

G. F. MINNIS.
 ATTACHING CLIP FOR WINDOW WASHERS' HARNESS.
 APPLICATION FILED NOV. 28, 1919.

1,373,013.

Patented Mar. 29, 1921.

Fig. 1.

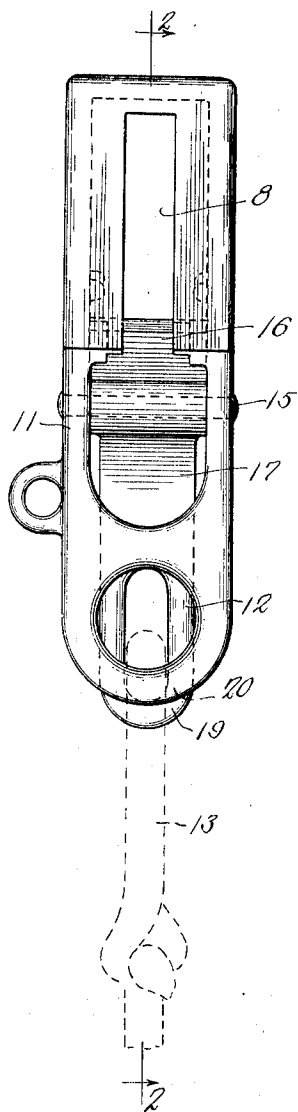
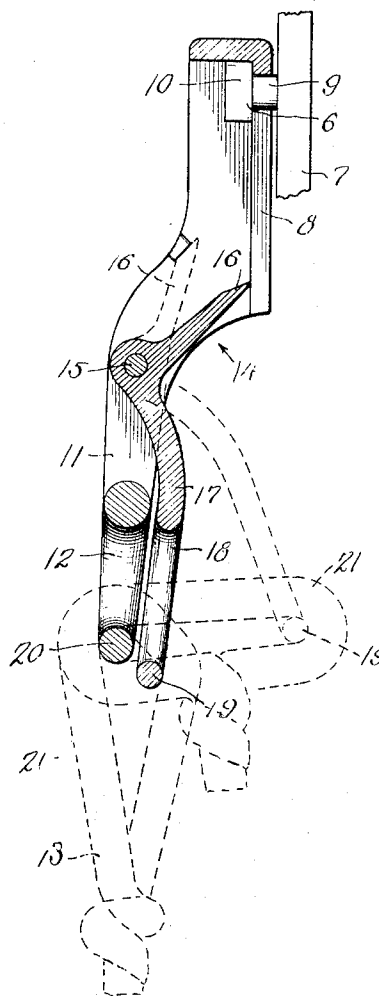


Fig. 2.



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ATTACHING-CLIP FOR WINDOW-WASHERS' HARNESS.

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Specification of Letters Patent.

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Application filed November 28, 1919. Serial No. 341,278.

To all whom it may concern:

Be it known that I, GEORGE F. MINNIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Attaching-Clips for Window-Washers' Harness, of which the following is a specification.

This invention relates to improvements in attaching clips for window washers' harness.

One of the objects of the invention is to provide a positive latch maintained closed by tension on the supporting rope, so that the clip cannot be made to leave the relatively stationary supporting lug so long as the rope is tensioned by the weight of the workman using the harness.

Other, further and more specific objects of the invention will be readily apparent, to persons skilled in the art, from the consideration of the following description when taken in conjunction with the drawing wherein—

Figure 1 is a plan view of the clip.

Fig. 2 is a central longitudinal section thereof taken on line 2—2 of Fig. 1.

In all the views the same reference characters are employed to indicate the similar parts.

Heretofore clips, similar in outline, with outlines of the device herein illustrated, have been in general use but such clips have contained spring-operated latches to retain the clip on the relatively stationary supporting lug. Such devices are unreliable and dangerous, because in the event that the spring should break, the slightest slack of the rope will permit the clip to leave the supporting lug and endanger the life of the workman.

In the improved device the latch cannot become disengaged so long as the supporting rope is taut and furthermore the loop in the rope must be laterally enlarged, by direct pressure on the latch lever in order to move the latch out of the path of the lug.

5 is the clip and 6 is the relatively stationary lug secured to a wall 7 of a building for supporting the clip.

The clip is provided with a slot 8 into which the shank 9 of the lug passes. The head 10 of the lug is sufficiently wide to bridge the slot so that the clip may not be removed from the lug unless the shank

thereof passes through the slot, in the same manner in which the clip was placed on the lug.

The clip is provided with an extended end 11, having a perforation 12 through which to pass a rope 13. A latch member 14 is pivoted at 15 and is provided with a short end 16 to close the slot 8. The latch also has an extended end 17 through which the rope 13 is passed. The lower boundary 19, of the opening or orifice, is below the lower boundary 20 of the orifice 12, so that the greatest part of the weight imposed upon the rope will come on the larger part 20. The device, as indicated in Fig. 2 in full lines shows the latch closed, because the loop 21 is laterally contracted and makes contact with the parts 19 and 20 of the device, and holds these parts together thus maintaining the shorter end 16, of the latch, in contact with the boundary wall of the slot 8, of the clip. To remove the clip from the lug 6, it is necessary to laterally elongate the loop 21, as shown in dotted lines in Fig. 2, so that the end 17 may be moved laterally a sufficient distance to raise the latch end 16, to permit the head 10 of the lug to pass through the slot. The end 19 of the latch projects below the end 20 so that the thumb of the operator may be placed against the end 19 to push it into position shown in dotted lines in Fig. 2 in order to release the clip from the supporting lug.

So long as the loop 21 of the rope 13 is laterally contracted, as shown in Fig. 2, the parts 19 and 20 cannot be separated and therefore the latch will remain closed. After the rope has become slack, as when it is released of the weight of the workman normally imposed thereon, then the latch may be opened and the clip removed from its support, otherwise the clip is inseparably engaged with said support.

While I have herein shown a single embodiment of my invention for the purpose of a clear disclosure, it will be manifest to persons skilled in the art that changes may be made in the general arrangement and configuration of the parts within the scope of the appended claims.

It is manifest that the loop or link 21 can be of metal and the rope connected thereto instead of being threaded directly through the openings 12 and 18 the provision of an

elongated loop or link in either case serving to lock and unlock the clip.

Having described the invention what I claim is:

- 5 1. In combination with a window washer's harness having a supporting rope and a headed lug by which the harness is to be supported; a clip having a slot to receive the shank of the lug and an extended, per-
10 forated end to receive a loop of a rope; a latch pivoted to said clip having an extended perforated end through which the rope is to also be passed and a member to bridge the slot when the two perforated ends are
15 brought together by tension of the rope.

2. In combination with the clip for a window washer's harness; a latch pivoted to said clip, to close the slot thereof and means,

operable by tension of the rope to close the latch.

3. In combination with a clip for a win-
20 dow washer's harness; a latch, pivoted to said clip to close the slot thereof and having an extended end of said latch for engage-
25 ment with a rope to maintain the slot closed when the rope is taut.

4. A clip of the character described hav-
ing a latch to lock it to a supporting stud,
said latch provided with an extended end,
operable by a rope when the rope is taut, to
30 hold the latch closed and rotatable, when the rope is slack, to open the latch.

In testimony whereof I hereunto sub-
scribe my name.

GEORGE F. MINNIS.