E. H. WHITE.

HAND AND ARM PROTECTOR.

APPLICATION FILED MAR. 10, 1920.

1,360,840. **Patented Nov. 30, 1920.**

Fig. 1.

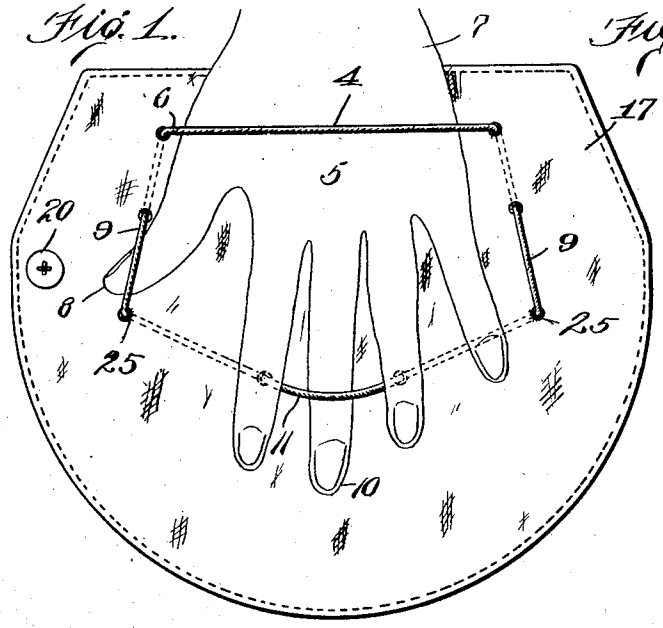


Fig. 2.

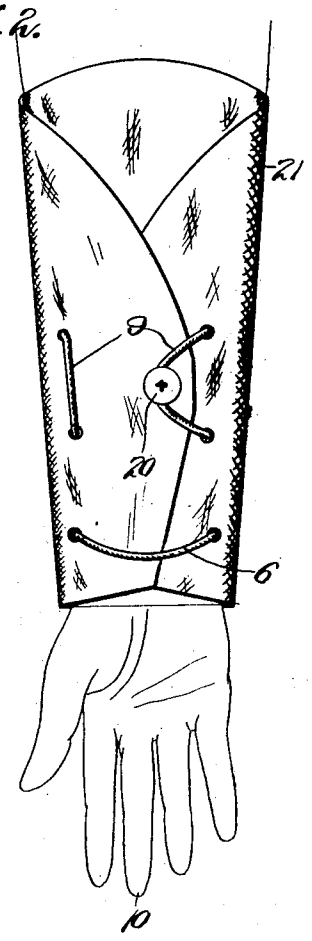


Fig. 3.

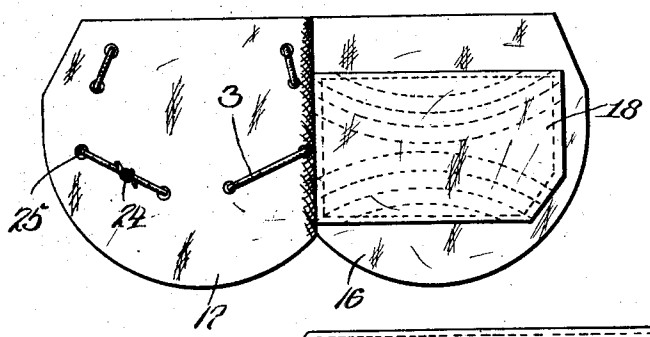
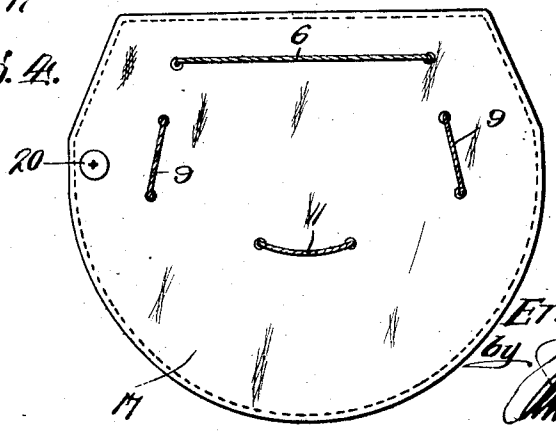


Fig. 4.



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UNITED STATES PATENT OFFICE.

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HAND AND ARM PROTECTOR.

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Application filed March 10, 1920. Serial No. 364,615.

To all whom it may concern:

Be it known that I, ERNEST H. WHITE, a citizen of the United States, residing at Oswego, in the county of Oswego and State of New York, have invented new and useful Improvements in Hand and Arm Protectors, of which the following is a specification.

My invention relates to improvements in hand and arm protectors and is primarily intended as a substitute for the glove, mit and other crude and inadequate devices heretofore employed by firemen and others who commonly handle heated articles or implements.

This invention also provides a hand-protecting device that may be readily converted into an arm or sleeve protector, thereby affording means for constant and useful wear; the arm thereby serving as a keeping place for the hand protector where it may be conveniently and instantly located.

Further objects of my invention are to provide an efficient protecting device that can be manufactured at a very small cost substantially built of material having good wearing qualities, worn on either hand or arm, and quickly converted from hand to arm protector, or vice versa.

Reference is made in the following description to the accompanying drawings, in which:—

Figure 1 is a plan view of the device employed as a hand protector;

Fig. 2 is an elevation of the device in position as an arm protector;

Fig. 3 is a plan view showing the upper layer of material separated from the other layers of the device; and

Fig. 4 is a plan view of the device separated from the hand of the wearer.

Similar characters of reference denote corresponding parts throughout the several views.

The body of my convertible hand and arm protector is preferably formed of two layers of material hereinafter termed lower and upper pieces 16—17, respectively, and an intermediate reinforcing piece or pad 18, all of which layers or pieces are secured or stitched together in any suitable manner so as to form a strong and durable structure. The upper and lower layers 16—17 are preferably of the same size and shape, whereas the intermediate pad 18 is smaller and located near the center of the body in order to effectually embrace the article being handled, such as the handle of a shovel, fire-hook, flatiron, or the like.

A lace 4 is passed through reinforced openings or eyelets 25 in the upper layer 17 so as to form exposed loops 6, 9 and 11. The loop 6 is adapted to engage the back portion 5 of the hand or the lower part of the wrist 7. The loops 9 may engage the thumb of either hand and the loop 11, when in operative position, engages over the middle finger 10.

As illustrated in Fig. 3, the lace 4 is preferably inserted through the layer 17 before the different layers are finally stitched together, and the ends of the lace are tied together, as at 24, so that the knot will be located in the interior of the body when the different layers are secured together.

The play allowed knot 24 between the openings 25 is sufficient to allow the proper adjusting of the lace, though the relative size of the knot and the openings may be made such that the knot may readily pass through them. The protector will also function properly if one of the interior parts 3 of the lace is secured in place, the adjustment of the thumb and finger loops being compensated by the wrist loop 6 which may be slightly larger than the wrist of the user without impairing the function of the device. The forms of my invention employing the adjustable lace are preferred as the loops 9 and 11 may be varied in size to snugly fit the thumb and finger of hands of various sizes.

A fastening device such as a button 20 is secured to the upper layer 17 at one side thereof and preferably projects slightly above the surface of the layer 17 so as to furnish a hold that may be used in adjusting the body of the protecting device about an arm. When the body of the protecting device is in proper position on an arm of the wearer, the lace or that portion thereof comprised by one of the loops 9 is twisted around the button in drawing up the slack, if any, in the lace. The protecting device is applied to the hand of the wearer in the manner illustrated in Fig. 1, the hand being inserted through the loop 6, the thumb through one of the loops 9, depending upon

which hand is employed, and the middle finger through the loop 11. In this position, the body of the device may be conveniently manipulated to firmly grasp the article or implement that it is desired to handle.

In order to convert the protector into an arm protector or position it so that it may be readily found for future use the thumb and finger are released from their respective loops, whereas the wrist loop 6 still embraces the wrist. The opposite hand may now be used to grasp the protector at the curved end 15 and reverse it upon the back of the forearm and in this reverse condition the wrist loop 6 is given play and may be held by the finger 10 against the palm of the hand. The body of the protector is then drawn around the arm until the side having the button 20 overlaps the other side 21, whereupon the part of the lace corresponding to one of the loops 9 is made to engage the button and may be twisted about the button in order to take up the slack, if any, in the lace, so that the protector will snugly fit the arm or sleeves of the wearer.

A device constructed in accordance with my invention is preferably formed of canvas, asbestos or leather, but it will be understood that any other suitable material may be used and other modifications apparent to those skilled in the art to which this invention appertains may be made without departing from the spirit and scope of the appended claims.

Having fully described my invention, I claim:—

1. A protector comprising a body, a lace passing through the upper part of the body forming exposed loops to receive the wrist, a finger and the thumb of either hand, respectively, and a fastening device for engaging one of said thumb-receiving loops when the body embraces an arm of the wearer.

2. A protector having a body composed of two-ply material and a reinforcing intermediate layer secured together, a lace passing through one ply and forming exposed wrist and finger-receiving loops, and a fastening device for engaging one of said loops when the body embraces an arm of the wearer.

3. A protector having a body, a lace passing through a portion of said body forming wrist and finger-receiving loops on the exterior thereof, and a fastening device for engaging said lace when the body embraces an arm of the wearer.

4. A protector comprising a padded body, a lace engaging said body and forming exposed loops for receiving the wrist, a finger and the thumb of either hand, respectively, and a fastening device for engaging one of said thumb-receiving loops whereby the body may be secured on an arm of the wearer without detaching the wrist-receiving loop.

5. A hand protector comprising a padded body, and a lace engaging said body forming exposed loops for receiving the wrist, a finger and a thumb of either hand, respectively.

6. A hand protector comprising a body and an adjusting lace engaging said body and forming exposed loops for receiving the wrist, a finger and the thumb of either hand, respectively.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ERNEST H. WHITE.

Witnesses:
JOHN J. JOYCE,
EDWARD J. BATEMAN.