

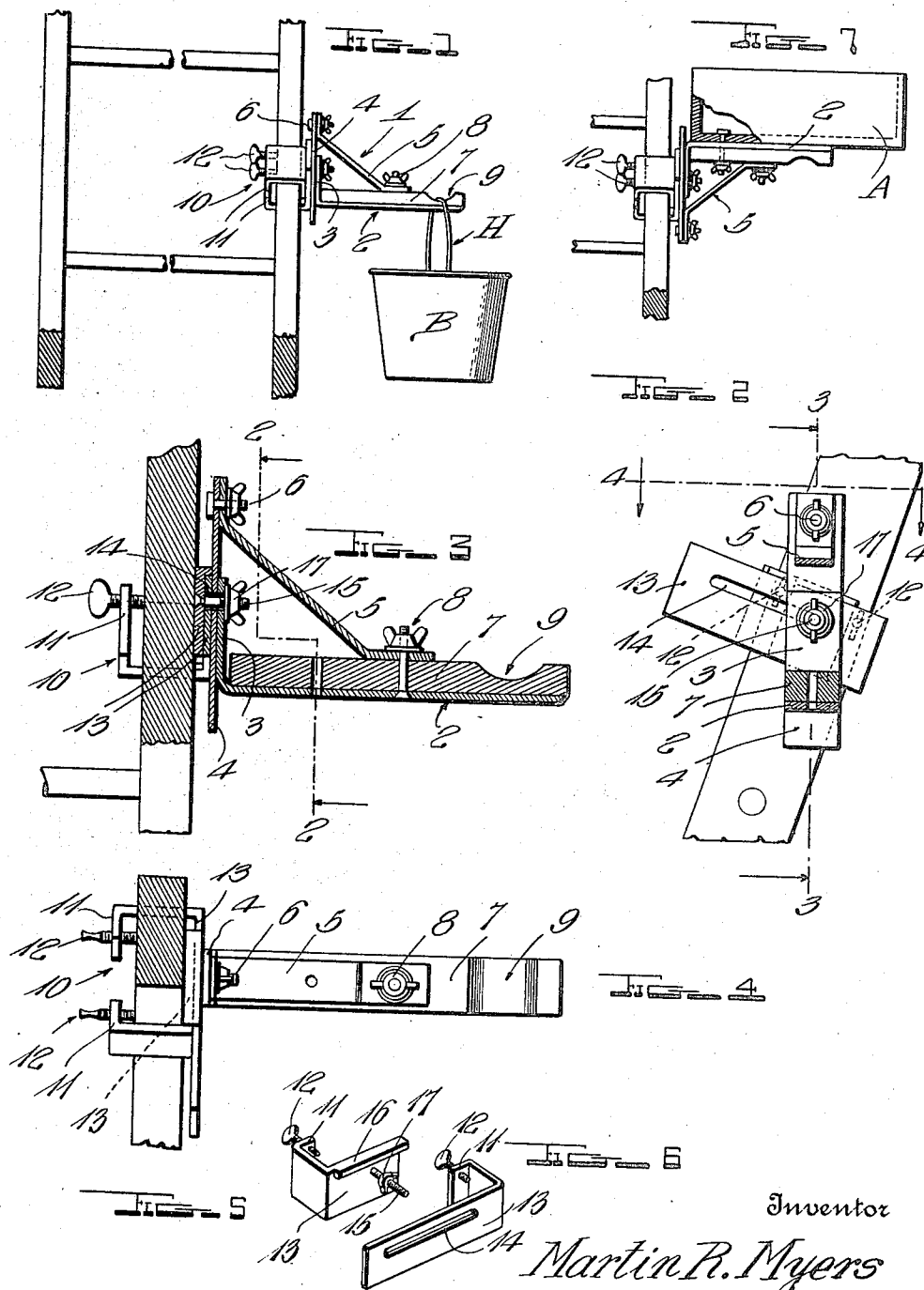
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BUCKET SUPPORT

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BUCKET SUPPORT.

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To all whom it may concern:

Be it known that I, MARTIN R. MYERS, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Bucket Supports; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improved bucket support which is especially designed for use by painters for supporting the pail or bucket containing the paint from one of the stiles of a ladder, the device, of course, being adaptable for use by persons other than painters who require the use of a bucket and ladder.

The principal object of the invention is to provide a support of this class which is in the form of a bracket connected to the ladder stile in such a way that the bracket is capable of being positioned to act as a hanger for a bucket or is capable of being inverted for supporting a box or other article container.

Another object of the invention is to provide a support of this class wherein the hanger or bracket can be disposed to maintain the bucket horizontal at all times regardless of the inclination of the ladder.

It is also another object of the invention to provide a device of this class which embodies in addition to the bracket, novel clamping means for adjustably connecting it with the ladder stile, the means for holding the jaws or parts of the clamp in engagement with the ladder constituting a pivot and binding device for the bracket and serving to hold the latter in either of the aforesaid positions.

A further and very important object of the invention is to generally improve upon supports of this class by providing one of extreme simplicity and durability which is composed of a clamping device which is easily and readily adjustable and easy to attach and detach, together with a simple form of bracket, which construction is reliable, practical and inexpensive to both the manufacturer and the user.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming

a part of this specification and in which like numerals are employed to designate like parts throughout the same:

Figure 1 is a front elevational view of a portion of a ladder showing my improved bucket supporting device arranged thereon.

Figure 2 is a sectional view taken substantially on the plane of the line 2—2 of Fig. 3.

Figure 3 is a sectional view taken on the line 3—3 of Fig. 2.

Figure 4 is a section taken on the line 4—4 of Fig. 2.

Figures 5 and 6 are perspective views of the clamping jaws.

Figure 7 is a view like Fig. 1 showing the bucket supporting bracket reversed to permit a box to be connected therewith.

Broadly speaking, the improved bucket supporting device comprises a bracket having a horizontal arm formed at its outer end with means with which the handle of a bucket is engaged. When the bracket is so used, it can be conveniently referred to as a hanger. However, as before indicated, the bracket is capable of being inverted so that it can be used for supporting a box in which the bucket or other articles can be placed. Means is employed for adjustably connecting this bracket with one of the stiles of a ladder, and the means which serves as a pivot and binding device for the bracket also serves to hold the jaws of the clamping device in set position.

Referring to the drawings in detail, it will be seen that the above referred to bracket is generally indicated by the numeral 1, the same embodying a horizontal metal arm 2 bent laterally upward as indicated at 3 and connected with a reinforcing strip 4. The upbent end of this arm 2 and the reinforcing strip 4 are both formed with aligned holes which serve a purpose to be hereinafter set forth, and a diagonal reinforcing brace 5 is employed for insuring rigidity of construction, this brace being detachably connected at its upper end with the strip 4 as indicated at 6.

A strip of wood 7 is secured to the horizontally disposed upper face of the arm 2 in any suitable way and the lower end of the brace is connected thereto as indicated at 8. Adjacent its outer end and in its upper face, this wooden strip 7 is formed with a notch 9 which is adapted to receive the handle H of a paint bucket B. For the purpose of

connecting the bracket with the ladder, I make use of a novel clamp which is generally designated by the numeral 10. By referring to the detailed views shown in Figs. 5 and 6, it will be seen that this clamp is composed of a pair of jaws having laterally bent ends 11 to extend partially across the inner sides of the ladder stile. Set-screws 12 are passed through these laterally bent ends and engage the inner side of said stile for holding the clamp in various adjusted positions. The opposite ends of the jaws are bent parallel with respect to these bent ends 11 as indicated at 13 and these parts are arranged in slidable overlapping relation and one of them is formed with an elongated slot 14 while the other carries a screw 15 which extends through and is slidable in this slot. The last named part is also equipped with a laterally bent stop flange 16 which engages the upper end of the corresponding part to prevent relative pivotal movement of the jaws. By carefully examining Fig. 3, it will be seen that this screw 15 is sufficiently long to permit it to extend through the aforesaid alined holes in the parts 3 and 4 of the aforesaid bracket and it will also be seen that a wing-nut 17 is arranged on the free end of this screw to hold the jaws of the clamping device in set position and to simultaneously hold the pivoted bracket in the position to which it has been moved. It will thus be seen that the screw not only constitutes a portion of the binding means but also forms a pivot for said bracket.

It is not always desired to permit the bracket to act as a hanger for a paint bucket, but it is sometimes desired to swing the same on its pivot to invert it as indicated in Fig. 7 whereby a box A can be connected therewith for supporting articles in a convenient position to be used by the person occupying the ladder.

In use, the jaws of the clamp are connected with the stile of a ladder at a desired point and the bucket supporting bracket is arranged vertically so that the contents of the bucket will not spill due to the inclination of the ladder. Of course, after the jaws are properly adjusted as shown to fit the ladder stile, the set-screws 12 are engaged with the latter. Then, after the bracket has been properly positioned, the binding nut 17 is tightened and the bracket and jaws are simultaneously bound together and held against further movement until said nut is again loosened. As the person on the ladder ascends or descends, the set-screws 12 are simply loosened to slide the entire device up and down on the stile. As before indicated, if it is not desired to use the bracket as a hanger for a bucket, it can be inverted as above described and a box connected therewith for containing articles and tools

to be used. If the box is sufficiently large, the bucket can also be placed therein together with several sizes of paint brushes, scrapers or other articles which are to be used.

By carefully considering the description in connection with the drawings, persons familiar with devices of this class will doubtless be able to obtain a clear understanding of the invention. Therefore, a more lengthy and detailed description is deemed unnecessary.

Since probably the best results may be obtained with the construction and arrangement herein shown and described, this is taken as the preferred embodiment of the invention. However, I wish it to be understood that minor changes coming within the scope of the invention as claimed may be resorted to if desired.

I claim:

1. An attachment for ladders comprising a bracket including a horizontally disposed arm, said arm being equipped with a notch forming a seat for reception of a handle of a bucket or the like, the arm being also formed with an opening for passage of a bolt for fastening an article holder or the like to the arm, a clamp for adjustable connection with one of the ladder stiles, and a connection between the bracket and clamp, said connection serving to permit the bracket to be reversed for supporting either a bucket or an article holder and serving to retain the bracket in either of its adjusted positions, and also serving to hold the jaws of the clamp in various adjusted positions.

2. An attachment for ladders comprising a substantially L-shaped bracket, the arms of which are formed with openings for passage of bolts, one of said arms being designed to be disposed in parallelism with one of the stiles of the ladder and the other arm being intended to extend at right angles from said stile to permit a bucket, box, or the like to be suspended thereby, a clamp adapted to be connected with said stile, said clamp comprising a pair of jaws for embracing the stile, said jaws having slidably engaged overlapped portions, one of said portions having its edge directed laterally to provide a stop-flange, said portion being equipped with an angularly disposed threaded stud, the co-operating overlapping portion of the other jaw being provided with an elongated slot through which said stud extends, said stud also being intended to extend through an opening in the adjacent vertical arm of said bracket, and a binding nut on the free end of said stud for locking said overlapped portions of the jaws in various positions and for holding said bracket in various adjusted positions.

In testimony whereof I have hereunto set my hand.

MARTIN R. MYERS.