J. G. HILTON.

OIL BURNER.

APPLICATION FILED MAR. 10, 1911.

992,129. Patented May 9, 1911.

Fig. 3

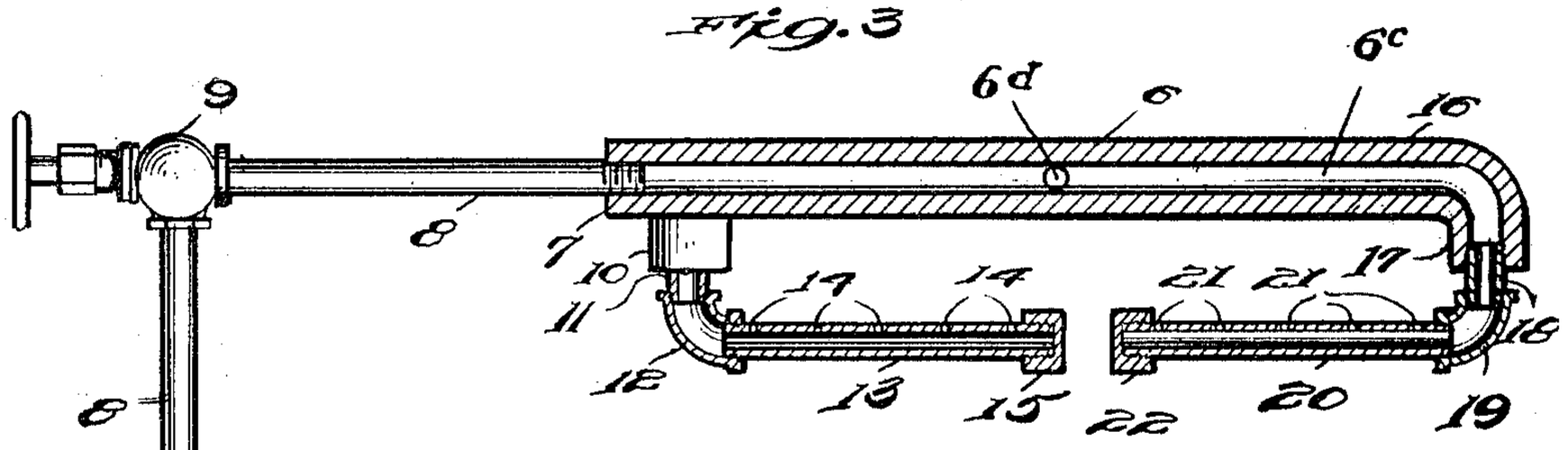


Fig. 2

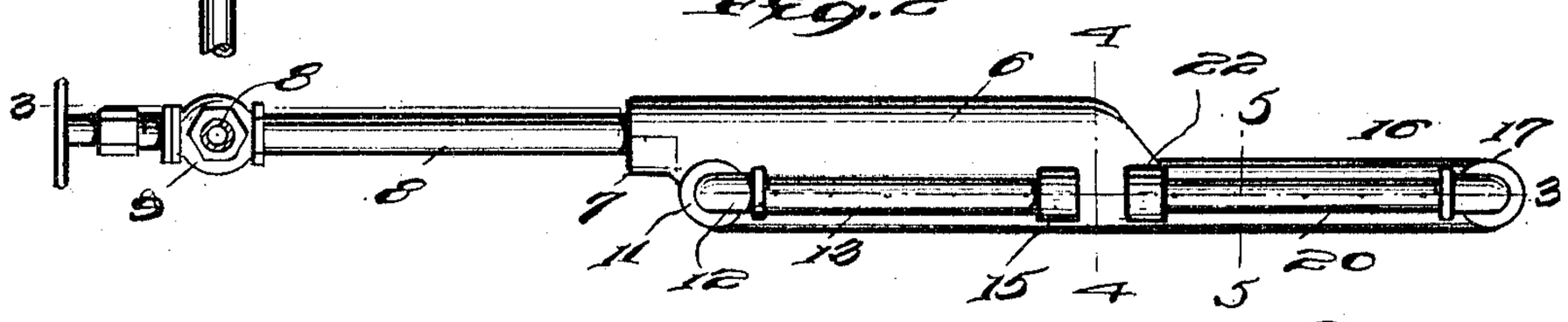


Fig. 1

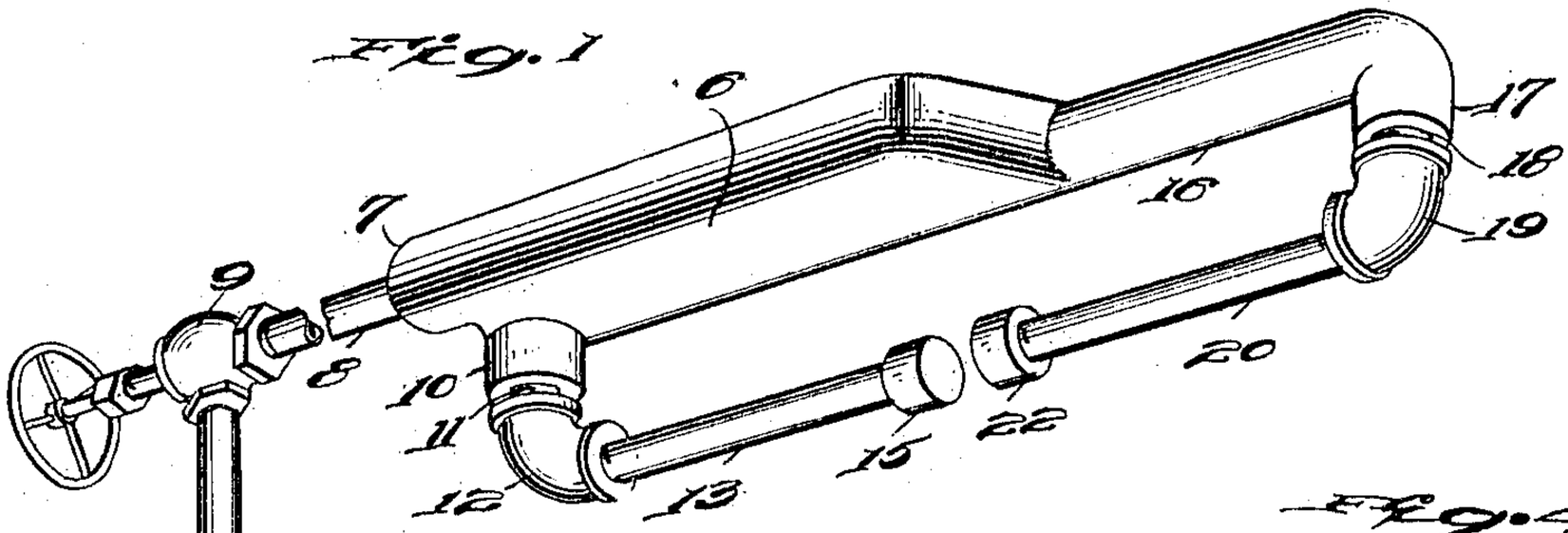


Fig. 4.

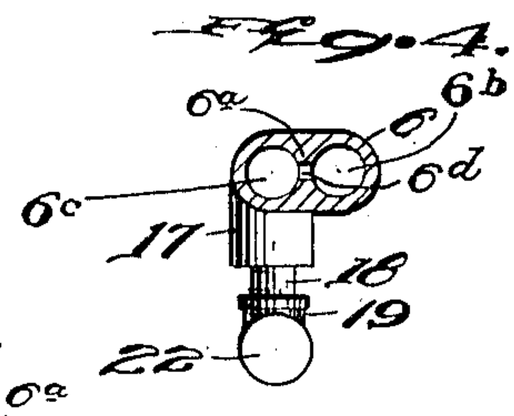
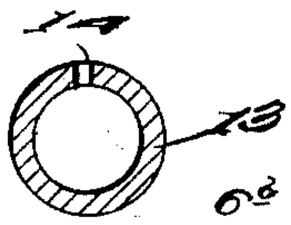


Fig. 5



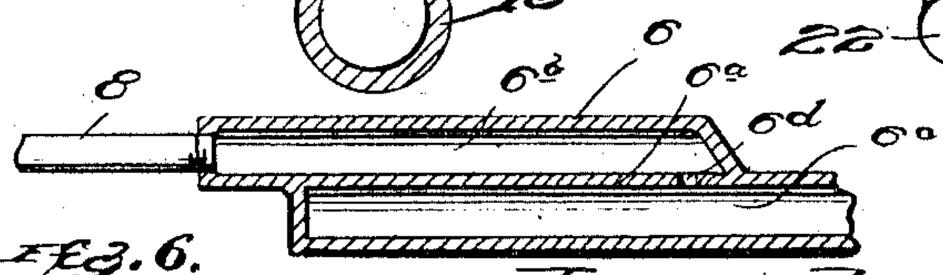


Fig. 6.

Witnesses

J. F. Mills

H. Jones Duyle

Inventor

Jesse G. Hilton

By E. G. Crooman,

Attorney.

UNITED STATES PATENT OFFICE.

JESSE G. HILTON, OF MENA, ARKANSAS.

OIL-BURNER.

992,129 Specification of Letters Patent. Patented May 9, 1911.

Application filed March 10, 1911. Serial No. 613,545.

To all whom it may concern:

Be it known that I, JESSE G. HILTON, a citizen of the United States, residing at Mena, in the county of Polk and State of Arkansas, have invented certain new and useful Improvements in Oil-Burners, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to oil burners, and the principal object of the same is to provide an oil burner that can be placed in the fire box of a stove, said burner being formed of few parts which are threaded together so that they can be readily separated to minimize storage space and to facilitate cleaning or making repairs and substitution of parts.

A preferred and practical embodiment of the invention is shown in the accompanying drawings, wherein:—

Figure 1 is a perspective view of the improved oil burner. Fig. 2 is a bottom plan view thereof. Fig. 3 is a longitudinal vertical sectional view taken on the line 3—3, Fig. 2. Fig. 4 is a transverse vertical sectional view taken on the line 4—4, Fig. 2. Fig. 5 is a similar view of one of the burner pipes, taken on the line 5—5, Fig. 2. Fig. 6 is a fragmentary horizontal sectional view of the burner.

The improved oil burner comprises a flat hollow body 6 that is centrally divided by the longitudinally extending partition 6^a to form a fuel chamber 6^b and a generating chamber 6^c. Partition 6^a is provided with an opening 6^d that places the two chambers in communication. A tubular projection 7 extends outward from one corner of one end of the fuel chamber 6^b and is internally threaded so that it can be readily placed in engagement with the externally threaded end of a fuel supply pipe 8. The supply pipe 8 is adapted to be extended through the wall of a stove, and beyond the stove, is equipped with a controlling valve 9, said valve being preferably of the needle type. At the corner adjacent the inlet tube 7, generating chamber 6^c has a tubular outlet 10 projecting from its lower surface into which a pipe 11 is threaded. Pipe 11 has an elbow connection 12 with a burner pipe 13, said pipe 13 extending parallel with and in spaced relation to the bottom of the generating chamber 6^c. The upper surface of burner pipe 13 is provided with a plurality of regularly-spaced discharge openings 14, and the free end of said pipe is sealed by a cap 15, said cap being threaded onto said free end.

The end of generating chamber 6^c opposite the outlet tube 10 is provided with a tubular extension 16 which projects from one corner thereof and is a continuation of the said generating chamber. Said extension 16 terminates in a downturned end 17 into which a pipe 18 is threaded, said pipe 18 being also threaded to an elbow coupling 19. A burner pipe 20 is threaded to the coupling 19 and is retained thereby in spaced parallel relation to the extension 16, and in alinement with burner pipe 13. The burner pipe 20 is provided with openings 21 and an end cap 22 similar to the burner pipe 13.

It will be clear from the foregoing that the fuel enters the fuel chamber 6^b and passes through the opening 6^d to the generating chamber 6^c. The generating chamber being directly above the burners, it will be clear that said generating chamber is quickly heated so that the fuel is delivered to the said burner in the form of vapor.

The body 6, outlet 10, and extensions 7 and 16 are preferably integral, and the other parts of the invention are in threaded engagement, which permits the burner to be dismantled so that the parts thereof can be packed compactly, and also facilitates cleaning or substitution of parts.

A prominent feature of the invention is that the body and its extension 16 are so shaped that they can be economically manufactured and that the burner requires but one opening to be formed in the stove, said opening being for the purpose of permitting the supply pipe 8 to enter the stove.

What I claim is:—

An oil burner comprising a flat hollow body provided with a partition to provide fuel and generating chambers, said partition being provided with an opening for placing said chambers in communication, said fuel chamber having a fuel inlet tube projecting outwardly from one corner of one end thereof, said generating chamber having an outlet tube projecting from the lower portion of the adjacent corner of said end, said generating chamber being also provided with a

tubular extension at the opposite end that is a continuation thereof, a burner carried by said outlet tube and supported in spaced parallel relation to the bottom surface of the generating chamber, a burner carried by the extension of the generating chamber and supported in spaced parallel relation to the bottom surface of said extension and in alinement with the first-mentioned burner, and a fuel supply pipe in engagement with the fuel inlet tube.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

JESSE G. HILTON.

Witnesses:
D. W. BARTON,
W. J. HENDERSON.