

(No Model.)

J. R. FARRELL.
BUTTON FASTENING.

No. 539,424.

Patented May 21, 1895.

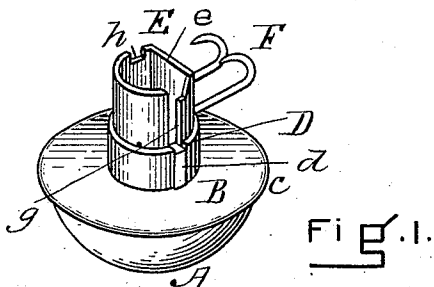


Fig. 1.

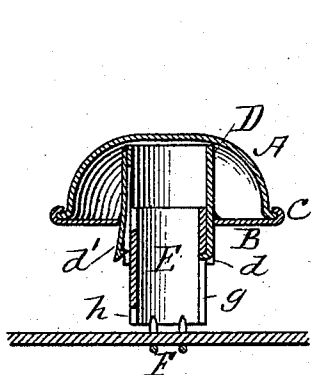


Fig. 3.

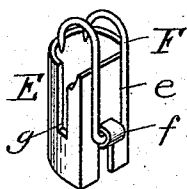


Fig. 2.

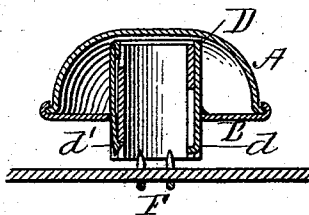


Fig. 4.

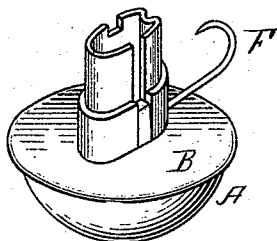


Fig. 5.

WITNESSES

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JOHN R. FARRELL, OF BOSTON, MASSACHUSETTS.

BUTTON-FASTENING.

SPECIFICATION forming part of Letters Patent No. 539,424, dated May 21, 1895.

Application filed June 2, 1894. Serial No. 513,327. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. FARRELL, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Button-Fastenings, whereof the following is a full, complete, and exact description, sufficient to enable others skilled in the art to make and use my invention, reference being had to the accompanying drawings, forming a part thereof.

The ordinary metallic or other button consists of a cap and collet, the collet forming the lower part of the button head and having attached to it an eye through which threads are passed to fasten the button upon the cloth.

Various methods have been devised for the purpose of combining a button head with means for fastening it, many of which involve a reorganization of the parts of the button which convert the button head into a socket or button hole member, while the button proper is reduced to an insignificant appearing knob.

The present invention, however, proposes to retain the ordinary button hole and to employ the button in the usual way.

In the drawings, Figure 1 represents a perspective of the present invention inverted. Fig. 2 is a perspective of the slide and sleeve, and it has hooks by which the button is fastened to the cloth. Fig. 3 is a transverse section of the apparatus when placed in position to attach, and Fig. 4 is a transverse section of the parts attached. Fig. 5 is a perspective of the apparatus inverted, where but one hook is employed instead of two.

Like letters represent like parts in all the figures.

A is the cap. B is the collet. They are seamed together at their edges, as shown at C. A centrally located sleeve D is firmly attached to the collet C and projects beyond it a sufficient distance to make a space between the fabric to which the button is attached and the collet large enough for the cloth or fabric surrounding the button-hole to be disposed therein. This sleeve is fixed in its relations to the cap and collet and has a proper and nearly uniform margin of collet all around it, the collet being thus ring-shaped instead of disk-shaped, as is usual. Inside of this sleeve D is fitted a slide E which is flattened

on one side, as shown in Fig. 2 at *e*, on which flattened side an ear *f* is made to which ear is pivoted the double or single hook F, as shown in Figs. 1, 2, and 5. This sleeve D has attached to it on one side a stop *d* with a hooked end, which hook projects into the deep slot *g* of the slide. On the opposite side of the slide from the deep slot *g* there is a shallow slot *h*, and on the opposite side of the sleeve from the stop *d*, there is a similar hook-ended spring *d'*. The spring and stop serve as latches to confine the slide at its proper place in the sleeve D, the latch of the stop *d* allowing the slide to be pulled out of the sleeve far enough to permit the hook F to open out, while the latch or spring *d'* keeps the slide E within the sleeve D and prevents the hook F from opening out. These hooks F should be sufficiently long in the bill to have the points drawn within the limit of the sleeve when the hook is in position parallel to the axis of the slide and the slides should go up far enough into the sleeve to draw the edges of the sleeve into close contact with the cloth to which the button is attached.

Of course, the sleeve D may be attached to the cap or button head A without the intervention of the collet or bottom plate B; but this would not be as firm a construction as the one shown in the drawings. Of course also, the sleeve could be attached to the collet only and the cap omitted, but this would not be a very ornamental contrivance.

I have described the hook F as hinged to the slide E by means of the ear *f*. This detail however of fastening the hook to the slide is not an essential of the invention, because any sort of a hinge between the side of the slide and the fastening hook will do.

One principal advantage of my invention is that it permits the button to be easily detachable from the fabric or garment to which it may have been attached and without injury to the fabric, garment or button. This is of consequence, because it is very often necessary to change the location of buttons in relation to the edge of a garment, sometimes to secure a better fit of the garment and for other reasons. To so release or detach the button it is simply necessary to draw out the spring *d'* sufficiently to release the slide E, when it may be moved upon the sleeve D

sufficiently to permit the hook F to be released from the fabric.

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

1. As an improved article of manufacture, a button head provided with a shank, combined with a hinged hook, and a sleeve movable in relation to the said shank, and thereby adapted to lock and unlock the said hook when the latter is engaged with the fabric or article to which the button is to be attached.

2. The combination of a slide E, a hook F hinged thereto, a sleeve D concentric with the axis of said slide and furnished with means for retaining said slide within said sleeve when inserted to its full depth, and a button head or cap to which said slide is medially or immediately attached, substantially as and for the purpose described.

3. In a button, the combination of a cap

and collet, of a central sleeve, a slide provided with a hook, and means for detachably fastening the slide within the sleeve.

4. The combination with a button head provided with a central sleeve, of a slide fitting within said sleeve and provided with a hook which is hinged thereto, said sleeve being flattened on the side to which said hook is hinged, and a latch for detachably connecting said slide and sleeve.

5. The combination with a button head having a shank or sleeve, of a slide movable with relation to said shank or sleeve and provided with one or more hooks, and a latch for holding said slide and shank or sleeve in fixed relation to each other to retain said hook or hooks in the fabric of the garment.

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Witnesses:

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