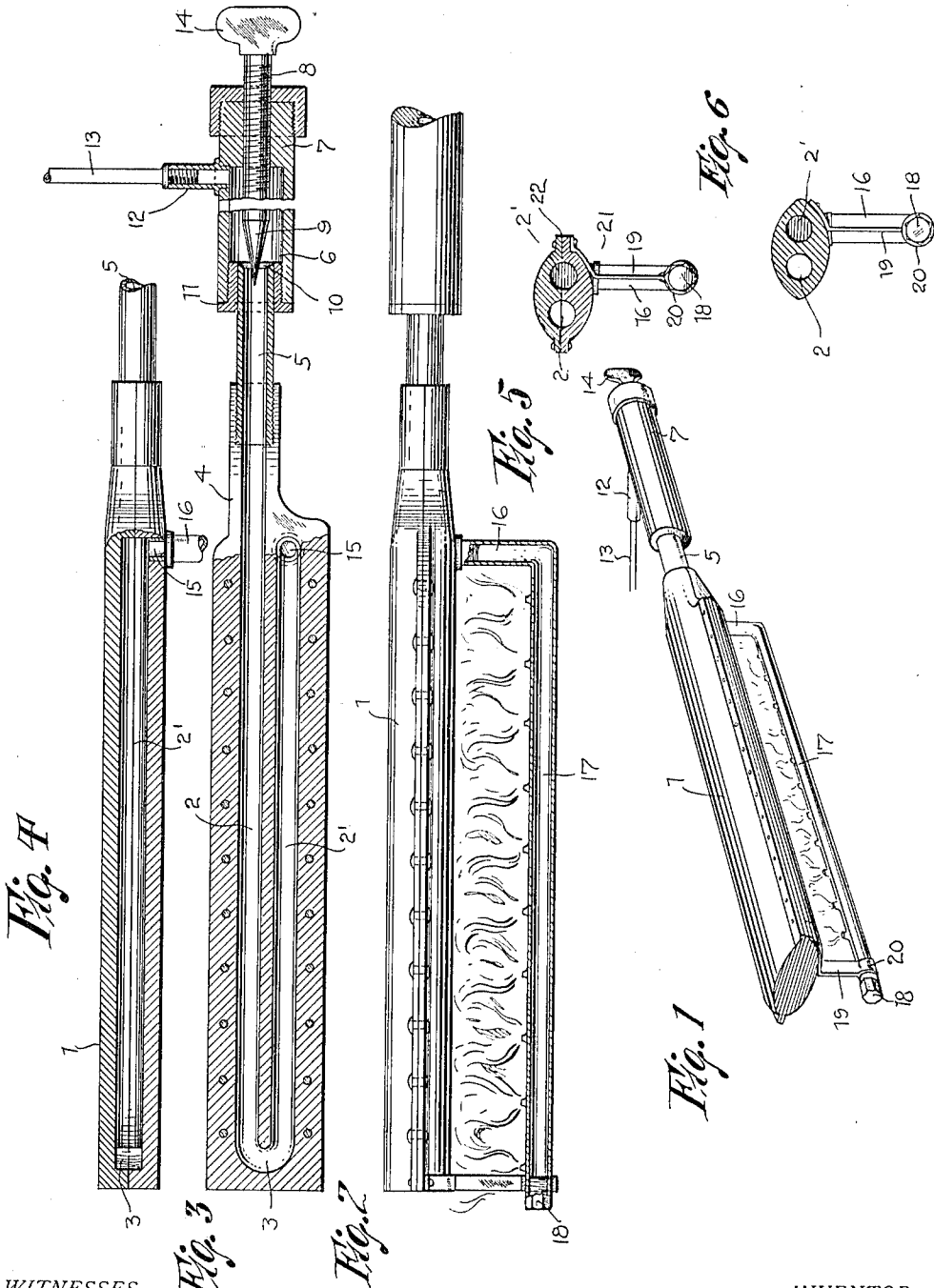


J. P. PRICE.
OIL BURNER.
APPLICATION FILED MAR. 25, 1912.

1,064,088.

Patented June 10, 1913.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOSEPH P. PRICE, OF CLEVELAND, TEXAS.

OIL-BURNER.

1,064,088.

Specification of Letters Patent.

Patented June 10, 1913.

Application filed March 25, 1912. Serial No. 686,011.

To all whom it may concern:

Be it known that I, JOSEPH P. PRICE, a citizen of the United States, residing at Cleveland, in the county of Liberty and State of Texas, 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.

10 This invention relates to oil burners and has for its object the production of a simple and efficient oil burner whereby the oil may be quickly gasified, and well distributed throughout the entire length of the burner.

15 Another object of this invention is the production of a simple and efficient burner mechanism, wherein the burner pipe will be suspended in an efficient manner below the vaporizing chamber.

20 With these and other objects in view this invention consists of certain novel constructions, combinations, and arrangements of parts, as will be fully described and claimed.

25 In the drawings, Figure 1 is a perspective view of the burner. Fig. 2 is a side elevation thereof showing the burner pipe in section. Fig. 3 is a horizontal section thereof. Fig. 4 is a longitudinal section of the vaporizing chamber. Fig. 5 is a transverse section of the vaporizing chamber showing the manner of supporting the burner pipe below the same. Fig. 6 is an embodiment of the present invention wherein the vaporizing chamber is molded in one piece.

35 Referring to the drawings by numerals 1 designates the vaporizing chamber which may be either made of two sections as illustrated in Figs. 1 to 5 inclusive or made in one piece as disclosed in Fig. 6. This vaporizing chamber comprises a pair of parallel channels 2 and 2', which communicate at their inner end as at 3. The vaporizing chamber 1 is provided with a reduced neck 4 which engages a threaded pipe 5 which threaded pipe is in turn threaded into a filler plug carried by the valve casing 6. This valve casing comprises an elongated tubular portion having a reduced bore at its end 7 in which works a threaded valve 8 having a pointed end 9 which is adapted to be

forced against the beveled face 10 of the pipe 5, which beveled face constitutes a valve seat for closing the passage of the flow of oil into the vaporizing chamber 1. The filler plug 11 is carried by the inner end of the casing 6 to accommodate the small pipe 5 which connects the valve casing 6 of the vaporizing chamber 1. The laterally extending sleeve 12 is carried by the casing 6 and engages a supply pipe 13. The valve stem 8 is provided with a winged end 14 for facilitating the rotation of the valve 8 within the casing 6.

The outer end of the channel 2' terminates in an aperture 15 within which aperture is secured the upper end of the depending burner pipe 16. This burner pipe 16 is provided with a laterally extending burner section 17 having its inner end closed by means of a plug 18. A bracket 19 is secured to the under face of the vaporizing chamber 1 near the inner end thereof and is provided with a collar 20 which encircles the burner section 17 for supporting the inner end thereof. This bracket 19 is provided with an angled upper end 21 for conforming to the contour of the lower face of the vaporizing chamber 1.

As clearly illustrated in Figs. 2 and 5, the vaporizing chamber comprises a pair of sections having laterally extending flanges 22 which are securely held together by means of rivets or other suitable fastening means but, it should be understood, that this device may be manufactured by casting the same entirely in one piece as illustrated in Fig. 6.

From the foregoing description it will be obvious that the burner pipe will be directly under the second channel through which the oil or vapor passes, thereby making it possible to heat the oil or vapor just before the same passes into the burner.

What is claimed is:—

An oil burner of the class described comprising a vaporizing chamber having a reduced neck, said chamber including a plurality of parallel channels, one of said channels being an interior supplying means, and the other of said channels being an outlet pipe, an exterior supplying means, a pipe 5 connecting the exterior supplying means to

the neck of said vaporizing chamber, said exterior supplying means comprising a casing, a filler in said casing, the outer end of said pipe 5 engaging in said filler, a valve seat on the outer end of said pipe 5, and a threaded rod having a winged finger piece and a pointed end adapted to engage said valve seat to control the inflow of oil.

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

JOSEPH P. PRICE.

Witnesses:

C. A. CLARK,
JAMES J. WEST.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
