J. P. DONOVAN.

HANDSHIELD FOR RIVETERS.

APPLICATION FILED FEB. 17, 1919.

1,351,028.

Patented Aug. 31, 1920.

Fig. 1.

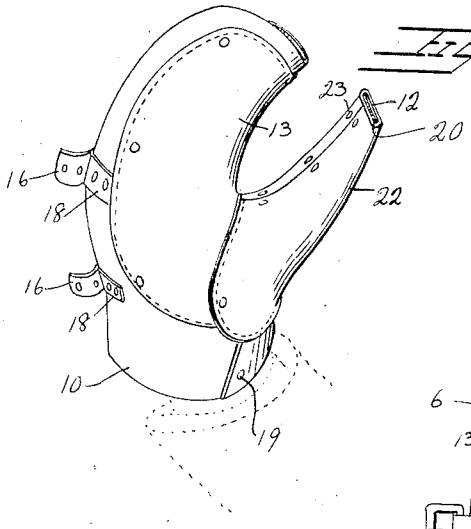


Fig. 3.

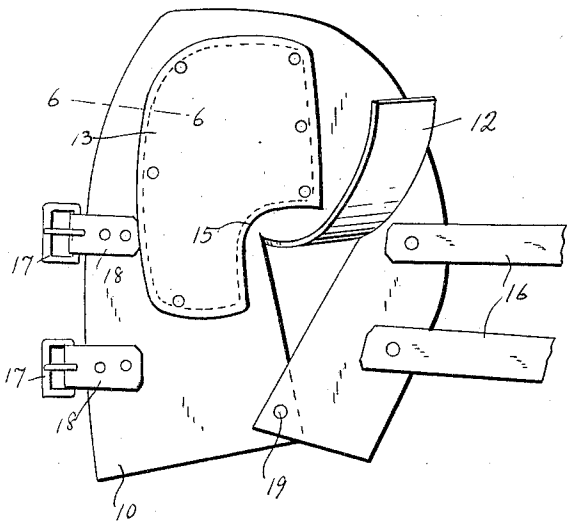


Fig. 2.

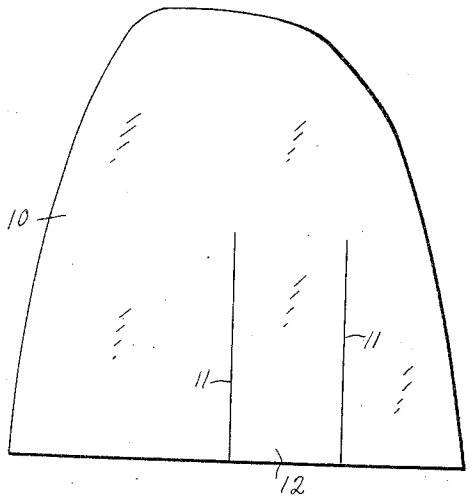
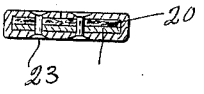


Fig. 4.



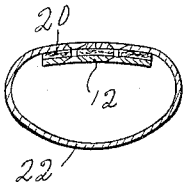
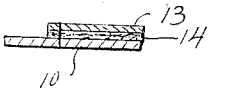


Fig. 5.

Fig. 6.



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UNITED STATES PATENT OFFICE.

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HANDSHIELD FOR RIVETERS.

1,351,028. Specification of Letters Patent. Patented Aug. 31, 1920.

Application filed February 17, 1919. Serial No. 277,533.

To all whom it may concern:

Be it known that I, JAMES P. DONOVAN, a citizen of the United States, residing at Quincy, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Handshields for Riveters, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to shields for the hand, and particularly to a shield or protector designed to protect the hand of a riveter from the heat of the riveting die and the heat of the rivets and plates.

The general object of the invention is to provide a device of this character which is so designed that it may be readily made of leather or like flexible and relatively heat resistant material, and which will embrace and cover that portion of the palm of the hand and those fingers which are liable to come into contact with hot metal and which will entirely protect the thumbs.

A further object is to provide a device of this character wherein the thumb is protected on its inside face by two thicknesses of leather and a thickness of asbestos, and in this connection to provide a protector of this character having its body made from a single blank cut to provide an opening for the thumb, the tongue cut out from said opening being used to form one of the thicknesses for the thumb piece.

Other objects will appear in the course of the following description.

My invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a perspective view of a shield or protector constructed in accordance with my invention;

Fig. 2 is a face view of the blank used in making the protector;

Fig. 3 is an exterior face view of the shield, the thumb being left unfinished;

Fig. 4 is a cross sectional view of the thumb at the tip;

Fig. 5 is a cross sectional view of the thumb below the tip, and;

Fig. 6 is a fragmentary section on the line 6—6 of Fig. 3.

Referring to these figures, and particularly to Fig. 2, it will be seen that my protector comprises a thickness 10 of leather or like material, having a length somewhat greater than the hand over which it is designed to fit, the base of this piece or blank 10 being cut at right angles to the longitudinal axis of this member 10, and the rest of the blank having a rounded edge. The blank is slit inward from the base by slits 11, thus providing a tongue 12. Both riveted and sewed to the exterior face of the member 10 is a layer 13 of leather, and between the layer 13 and the tongue or layer 10, is a layer of asbestos 14. The layer 13 is cut away at 15 on a concave curve so as to extend around the thumb opening formed by turning up the tongue 12, and attached to the layer or blank 10 and extending at right angles to the axis of the blank are the straps 16 formed with perforations for engagement with the tongues of buckles 17 which are attached to short straps 18 riveted or otherwise attached to the outer face of the blank 10. After the protector is partially formed and the tongue 12 has been turned outward, the leather at the lower margins of the slits 11 is overlapped, as illustrated in Fig. 3, and these overlapped margins are riveted, as at 19. Thus, a triangular opening is left in the member 10 which forms the thumb hole.

A piece of asbestos 20 is disposed against the tongue, and the tongue with the inclosed asbestos strip 20 is then inserted within a leather thumb piece 22 which is folded over and riveted by rivets 23 to the tongue and the asbestos strip, as illustrated in Figs. 4 and 5, the base of this thumb piece being riveted and sewed around the margin of the thumb opening in the tongue 10 in the manner which will be obvious from Fig. 1. Thus, as illustrated, the tongue and the asbestos strip are disposed upon the inner face of the thumb piece 22 and extend across the seam thereof so that between the thumb of the user and the heated article being handled, there are two thicknesses of leather and one thickness of asbestos.

The protector is worn as illustrated in Fig. 1 by folding the protector so that it will embrace the fore finger of the hand, and extend partially over the back of the hand and partially over the palm of the hand and the inner surfaces of the fingers and the outer surfaces thereof, while the thumb is entirely inclosed within the thumb piece 22. Thus, the protector not only protects the palm of the hand, but the thumb and fore finger and the back of the hand, and these are the parts which are subject to contact with heated plates, rivets and other

parts, and contact with sparks. The device is very simple, can be easily made, and is extremely convenient and effective.

While I have illustrated this protector as made of leather, and preferably make it of this material, yet it is to be understood that it might be made of any material which is sufficiently resistant to heat and wear. Thus, the material might be asbestos cloth, but I regard the leather as preferable because the asbestos cloth ordinarily has not sufficient strength for the purpose.

I claim:—

1. A hand shield of the character described comprising a blank of flexible material adapted to be longitudinally folded to extend over the back and palm of the hand and embrace the first and second fingers, straps attached to the margins of the blank whereby it may be held upon the hand, the blank being longitudinally slitted at two points to provide a tongue, the margins defining said tongue being brought together at the base of the blank and overlapped to thereby provide a thumb opening, and a hollow thumb piece attached to the blank and extending therefrom, said tongue extending upward through said thumb piece.

2. A hand shield of the character described comprising a blank of flexible material adapted to be longitudinally folded to extend over the back and palm of the hand and embrace the first and second fingers, straps attached to the margins of the blank whereby it may be held upon the hand, the blank being longitudinally slitted at two points to provide a tongue, the margins defining said tongue being brought together at the base of the blank and overlapped to thereby provide a thumb opening, and a hollow thumb piece attached to the blank and extending therefrom, said tongue having its lateral margins folded over the strip of asbestos contained within said tongue and held in place by the folded-over margins, and a hollow thumb piece attached to the tongue and extending from the thumb opening thereof and into which said tongue projects.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

JAMES P. DONOVAN.

Witnesses:

WILLIAM J. CORCORAN,
EDWARD L. BENNETT.