

June 19, 1945.

V. H. HURT

2,378,773

GLOVE OR MITTEN

Filed Feb. 20, 1943

FIG. 1

FIG. 2

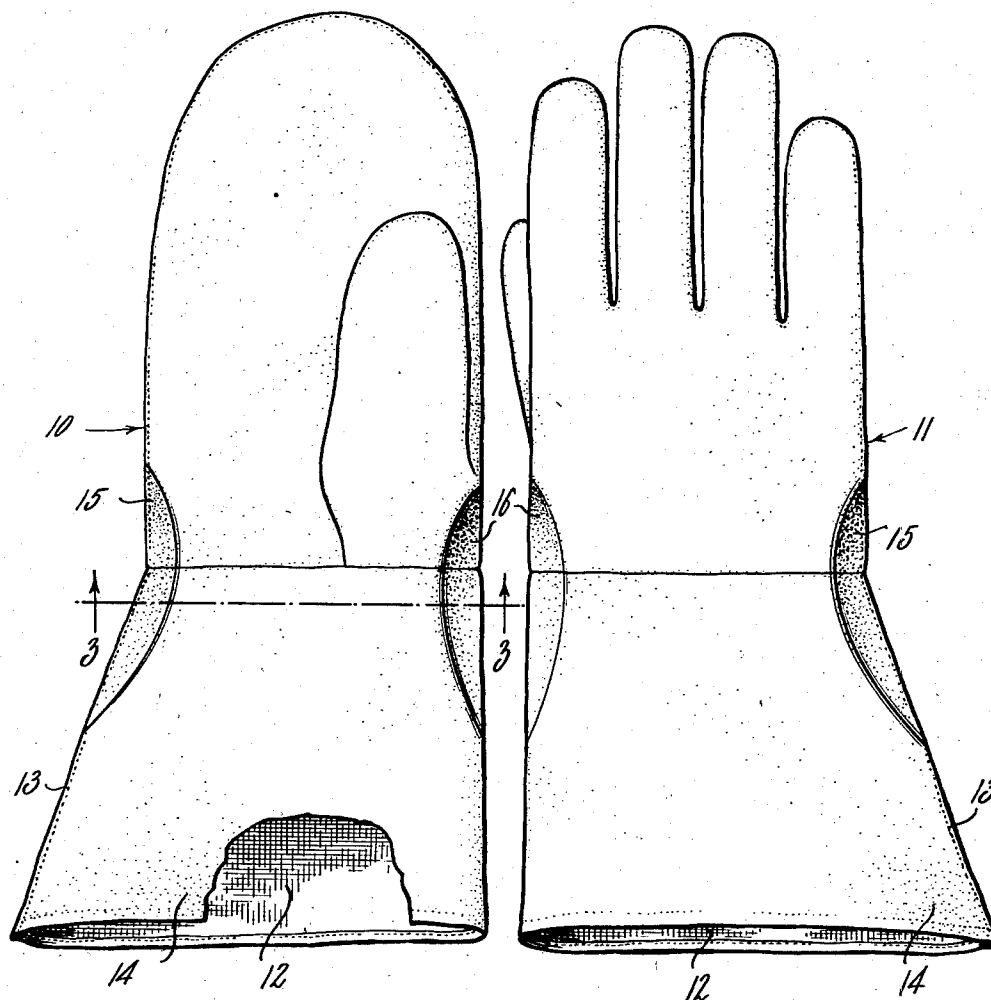
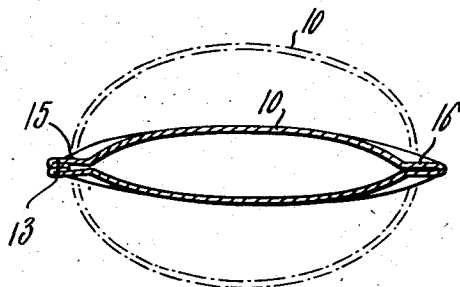


FIG. 3

INVENTOR.
VICTOR H. HURT
BY
Lester G. Audley
ATTORNEY

UNITED STATES PATENT OFFICE

2,378,773

GLOVE OR MITTEN

Victor H. Hurt, Cranston, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application February 20, 1943, Serial No. 476,527

2 Claims. (Cl. 2-162)

This invention relates to gloves or mittens of the gauntlet type, and more particularly to a novel construction whereby the wrist area is yieldingly held in snug engagement with the wrist.

Gloves or mittens which are not made of elastic material must be formed large enough at the wrist area to clear the hand when the glove or mitten is placed on the hand or removed therefrom, or they must be cut longitudinally at the wrist which is not desired in gauntlets.

Various means have been provided heretofore such as straps, buttons, snap-fasteners and the like for holding the wrist area of gloves or mittens in snug relation about the wrist, but one serious objection to these fastening means is that they need to be manually operated when the gloves are put on or taken off.

The present invention contemplates an extremely simple construction for use in gloves or mittens of non-stretchable material, which serves automatically to contract the wrist area thereof, to cause this area to embrace the wrist snugly.

Since the novel construction herein contemplated is as well adapted for use in gloves as in mittens the former construction alone will be mentioned in most cases hereinafter, but may be construed as covering both gloves and mittens.

The construction of the present invention has been developed primarily for use in gauntlet rubber gloves, such as woven fabric gloves having an outer coating of rubber, or non-stretchable rubber gloves, and wherein the wrist area which will not stretch appreciably must be made large enough to permit the hand to pass therethrough. Gloves of this type may be used an antiseptic gloves or to protect the hands from various liquids.

These gloves have to be vulcanized in order to give good service, and in accordance with the present invention, the looseness that is provided in the wrist portion of the glove about the wrist is taken up by forming a flat hinge-like fold at opposite sides of the wrist and by vulcanizing the glove material in this folded condition so that the rubber of the fold will thereafter yieldingly resist the opening of the fold to admit the hand. In this manner gloves are provided with a wrist area which while full enough to receive the hand, normally assume a retracted condition that embraces the wrist snugly.

The novel features of the present invention will be more fully understood from the following description when read in connection with the accompanying drawing; wherein:

Fig. 1 is a front view of a gauntlet mitten having the construction of the present invention;

Fig. 2 is a rear view of a gauntlet glove having the construction of the present invention, and;

Fig. 3 is a sectional view taken on the line 3-3 of Fig. 1, the fully extended condition of this portion of the mitten being shown in dot and dash lines.

The mitten 10 and glove 11 shown in the drawing may be formed of a woven fabric 12 cut and folded and then sewed at the side seam 13 and around the fingers and thumb in a well known manner to form an inexpensive work-type of glove or mitten.

The mitten 10 or glove 11 is then rendered impervious to liquids and gases by coating the entire outer surface thereof with rubber as indicated by 14. This may be done by placing the glove on a form that will hold it extended substantially as if a hand were inserted therein, and then repeatedly dipping the glove in a rubber solution such as a latex compound and drying.

However a quicker and less expensive way to provide the fabric glove or mitten with a rubber coating of appreciable thickness is to place in the glove or mitten a specially constructed form that is adapted, when connected with vacuum means to exhaust air from various portions of the interior of the glove. The glove and fingers are then completely covered with unvulcanized sheet stock, so that when air is exhausted from the form the stock will be held in close conformity with the contour of the fabric glove. The surplus rubber stock at the meeting edges is then removed and the rubber covered glove thus formed is vulcanized while a suction is maintained in the glove form.

During the vulcanization of the glove or mitten the construction of the present invention is readily imparted thereto by utilizing the above mentioned suction action to draw the glove material closely about the wrist so that the excess material in this area will assume the form of a flat hinge-like fold at each side of the glove or mitten as indicated by 15 and 16. After the rubber in the folded area 15 and 16 has been vulcanized in this flat condition it will yieldingly hold the fabric in this flat condition so as to automatically contract the wrist area about the wrist of the person wearing the glove. The strength of this folding action caused by vulcanizing the seam in the folded condition can be made as strong as desired by increasing the thickness of the rubber in this area.

It will be seen from the foregoing that as a

result of the present invention an extremely simple and practical construction for causing a glove or mitten to fit snugly about the wrist is secured.

While reference is herein made to rubber in the specification and claims, it is to be understood that various rubber-like materials capable of being vulcanized may be employed as the coating material 14, and the claims are to be so construed.

Having thus described my invention, what I claim and desire to protect by Letters Patent is:

1. A rubber coated glove or mitten of the gauntlet type having a wrist area that automatically contracts to embrace the wrist snugly, and formed of a rubber over fabric material that has no appreciable stretch, and provided with a full wrist area that has a normally flat hinge-like fold along the opposite edges of the gauntlet and wherein the folds are vulcanized

5 in a flat condition so that they yieldingly resist the opening of the fold to admit the hand and cause the glove or mitten to fit snugly about the wrist when in use and to tend to lie flat when not in use.

2. A rubber faced glove or mitten of the gauntlet type having a wrist area that automatically contracts to embrace the wrist snugly, and formed of a material that has no appreciable stretch, and provided with a full wrist area that has a normally flat hinge-like line of fold only in this wrist area and wherein the rubber in this area is vulcanized in a flat condition so that it yieldingly resists the opening of the fold to admit the hand and causes the glove or mitten to fit snugly about the wrist when in use and to lie flat when not in use.

VICTOR H. HURT.