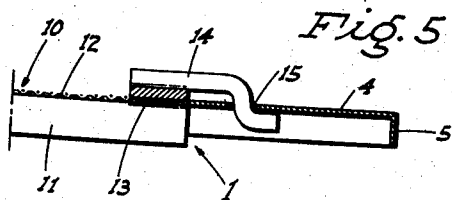
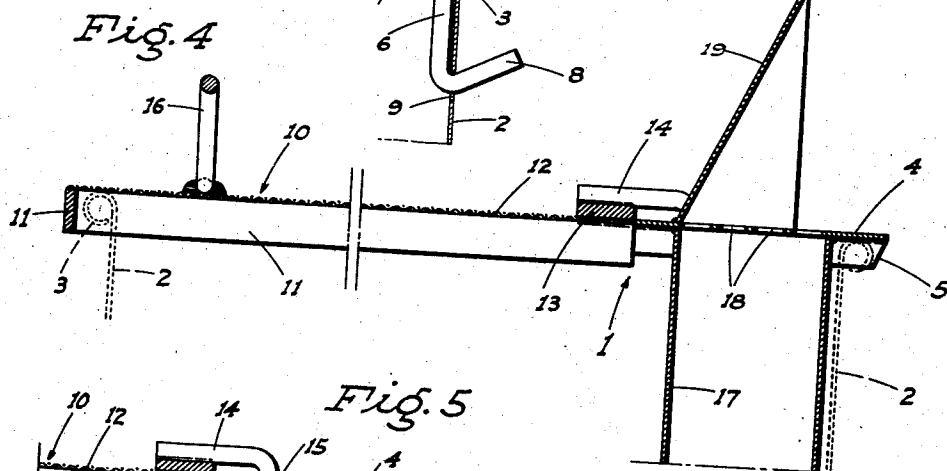
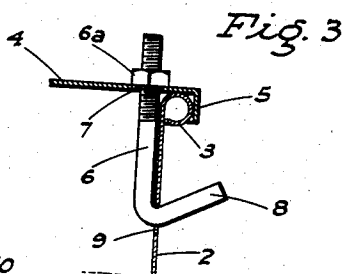
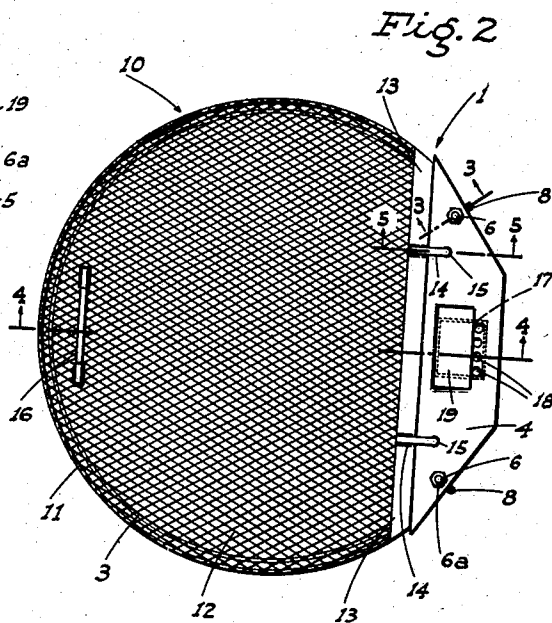
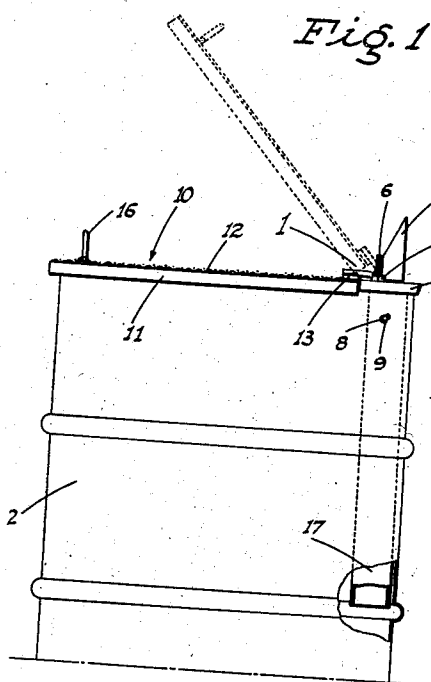


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TRASH BURNER COVER UNIT
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TRASH BURNER COVER UNIT

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2 Claims. (Cl. 110-18)

This invention relates to incinerators or trash burners of what may be termed the domestic or back-yard type, and which frequently consist of empty fifty-gallon oil or similar drums. Since such drums are ordinarily used either with no cover at all, or with one of a makeshift nature, there is always the chance that sparks or burning fragments will be blown from the incinerator, with possible danger to adjacent property from the fire hazard thus created.

The principal object of my invention is to provide a cover unit for an open-top incinerator drum, so constructed that sparks and the like are prevented from escape, while at the same time a good draft is provided for the matter being burned; assuring quick and thorough incineration so that the ash residue is reduced to a minimum.

A further object of the invention is to provide a cover unit which may be easily installed on a conventional drum so that the cover unit is rigidly yet removably mounted on the drum, while at the same time the cover may be opened whenever desired for the placing of trash into the drum, without removing the unit from the drum.

It is also an object of the invention to provide a trash burner cover unit which is designed for ease and economy of manufacture.

Still another object of the invention is to provide a practical, reliable, and durable trash burner cover unit, and one which will be exceedingly effective for the purpose for which it is designed.

These objects are accomplished by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specification and claims.

In the drawings:

Fig. 1 is a side elevation of the improved cover unit, shown as installed on a conventional oil drum.

Fig. 2 is a top plan view of the cover unit as mounted on the drum.

Fig. 3 is a fragmentary enlarged section on line 3-3 of Fig. 2.

Fig. 4 is an enlarged longitudinal section of the cover unit, detached from the drum, taken on line 4-4 of Fig. 2.

Fig. 5 is a fragmentary enlarged section of the cover unit, taken on line 5-5 of Fig. 2.

Referring now more particularly to the drawings, and to the characters of reference marked thereon, the cover unit 1, which forms the subject matter of this invention, is designed for installation on any conventional industrial metal drum, such as the oil drum indicated at 2, and which is formed with a top rim bead 3.

The cover unit 1 comprises a segmental transverse back plate 4 adapted to rest on the adjacent portion of the drum bead 3 and formed with depending locating and stiffening flanges 5 along its sides. The back plate 4 is rigidly but removably attached to the drum by means of a pair of hook bolts 6 slidably projecting through

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holes 7 suitably located in the plate so that the bolts depend into the drum adjacent the side wall thereof, as shown in Fig. 3.

The bolts 6, on their lower end, are formed with upwardly sloping hook elements 8 adapted to be projected through holes 9 drilled through the drum wall; the drilling of these holes being the only work which has to be done on the drum in order to mount the cover unit thereon. After the hook elements 8 have been inserted through the holes 9 the nuts 6a on the bolts above the plate 4 are tightened down, thus pulling the plate into clamping engagement with the drum bead 2.

The main and relatively movable portion 10 of the cover unit comprises a band 11 of a size to extend about the portion of the drum bead 2 in front of the plate 4; the ends of the band being adjacent the front edge of said plate.

A screen cover 12, preferably of the type known as expanded metal lath, is welded about its periphery to the band so that the cover rests on the drum bead 2 with the band 11 depending therefrom. Along the rear edge of the cover 12—which extends parallel to and adjacent the front edge of the plate 4—such cover is braced, and the band 11 stiffened, by a cross bar 13 on top of the same and welded thereto.

The cover portion 10 is connected to the back plate 4 by hinge means, here shown as being rigid, hook-like members 14 rigidly secured on the bar 13 and projecting rearwardly therefrom over the adjacent portion of the plate 4, then downwardly through holes 15 in said plate, and thence rearwardly a short distance, as shown in Fig. 5.

A suitably located handle 16 is secured on the cover portion 10 near the front thereof, so that said portion may be manually raised, about the hinge members 14 as an axis, for the insertion of trash into the drum.

In order to provide a down-draft for the burning trash within the drum, to insure of quick burning of the trash, a combustion air supply duct 17—open at its lower end—is secured on, and depends from, the plate 4 centrally between the sides thereof and close to the wall of the drum at the back, as shown. The plate is formed with a plurality of orifices 18 opening into the duct. The air is guided into the flue by a deflector hood 19 secured on, and upstanding from, plate 4 over the orificed area; the hood being open at the rear and the front wall thereof having a rearward slope to its upper end, as shown.

All the parts of the cover unit are preferably made of steel, connected together to form a sturdy and durable device, and yet one which is sufficiently light to allow of easy installation and manipulation.

From the foregoing description it will be readily seen that there has been produced such a device as will substantially fulfill the objects of the invention, as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations therefrom may be resorted to as do not form a departure from the spirit of the invention, as defined by the appended claims.

Having thus described the invention, the following is claimed as new and useful, and upon which Letters Patent are desired:

1. In combination with an incinerator drum having a side wall and a top rim, a cover unit therefor comprising a front foraminous portion and a rear portion to rest on the rim and hinged together for up and down swinging movement of the front portion relative to the rear portion, said rear portion being a rigid plate, means to secure the plate on the drum, and a combustion air supply duct secured on and depending from the plate into the

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drum a substantial distance adjacent the back thereof, the plate being orificed to register with the duct.

2. A cover unit, as in claim 1, including a deflector hood secured on and projecting upwardly from the plate and embracing the orificed area thereof; the hood being freely open at the back and having a front wall sloping upwardly to the rear.

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