

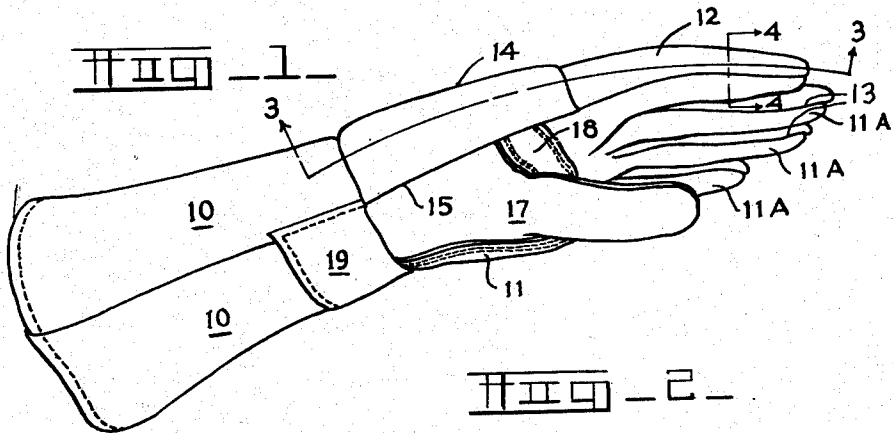
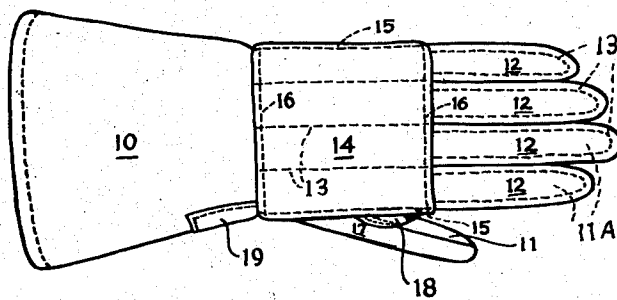
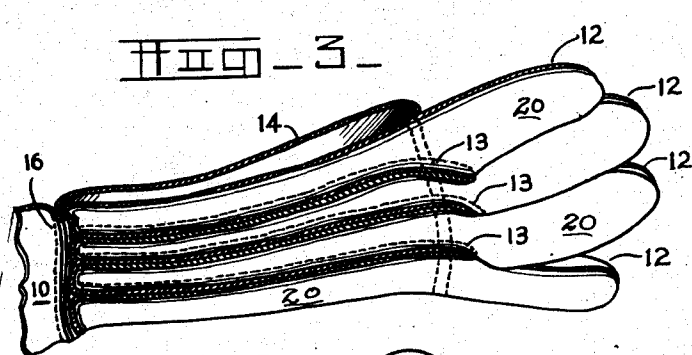
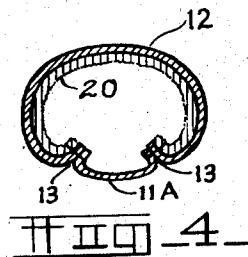
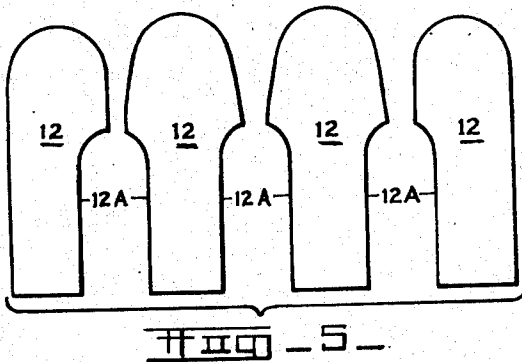
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WELDER'S GLOVE

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WELDER'S GLOVE

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This invention relates to gloves and more particularly to a glove particularly adapted for welder's use.

It is well known that a welder commonly holds a welding torch in the right hand and performs a welding operation holding or guiding the workpiece with the left hand and as a result of such action the sparks and molten material from the welding operation endangers the left hand. It is therefore necessary to provide protection for the welder's hand.

The principal object of the invention is the provision of a welder's glove for protecting a welder's hand.

A further object of the invention is the provision of a welder's glove, the construction of which enables the glove to resist destruction from the sparks and pieces of molten material from the workpiece.

A still further object of the invention is the provision of a welder's glove incorporating a design enabling the ready manipulation of the welder's left hand including the fingers thereof.

A still further object of the invention is the provision of a welder's glove incorporating means for shielding all of the exposed seams on the glove to eliminate burning of said seams and the resulting destruction of the glove.

It is known in the art of welding that various patterns for the formation of welder's gloves have been made and that one of the most successful of such welder's gloves is illustrated in Patent No. 2,044,105 to L. G. Sabin and which patent discloses a welder's glove incorporating a shield attached at the sides of the glove and overlying the back of the hand and finger portions of the glove and loosely spaced with respect to these portions of the glove. The glove shown in the Sabin patent has been widely used commercially and imitated in various approximations such as, for example, in that disclosed in the patents to Bakke, Nos. 2,394,136 and 2,448,697, wherein welders' gloves are disclosed with relatively stiff protective sheaths affixed over the back and finger portions of the gloves.

All of these welder's gloves and others of similar formation known in the art, while offering a measure of the desired protection, provide a cumbersome glove structure restricting the use of the welder's hand wearing the protective glove and particularly with respect to the fingers thereof.

It is, therefore, a further object of the invention to form a glove which is of relatively lightweight construction and capable of providing a

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flexible, easily manipulated structure to eliminate the objections to the gloves heretofore referred to.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a side view of the welder's glove.

Figure 2 is a back view of the welder's glove shown in Figure 1.

Figure 3 is a longitudinal cross-section taken on line 3-3 of Figure 1.

Figure 4 is a vertical section taken on line 4-4 of Figure 1.

Figure 5 is a composite view illustrating the pattern of the finger backs used in the glove shown in Figures 1 and 2.

By referring to the drawings and Figure 1 in particular it will be seen that a welder's glove has been disclosed which includes a cuff 10, a palm section 11 and a plurality of finger back sections 12. The finger back sections 12 are secured to one another by a plurality of longitudinally extending inturned seams 13-13 to form the back of the glove. The back of the glove thus formed as well as the longitudinally extending seams 13-13 are covered by a rectangular back guard section 14 which is secured by inturned seams at its edges to the glove and more particularly to longitudinal side seams 15-15 and transverse seams 16-16 so that the rectangular back guard section 14 overlies all of the longitudinally extending seams 13-13 between the finger back sections 12-12. The actual back of the glove is therefore covered by the back guard section 14 so that sparks or particles of molten metal directed thereagainst will not harm the glove as the vulnerable seams are covered.

The transverse inturned seams 16-16 by which the back guard section 14 is secured to the glove also serves to attach the cuff 10 to the glove proper and the finger back sections 12 are so formed as to position the joining seams not covered by the back guard section 14 around toward the front or palm of the glove so that these seams are protected by the finger guard sections 12 themselves. This is best illustrated

in Figure 4 of the drawings wherein one of the fingers is shown in transverse cross section and it will be observed that the seams 13—13 are located well around on the front of the fingers with the back of the finger sections 12 covering the back and the end portions of the side of the fingers.

The finger back sections 12 are also shown in a pattern-like arrangement in Figure 5 of the drawings and it will be observed by referring thereto that the longitudinal seams joining their edges 12A—12A to one another are those covered by the back guard section 14 heretofore referred to, while the increased width of the end portions of the finger back sections 12 enables the seams 13—13 joining the same to be located well around the front of the glove and away from the vulnerable back portion.

The palm section 11 of the glove has finger-like extensions 11A—11A extending outwardly and joined by the seams 13—13 to the finger back sections 12 so as to complete the glove structure.

The back 17 of the thumb portion of the glove is formed as a separate section attached to the palm while the front of the thumb is formed as an integral piece of the palm 11. A reinforcing strip 18 is positioned on the palm 11 and covers the seam joining the back 17 of the thumb portion and the palm 11. An additional reinforcing section 19 is positioned on the inside portion of the cuff 10 and overlies the same, as best shown in Figure 1 of the drawings. It will thus be seen that the back of the glove is formed of the four finger back sections 12 secured to one another throughout the majority of their length by the longitudinal seams 13 and throughout the remainder of their length by the longitudinal seams located on the front of the fingers and joining the back sections 12 with the palm extensions 11A as hereinbefore described.

The cuff 10 is secured to the rearmost portions of the finger back sections 12 and the back guard section 14 is superimposed over the finger back sections 12 so as to cover the longitudinal seams 13, the seams positioning and locating the back guard section 14 being the intumed transverse seams 16—16 and the intumed longitudinally extending side seams 15—15.

It will thus be seen that a welder's glove has been disclosed which has all the desirable flexible characteristics of an ordinary workman's glove and possesses the desirable protective features of a welder's glove.

It will occur to those skilled in the art that sparks or particles of metal from a welder's torch striking the back of the glove as disclosed herein will in no way harm the same as none of the seams are exposed and therefore none can be burned and opened. Additionally, the several portions of the glove are lined with a suitable fabric which is cemented to the inner several portions of the glove and particularly the finger back sections 12 and the enlarged end sections thereof. The lining material is indicated by the numeral 20 and is sewed to the several portions of the glove by the seams 13—13 and the seams 15—15. This construction places insulation on the sides and back of each of the fingers and the back of the hand and thus protects the workman's hand. It will also be seen that the back guard section 14 forms, in effect, a third heat insulating layer between the back of the welder's hand and the workpiece, the other two being the layer of insulating material and the finger back section

12. The construction is particularly desirable as the intumed longitudinally extending seams form ridges, as best shown in Figure 3 of the drawings, which serve to position the back of the glove above the welder's hand so that heating or burning of the hand is impossible.

The novelty in the present disclosure therefore resides in the formation of the finger back sections 12, the positioning of the longitudinal seams 13—13 joining the same to one another and to the narrow palm extensions 11A—11A and in the provision of the back guard section 14 forming a loosely positioned protective element of a soft flexible nature over the entire back of the gloves to protect the seams which would otherwise be exposed in a glove formed on the pattern of that herein disclosed.

It will occur to those skilled in the art that the back guard section 14, while illustrated and hereinbefore described as being positioned on the back of the left hand glove, may alternately be positioned on the back of the right hand glove or on both gloves of a pair if desired. The back guard section 14 is cut and affixed in exactly the same manner so as to be interchangeable from left to right hand glove at the time of manufacture if desired.

It will thus be seen that the several objects of the invention are met by the glove hereinbefore set forth.

Having thus described my invention, what I claim is:

1. In a welder's glove comprising the usual back, palm and cuff portions, narrow finger extensions on the palm portion and a plurality of relatively wide finger back sections portions of which are secured to one another and to the sides of the palm portion by longitudinal seams, intumed seams securing the remaining portions of the finger back sections to the narrow finger extensions, a back guard section comprising a piece of material secured on the outer side of the back portion of the glove by intumed seams at both sides of the glove and transverse seams at both ends of the guard and overlying the first mentioned longitudinal seams between the finger back sections and with said material loosely overlying the glove back.

2. In a welder's glove comprising the usual back, palm and cuff portions, means forming fingers comprising narrow finger extensions on the palm portion and a plurality of relatively wide finger back sections portions of which are secured to one another by longitudinal intumed seams and to the sides of the palm portion by longitudinal intumed seams, intumed seams securing the remaining portions of the finger back sections to the narrow finger extensions, the said intumed seams lying on the front of the fingers of the glove, a back guard section comprising a piece of material secured on the outer side of the back portion of the glove by intumed seams at both sides of the glove and transverse seams at both ends of the back guard and overlying the longitudinal seams between the finger back portions and with said material loosely overlying the back portion, said back guard section extending from the said cuff portion to a point on the finger back sections a distance equal to that of the longitudinal seams joining the said finger back sections to one another so as to overlie the same throughout their length.

3. In a welder's glove comprising the usual palm and cuff portions, and having a back

formed of a plurality of longitudinally positioned finger back sections secured to one another by longitudinally extending inturned seams therebetween and to said cuff portion by a transverse seam, the improvement comprising a back guard section formed of a piece of flexible material and secured on the outer side of the finger back sections of the glove by inturned seams at both sides of the glove and secondary transverse seams, one of which secondary transverse seams corresponds with the seam between the finger back sections and the cuff portions and the other of which secondary transverse seams corresponds with the first mentioned transverse seam whereby the longitudinally extending seams are covered by the back guard section.

4. A welder's glove comprising a cuff section, a palm section and a thumb section secured to one another in the usual manner, narrow finger extensions on the palm section for forming the fronts of the fingers of the glove, a back portion for the glove formed of a plurality of finger back sections, each of the said finger back sections being narrow throughout a portion of its length and relatively wider near its outermost end portion, the wider, outermost end portions of the finger back sections being secured to the finger extensions of the said palm section to form fingers in the glove and the narrow finger back sections being secured to one another by longitudinal seams, and a rectangular back guard section positioned on the back of the glove over the said longitudinal seams, the edges of the said rectangular back guard section being secured to the glove by inturned seams whereby the said longitudinal seams of the back finger sections are covered and the seams between the enlarged ends of the finger back sections

and the palm section extensions are on the front of the glove.

5. In a welder's glove having a back section, a palm section, finger stalls and a cuff portion; elongated strips disposed in side by side relation to each other and having side edge portions stitched together for a portion of their length and forming inturned seams, the seamed-together portions of the strips forming the back section of the glove, said strips having front portions projecting forwardly from the back section of the glove and forming back portions of the finger stalls, tongues extending forwardly from the palm section of the glove and having side edge portions stitched to side portions of companion forwardly extending portions of the first mentioned strips by inturned seams and completing the finger stalls, lining strips adheringly mounted against inner surfaces of the first strips and having side edge portions secured by the stitches forming the inturned seams, and a guard for the back section corresponding in length and width to the said back section and having its side edges and front and rear edges turned inwardly and sewed to the back section and for the remainder of its area being free and spaced outwardly from the back section.

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The following references are of record in the file of this patent:

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