With the container so arranged its lower end is disposed beneath the truck body so that the ashes will be deposited therebeneath, and the opening 16 disposed above the burner B. The tank 24 and the pump 25 are arranged in the same

manner as shown in Figure 1 so that the operator of the vehicle can actuate the pump.

In the operation of the incinerator, the garbage or other refuse matter is introduced into the container so that the main bulk thereof is supported on the portion 21 of the plate P. With the burner B lighted the flames emanating from the jets 22 are projected into the container at a point directly above the grate 17, and through the medium of the portion 20 of the plate P these flames are directed upwardly into the container and into direct contact with the garbage.

The intense heat so generated quickly consumes the refuse matter, the ashes dropping from the container through the opening 16 and the other products of combustion passing from the upper end of the container. By means of this incinerator the refuse matter is completely consumed so that the products of combustion are odorless. This allows of the use of the incinerator on a vehicle when the latter is actually under way and thereby eliminating the necessity of the refuse matter being conveyed to some remote point for incineration, and the attendant expense incident to such conveyance.

Although I have herein shown and de-

scribed only one form of incinerator embodying my invention, it is to be understood that various changes and modifications may be made herein without departing from the spirit of the invention or the spirit and scope of the appended claims.

What I claim is:

1. An incinerator comprising a container having an inclined bottom and a screened upper end, a discharge opening adjacent the bottom, a grate within the container adjacent the discharge opening, a burner adjacent the discharge opening, and a baffle plate within the container and arranged to deflect the flame from the burner upwardly into the container.

2. An incinerator comprising a container of frusto-conical form having an ash discharge opening adjacent its lower end and a bottom wall inclined in the direction of the opening, a grate within the container adjacent the opening, a baffle plate within and curved inwardly of the container, a burner arranged adjacent the opening and including a plurality of jets arranged in a horizontal plane to uniformly distribute the flames over the surface of the grate, and means for supplying the fuel under pressure to the burner.

CHARLES WILBERTON ESHELMAN.