April 17, 1928.

1,666,807

H. YONEHIRO

BURNER

Filed Aug. 4, 1926

Fig. 1.

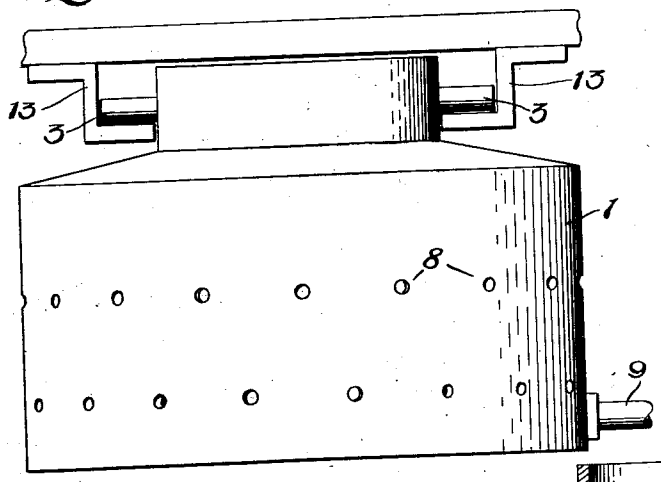



Fig. 2.

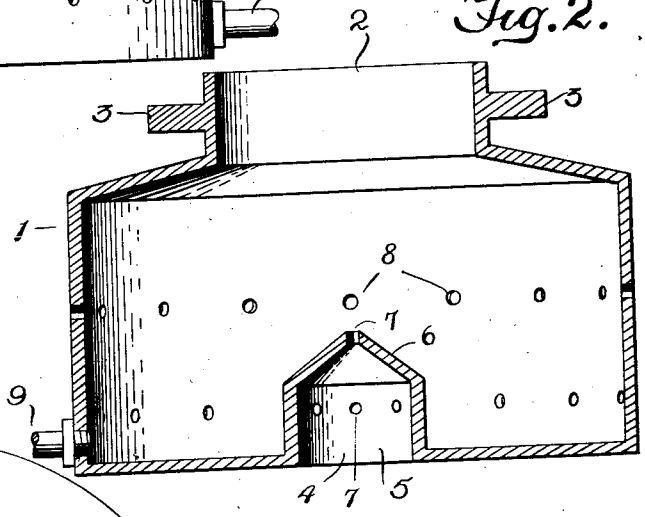
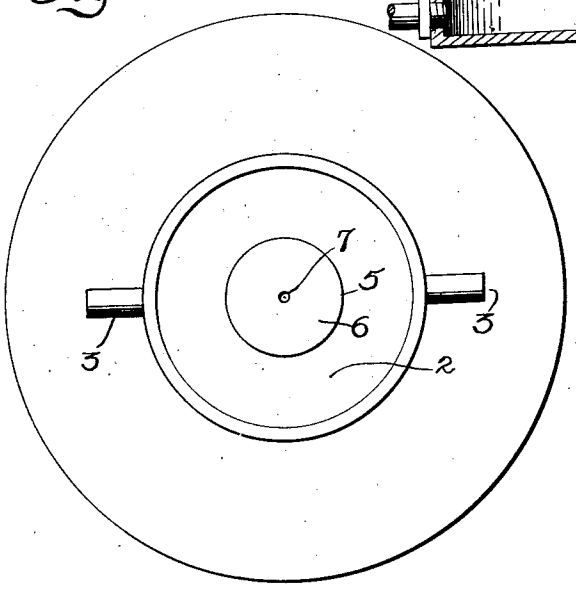



Fig. 3.




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Patented Apr. 17, 1928. 1,666,807

# UNITED STATES PATENT OFFICE.

HATSUZUCHI YONEHIRO, OF HONOLULU, TERRITORY OF HAWAII.

## BURNER.

Application filed August 4, 1926. Serial No. 127,151.

This invention relates to a device for burning crude oil and the like, the general object of the invention being to provide a furnace or stove having a combustion chamber with an opening in its bottom, with an oil burner arranged with its mouth under the opening so that the flame from the burner will enter the casing, with means for supplying fuel and air to the burner.

Another object of the invention is to provide means whereby the burner can be removed so that it can be cleaned.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is side view of the burner and showing part of its supporting means.

Figure 2 is a sectional view through the burner.

Figure 3 is a plan view of the burner.

As shown in these views, the burner 1 is formed with a cylindrical body, an inwardly and upwardly sloping top and a wide mouth 2 which is of cylindrical shape. Oppositely arranged pins 3 extend outwardly from the mouth. The bottom of the burner is formed with an opening 4 which is surrounded by a cylinder 5 having a conical upper end 6. Holes 7 are formed in the cylinder 5 and in the tip of the cone and perforations 8 are formed in the body of the burner 1. The liquid fuel is fed into the burner from any suitable source through the pipe 9.

The oil collecting in the bottom of the burner 1 is ignited and the air entering the perforations 7 and 8 will support combustion within the device and the resultant flames will pass through the mouth 2.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:—

A burner of the character described comprising a cylindrical body of uniform diameter throughout, and including a conical-shaped top having a relatively wide mouth, an annular flange rising from said mouth, pins projecting from diametrically opposite points on said flange, a flat bottom for said body portion having a centrally located opening, a cylindrical wall forming an integral part of said bottom and rising therefrom within the body portion, said cylindrical wall and body portion being perforated, a conical-shaped top rising from the cylindrical wall and provided with an opening in the apex thereof, and a fuel supply pipe entering said body at a point adjacent the bottom.

In testimony whereof I affix my signature.

HATSUZUCHI YONEHIRO.