W. M. SHAW.

SCALING DEVICE.

APPLICATION FILED JUNE 10, 1907.

917,805. Patented Apr. 13, 1909.

3 SHEETS—SHEET 1.

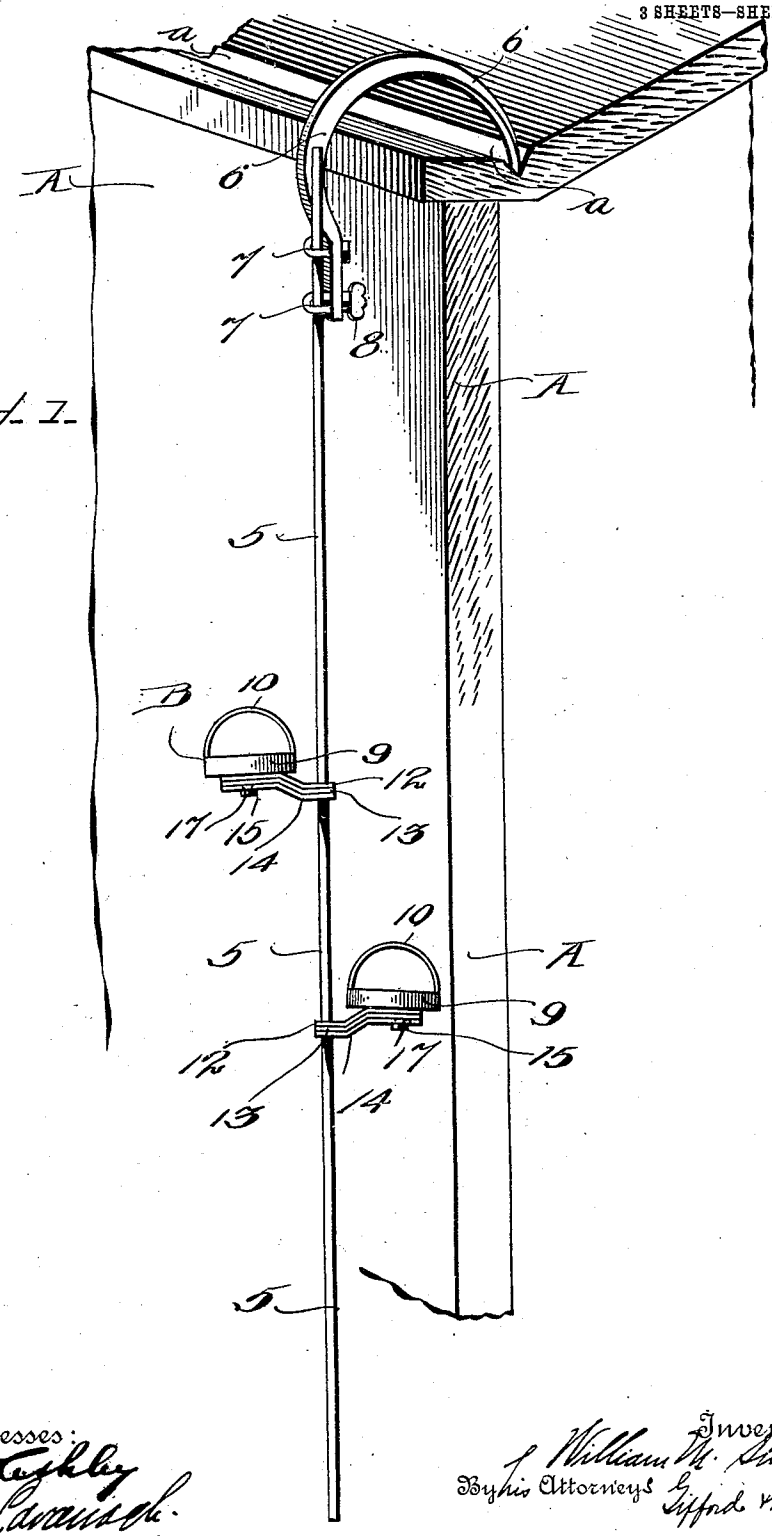


Fig. 1.

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R. B. Cannisch.

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3 SHEETS—SHEET 2.

Fig. 2.

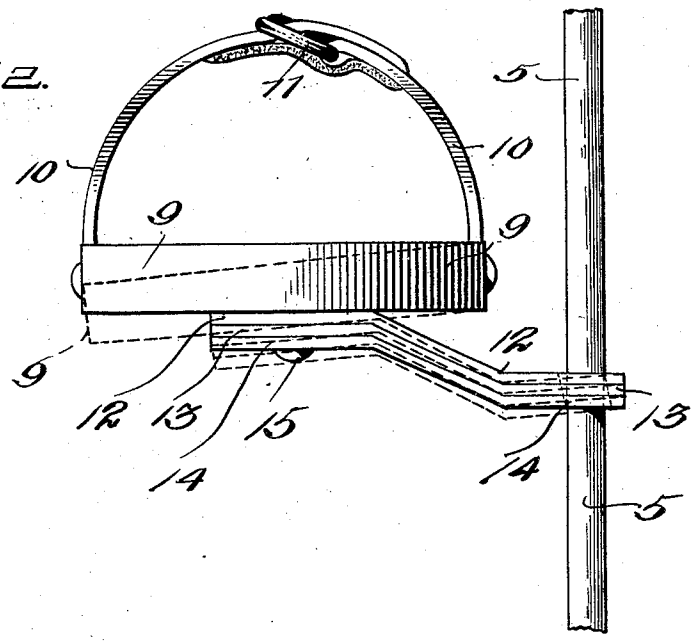
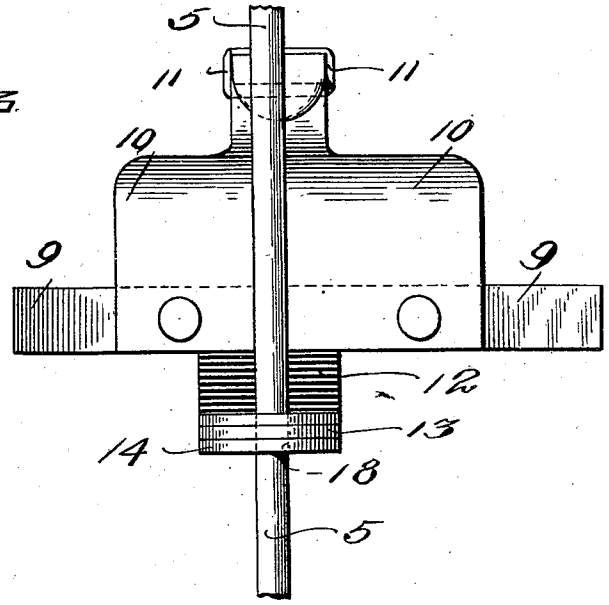


Fig. 3.



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3 SHEETS—SHEET 3.

Fig. 4.

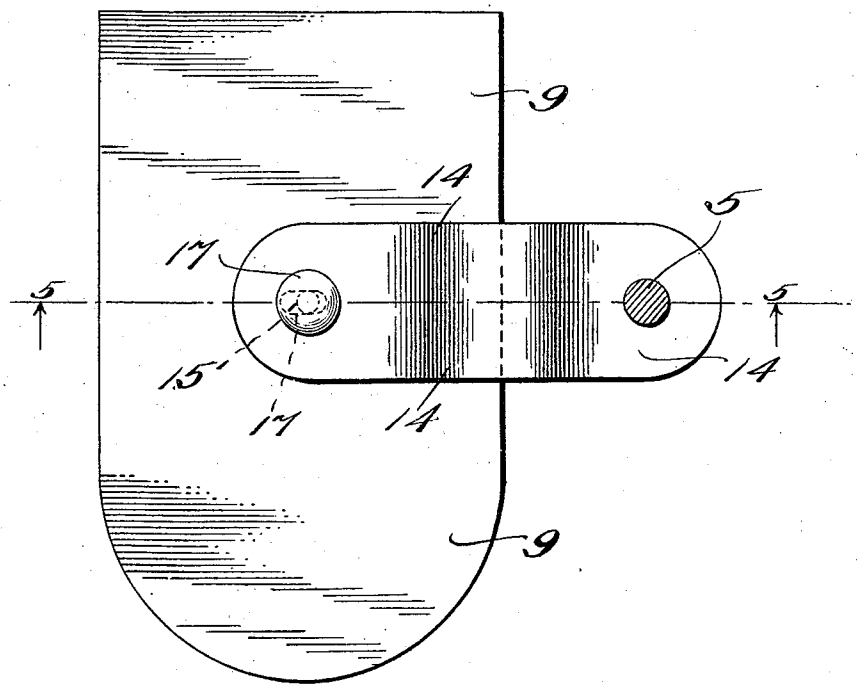
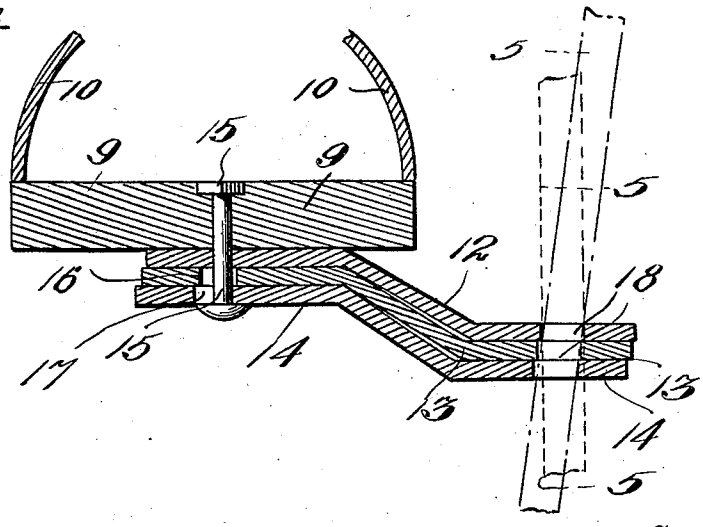


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM M. SHAW, OF GREENVILLE, MAINE.

SCALING DEVICE.

No. 917,805. Specification of Letters Patent. Patented April 13, 1909.

Application filed June 10, 1907. Serial No. 378,142.

To all whom it may concern:

Be it known that I, WILLIAM M. SHAW, a citizen of the United States, and a resident of Greenville, in the county of Piscataquis and State of Maine, have invented certain new and useful Improvements in Scaling Devices, of which the following is a specification.

The present invention relates to scaling devices and has particular application to an invention adapted especially for scaling buildings, such as barns, houses and the like.

The invention possesses the further advantage that it is especially useful to painters and other artisans whose calling constantly requires that they climb or scale buildings in the act of constructing or repairing the same.

A further advantage that my invention possesses is that it may be employed as a fire escape.

To provide an invention useful in the manner indicated it is my object to so construct this scaling device that it will possess the advantageous and desired features of simplicity, durability and cheapness, and one that may be readily installed in position for use and removed after such use. Furthermore, it is my purpose to provide a device which may be attached to a building, wall, or the like.

The invention consists in the construction, combination and arrangement of parts set forth in and falling within the scope of the appended claims.

In the accompanying drawings wherein I have shown, by way of illustration, a preferred embodiment of my invention, Figure 1 shows my scaling device applied to a building and showing one manner in which it may be installed; Fig. 2 is a view in side elevation of a portion of the scaling rod and the form of stirrup used in connection with the same; Fig. 3 is an end view of the same; Fig. 4 is a bottom view of the stirrup; Fig. 5 is a sectional view of the same and illustrating the manner of frictionally engaging the scaling rod.

Referring now to the accompanying drawings in detail, the numeral 5 designates a rod, bar, or the like, made of any suitable material such as metal, and preferably provided with an engaging hook, 6, adapted to engage with a wall, building or other structure. In the present instance, the hook which is shown as engaging with the gutter *a* of the building A, is adjustably secured to the rod by having two loops 7, 7 fitting over the rod and by having the set screw 8 adapted to maintain the hook in the desired position relative to the rod, such hook being moved up and down the rod and held in an adjustable position by loosening and tightening the screw.

The climbing devices for the rod comprise stirrups, preferably a number thereof, each indicated as an entirety by the letter B, and such stirrups are shown clearly in detail in Figs. 2 to 5, inclusive. Each stirrup preferably comprises a foot plate 9, and the instep strap 10, the latter being of any desired character and preferably provided with an adjusting buckle 11 by means of which the strap over the instep may be adjusted to the desired size.

To the sole plate of the stirrup I secure a number of clamping plates. These plates are preferably three in number and in the drawings I have indicated them at 12, 13, and 14, respectively, 12 being the top plate or that nearest the stirrup, 13 the intermediate plate, and 14 the lowermost plate. These three plates are secured to the sole plate of the stirrup in any suitable manner such as by the bolt 15, the top plate 12 being preferably rigid with the sole plate of the stirrup, while the plates 13 and 14 are provided with apertures 16 and 17, respectively, which allow such plates a certain amount of play. Each of these plates is preferably formed as shown in the drawings, that is to say, with horizontal end portions, and intermediate, inclined portions, the free horizontal end portions of each plate being formed with an opening 18 permitting the passage of the scaling rod 5, the openings being of sufficient size to permit the stirrup to be moved freely along the same by the climber.

From the above description in connection with the accompanying drawing the manner of employing the invention and the construction thereof will be readily understood. In employing the device as a scaling ladder the hook is first secured to a suitable point, such as the roof of a building or any other part, and the climber places his feet in the stirrups. The rod may then be easily scaled by progressively elevating or sliding the stirrups along the rod, by the same movement that is entailed in walking up stairs. As the climber draws the stirrup up the openings 18 for the passage of the rod all fall in alinement and the plates may easily slide on the rod, but when the operator rests the weight upon the stirrup, while lifting the other leg, the

weight of the climber tends to bind the plates into frictional engagement with the scaling rod and the climber is supported as securely as though the stirrup were formed rigid with the rod. The climber may descend the rod with the aid of the stirrups in the same manner as employed in climbing.

While I have herein shown and described a preferred embodiment of my invention, it will, of course, be understood that I do not confine myself to the precise details of construction set forth, as there may be modification and variation without departing from the spirit of the invention or the scope of the claims. For instance, any means may be employed for holding the scaling rod which may be of any suitable shape, and the stirrup may also be modified to suit the requirements. By permitting play of the lower plates of the stirrup, in case one should fail to hold, the other will do so. It is further to be understood that there may be any suitable number of plates, and even one would suffice in certain instances, although in practice I prefer to employ three as constructed and arranged as herein set forth.

Having thus described my invention, what I claim is:

1. A device of the class described, comprising a rod member to be scaled, and means for scaling said member comprising a stirrup at one side of said member, and a plate extending from one side of the stirrup provided with an opening for the passage of said member, the edges of the plate around said opening being adapted to be brought into locking engagement with each side of said member.

2. The combination with a supporting rod member of means for scaling said member comprising a stirrup at one side of said member and a plate provided with an opening for the passage of said member, said plate extending from one side of the stirrup and being adapted to be movable on said member when substantially horizontal, and to be in locking engagement with each side of said member when in a tilted position.

3. The combination with a supporting rod member, of means for scaling said member comprising a stirrup at one side of said member and a plate extending from one side of the stirrup and provided with an opening for the passage of said member and adapted to permit of movement of the supporting member through the opening when in a substantially vertical position and to prevent such movement of the member when in an inclined or tilted position.

4. The combination with a scaling rod, of a climbing stirrup for said rod, such stirrup comprising a foot rest, a plate secured to said rest, a second plate provided with a slot, a bolt passing through said slot and adapted to secure said second plate to the rest, both of said plates having openings therein to permit of the passage of the rod.

5. The combination with a scaling rod, of a foot rest, a plurality of plates connecting the foot rest with the scaling rod, each of said plates having a perforation at one end through which the scaling rod passes, one of said plates being secured in a fixed position at its other end to the foot rest, and the remaining plates being secured at the other end to the foot rest in such a manner that each of them is capable of a horizontal movement relative to the foot rest, whereby a downward movement of the foot rest causes each plate separately to move into locking engagement with the scaling rod.

6. The combination with a scaling rod, of a foot rest, a plurality of plates connecting the foot rest with the scaling rod, each of said plates having a perforation at one end through which the scaling rod passes and so secured at the other end to the foot rest that each plate, except the one immediately adjacent the foot rest, is capable of a horizontal movement relative to the foot rest, whereby a downward movement of the foot rest causes each plate separately to move into locking engagement with the scaling rod.

7. The combination of a scaling rod, means for securing the same to the object to be scaled, and a plurality of climbing stirrups for said rod, each stirrup comprising a foot rest, foot stirrups for the same and a plurality of plates, certain of which are loosely connected to the foot rest, each of said plates having an opening through which the scaling rod passes, the plates being movable into locking engagement with the rod when the weight of the operator is placed upon the foot rest.

In testimony whereof I have hereunto signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM M. SHAW.

Witnesses:
E. G. JUDKINS,
H. M. MILLETT.