

(No Model.)

E. S. SMITH.
GARMENT FASTENER.

No. 520,545.

Patented May 29, 1894.

Fig. 1.

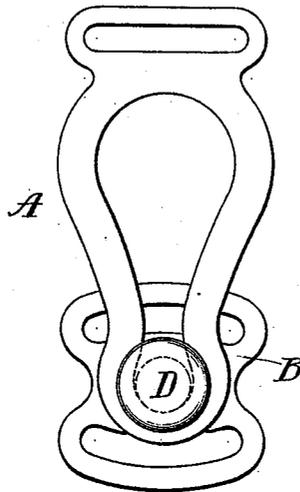


Fig. 2.

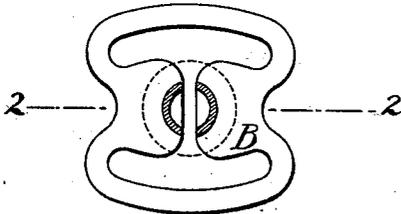


Fig. 4.

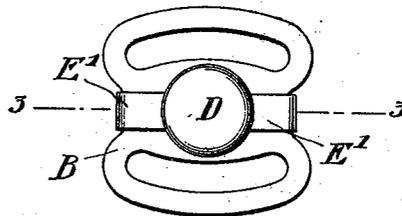


Fig. 3.

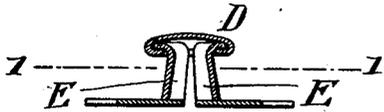
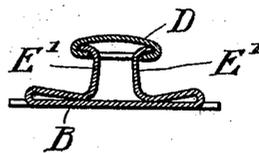


Fig. 5.



WITNESSES:

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EDWARD S. SMITH, OF WATERBURY, CONNECTICUT.

GARMENT-FASTENER.

SPECIFICATION forming part of Letters Patent No. 520,545, dated May 29, 1894.

Application filed November 28, 1893. Serial No. 492,222. (No model.)

To all whom it may concern:

Be it known that I, EDWARD S. SMITH, of Waterbury, county of New Haven, and State of Connecticut, have invented a new and useful Improvement in Garment-Fasteners, of which the following is a full, clear, and exact specification.

My invention relates to a new and useful improvement in garment fasteners, and consists particularly in the novel construction of that part of the mechanism known as the stud over which the garment is placed and around which it is securely clasped in the manner hereinafter fully described.

The object of my invention is to construct a fastener, of the loop and stud pattern, in such a manner that, when this fastener is in operation, the stud will be securely retained in the small end of the loop, thereby obviating the possibility of the fastener becoming accidentally disengaged from the garment.

My invention is illustrated by the accompanying drawings, in which—

Figure 1 is a plan view of the fastener. Fig. 2 is a cross section of the stud shown in Fig. 1 taken on the plane of the line 1—1 in Fig. 3. Fig. 3 is a vertical section of the stud shown in Fig. 1 taken on the plane of the line 2—2, Fig. 2. Fig. 4 shows a plan view of a modification of the stud, and Fig. 5 is a vertical section taken on line 3—3, Fig. 4.

A is a loop preferably made from wire or sheet metal. This loop A is of the ordinary construction being adapted, at its upper end, to be secured to a suitable supporting tape, or the like. This loop is adapted to admit of the insertion of a stud consisting of the following parts: a base B adapted to be secured to a tape or the like, a head or enlargement D, and the intermediate connecting shank consisting of two or more uprights E E. These uprights E E are separated at a slight distance from each other, so that when the loop is passed over the head D, of the stud, and pulled so as to bring the shank of the stud toward the narrowed end (as illustrated in Fig. 1) the uprights E E will spring toward each other slightly, and thereby cause

the shank to be securely held in the embrace of the lower and narrow end of the loop A. This spring shank E E is of particular value when used in connection with a loop, such as shown in Fig. 1, in which the opening in the loop is contracted at an intermediate point between the ends of the loop so that the yielding uprights E E will have to spring toward each other slightly in order to pass through the said contracted space, the diameter of the shank being preferably slightly larger than the contracted space above referred to. These uprights E E may be formed in any suitable manner, either integral with the base B and head D, or either of them, or separate from, and afterward attached to the base B and head D. The form shown in Figs. 2 and 3 illustrates one method of forming the uprights E E while another method is shown in Figs. 4 and 5. In this case the base B and uprights are first cut out in a single blank and afterward the uprights are bent back on the blank, then upward and slightly outward at their upper extremities so that a head D may be attached thereto by rolling over the edge of the said head, so that it will extend under the outwardly turned ends of the uprights thereby securely holding the said parts together.

In operating this device, a thickness of the garment is placed over the head of the stud, the loop A is then placed over the garment and stud, and pressed down until the head of the stud projects up through the loop, the stud is then slipped into the narrow end of the loop, the spring uprights yielding so as to allow the shank of the stud to be slipped past the contracted space in the loop into the extreme lower end of the loop as shown in Fig. 1, where it securely retains the garment.

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

1. The combination in a garment fastener of a loop as described secured to a supporting tape, with a stud consisting of a base and head portion connected together by a laterally flexible shank, the base portion of the

stud being adapted to be secured to the supporting tape, substantially as and for the purpose specified.

2. The combination in a garment fastener of a loop A, the space within which is contracted at an intermediate point between the ends of the loop, with the stud consisting of a base B, two or more uprights E E separated

at a slight interval from each other, the upper extremities being turned outwardly over which a head is secured, substantially as described.

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Witnesses:

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