

(No Model.)

P. GOLDSMITH.
BUTTON ATTACHMENT.

No. 580,392.

Patented Apr. 13, 1897.

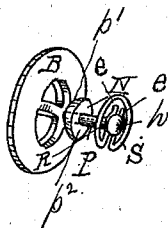


FIG 1

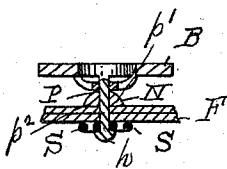


FIG 2

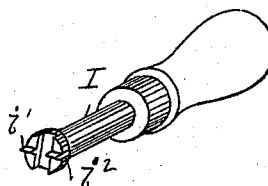


FIG 4

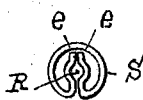


FIG 3

WITNESSES

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PAUL GOLDSMITH, OF TROY, NEW YORK.

BUTTON ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 580,392, dated April 13, 1897.

Application filed October 23, 1896. Serial No. 609,777. (No model.)

To all whom it may concern:

Be it known that I, PAUL GOLDSMITH, of the city of Troy, county of Rensselaer, and State of New York, have invented new and useful Improvements in Button Attachments, of which the following is a specification.

My invention relates to that class of button attachments which are used to connect buttons to apparel garments without the use of a needle and thread, by which on a button coming off the wearer of the garment may easily attach one to take its place; and my invention consists in constructing a button with a pin, a holding-plate, and a spring-fastener of peculiar form, by which a button may be attached, as will be more fully described in the specification and detailed in the claim.

Accompanying this specification to form a part of it there is a sheet of drawings containing four figures, illustrating my invention.

Of the illustrations, Figure 1 is a perspective of the device shown in position as when attached, but with the fabric omitted. Fig. 2 is a diametrical section taken through the button, the holding-pin, the spring, and the garment material. Fig. 3 is a plan view of the holding-spring illustrated as detached from the other parts, and Fig. 4 is a perspective of the implement used to attach the button.

The several parts of the apparatus thus illustrated are designated by letter-reference, and the function of the parts is described as follows:

The letter B designates the button.

N indicates the staying-plate; P, the pin, having a head *h* at its lower end, with its upper end connected to the button; S, a keeper-spring, and F the garment material to which the button is attached.

The spring S is made of wire of a circular form, having inturned ends *ee*, each of which is oppositely bent outwardly and then inwardly to form the binding and gripping recess R.

The staying-plate N preferably has one convex surface *p'* and a flat surface *p''* and is made of rubber, and as thus made the parts are connected to attach the button in the following manner: The pin P is passed through the fabric F and through the staying-plate N, the latter having its flat surface *p''* resting

on the material. After this has been done the spring S is passed on over the pin between its head *h* and the material, with the recess R grasping the pin between its head and the fabric material. This is best done by using the implement I, the projections *i'* *i''* being inserted between the sides of the spring, and by then turning the implement so as to spread out the sides of the spring and thus open the recess R for the reception of the pin-shank inside of the head *h*. As thus made and arranged to be used, a very strong and easily-connected attachment for buttons is produced, and in which any form of button having a projecting pin can be used.

By making the head *h* exteriorly convex the spring can be forced down over the head to grasp beneath the latter the pin, between the rim of the head and the fabric, and thus cause the staying-plate N to wedge and hold the button securely as attached, and as thus constructed differing from the action of a like form of spring to be sidewise entered upon the shank or pin of a cuff-button to loosely slide thereon, so as to prevent the cuff-button from unbuttoning.

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

In a fastener attachment for buttons the combination with the button B, provided with the pin or shank P formed integrally therewith, and at right angles thereto, and having a head exteriorly convex; of the elastic staying-plate N, made of rubber and provided with a passage-way whereby it may be passed on over the pin, and having one convex face *p'*, adapted to engage with the button and one flat face *p''*, to engage with the fabric with which the button connects; and the circular spring S, made of wire and having the inturned ends *e, e*, and the interiorly-formed recess R, adapted to be passed on over the head *h*, to grasp the pin between the rim of the head and the material to which the button attaches, substantially in the manner as and for the purposes set forth.

Signed at Troy, New York, this 11th day of September, 1896, and in the presence of the two witnesses whose names are hereto written.

PAUL GOLDSMITH.

Witnesses:

W. E. HAGAN,
CHARLES S. BRINTNALL.