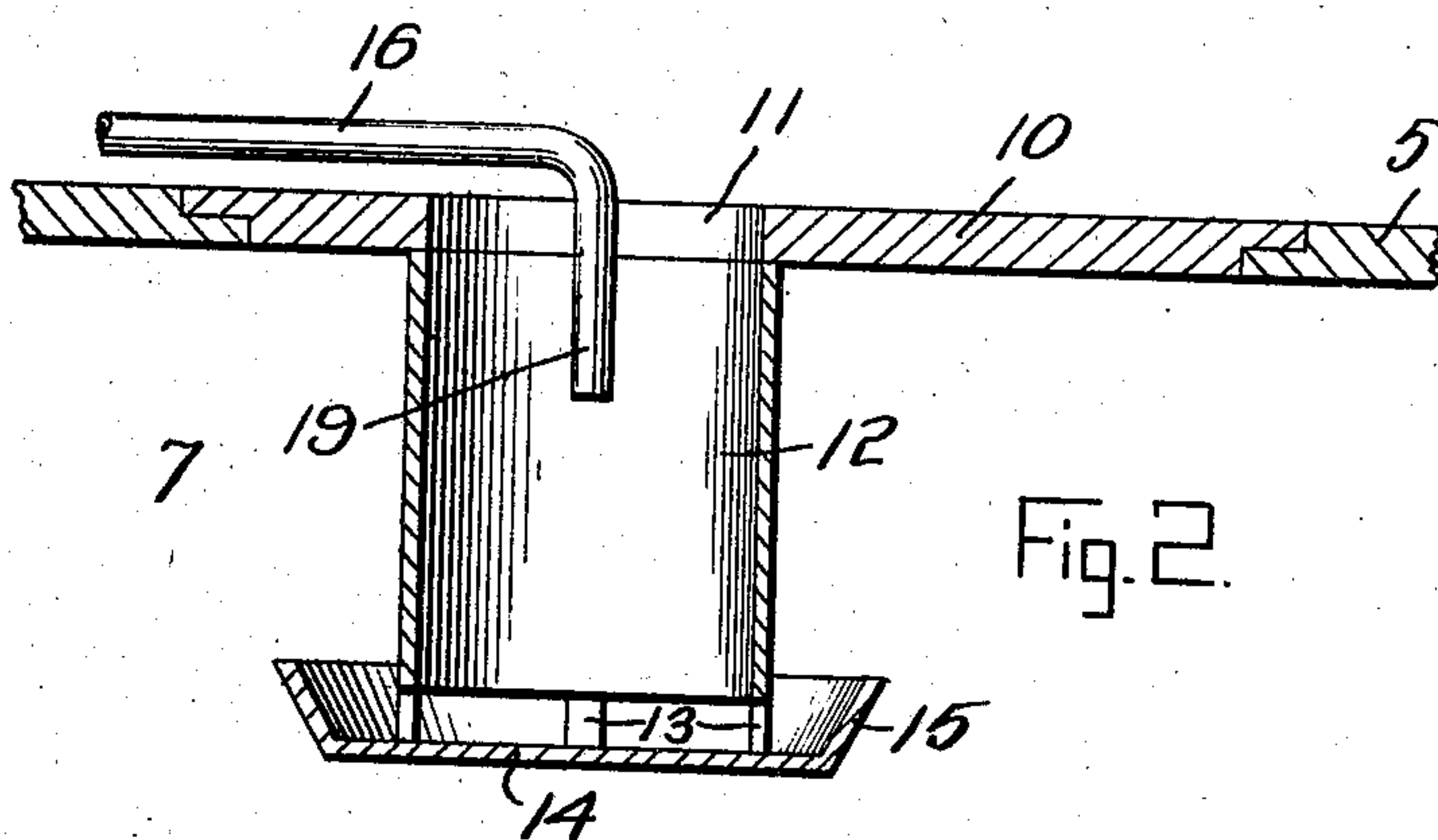
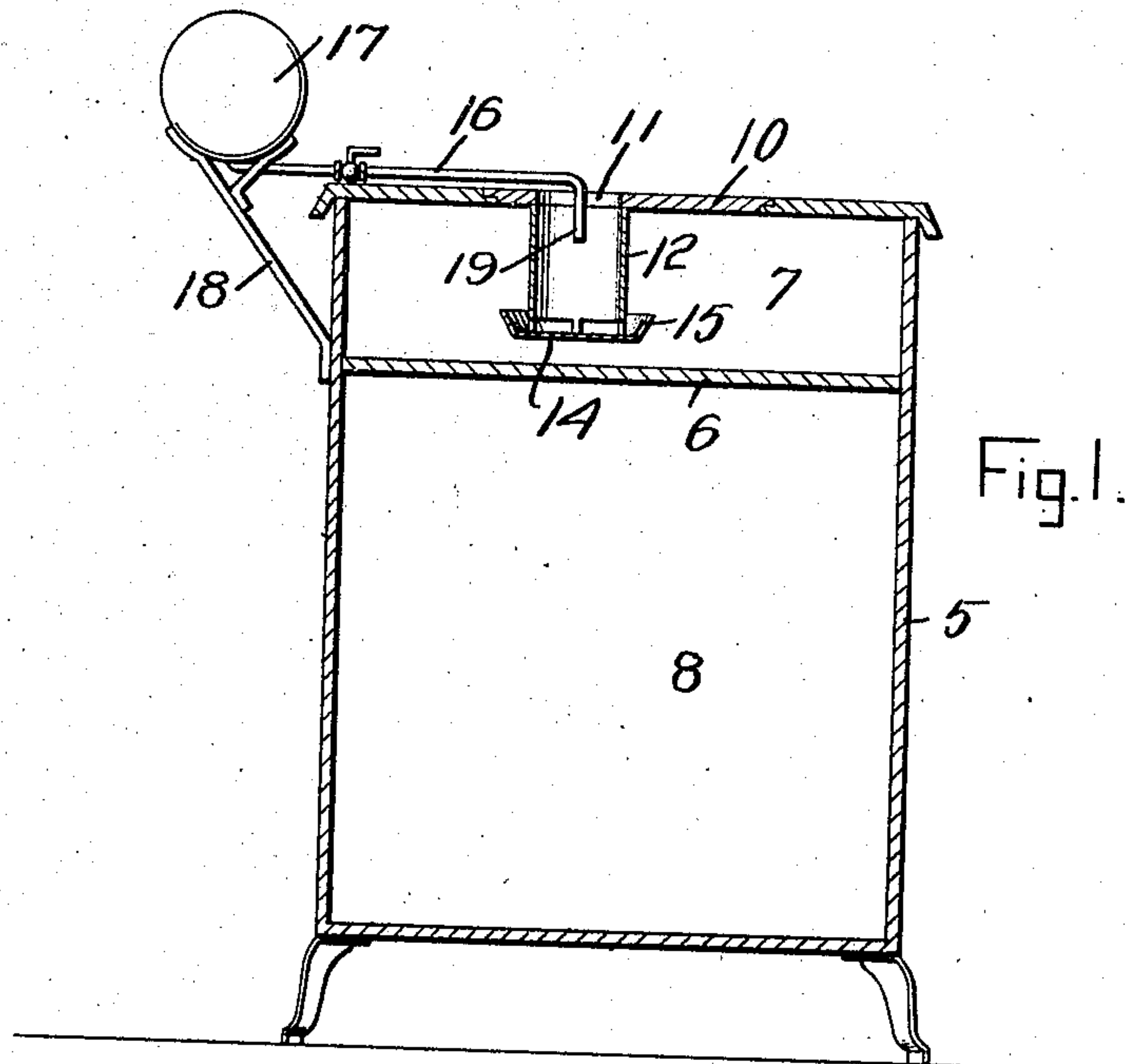


No. 894,503.

PATENTED JULY 28, 1908.

F. W. HORTON.
STOVE OIL BURNER.
APPLICATION FILED SEPT. 10, 1907.

2 SHEETS—SHEET 1.



Witnesses

C. H. Reichenbach.
John S. Myers

Inventor

F. W. Horton.

By

[Signature]

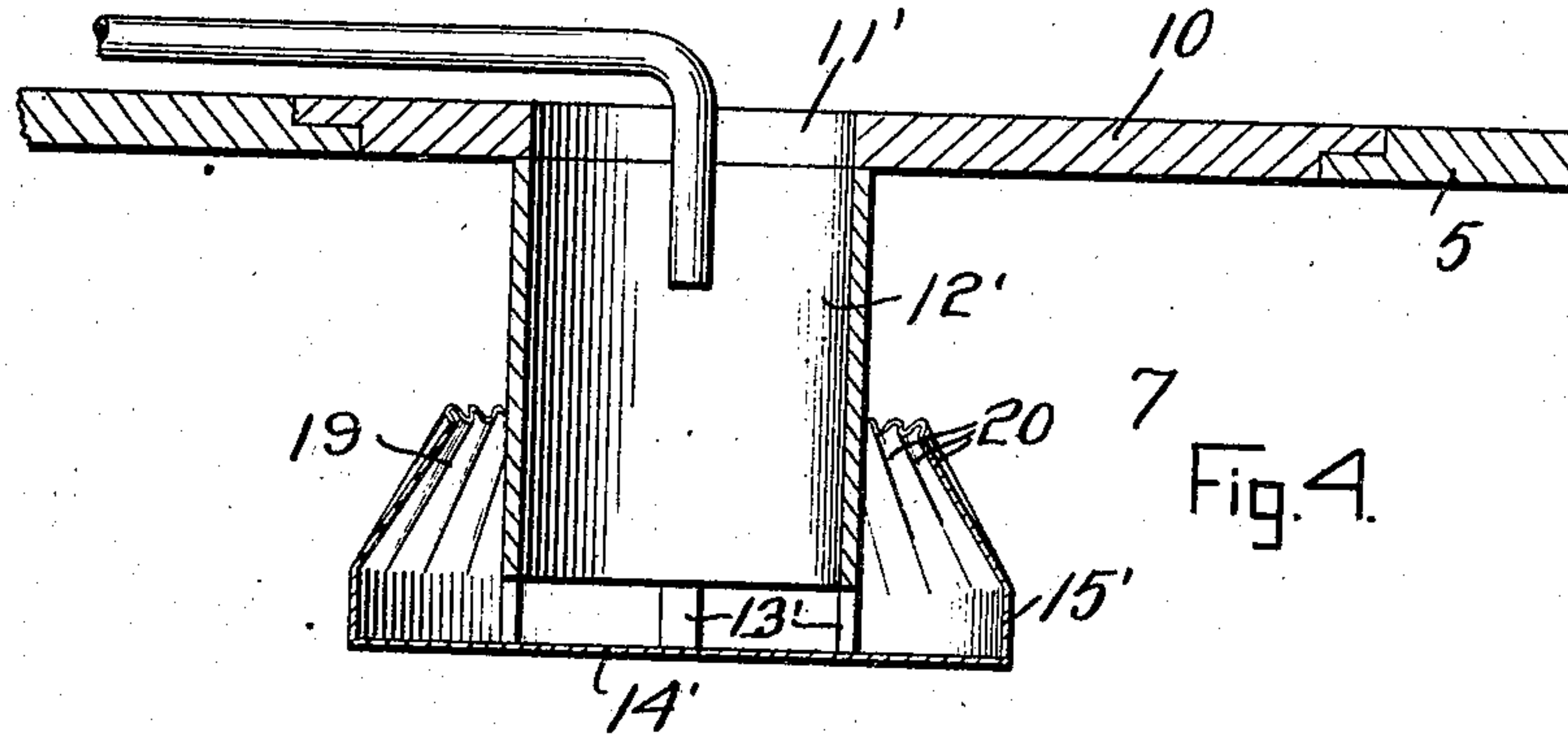
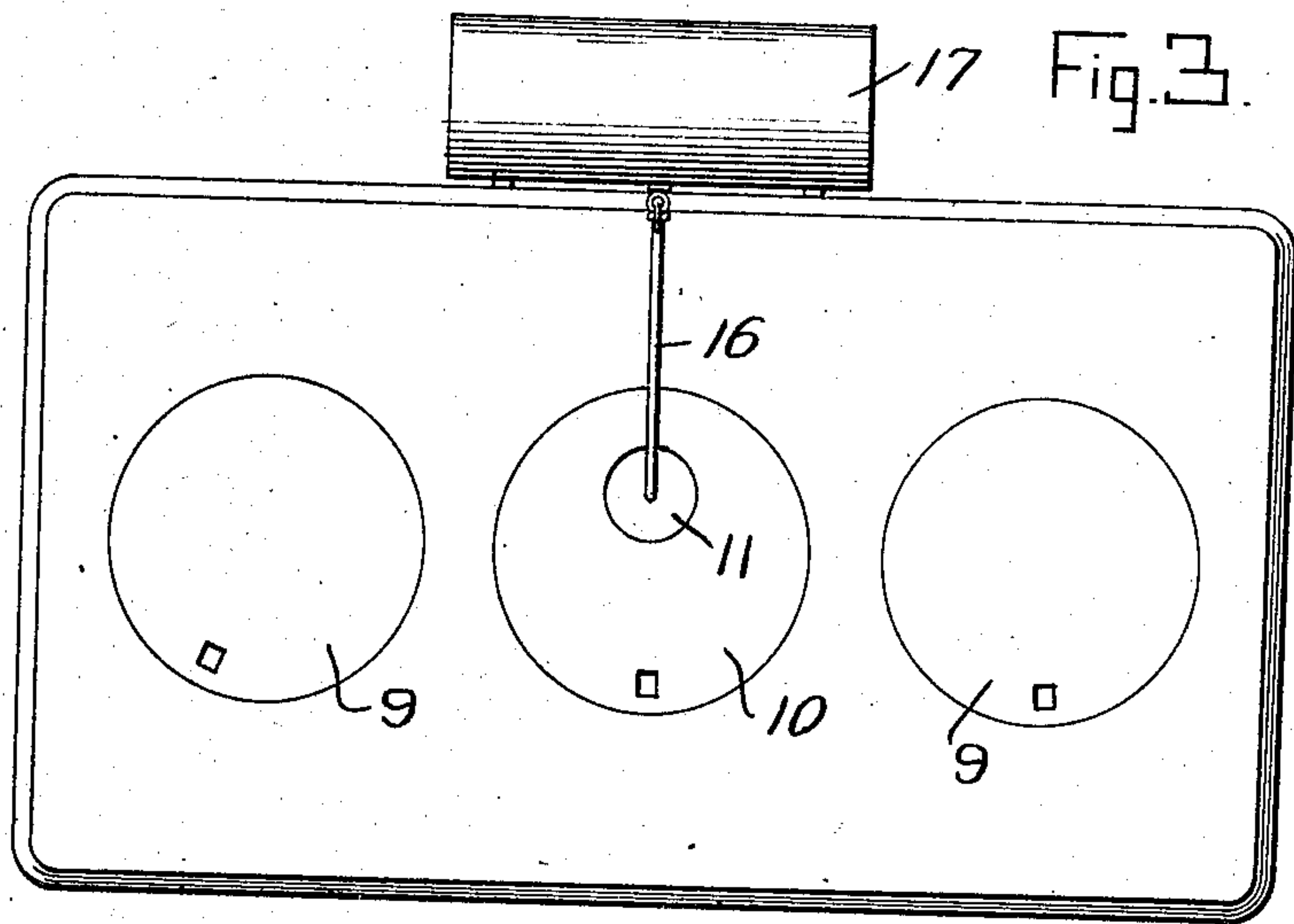
Attorneys.

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2 SHEETS—SHEET 2.



Witnesses
C. K. Reichenbach.
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UNITED STATES PATENT OFFICE.

FLOYD WESLEY HORTON, OF IONE, CALIFORNIA.

STOVE OIL-BURNER.

No. 894,503.

Specification of Letters Patent.

Patented July 28, 1908.

Application filed September 10, 1907. Serial No. 392,186.

To all whom it may concern:

Be it known that I, FLOYD WESLEY HORTON, a citizen of the United States, residing at Ione, in the county of Amador, State of California, have invented certain new and useful Improvements in Stove Oil-Burners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in oil stoves and it has more particular reference to an oil stove comprehending a burner of novel construction.

The details of the invention will appear in the course of the following description in which reference is had to the accompanying drawings forming a part of this specification, like characters of reference designating similar parts throughout the several views, wherein:—

Figure 1 is a central longitudinal section of an oil stove constructed in accordance with the present invention. Fig. 2 is a detailed sectional view of the burner and its adjuncts. Fig. 3 is a top plan view of the stove. Fig. 4 is a detailed sectional view of a burner in which a slightly modified embodiment of the invention is employed.

The stove in connection with which the present invention is employed is designated generally by the numeral 5 and is of box like form being divided by a horizontal mid-wall 6 into a fire box 7 and an oven or heating chamber 8. The top of the stove, likewise constituting the top of the fire box has openings for stove lids 9 of ordinary form.

The present invention resides specifically in the provision of a stove lid 10 having an opening 11 registering with a depending tube 12 secured to the lid 10 and forming the body of the burner. The tube 12 supports at its lower end by means of depending straps 13 a spaced oil pan 14 having an upstanding circumscribing flange 15 constituting in effect the sides of the pan 14 into which the tube 12 slightly projects.

Oil is supplied by a valved pipe 16 from an elevated tank 17 supported on a bracket 18, the pipe 17 having a depending extension 19 which projects slightly into the tube 12.

In the modified embodiment of the invention illustrated in Fig. 4, the lid is designated

by the numeral 10', its opening 11', the tube 12', the supporting straps 13', the pan 14' and its flange 15'. These elements are similar to the elements correspondingly designated to the description of the preferred form of the invention but the departure resides in providing the flange 15' with an extending hood 19' of frusto-conical shape which surrounds the tube 12 and is provided with flame deflecting longitudinal corrugations 20.

It will thus be seen that the relation of the flange 15 to the tube 12 is such that a strong draft of air is drawn through the tube and is deflected upwardly, by means of the flange 15 so as not to spread beyond the pan 14, the result being a more perfect degree of combustion and better vaporization to the direct action of the intense heat on the tube 12. This result is also attained in the modified embodiment of the invention in which the extension 19' affords a more positive means for directing the air draft and the flames and in which the corrugations 20 assure of a more even distribution of the flames.

What is claimed is:

1. A burner comprising in combination with a stove having a fire box, a lid for said fire box having an opening, a tube depending from said lid and in registry with said opening, an oil pan supported from the lower end of said tube in spaced relation and an upwardly directed flange formed on said oil pan and constituting the sides thereof, said tube projecting within the confines of said flange, said flange having an extended corrugated hood surrounding said tube and spaced therefrom.

2. A burner comprising in combination with a stove having a fire box, a lid for said fire box having an opening, a tube depending from said lid and in registry with said opening, an oil pan supported from the lower end of said tube in spaced relation and an upwardly directed flange formed on said oil pan and constituting the sides thereof, said tube projecting within the confines of said flange, said flange having an extended corrugated hood of frusto conical shape surrounding said tube and spaced therefrom.

3. A burner comprising in combination with a stove having a fire box, a lid for said fire box having an opening, a tube depending from said lid and in registry with said opening, an oil pan supported from the lower end

of said tube in spaced relation and an upwardly directed flange formed on said oil pan and constituting the sides thereof, said tube projecting within the confines of said flange,
5 said flange having an extended longitudinally corrugated hood surrounding said tube and spaced therefrom.

In testimony whereof, I affix my signature, in presence of two witnesses:

FLOYD WESLEY HORTON.

Witnesses:

GEO. F. MACK,
JOS. S. SEARS.