H. C. BUNNELL.

HAND GUARD AND GRIP.

APPLICATION FILED MAY 13, 1919.

1,333,792. Patented Mar. 16, 1920.

Fig. 1.

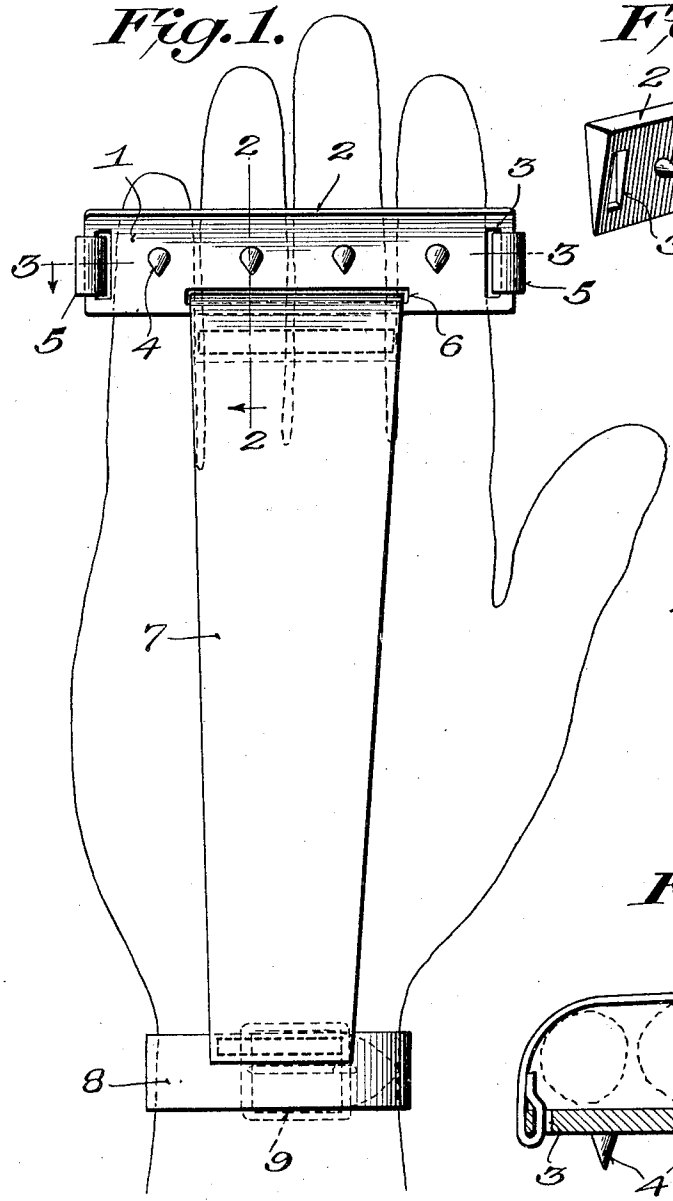


Fig. 4.

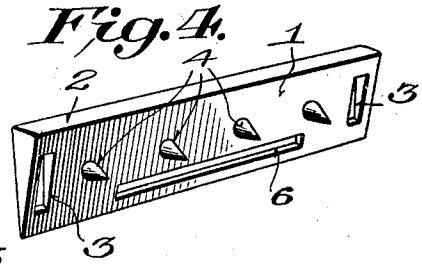


Fig. 2.

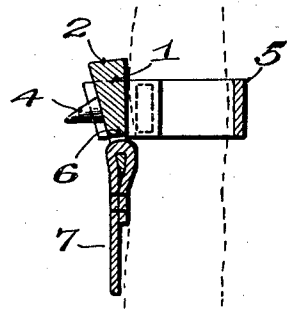
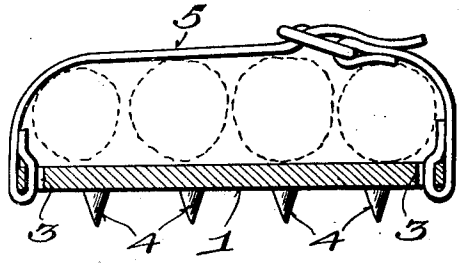


Fig. 3.



Witness

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HAND GUARD AND GRIP.

1,333,792. Specification of Letters Patent. Patented Mar. 16, 1920.

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To all whom it may concern:

Be it known that I, HORRY C. BUNNELL, a citizen of the United States, residing at Westport, in the county of Essex and the State of New York, have invented certain new and useful Improvements in Hand Guards and Grips, of which this is a specification.

This invention relates to a device adapted to be secured to the inside of the hand to facilitate the handling of logs, cakes of ice, boxes, lumber, etc. The device not only affords a certain amount of protection to the hand in handling materials of this kind, acting as a guard, but also acts as a grip, enabling the wearer to secure and maintain a firmer hold on the article handled. It may be used either with or without a glove or mitten, depending on the weather and the nature of the work.

In this respect it differs materially from those devices which consist of gloves having spurs or spikes secured to them. These are not only too warm for wear in hot weather, but when the fabric portion has become worn it is necessary to discard them. In my device all the wear comes entirely on metal parts, preferably formed of crucible steel.

The invention consists in the novel features of construction hereinafter described, pointed out in the claim and shown in the accompanying drawings, in which:—

Figure 1 is a view of a inner face of a hand with my device applied thereto.

Fig. 2 is a section on the line 2—2 of Fig. 1, the fingers being dotted.

Fig. 3 is a section on the line 3—3 of Fig. 1.

Fig. 4 is a detail perspective view of the guard, removed from the hand.

In constructing the device I employ a metal plate 1 of sufficient length to span the fingers of the average sized hand between the first and second joints. It will be noted that this plate is triangular or V-shaped in cross section, having a thin inner edge and a comparatively thick outer edge as at 2, this edge resting, when the device is in place next to the finger tips.

Adjacent each end the plate is transversely slotted as at 3. Arranged along the face of the plate are spurs or projections 4. These may vary in number, size or arrangement. Straps 5 are connected to the plate by passing them through the slots 3, said straps being united or connected on the back of the hand and holding the plate in position, an ordinary form of buckle being employed to connect the straps.

Along the inner, thin edge is formed a slot 6, and a strap 7, connected to the plate by passing the strap through the slot 6, extends from the plate along the palm of the hand to the wrist, where it is attached, by stitches or rivets, to a wrist band 8. The wrist band is secured on the wrist by a buckle 9, indicated in dotted lines in Fig. 1.

This device leaves the thumb entirely free. It may be worn on the naked hand or over a glove or mitten.

The spurs 4 will give a firm grip on such articles as logs, boxes, bales of hay, etc. The thickening of the outer edge of the plate automatically throws the spurs inwardly and also prevents any cutting of the fingers either on the plate or the spurs by bending them inwardly from the first joint.

The device is effectual as a grip for heavy or slippery objects, and also a guard for the hand, taking the load off of the skin, so far as friction with a rough surface is concerned, and also by preventing friction on the skin due to the slipping of the object being handled, much of the wear and tear on the hand being due to the necessity of getting repeated grasps on the object being lifted, due to breaking of the hold on it through slipping.

This is especially true of objects the size or shape of which make them awkward to handle or to grip securely with the bare hands.

What I claim is:—

In a device of the kind described, a metal plate adapted to lie across the inner face of the fingers, said plate having spurs on its face, being V-shaped in cross section, and slotted adjacent its ends and adjacent its inner edge, straps connected to the ends of the plate and passing through the end slots, said straps connecting on the back of the fingers, a strap secured to the edge slot and extending along the palm of the hand to the wrist, and a wrist band to which the last mentioned strap is secured, as and for the purpose set forth.

In testimony whereof I affix my signature.

HORRY C. BUNNELL.