

No. 809,351.

PATENTED JAN. 9, 1906.

E. WÖTZEL.

FASTENING DEVICE.

APPLICATION FILED MAY 24, 1905.

Fig.1.

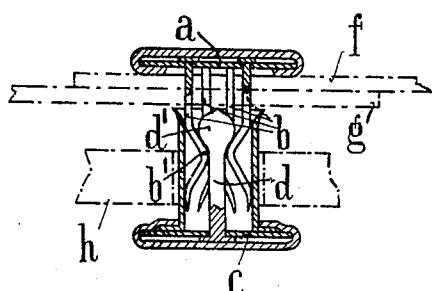


Fig.2.

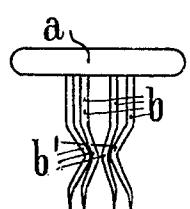


Fig.4.

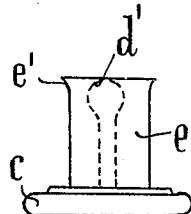


Fig.3.

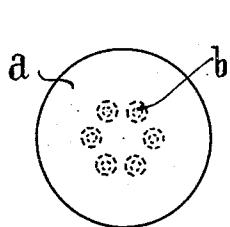


Fig.5.

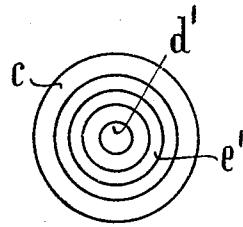
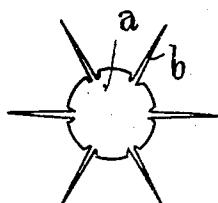


Fig.6.



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UNITED STATES PATENT OFFICE.

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FASTENING DEVICE.

No. 809,351.

Specification of Letters Patent.

Patented Jan. 9, 1906.

Application filed May 24, 1905. Serial No. 262,052.

To all whom it may concern:

Be it known that I, EMIL WÖTZEL, a subject of the German Emperor, and a resident of Zwickau, Germany, have invented a new and useful Improved Fastening Device, of which the following is a specification.

The subject-matter of the present application relates to a fastening device which can be readily unfastened and which may be called a "button-pin."

It consists of two parts adapted to be connected together by simply inserting the one in the other, said parts being capable of being unfastened by means of an axial pull without a previous release of special connecting devices.

In the accompanying drawings, which illustrate a fastener according to the present invention, Figure 1 shows a longitudinal section through the two parts, which are shown connected with one another in the position they occupy during use. Figs. 2 and 3 show, respectively, in side elevation and plan, that part of the fastener which is pinned through the material of the article of clothing or the like in question. Figs. 4 and 5 show, respectively, in side elevation and plan, that part of the fastener which serves as a socket for the reception of the other part. Fig. 6 shows, by way of example, another form in which the part shown in Figs. 2 and 3 may be manufactured.

The head or pin portion (represented in Figs. 2, 3, and 6) is formed by means of a plate *a*, upon which the resilient pins or needles *b*, arranged in a circle and formed with similar inward bends *b'*, are arranged in any desired manner. In the case of the form of construction according to Figs. 1, 2, and 3 the pins are riveted on and the connection is covered over by means of a plate the edge of which is turned over. In the case of the form of construction according to Fig. 6 the plate and the pins are stamped out of one piece. The base or socket portion (represented separately in Figs. 4 and 5) consists of a plate *c*, with which the (at *e'* somewhat outwardly bent) hollow cylinder or socket *e* is rigidly connected. Moreover, the plate *c* carries at its middle the shank or stem *d*, which is provided with a roll-shaped or bulb-

shaped thickened head. If now the socket *e* be pushed over the pins *b*, the shank *d* enters between the latter, and thereby forces the resilient bends *b'* outward, whereupon the latter are again forced together behind the head *d'* of the shank *d*, and thus render the engagement secure. On account of the form of the shank-head *d'* and the socket *e*, inclosing the pins *b*, an opening of the fastener or button-pin by a lateral pull or pressure is rendered impossible. On the contrary, the connection of the two parts of the fastener can by means of a suitably-strong axial pull be unfastened without a previous release of special connecting devices being necessary.

On using the fastener the pins *b* are stuck through the material in question or through the portions *f g* of material which are to be held together, after which the other portion or socket of the fastener, the parts of which are designated by *c d e*, is pressed on.

h represents the section of a buttonhole or loop placed over the neck of the portion illustrated in Figs. 4 and 5.

The fastener according as it is to be employed for connecting two pieces of material or for fastening a buttonhole or loop is made shorter or longer.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A fastening device of the character described, consisting of a head portion, comprising a plate and a plurality of resilient pins arranged in a circle and secured to said plate, each of said pins having an inward knee-shaped bend, and a base portion, comprising a plate, a socket attached to the same, and a central shank arranged in said socket and having a head, the bends of the pins being adapted to engage behind said shank-head when the head portion is in engagement with the base portion.

2. A fastening device of the character described, consisting of a head portion, comprising a plate, a plurality of resilient pins arranged in a circle and riveted to said plate, each of said pins having an inward knee-shaped bend, and a plate secured to the former plate and covering over the riveted ends of said pins, and a base portion, com-

prising a plate, a socket attached to the same, and a central shank arranged in said socket and having a head, the bends of the pins being adapted to engage behind said shank-head when the head portion is in engagement with the base portion.

5 In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

EMIL WÖTZEL.

Witnesses:

WOLDEMAR HAUPT,
HENRY HASPER.