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PILOT LIGHT FOR OIL BURNERS

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Fig. 1.

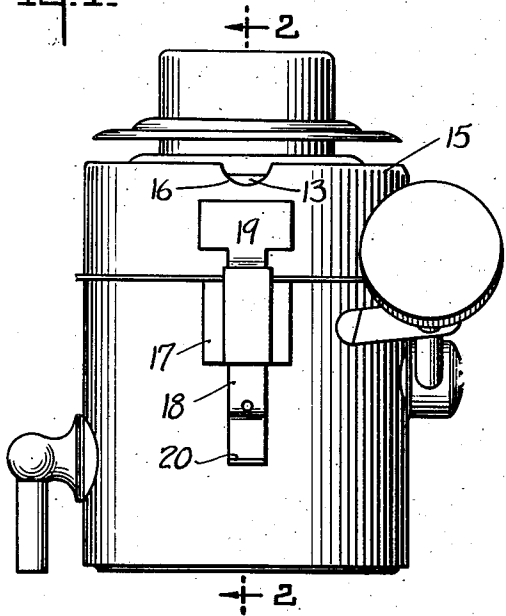


Fig. 2.

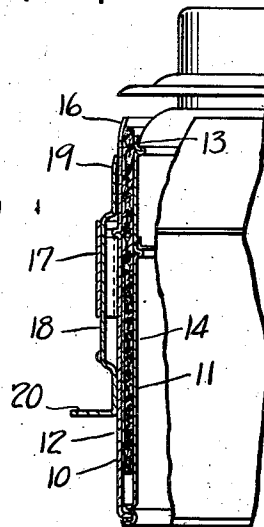
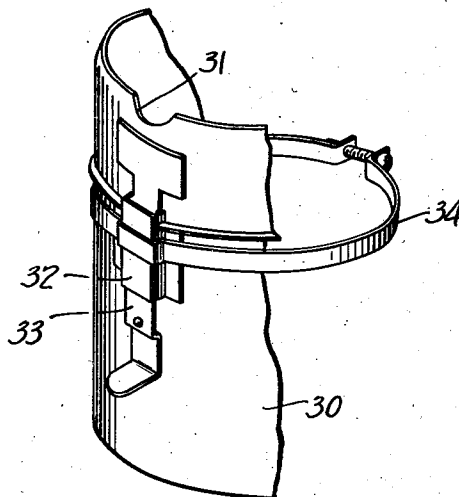


Fig. 3.



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## PILOT LIGHT FOR OIL BURNERS

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4 Claims. (Cl. 158—94)

The present invention relates to pilot lights for oil burners, and is more particularly directed toward a device effective to maintain a small pilot flame on the wick of an oil stove, so that it is unnecessary to relight the wick each time the stove is to be started into operation.

According to the present invention the wick tube is provided with a notch in its upper edge through which it is possible to expose a small portion of the periphery of the wick, when the wick is turned down or low, as to extinguish the flame on the remainder of the wick. This notch may be covered at will when the pilot light is not desired.

The accompanying drawing shows, for purposes of illustrating the present invention, two embodiments in which the invention may take form, it being understood that the drawing is illustrative of the invention rather than limiting the same.

In the drawing:

Figure 1 is an elevational view of a burner showing one form of construction;

Figure 2 is a vertical sectional view on the line 2—2 of Figure 1; and

Figure 3 is a perspective view illustrating a modification.

The wick tube 10 may be of the conventional type having an inner tube or shell 11 and an outer tube or shell 12 adapted to receive the wick 13 and the wick carrier 14. The upper edge 15 of the outer wall 12 of the wick tube is notched, as indicated at 16. A fixed guide 17 is suitably secured to the outside of the wick tube in a position below the notch 16. This guide carries a movable slider 18, the upper end 19 of which is shaped to fit the outer wall of the wick tube. The upper end of this slider is broader than the notch 16 and when the slider is in the upper position closes the notch. The lower end of the slider extends downwardly and outwardly to form a finger 20 to facilitate manipulating the slider.

In the arrangement shown in Figure 3, the

outer wall 30 of the wick tube is notched, as indicated at 31. The guide 32 for the slider 33 is secured around the wick tube by a band, indicated at 34. This arrangement is more particularly suitable for attachment to existing burners, it merely being necessary to cut the notch 31 in the material of the wick tube. This may be done by some suitable tool.

The wick 13 is preferably a wick of the type having a burning edge composed of asbestos which is not consumed by the burning of the fuel, and, hence, the wick is not impaired by the pilot light which burns opposite the notch. With this arrangement it is possible to adjust the oil stove flame in a manner analogous to a gas flame with automatic pilot.

What is claimed is:

1. In an oil stove, in combination, a wick, a wick tube having a notch in its side wall adapted to expose a portion of wick surface when the remainder of the wick surface is withdrawn into the wick tube, whereby a pilot light may be maintained, and a movable cover for the notch.

2. In an oil stove, in combination, a wick, a wick tube, having an notch in its side wall adapted to expose a portion of wick surface when the remainder of the wick surface is withdrawn into the wick tube, whereby a pilot light may be maintained, a guide carried by the wick tube below the notch and a slidable cover for the notch carried by the guide.

3. An oil stove such as claimed in claim 2, wherein the lower end of the cover is extended outwardly to form a finger grip.

4. In an oil stove, in combination, a wick tube, a vertically movable slider carried by the outside wall of the wick tube and adapted to be moved from a position where its upper edge is at the same elevation as the top of the tube to a lower position, the wick tube having a notch which is covered and uncovered by said slider.

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