F. S. CARR.

FASTENER.

APPLICATION FILED SEPT. 14, 1917.

1,300,577.

Patented Apr. 15, 1919.

Fig. 1.

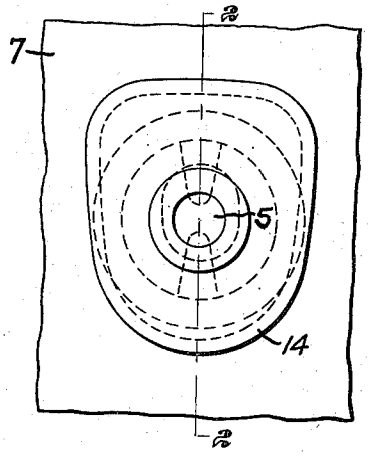


Fig. 2.

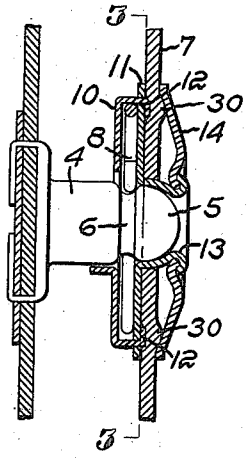
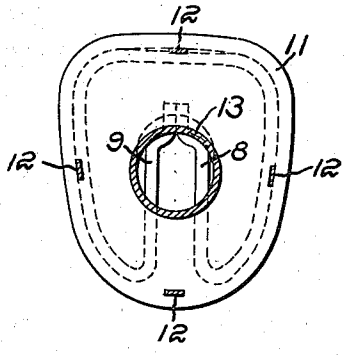


Fig. 3.



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UNITED STATES PATENT OFFICE.

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FASTENER.

1,300,577. Specification of Letters Patent. Patented Apr. 15, 1919.

Application filed September 14, 1917. Serial No. 191,338.

To all whom it may concern:

Be it known that I, FRED S. CARR, a citizen of the United States, and a resident of Newton, in the county of Middlesex, Commonwealth of Massachusetts, (whose post-office address is care of Carr Fastener Company, Cambridge, Massachusetts,) have invented an Improvement in Fasteners, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention pertains to improvements in stud and socket fasteners. Among the objects of the invention is to provide a simplified socket and simplified means of attachment thereof to the fabric, while reducing to a minimum the number of apertures which must be cut in the fabric.

In the drawings:

Figure 1 is a front elevation of a preferred form of stud and socket fastener constituting one embodiment of my invention;

Fig. 2 is a section on the line 2—2 of Fig. 1;

Fig. 3 is a section on the line 3—3 of Fig. 2.

Referring to the drawings, I have shown a stud 4, having a head 5 presenting a recessed portion 6. I have also shown a socket for engagement with fabric 7, and comprising spring jaw means herein shown as jaws 8, 9 adapted to engage the recessed portion 6 of the stud 4 and held in a casing 10, which is preferably, but not necessarily, adapted to be positioned as shown on that side of the fabric 7 on which the stud 4 is located. The casing 10 is preferably provided with a front plate 11 clenched thereto by short prongs 12. The plate 11 is preferably provided with a stud supporting aperture, having sides 13 adapted to be expanded at their ends to firmly engage a clench plate 14, which is preferably, as shown, located on the front or opposite side of the fabric 7, and which is preferably died to present a convex exterior having an aperture at its center. The sides of the plate 14 near the aperture are preferably depressed so that when the part 13 of the plate 11 is expanded or rolled over to be clenched on the plate 14, a regular and ornamental appearance is presented.

The convex shape of the plate 14 renders this plate very strong and insures the firm gripping of the fabric adjacent the edges where such gripping is most important. Opposite the prongs 12 indentations 30 are provided so that the fabric is pressed by the prongs 12 into the indentations 30, thereby securing a firm grip on the fabric. The operation of the jaw mechanism may, if desired, be the same as in any ordinary commercial fastener, the improvement being primarily in the means of attaching the socket to the fabric. It will be understood that the means of attachment is applicable to sockets wherein the socket and jaws are located on the opposite side of the fabric from that side on which the stud is located.

While I have shown and described one embodiment of my invention, it will be understood that changes involving substitution, alteration, omission and reversal of parts may be made without departing from the scope of my invention, which is best defined in the following claims.

Claims:

1. A socket for stud and socket fasteners having a jaw-containing casing, a projection from one side of said casing to receive and support the head of the stud, said projection being adapted to pass through the fabric, and a plate on the opposite side of said fabric having an aperture therethrough, said projection passing through said aperture and being expanded to firmly engage said plate.

2. A socket for stud and socket fasteners having a jaw-containing casing, a projection from one side of said casing to receive and support the head of the stud, said projection being adapted to pass through the fabric, and a convex plate on the opposite side of said fabric having an aperture therethrough, said projection passing through said aperture and being expanded to firmly engage said convex plate.

3. A socket for stud and socket fasteners comprising, in combination, a jaw-containing casing for application to the same side of the fabric on which the stud is located, said casing having a tubular projection therefrom passing through the fabric and providing a support for the head of the stud, a plate on the opposite side of the fabric having an aperture therethrough, said tubular projection passing through said aperture, and the end of said tubular projection being expanded to firmly engage the outside sur-

face of said plate, thereby to firmly grip said fabric between said casing and said plate.

4. A socket for stud and socket fasteners comprising, in combination, a jaw-containing casing for application to the same side of the fabric on which the stud is located, said casing having a tubular projection therefrom passing through the fabric, a plate on the opposite side of the fabric having an aperture therethrough, said tubular projection passing through said aperture, and the end of said tubular projection being expanded to firmly engage the outside surface of said plate, thereby to firmly grip said fabric between said casing and said plate, said casing having projections therefrom entering the fabric, and said plate having corresponding depressions whereby said fabric is firmly gripped between the edges of said plate and the edges of said socket.

5. A socket for stud and socket fasteners comprising, in combination, a jaw-containing casing having a tubular projection therefrom extending through the fabric and providing a support for the head of the stud, a convex plate having an aperture therethrough on the opposite side of the fabric, said plate being depressed around the edges of said aperture, whereby said projection may be expanded to firmly engage said plate while presenting a finished appearance on the exterior side thereof.

6. A socket for stud and socket fasteners having a casing comprising the plates 10 and 11, the plate 11 having a tubular projection 13 therefrom projecting through the fabric, a clench plate 14, said tubular portion 13 being expanded to engage that side of the plate 14 which is farthest removed from the casing.

7. A socket for stud and socket fasteners comprising, in combination, a casing having plates 10 and 11, prongs 12 projecting from the plate 10 and clenched on the plate 11 to hold said plates 10 and 11 in proper relative position, a tubular projection 13 unitary with the plate 11 and passing through an aperture in a clench plate 14, said plate 14 presenting depressions 30 opposite the prongs 12, and said tubular portion 13 being expanded to firmly press the plate 14 toward the casing, thereby to firmly grip the fabric at the edges of the plate 14 and between the projections 12 and the depressions 30.

In testimony whereof, I have signed my name to this specification.

FRED S. CARR.