

(No Model.)

W. S. RICHARDSON.
FASTENER FOR GLOVES.

No. 557,704.

Patented Apr. 7, 1896.

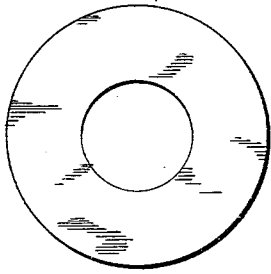


Fig. 1.



Fig. 2.

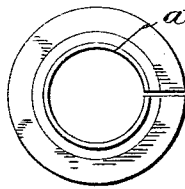


Fig. 3.



Fig. 4.

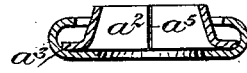


Fig. 5.

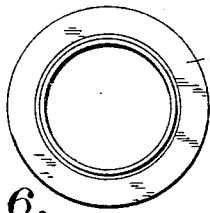


Fig. 6.

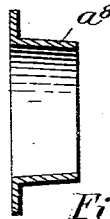


Fig. 7.

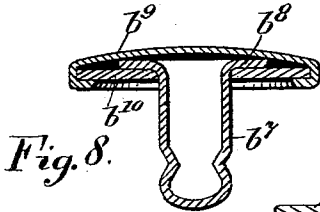


Fig. 8.

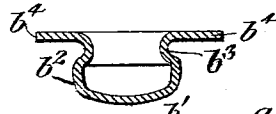


Fig. 9.

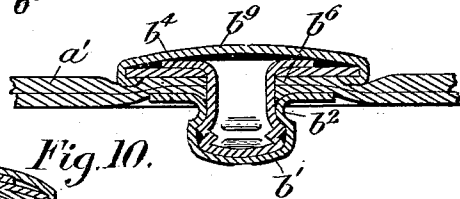


Fig. 10.

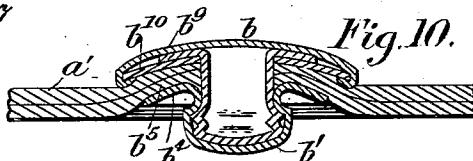


Fig. 11.

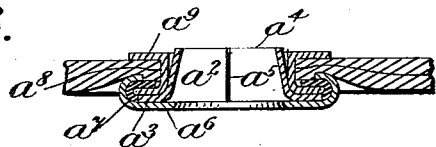
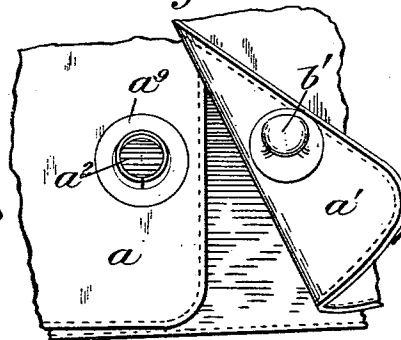


Fig. 12.

Fig. 13.

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UNITED STATES PATENT OFFICE.

WILLIAM S. RICHARDSON, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE BALL AND SOCKET FASTENER COMPANY, OF SAME PLACE.

FASTENER FOR GLOVES.

SPECIFICATION forming part of Letters Patent No. 557,704, dated April 7, 1896.

Application filed February 18, 1892. Serial No. 421,946. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. RICHARDSON, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Fasteners for Gloves, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention relates to an improvement in fasteners for gloves, comprising a conical flanged holder or socket mounted upon the flap or section of a glove which is stationary, or the one next the wrist when the glove is on, and projected upwardly through an opening or hole in said glove from the under side thereof, combined with an annular or circular holder upon the under side of the glove, into which the flange of the cone extends, and also with a flanged eyelet projected downward through said hole in the glove from the upper surface of the glove-flap, the flange of said eyelet resting upon the upper surface of the glove and surrounding the cone, the barrel of said eyelet extending through said hole and its edge being turned outward into the circular or annular holder below. There is used with this part of the fastener a ball or male member, which is attached to the under surface of the upper flap of the glove to depend downward from it. This ball member preferably comprises a hollow section in the shape of a ball with a neck, from which extends a flange which rests upon the inner surface of the glove-flap. There is formed a hole in the glove in line with the hole in the neck of the ball, and through this neck from the upper surface of the glove there is projected a tubular fastening the barrel of which extends through the hole in the glove-flap into the neck of the ball, the inner end of which is changed in shape in the ball to form anchoring extensions and the outer end of which, above the glove-flap, has a flange which is contained in a cap or button-head.

Referring to the drawings, Figure 1 is a view in plan, and Fig. 2 in section, of the blank which is formed into the annular or circular socket-holder. Fig. 3 is a view in plan, and Fig. 4 in section, of the conical

flanged holder or socket. Fig. 5 is a view in section representing the two parts assembled without the collet. Fig. 6 is a view in plan, and Fig. 7 in section, of the flanged fastening-eyelet. Figs. 8 and 9 are views of the two parts of the ball or male member. Fig. 10 represents them as secured together and to the upper glove-flap. Fig. 11 is a view in section of the socket member with the collet. Fig. 12 is a view showing a portion of the wrist of a glove to show the relation which the two members of the fastening bear to each other when secured to the flaps thereof. Fig. 13 illustrates the ball member as more within the cap than in Fig. 10.

a is the under flap of a glove or the one bearing the female member of the fastener, and a' is the overlapping or upper flap of the glove or the one which bears the male member of the fastener. In the flap a there is formed a hole, and through this hole from the under side of the flap there is projected the conical part which forms the socket of this glove-fastener.

While I have referred to this part as the "conical" part I would not be understood as meaning a part which has the shape of a true cone, but a part which is a frustum of a hollow cone. This piece is lettered a^2 . It has the flange a^3 , the upper opening a^4 , and the slit a^5 , which preferably extends through the side and flange. The flange a^3 is held or inclosed in part by a holder a^6 extending about its edge. This holder may be annular in shape, if desired, and there is used in connection therewith a collet a^7 , as shown in Fig. 11.

a^3 is an eyelet, the flange a^3 of which rests upon the upper surface of the flap a . The barrel extends downward through the hole therein about the conical piece, and the lower edge of the barrel is turned by the conical side of the piece a^2 between the flange a^3 and the turned-in section of the holder or beneath the collet. The conical section of the piece a^2 should not be high or long enough to extend much, if any, above the flange a^3 of the fastening-eyelet, and the holder a^6 , if made annular, provides room for the ball or male member in extension of that provided by the socket-piece. It will be seen that the inner

glove-flap is thus provided with a holding-section of a fastener, the entrance to which is upon a line with or just above the surface of the glove, and that this result is attained 5 by projecting the holder from the under surface of the glove-flap.

Any ball member may be used with my socket member, but I prefer the ball member shown in Figs. 8, 9, 10, and 13, where b of the 10 fastener comprises the ball part or piece b^1 , which has the ball proper, the neck b^3 , and the flange b^4 . The flange b^4 rests against the under surface b^5 of the upper flap a' . This ball-piece preferably is hollow and there is 15 formed in the flap a' a hole b^6 , with which the hole of the ball lines. There is extended downward from the upper surface of the flap a' , about the hole b^6 , a stud or fastening b^7 , preferably hollow, which extends through the 20 hole b^6 and the hole in the neck of the ball-piece b^1 , and is changed in shape in the cavity of the ball to fasten it firmly to the inner surface of the glove-flap. This stud has a flange b^8 , which may rest upon the upper surface of 25 the glove-flap, about the hole or upon the surface of the washer b^{10} , and in the drawings this latter construction is shown, and it preferably is covered by a cap or button top b^9 , the edge of the cap or button top lapping directly upon the flange or upon the washer b^{10} . 30

If desired, the edge of the button or cap may extend downward somewhat, so as to cause the material by the flange b^4 of the ball to be pressed upward or into the cavity formed 35 by the downward-extending edge of the cap. (See Fig. 13.)

A fastener of this construction and application is very desirable because of its cheapness and because it raises no projection or a 40 very slight projection from the glove, the two parts being so arranged and combined as not to materially increase the thickness of the glove from the under side of the inner flap to the outer surface of the outer flap. It is also 45 a very considerable advantage to have the ball member secured to the under surface of the upper flap and movable and the socket

member secured to the under surface of the lower flap and stationary.

While I have spoken of the piece a^2 as a 50 "frustum of a hollow cone," I do not mean to be understood as limiting this piece to this exact shape, as the same effect would be obtained by carrying up the sides of the piece 55 straight, or substantially the same bore, and turning its upper edge inward to provide a narrow flange forming the contracted opening to the socket. This flange then acts additionally as a finish to the edge of the socket, which projects slightly above the flange of 60 the eyelet or the material.

As a rule I prefer that the cap for the ball member be rather deep, in order that the ball itself may be partially inclosed by the cavity formed in forcing the material therein, as 65 shown in Fig. 13, because with such a construction of ball and cap the two members will draw somewhat better without becoming disengaged.

Having thus fully described my invention, 70 I claim and desire to secure by Letters Patent of the United States—

An improvement in fasteners for gloves, comprising a capped socket or ball holder projecting upward from the inner surface of 75 an inner glove-flap through a hole therein, and comprising a slit piece a^2 , having a flange a^3 , a holder a^6 , shaped substantially as specified—the flange a^3 and holder a^6 being on the 80 under side of the lower glove-flap connected with a collet a^7 —and the flanged fastening-eyelet a^9 , the flange of which is upon the upper surface of the lower flap and the inner 85 end of which is turned into the holder, by coming into contact with the outer surface of the piece a^2 and with the upper turned-in flange of the collet, with the ball member held upon the under surface of the upper glove-flap by a fastening-stud, as and for the purposes described.

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Witnesses:

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