Jan. 20, 1931. E. E. WINELAND 1,789,798

ROOF CLIMBING DEVICE

Filed June 24, 1929

Fig. 1.

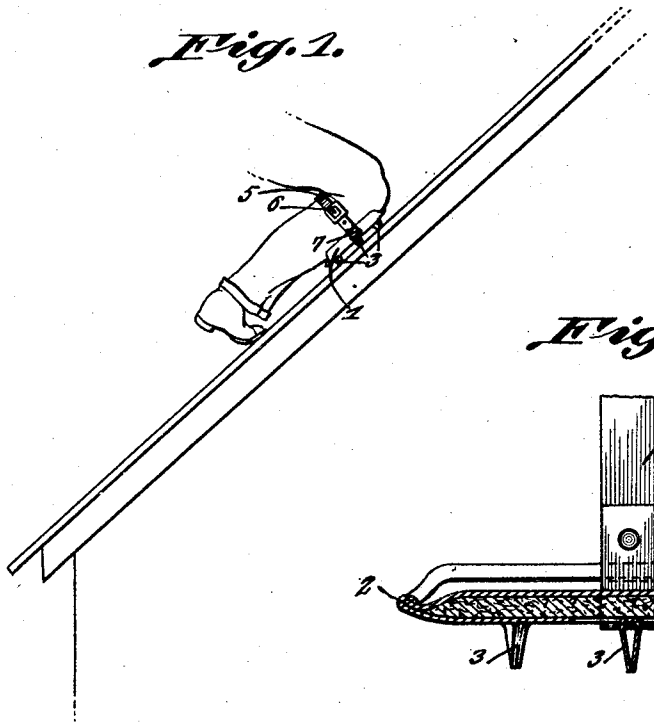


Fig. 2.

Fig. 3.

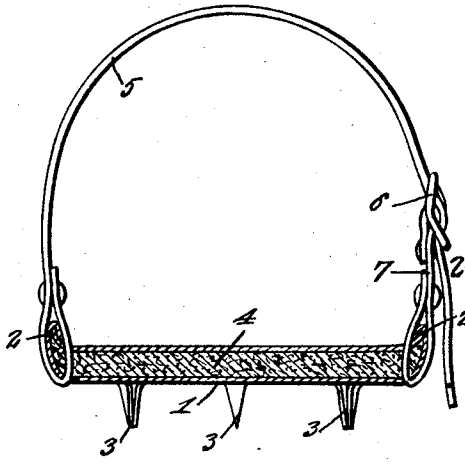
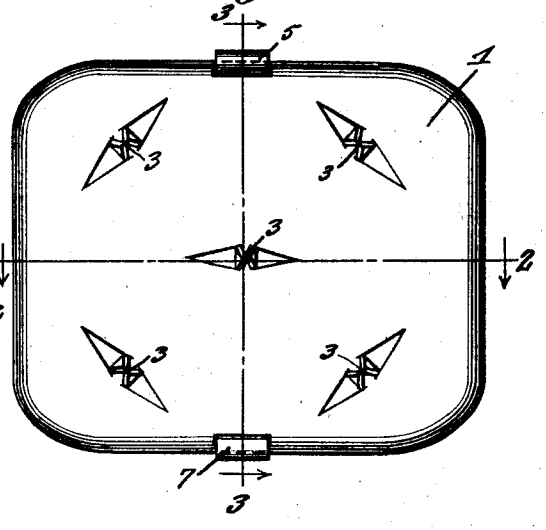


Fig. 4.



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Patented Jan. 20, 1931 1,789,798

UNITED STATES PATENT OFFICE

EMERY E. WINELAND, OF COLLEGE VIEW, NEBRASKA

ROOF-CLIMBING DEVICE

Application filed June 24, 1929. Serial No. 373,449.

This invention relates to a roof climbing device, the general object of the invention being to provide a member having a strap thereon whereby one of the members can be attached to each leg of a person below the knee, with pointed projections on the member so that a person, such as a fireman, can readily climb a pitched roof without danger of slipping thereon, even though the roof is covered with ice.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claim.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like character denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a view showing how the device is used to climb a roof.

Figure 2 is a section on line 2—2 of Figure 4.

Figure 3 is a section on line 3—3 of Figure 4.

Figure 4 is a bottom plan view of the device.

In these views, the numeral 1 indicates a plate of metal with its side edges turned up, as shown at 2, to provide flanges and pointed projections 3 extend from the outer face of the plate, these projections being preferably formed by cutting the metal and bending the metal between the cuts outwardly, as shown. Each projection is formed by the metal bent from a pair of cuts.

A pad 4 is placed on the inner face of the member and is preferably attached thereto by bending the edges of the flanges over the edges of the pad, as shown. One end of a strap 5 is passed through openings formed in one side of the member at the center thereof and in the pad and then this end of the strap is fastened to another portion of the strap. The other end of the strap is provided with holes for receiving a tongue of a buckle 6 carried by a strap 7 which is fastened to the opposite side of the member 1 and pad, as is the strap 5.

One of these members is attached to each leg of the user below the knee, as shown in Figure 1, so that when the user climbs a roof, the points on the plate 1 will engage the roof and thus prevent the person from slipping even though the roof is coated with ice or is slippery from being wet. As will be seen, the devices will not interfere with a person walking.

The invention is mainly designed for firemen, though it will, of course, be understood that it can be used by other persons climbing a roof.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:—

A roof climbing device comprising a substantially rectangular plate having the side edges turned upwardly and inwardly over the main portion thereof, a pad overlying the plate and disposed under the flanges to engage a person's leg, teeth on said plate, said flanges having slots intermediate their ends, and a leg strap received by the slots to secure the pad against the leg with the plate disposed outermost.

In testimony whereof I affix my signature.

EMERY E. WINELAND.