F. SIEMANN AND E. J. CUPPAGE.

LADDER ATTACHMENT.

APPLICATION FILED MAY 27, 1918.

1,435,988. Patented Nov. 21, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

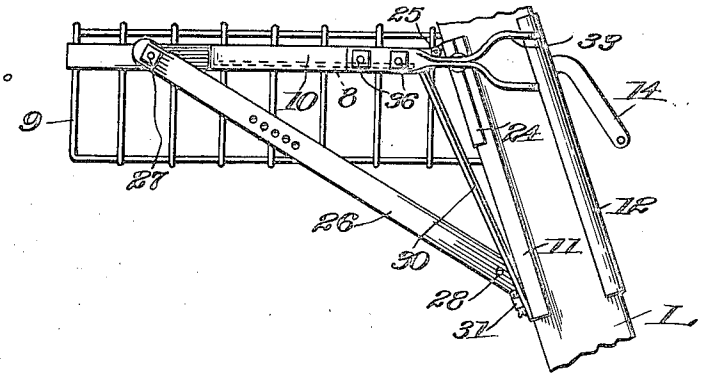


Fig. 2.

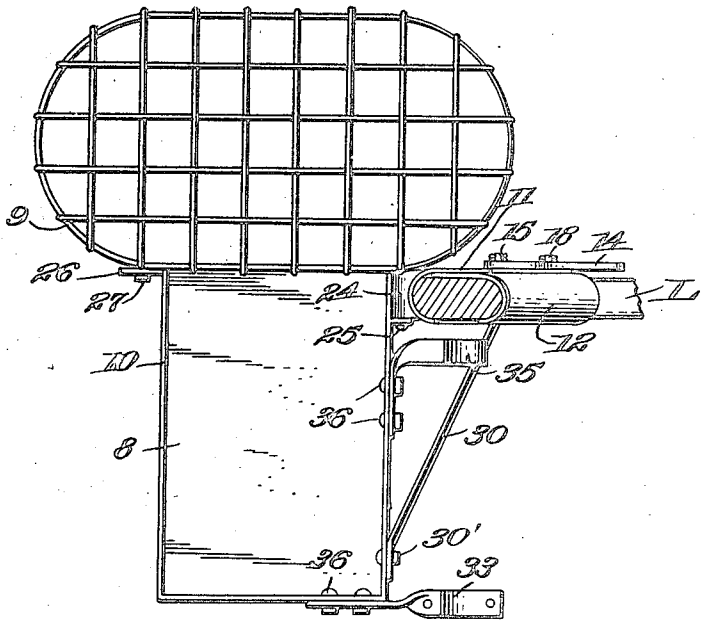
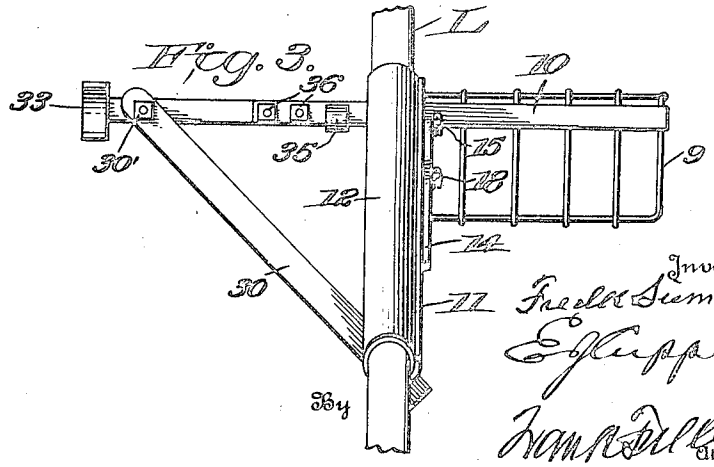


Fig. 3.



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2 SHEETS—SHEET 2.

Fig. 4.

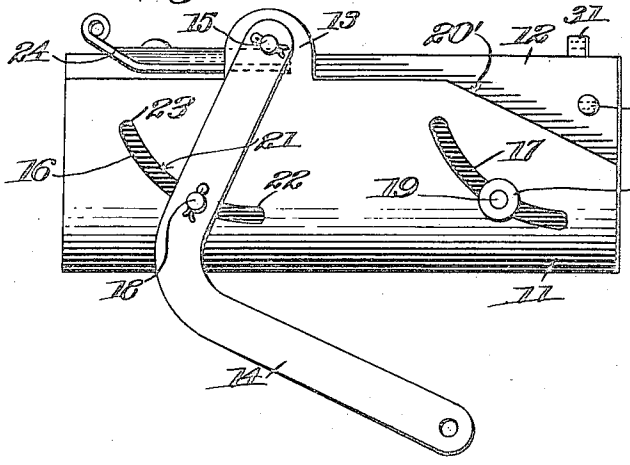
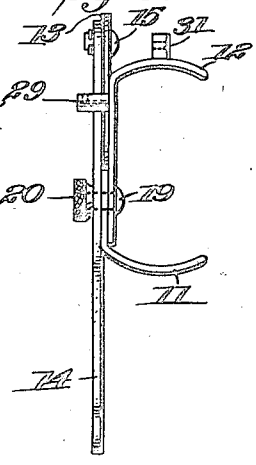


Fig. 5.



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Patented Nov. 21, 1922. 1,435,988

UNITED STATES PATENT OFFICE.

FREDRICK SIEMANN, OF SAN FRANCISCO, CALIFORNIA, AND EDMUND J. CUPPAGE, OF FORT LUPTON, COLORADO.

LADDER ATTACHMENT.

Application filed May 27, 1918. Serial No. 236,777.

To all whom it may concern:

Be it known that FREDRICK SIEMANN and EDMUND J. CUPPAGE, citizens of the United States, residing at San Francisco, California, and Fort Lupton, Colorado, have invented certain new and useful Improvements in Ladder Attachments, of which the following is a specification.

This invention relates to a shelf or basket for attachment to ladders to support tools, paint buckets and the like and one object is to provide an article of this kind which is capable of adjustment to various heights; is capable of selective fastening by means of a clamp; is provided with an arm adapted for use with the clamp of the specific construction herein described and claimed; and another object is to provide a new form of clamp which may be particularly used in connection with my attachment.

One preferred embodiment of the invention will be described and claimed hereinafter, as well as the particular novel features of construction and advantages which will be pointed out in connection with accompanying drawings, wherein:—

Figure 1 is a side elevation of the improved device shown as attached to a ladder fragment; Figure 2 is a plan view of the attachment, shown as attached to a ladder fragment; Figure 3 is a view of the parts of Figure 1 looking from the right of that figure; Figure 4 is an enlarged detail elevational view of the clamp which may be used; and Figure 5 is an end view of the clamp.

In carrying out our invention, we provide a suitable form of shelf 8, of any desired shape, and also a suitable basket 9, preferably of wire, although it is to be understood that these parts 8 and 9 may be used jointly or separately as desired. A suitable frame 10 preferably surrounds the shelf 8 and basket 9 and this frame may extend above the shelf to form a rim therefor.

As one means of securing the shelf and basket to a ladder, we employ a clamp such as that shown in detail in Figures 4 and 5. This clamp has sections 11 and 12 which slide relatively and embrace a stile of a ladder as suggested at L. Section 11 has a lug 13 thereon to which a lever 14 is pivoted at 15. Plate 11 also has arcuate slots 16 and 17. Extending from the section 12 is a pin 18 which passes through the slot 16 and lever 14. A bolt 19 extends from the section 12 through the slot 17 and beyond it receives a fastening nut 20. The arcuate wall 21 in slot 16 is provided in contact with which pin 18 may move for adjustment purposes. When the clamp is applied to the ladder stile, and the lever is in the position shown in Figure 4, the clamp and accordingly the parts which it supports, are immovable longitudinally of the ladder. In loosening the clamp, nut 20 is first unscrewed and then the lever 14 is moved so that the pin 18 will occupy either end of the slot 16, according to the extent of opening of the clamp desired, which action permits the section 11 to slide or fall relatively to section 12. As the lever 14 is moved to bring pin 18 towards the end 22 of the slot 16, jaw 12 is moved towards jaw 11, and the jaws are spread apart as pin 18 approaches end 23.

Connected rigidly with the section 12 of the clamp is a leaf 24 which is pivoted at 25 to the frame 10 so that the tray 8 and basket 9 as a unit are capable of swinging movement relatively to the clamp. This swinging movement enables the shelf and basket to be leveled regardless of the inclination of the ladder. In order to secure the shelf and basket in adjusted positions, we provide a bar 26 adapted to be detachably connected to the frame 10 by means of a bolt 27 and to the section 12 of the clamp, and to this end, the bar has a plurality of openings 28 through which the lug 29 of the section 12 may selectively extend. Another arm braces the shelf, being designated 30, bolted to frame 10 at 30′ and having suitable openings into which a lug 31, extending at right angles to lug 29, selectively extends. It will be noticed bar 26 extends rearwardly from a point adjacent the junction of the shelf and basket while the bar 30 extends at an angle thereto.

Plate 11 is cut away to provide a wall at 20′ to rest on the adjacent stile of the ladder.

Since we have shown merely one preferred embodiment of the invention, it is to be understood that details of construction may be changed and varied within its spirit and scope.

We claim:

A device for attaching a shelf and basket structure to a ladder comprising, a pair of removable clamp members, one being con-

nected to said structure, the members having overlapping portions, one member having arcuate slots, the other having pins projecting into the slots, a lever pivotally mounted on the slotted member and connected to one of the pins to move the latter through its slot when the lever is swung whereby said clamp members may be relatively moved to engage a stile of said ladder.

In testimony whereof we affix our signatures in the presence of two witnesses.

FREDRICK SIEMANN.

Witness to Siemann:
W. E. REES.

EDMUND J. CUPPAGE.

Witness to Cuppage:
T. M. ELWOOD.