April 14, 1936. M. L. HUNKER 2,037,386

LOCK LEG FOR STOVES

Filed Oct. 31, 1934

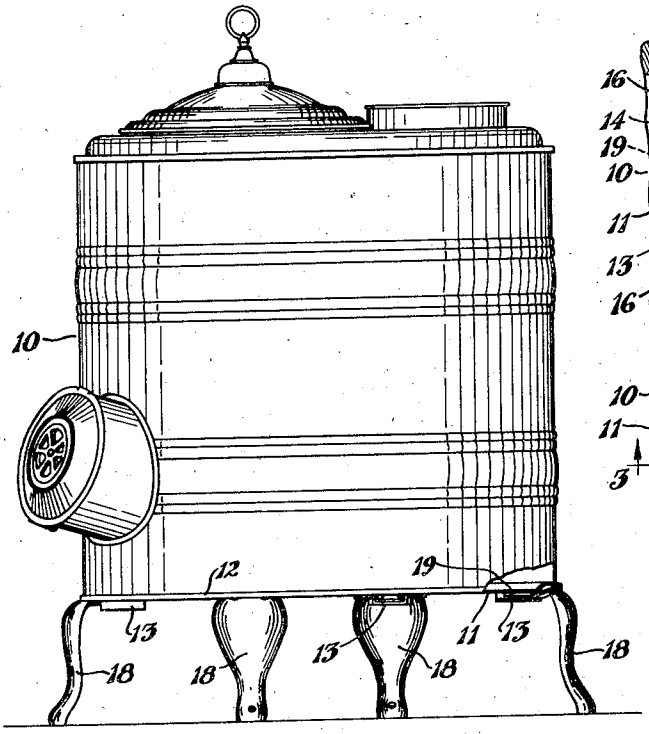


Fig. 1

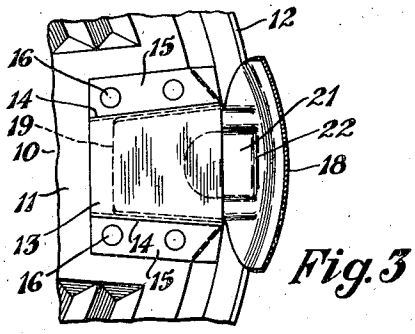


Fig. 3

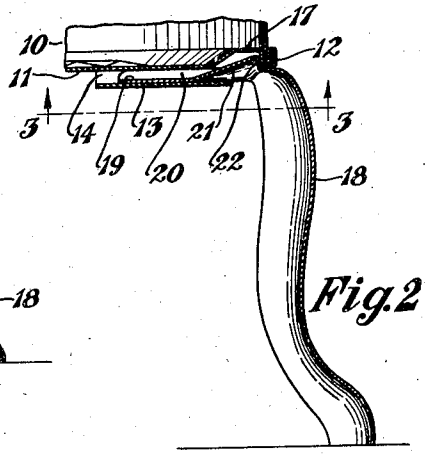


Fig. 2

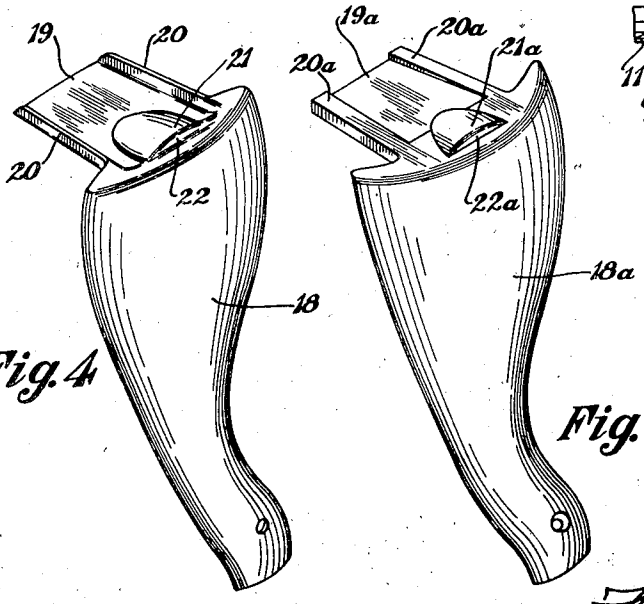


Fig. 4

Fig. 5

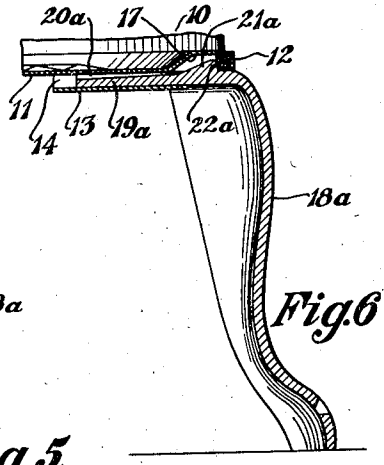


Fig. 6

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LOCK LEG FOR STOVES

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Application October 31, 1934, Serial No. 750,848

2 Claims. (Cl. 126—304)

The invention relates to stove legs and particularly to a removable leg adapted to be automatically locked when it is placed in position upon the stove.

An object of the invention is to provide a stove leg having a tongue arranged to be received in a keeper or box on the underside of the stove and having an upwardly disposed lug adapted to be received against the inside of a depending chime on the stove to prevent accidental displacement of the leg.

The above, together with other objects which will be apparent from the accompanying drawing and following description, or which may be later pointed out in detail, may be accomplished by constructing the improved stove leg lock in the manner illustrated in the accompanying drawing, in which

Figure 1 is an elevation of a sheet metal heating stove showing the improved lock legs attached thereto, a portion of the stove adjacent to one leg being shown in section for the purpose of illustration;

Fig. 2, an enlarged vertical sectional view of a stamped or pressed metal leg showing the manner of attaching the same to the lower portion of a stove;

Fig. 3, a bottom plan section taken as on the line 3—3, Fig. 2;

Fig. 4, a detail perspective view of the stamped or pressed metal leg embodying the invention;

Fig. 5, a similar view of a cast metal leg embodying the invention; and

Fig. 6, a sectional view similar to Fig. 2 showing a cast metal leg embodying the invention attached to the lower portion of a stove.

Similar numerals refer to similar parts throughout the drawing.

The improved leg lock is applicable to any kind of a stove but is illustrated in the accompanying drawing as applied to a sheet iron heating stove, to which it is especially adapted. Such a stove is indicated generally at 10, provided with the bottom wall 11 and the depending chime 12 formed at the point where the side wall is seamed to the bottom wall.

A keeper or box 13 is secured to the underside of the stove bottom wall 11 at the point where each leg is to be attached. This keeper may be of sheet metal and is preferably tapered, as best shown in Fig. 3, being bent upward on each side as at 14, forming a tapered box to receive the tongue upon the leg, as will be later described. Outturned flanges 15 are provided at each side of the keeper or box for attaching the same to the bottom wall of the stove as by rivets 16. As best shown in Figs. 2 and 6, the bottom wall 11 may be peripherally recessed as at 17 adjacent to the depending chime 12.

The stove leg may be of stamped or pressed metal as indicated generally at 18 in Figs. 1, 2, 3 and 4 or may be of cast metal as shown at 18a in Figs. 5 and 6. Referring first to the stamped or pressed metal leg, the same is provided at its upper end with the angular tapered tongue 19 of substantially the size and shape of the box or keeper 13 and having the upturned flanges 20 at its side edges of a height so as to cause the tongue to fit snugly within the box or keeper 13.

A lug 21 is stamped or pressed upwardly from the tongue at a point adjacent to the upper end of the leg, this lug being tapered toward the inner end of the tongue and having the substantially flat shoulder 22 at its outer end.

To attach the leg to the stove the tongue 19 is inserted into the box or keeper 13 and pushed inward until the tapered upper surface 21 of the lug rides under the depending peripheral chime 12 of the stove and snaps into position inside of said chime, as best shown in Fig. 2, the lug being received within the peripheral recess 17 in the stove bottom, the flat outer shoulder 22 of the lug abutting against the inside of the chime 12 and holding the leg in locked position.

It will be seen that there is sufficient flexibility to the sheet metal bottom wall 11 of the stove to permit the lug upon the tongue of the stove leg to pass below the chime 12 and snap into place as above described.

As shown in Figs. 5 and 6, the invention may be carried out in a cast metal leg having the same general form and operating in the same manner as the stamped or pressed metal leg above described. The cast metal leg 18a is provided at its upper end with the inturned angular preferably tapered tongue 19a which may be provided at its side edges with the upwardly disposed ribs 20a. The lug 21a may be provided on the tongue adjacent to the upper end of the leg and tapered inward as shown and terminating at its outer end in the substantially flat shoulder 22a.

The tongue 19a is adapted to be inserted into the box or keeper 13, the tapered upper surface of the lug 21a riding under the depending peripheral chime 12 of the stove and being received in the peripheral recess 17 of the bottom wall of the stove, the flat outer shoulder 22a of the lug abutting against the inner side of the chime 12 to hold the leg in locked position, as shown in Fig. 6.

From the above it will be seen that whether the leg is made of stamped or pressed metal or of cast metal, it provides a simple and inexpensive means for effectively locking the leg in position upon the stove without danger of accidental displacement of the leg.

In order to remove the leg, the lower end thereof may be pushed slightly inward, flexing the sheet metal bottom wall of the stove sufficiently to permit the lug 21 or 21a to clear the lower edge of the peripheral chime 12 so that the tongue may be withdrawn from the box or keeper.

I claim:

1. The combination with a sheet metal stove having a depending chime at its lower end and a flexible bottom wall recessed peripherally adjacent to said depending chime, a keeper on the underside of said bottom wall adjacent to the recessed portion thereof, said keeper forming a depending box spaced from said chime, a leg having a tongue adapted to be inserted into said box, and a rigid lug tapered toward its inner end on the upper side of said tongue adapted to be received in said recessed portion of the bottom wall between the inner side of said chime and said box, said lug having a shoulder at its outer end adapted to abut said chime, said flexible bottom wall permitting the lug to snap into place under said chime.

2. The combination with a sheet metal stove having a depending chime at its lower end and a flexible bottom wall located substantially in the same horizontal plane as the lower edge of said chime and recessed peripherally adjacent to said depending chime, a keeper on the underside of said bottom wall adjacent to the recessed portion thereof, said keeper forming a depending tapered box spaced from said chime, a leg having a tapered tongue adapted to be inserted into said box, and a rigid integral lug tapered toward its inner end on the upper side of said tongue adapted to be received in said recessed portion of the bottom wall between the inner side of said chime and said box, said lug having a shoulder at its outer end adapted to abut said chime, said flexible bottom wall permitting the lug to snap into place under said chime.

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