No. 615,336. Patented Dec. 6, 1898.

G. E. ADAMS.

SEPARABLE FASTENER.

(Application filed Jan. 24, 1898.)

(No Model.)

Fig. 1.

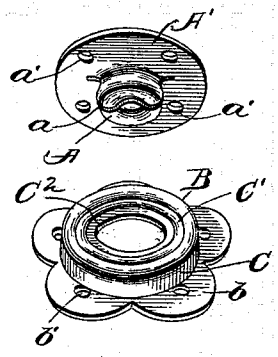
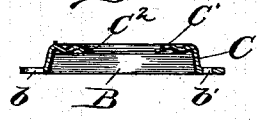


Fig. 2.



Fig. 3.



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UNITED STATES PATENT OFFICE.

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SEPARABLE FASTENER.

SPECIFICATION forming part of Letters Patent No. 615,336, dated December 6, 1898.

Application filed January 24, 1898. Serial No. 667,759. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. ADAMS, a citizen of the United States, and a resident of New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Separable Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the letters of reference marked thereon.

This invention relates to improvements in separable buttons or fasteners such as are used on garments for connecting the adjacent edges or ends of webbing or fabric.

Referring to the accompanying drawings, Figure 1 is a perspective view of a separable fastener embodying my present improvements, the two members being shown separated. Fig. 2 is a cross-sectional view with the two members associated. Fig. 3 is a sectional view through the socket member alone.

Like letters of reference in the several figures indicate the same parts.

The letter A indicates the stud member, which is preferably struck up from an integral piece of metal and is provided with a transverse cut *a*, so as to render the stud elastic in cross-section and adapted to enter an aperture which is smaller in diameter than the maximum diameter of the head. The flange A′ of the stud member is preferably provided with apertures *a*′, by means of which it may be fastened to the goods or garment, the edges of which are to be united.

The letter B indicates the socket member, which in this instance is also struck up from sheet metal and is in the form of an annulus, which will not yield when the stud member is inserted therein. This socket member is provided with a surrounding base-flange *b*, preferably scalloped, as shown, and adapted to be secured to the face of the garment or fabric by threads or stitches passed through apertures *b*′ in said flange *b*. Extending upwardly from the flat base-flange is a dome or projection having a side wall C and a top portion C′, provided with a central aperture C^2, constituting the rigid entrance-opening for the stud of the member A. The general plane of the top of the dome or projection is parallel with the plane of the base-flange; but said top C′ is corrugated concentrically with the central entrance-opening, thereby not only strengthening the plate, but insuring a bearing of the base-flange A′ of the stud member remote from the edge of the central opening, and thereby preventing the stud from rocking out of engagement when lateral draft is applied.

By reference to Fig. 2 it will be seen that the relative positions of the parts when the two members are brought together is well illustrated, the substantially flat base-flange of the stud member contacting or taking a bearing on the top of the dome at the outer edge of the latter or at a point remote from the entrance-aperture. It will be further seen from Figs. 2 and 3 that the edge of the entrance-aperture with which the neck of the stud coöperates to resist lateral strain is not depressed to any appreciable extent below the general level of the top of the dome, or, in other words, the whole top of the dome, including the holding edge, is in the same general plane.

This construction of fastener has been found to be exceedingly efficient and cheap to manufacture. There is little or no danger of the parts becoming separated through lateral draft, and by forming the projection in the socket member in the manner stated a chamber or recess for the head of the stud member is formed above the plane of the goods to which the socket member is applied.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a separable fastener, the combination with the stud member having a substantially flat base-flange, of a socket member with a substantially flat base-flange having apertures adapting it to be secured to the top surface of the garment, and a central dome or projection having a central entrance-aperture formed therein, the top of the dome or projection being extended around the entrance-aperture in a plane parallel with the base-flange whereby the outer edge of the dome is at substantially the level of the entrance-aperture and forms a bearing for the

flange of the stud member remote from the entrance-aperture; substantially as described.

2. A socket member for separable fasteners with a base-flange adapted to rest on the top surface of the garment and provided with apertures for the attachment of the member, a central annular projection having a central aperture with its holding edge in substantially the plane of the top of the projection, the top of the projection lying in a plane parallel with the base-flange and being formed into a series of annular ribs constituting bearings around the holding edge of the aperture; substantially as described.

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