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OIL BURNER FOOT

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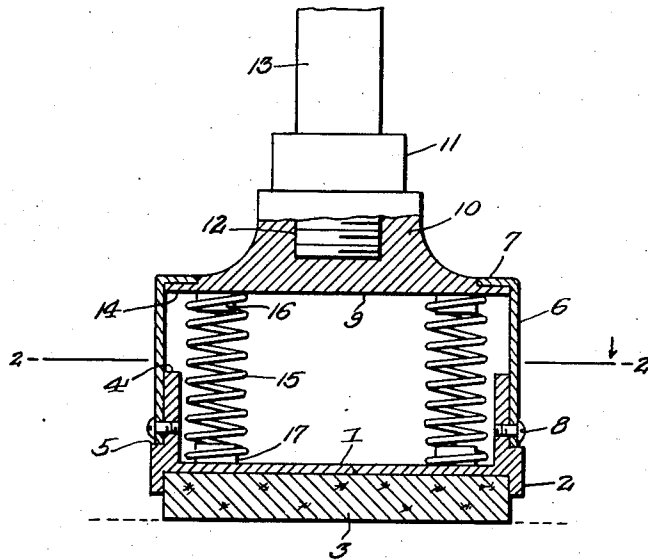


Fig. 1.

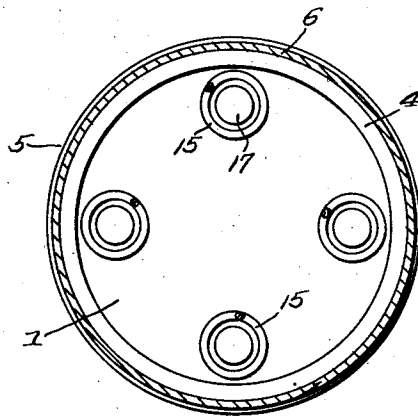


Fig. 2.

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OIL BURNER FOOT

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The present invention relates to a foot for use particularly on oil burners of the gun type and has for its primary object to provide, in a manner as hereinafter set forth, a foot of this character embodying a novel construction, combination and arrangement of parts through the medium of which practically all vibration in the burner will be absorbed, this quieting considerably the operation of said burner.

Other objects of the invention are to provide a foot of the aforementioned character for oil burners which will be simple in construction, strong, durable, efficient and reliable in use, compact, and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:—

Figure 1 is a view principally in vertical section through a foot constructed in accordance with the present invention.

Figure 2 is a view in horizontal cross section, taken substantially on the line 2—2 of Figure 1.

Referring now to the drawing in detail, it will be seen that the embodiment of the present invention which has been illustrated comprises a metallic base 1 having integral therewith a depending flange 2 in which is mounted a pad 3 of suitable material, preferably cork. The pad 3 is in the form of a flat disk.

The base 1 further includes an upstanding flange 4 which is inwardly offset relative to the depending flange 2. It will thus be seen that a horizontal shoulder 5 has been provided. Encircling the upstanding flange 4 and rising therefrom is a metallic cylinder 6 which terminates, at its upper end, in an intumed flange. The cylinder 6 rests on the shoulder 5 and is detachably secured to the flange 4 by screws 8.

Slidable vertically in the cylinder 6 is a plate 9 having rising centrally therefrom a neck 10 having a polygonal upper end por-

tion 11 providing means for engagement by a wrench. The neck 10 is internally threaded, as at 12, for threaded engagement with the lower end portion of a burner leg 13. It is understood, of course, that a foot in accordance with the present invention is mounted on each leg on the oil burner. On its upper side, the plate 9 is provided with a marginal rabbet 14 which receives the intumed flange 7 of the cylinder 6.

The plate 9 is yieldingly supported in the cylinder 6 by a plurality of compression springs 15 extending between said plate and the base 1. Lugs 16 depend from the plate 9 and are encircled by the upper end portions of the compression springs 15 and similar lugs 17 rise from the base 1 and are encircled by the lower end portions of the compression springs 15. In this manner the springs are secured in position.

In use, the plate 9 is free to move up and down in the cylinder 6 on the springs 15, thus providing a yielding support for the oil burner. The flange 7 limits the upward movement of the plate 9 under impulse by the springs 15. Further, the plate 9 is engageable on the top of the flange 4, thus limiting the downward movement of said plate.

It is believed that the many advantages of an oil burner foot constructed in accordance with the present invention will be readily understood, and although the preferred embodiment of the invention is as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:—

1. An oil burner foot comprising a base, an annular flange depending from the base, a supporting pad mounted beneath the base and encircled by the flange, an annular flange rising from the base, the upstanding flange being inwardly offset relative to the depending flange, a horizontal shoulder on the base, a cylinder encircling the upstanding flange and rising therefrom, said cylinder resting on the shoulder, means securing the cylinder to the upstanding flange, an intumed flange

at the upper end of the cylinder, a plate mounted for vertical reciprocation in the cylinder, compression springs yieldingly supporting the plate on the base, the upstanding flange being in the path of movement of the plate and engageable thereby for limiting the downward movement of said plate against tension of the springs and means for connecting the plate to the leg of the oil burner.

2. An oil burner foot comprising a base, an annular flange depending from the base, a supporting pad mounted beneath the base and encircled by the flange, an annular flange rising from the base, the upstanding flange being inwardly offset relative to the depending flange, a horizontal shoulder on the base, a cylinder encircling the upstanding flange and rising therefrom, said cylinder resting on the shoulder, means securing the cylinder to the upstanding flange, an inturned flange at the upper end of the cylinder, a plate mounted for vertical reciprocation in the cylinder, compression springs yieldingly supporting the plate on the base, and means for connecting the plate to the leg of the oil burner, said means including a centrally positioned threaded neck rising from the plate for threaded engagement with the burner leg, the upper portion of the neck being polygonal for engagement by a holding or actuating tool.

3. An oil burner foot comprising a base, an annular flange depending from the base, a supporting pad mounted beneath the base and encircled by the flange, an annular flange rising from the base, the upstanding flange being inwardly offset relative to the depending flange, a horizontal shoulder on the base, a cylinder encircling the upstanding flange and rising therefrom, said cylinder resting on the shoulder, means securing the cylinder to the upstanding flange, an inturned flange at the upper end of the cylinder, a plate mounted for vertical reciprocation in the cylinder, compression springs yieldingly supporting the plate on the base, and means for connecting the plate to the leg of the oil burner, said means including a centrally positioned, threaded neck rising from the plate for threaded engagement with the burner leg, the upper portion of the neck being polygonal for engagement by a holding or actuating tool, the plate having a marginal rabbet in its upper side for the reception of the third named flange, the downward and upward movement of the plate being limited by the first and third named flanges.

In testimony whereof I affix my signature.
WALTER E. HOLT.