

July 13, 1926.

W. C. PADGETT

1,592,499

LADDER FOOT

Filed March 24, 1926

Fig. 1.

Fig. 2.

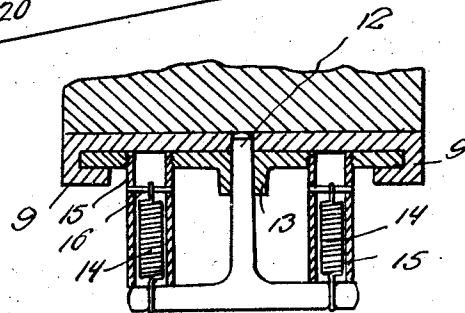
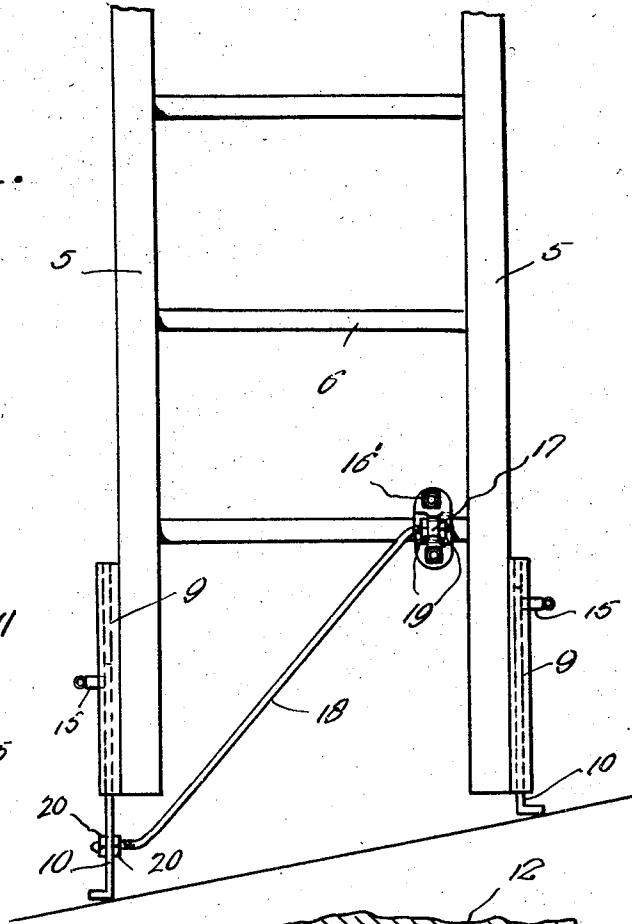
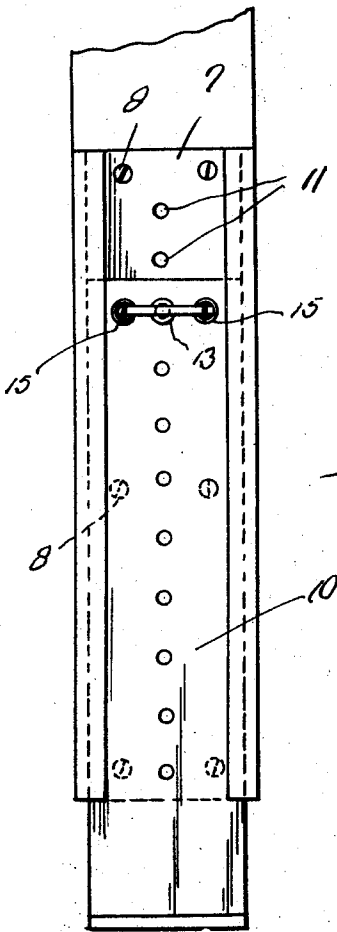


Fig. 3.

Inventor
W. C. Padgett.

By *Clarence A. O'Brien*
Attorney

Patented July 13, 1926.

1,592,499

UNITED STATES PATENT OFFICE.

WILLIAM C. PADGETT, OF HOPATCONG BOROUGH, NEW JERSEY.

LADDER FOOT.

Application filed March 24, 1926. Serial No. 97,059.

This invention relates to ladder feet and has for its primary object to provide a device of this character which embodies novel features of construction whereby the legs of the ladder may be lengthened in order to compensate for uneven surfaces upon which the ladder is desired to be placed, and whereby the ladder will be positively and effectively held in an upright position and prevented from sliding or falling when placed upon the most uneven surfaces.

A further object of the invention is to provide a ladder foot construction that is adapted for association with practically all forms of ladders and that when so applied will not be likely to become detached therefrom.

Other objects will become apparent as the nature of the invention is better understood the same comprising the novel form, combination, and arrangement of parts hereinafter more fully described, shown in the accompanying drawing, and claimed.

In the drawing, wherein like reference characters indicate corresponding parts throughout the several views:

Figure 1 is a fragmentary front elevation of a ladder of conventional construction, the legs of which are equipped with my improved extension feet.

Figure 2 is an enlarged side elevation of one of the legs with which is attached a foot constructed in accordance with the present invention, and

Figure 3 is an enlarged transverse section therethrough for more clearly disclosing the construction of the foot.

Now having particular reference to the drawing, the ladder more clearly disclosed in Figure 1 comprises a pair of spaced legs 5—5 that are interconnected by the usual spaced rungs 6. In carrying out my present invention I connect to the outer lower side of each leg 5 a foot that is constructed in accordance with this invention and a description of one will suffice for both. The foot constitutes the provision of a relatively elongated strip of material preferably pressed steel or other serviceable material 7 that is of a width equivalent to the width of the ladder legs and that is formed throughout its length with screw holes in order that the same may be secured to the ladder legs through the medium of screws or the like 8. The longitudinal edges of the strip 7 are so bent as to provide channels

9—9 within which are guided the opposite edges of an extension plate 10, the lower end of which is bent outwardly at right angles for providing a supporting foot.

Extending throughout substantially the entire length of the plate 7 are spaced openings 11 arranged centrally of the plate for receiving the inner end of a spring controlled pin 12 that is slidably arranged at its inner end through a bossed opening 13 in the extension plate 10 adjacent the upper end thereof.

This pin 12 is of T-shape as shown in Figure 3, and the opposite ends of the outer arm thereof are connected to certain ends of retractile coil springs 14—14 that are mounted within protecting sleeves 15—15, the inner ends of which are threaded within openings in the extension plate 10 at opposite sides of the opening 13 in said extension plate, while the inner end of said springs are anchored to cross pins 16—16 in the sleeves, as clearly shown in Figure 3.

It will thus be understood that by pulling outwardly upon the pin 12, the inner end of the same will be disengaged from the openings 11 in the plate 7 thus permitting the sliding of the extension plate 10 within the channels of said attached plate and after the desired extension of the foot has been secured, the pin upon release will engage within the proper opening 11.

For bracing the extension plate 10 of the particular foot being used, there is provided a two part clamp 16' that is adapted to be secured to the lower rung of the ladder at the end opposite the extended foot as clearly shown in Figure 1. One member of said clamp is provided with a lateral ear 17 that is formed with an opening through which is arranged an angularly bent and threaded end of a brace rod 18 which end is secured within the opening of the ear through reason of lock nuts 19. This brace rod extends downwardly and outwardly beneath the side bar of the ladder to which is attached the extended foot and at said lower edge is also bent laterally outwardly for engagement through one of the openings in the extension plate to be there secured by lock nuts 20. Obviously when the other foot is extended, the clamp 17 is reversed and arranged upon the opposite end of the lowermost rung.

It will thus be seen that I have provided a highly novel, simple, and efficient form of extension foot for ladders that is well adapt-

ed for all the purposes heretofore designated, and even though I have herein shown and described the most practical embodiment of the invention with which I am at this time familiar, it is nevertheless to be understood that minor changes may be made therein without affecting the spirit and scope of the appended claims.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a foot for ladders, a relatively elongated metallic plate adapted for attachment to a ladder leg, the opposite edges of the plate being so bent as to provide longitudinal channels, an extension plate slidable within the channels of the first mentioned plate, a T-shaped pin slidable within an opening in the extension plate and adapted for engagement within openings of the first mentioned plate, sleeves secured to the extension plate at opposite sides of the pin and retractile coil springs secured within the sleeves and to the arms of the pin for normally maintaining the same within the openings of the plates.

2. In a foot for ladders, a relatively elongated metallic plate adapted for attachment to a ladder leg, the side edges of the

plate being bent back upon themselves to provide longitudinal channels, said plate having a series of vertically spaced openings formed therein, an extension plate slidable within the longitudinal channels of the aforementioned plate, the lower end of said extension plate being bent laterally to provide a ground engaging foot, a substantially T-shaped locking pin having its leg portion slidable within an opening in the extension plate and adapted for engagement within one of the openings of the first mentioned plate, a pair of sleeves secured to the extension plate on opposite sides of said pin, the outer ends of said sleeves being disposed adjacent the outer ends of the arms of said T-shaped locking pin, a cross pin secured in each sleeve adjacent the inner end thereof, and a retractile coil spring arranged within each sleeve, the inner ends of said springs being secured to the respective cross pins, the outer ends of the springs being secured to the outer ends of the arms of the T-shaped locking pin whereby said T-shaped locking pin secures the slidable extension plate in any vertically adjusted position.

In testimony whereof I affix my signature.

WILLIAM C. PADGETT.