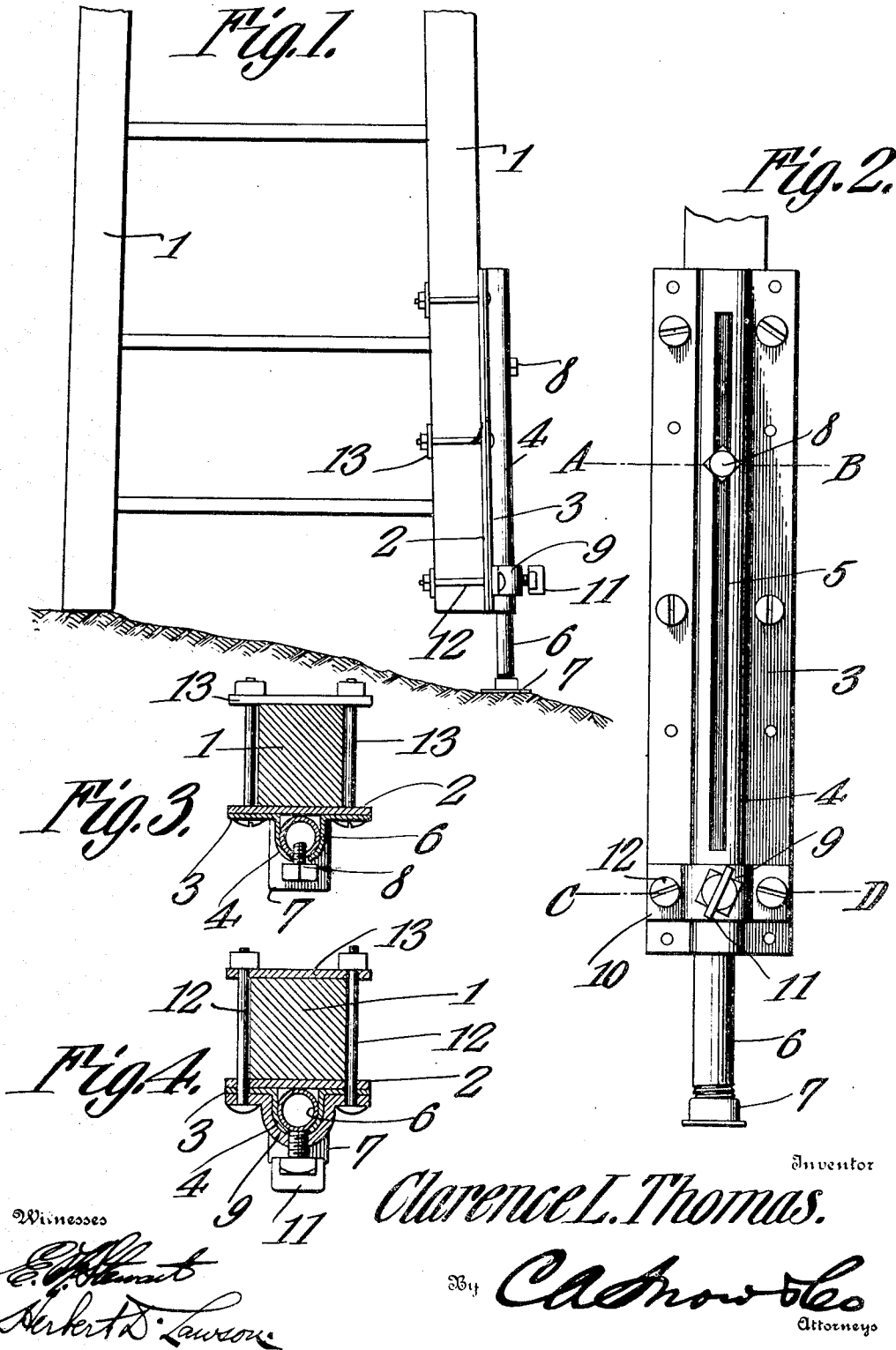


No. 891,965.

PATENTED JUNE 30, 1908.

C. L. THOMAS.
ATTACHMENT FOR LADDERS.
APPLICATION FILED MAR. 8, 1908.



UNITED STATES PATENT OFFICE.

CLARENCE L. THOMAS, OF OGDEN, IOWA.

ATTACHMENT FOR LADDERS.

No. 891,965.

Specification of Letters Patent.

Patented June 30, 1908.

Application filed March 6, 1908. Serial No. 419,579.

To all whom it may concern:

Be it known that I, CLARENCE L. THOMAS, a citizen of the United States, residing at Ogden, in the county of Boone and State of Iowa, have invented a new and useful Attachment for Ladders, of which the following is a specification.

This invention relates to attachments for ladders and it is more particularly an extension foot designed to be placed upon one of the side rails of a ladder whereby the ladder can be supported in an upright position upon an inclined or an uneven surface.

A further object is to provide an attachment of this character which can be secured to the ladder without the necessity of perforating or otherwise weakening the side rail to which it is attached.

Another object is to provide simple and efficient means for securing the foot in adjusted position so as to properly support the weight to which the ladder is subjected.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts which will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings: Figure 1 is a front elevation of a portion of the ladder and showing the attachment applied thereto. Fig. 2 is an enlarged face view of the attachment. Fig. 3 is a section on line A—B, Fig. 2. Fig. 4 is a section on line C—D, Fig. 2.

Referring to the figures by characters of reference, 1 designates a ladder to one of the side rails of which an attachment embodying the present improvements is designed to be secured.

This attachment consists of an elongated base plate 2 upon which is arranged a retaining plate 3 which is secured thereto by rivets or in any other preferred manner and formed longitudinally along the center of this plate is an outwardly extending substantially semicylindrical keeper 4 slotted longitudinally as indicated at 5 and designed to receive a slide 6 in the form of a tube or rod. This slide has a foot 7 screwed or otherwise fastened upon its outer end and extending through the slot 5 and into the slide 6 is a set screw 8 the head of which is so proportioned as to bind upon opposite edges of the slot should it be desired to utilize this bolt for assisting in securing the slide in ad-

justed position. A yoke 9 straddles one end portion of the keeper 4 and has ears 10 which rest upon the plate 3. A wing screw 11 is mounted within the middle portion of this strip and extends through the keeper into contact with slide 6. This screw is designed to bind upon the slide 6 with sufficient pressure to prevent longitudinal movement thereof relative to the keeper. Bolts 12 extend through the plates 2 and 3 adjacent their longitudinal edges and one pair of these bolts extends through the ears 10. The bolts of each pair are spaced apart a distance equal to the thickness of the side strip 1 as indicated in Figs. 3 and 4 and are designed to be fastened within cross strips 13 which are arranged upon the inner face of the side strip 1 as indicated in Fig. 1.

It will be apparent from the foregoing description that when the bolts 12 are properly secured they will hold the attachment firmly upon one of the side rails without the necessity of perforating the side rail or otherwise weakening it. After the attachment has been secured in the manner described the screws 8 and 11 are loosened and slide 6 is adjusted so as to bring the foot 7 at a desired distance beyond the lower end of the side rail of the ladder. Said slide is then secured by turning the screw 11 thereagainst and if additional securing means are deemed desirable the screw 8 is turned inwardly so that its head will bind upon the keeper 4. Said keeper will therefore be tightly clamped between the slide 6 and the head of the screw 8. It will be seen that the bolts 12 of the lower pair serve not only to hold the attachment upon the side rail but also bind the yoke 9 upon the plate 3. It will be apparent therefore that when the attachment is packed for the purposes of storing or shipping it the yoke 9 can be removed from the keeper 4 and the device therefore packed within a smaller compass than otherwise. By providing a foot which is detachably connected to the slide it is possible to remove the same and substitute a foot of a different form which might be better adapted for use under certain conditions.

What is claimed is:

1. The combination with a side rail of a ladder; of an attachment thereon comprising a base plate, fastening means engaging said plate and embracing the rail, a longitudinally slotted keeper disposed longitudinally upon the base plate, a slide mounted within the

keeper and extending beyond the base plate, a yoke straddling the keeper and engaged and retained by said securing means, means within the yoke for engaging the slide to hold
5 it in adjusted position, and securing means movably engaging the slide and within the slide for engaging the walls of said slot.

2. An extension attachment for ladders comprising a base plate, a retaining device
10 extending longitudinally thereon, said device having a longitudinal slot, a yoke straddling the retaining device, securing bolts extending through the yoke and base plate, a cross strip for engagement thereby, a tubular slide
15 mounted within the retaining device and

projecting therebeyond, means within the yoke for binding upon the slide to hold it against longitudinal movement, securing means within the slot and carried by the slide for engagement with the walls of the
20 slot, and a foot detachably connected to one end of the slide.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CLARENCE L. THOMAS.

Witnesses:

C. HELDT, Jr.,

F. M. LOREMON.