

March 17, 1925.

1,529,907

A. MUELLER

MITTEN

Filed April 27, 1922

Fig. 3.

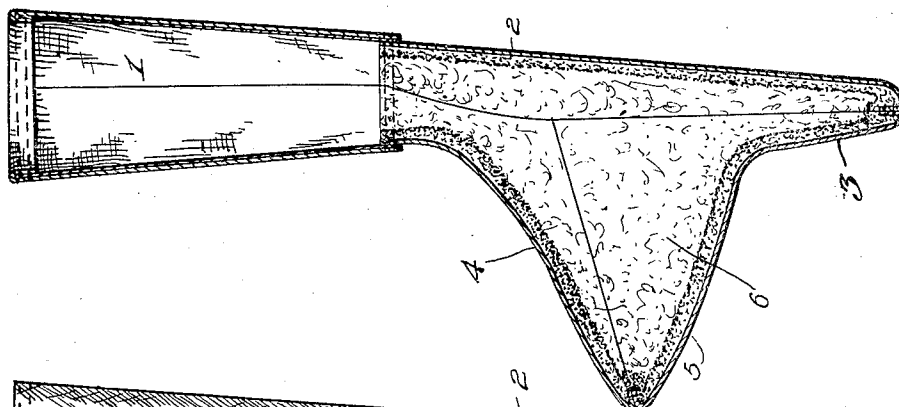


Fig. 2.

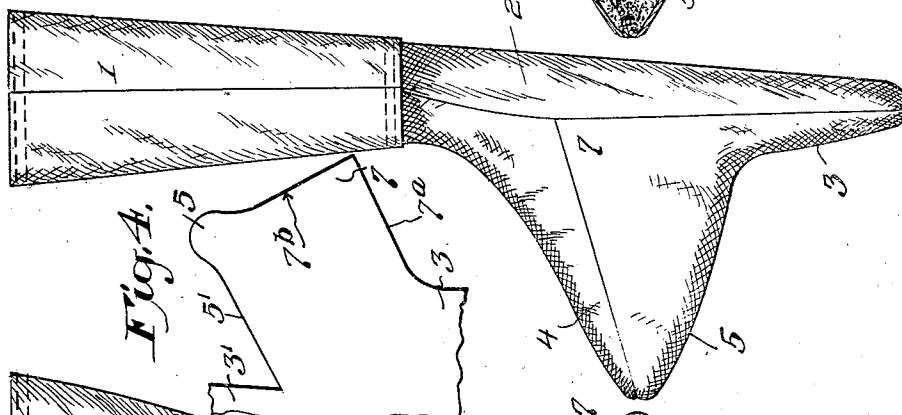
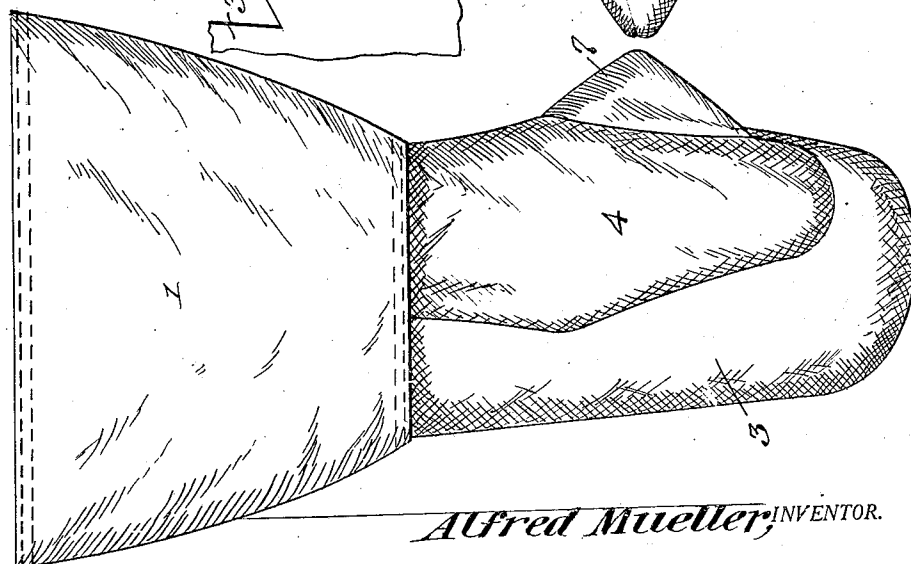


Fig. 4.



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MITTEN.

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To all whom it may concern:

Be it known that I, ALFRED MUELLER, a citizen of the United States, residing at Chippewa Falls, in the county of Chippewa and State of Wisconsin, have invented certain new and useful Improvements in Mittens, of which the following is a specification.

This invention has reference to improvements in hand coverings and more particularly to types of hand coverings known as mittens, and its object is to provide a type of mitten permitting manipulation thereof whereby to maintain the thumb of the hand warm.

In hand coverings, provision is usually made, especially in gloves, to cover the thumb and separate fingers, and, while this contributes, to an extent, to maintain the separate fingers warm, the fingers often become cold.

Unless provision may be specially made for the purpose, it becomes necessary to hold the glove with the free hand and pull it in such manner that the thumb may be retracted toward the palm of the hand before the thumb can be disengaged and withdrawn from that part of the glove normally housing the thumb and the latter be withdrawn into the palm of the hand for warming purposes.

When it is desired to replace the thumb in the ordinary thumb stall, the procedure just described must be reversed, this meaning that the thumb receiving portion of the glove must be held by the free hand and pulled in the proper direction to admit the insertion of the thumb into such thumb stall. This procedure demands that both hands be used whenever it is desired to either withdraw the thumb or reinsert it.

For an adequate understanding of the invention it is shown as applied to a gauntlet type of mitten with the hand receiving portion of the mitten lined with lamb's wool or some other adequate protection against the weather.

When mittens are employed for the purpose of protecting the hands, provision is made by this invention to permit the withdrawal of the thumb of the hand while still housed in the mitten so that without undue effort or the use of the other hand, either thumb may be withdrawn from the thumb stall and located in the palm of the hand individual thereto where the warmth of

the hand will quickly be transmitted to the thumb and warm the latter. In the course of time, the thumb will be warmed up to the desired temperature and then without any material effort the warmed thumb, then located in the palm of the hand, may be withdrawn therefrom and inserted in the thumb stall individual thereto without the necessity of using the other hand for the purpose. This is important because it does not demand any loss of control of the parts being operated, by the operator, and the thumb may be withdrawn from the thumb stall or reinserted therein at will.

In this manner, the operator, finding the thumb becoming cold, may readily cause the thumb to warm up and when so warmed, the thumb may be restored to the thumb stall to avoid any chilling of the thumb and numbing thereof to interfere with the use of the hand in the usual way.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawings, forming part of this specification, with the understanding that the invention is not confined to any strict conformity with the showing of the drawings but may be changed and modified so long as such changes and modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

In the drawings:—

Figure 1 is a face view of a gauntlet type of mitten.

Fig. 2 is a side elevation thereof, and,

Fig. 3 is a longitudinal section to indicate the interior lining of the mitten.

Figure 4 is a view of the pattern on which the palm and a portion of the thumb of the glove is cut.

Referring to the drawings, there is shown a gauntlet mitten having a gauntlet portion 1, a back portion 2, and a palm portion 3, supplemented by a thumb stall formed of a back portion 4, and a front portion 5 sewed together where meeting and also to the back portion 2.

The front portion 5 of the thumb stall is cut to provide the substantially pyramidal-shaped extension 7, clearly shown in Fig. 4. The extension 7, together with the front portion gives to the thumb stall a substantially rectangular contour, the edge 5', being sub-

stantially parallel with one side edge of said pyramidal-shaped extension 7. This extension 7 has one side edge 7^a sewed to the outside edge of the back portion 2, and its other side edge 7^b sewed to the outside edge of the back portion 4, and when the thumb is closed against the body of the glove as shown in Fig. 1, this extension bulges and assumes the position as shown, and when the thumb is projected at right angles as in the position shown in Fig. 2, the part of the palm portion where it merges with the extension 7 is drawn outwardly between the palm and the end 5 of the front portion forming an enlarged space, providing for the free movement of the hand within the mitten.

The structure of the mitten is such as to require a minimum number of parts: For instance, the gauntlet may be formed of either one or two parts, the back of the mitten above the gauntlet may comprise a single part and the back of the thumb stall may comprise a single part, so that in all the mitten may comprise five parts, each of which may be formed of a single member each cut from a single piece of skin or other material, which however may be supplemented by an interior cloth lining.

The body of the mitten, where inclosing the hand of the wearer is provided with a lining 6 preferably made of lamb's wool or other suitable material for the purpose.

In the natural spread position of the hand with the thumb out-stretched, said thumb projects at approximately right angles to the plane of the palm of the hand and is then housed in the thumb stall, holding the latter in similar position.

With the thumb in the stall, said stall may be brought flat against the palm of the mitten in position to grasp and hold reins or similar devices or to firmly grasp or hold some other object between the thumb and palm of the hand, the fingers being lodged within the palm portion of the mitten which is lined with lamb's wool or other material employed and so maintain the hand and finger warm.

When the thumb is within the thumb stall it may be brought flat against the object to

be grasped giving a firm hold on such object with the thumb inserted in the lamb's wool and hence protected to a material extent by the lamb's wool to maintain the thumb in a warm condition.

Should, however, the thumb become chilled, the enlarged freedom of movement possessed by the thumb permits it to be withdrawn from the thumb stall and directed into the portion of the mitten communicating directly with the palm of the hand and hence there is ample space for withdrawing the thumb from the thumb stall and presenting it into the palm portion of the mitten so as to be brought into direct contact with the fingers of the hand wherefore the thumb becomes rapidly warmed by contact with the fingers.

After the chilled thumb has become warmed and its normal resistance to the cold has been restored the thumb may be again introduced into the thumb stall to be again warmed up and have its full powers restored to it, the thumb being the strongest grasping member of the hand.

What is claimed is:—

A mitten of the character described, comprising a back portion, a palm portion and a thumb stall formed of an independent back portion and a front portion integral with said palm portion, said integral front portion having formed at the outer edge thereof a substantially pyramidal-shaped extension, one edge of which extension is substantially parallel with one edge of said integral portion giving to said integral portion a substantially rectangular contour, one of the edges of said pyramidal-shaped extension being secured to the outer edge of the back portion and the other edge to the outer edge of said independent back portion to provide, when the thumb of a hand in the mitten is extended at right angles, an enlarged space sufficient to permit the removal of the thumb from the stall without shifting the body of the mitten.

In testimony whereof, I affix my signature hereto.

ALFRED MUELLER.