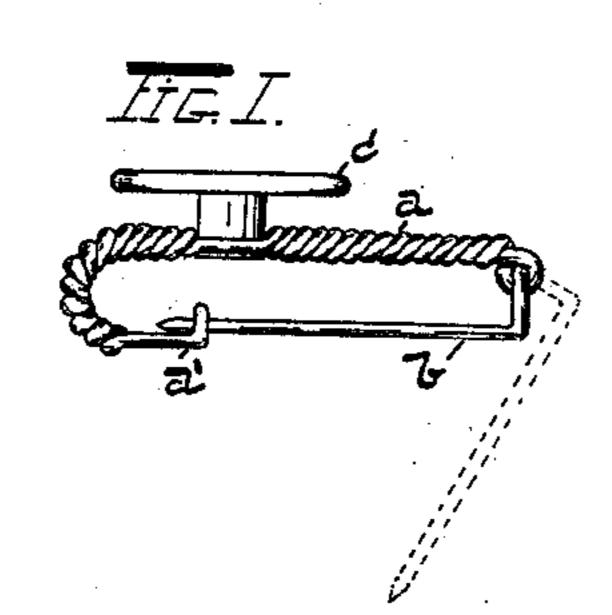
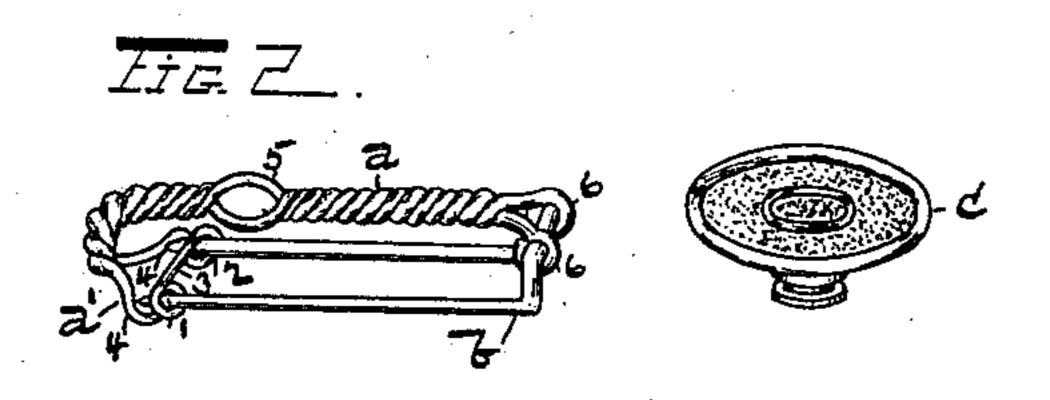
(No Model.)

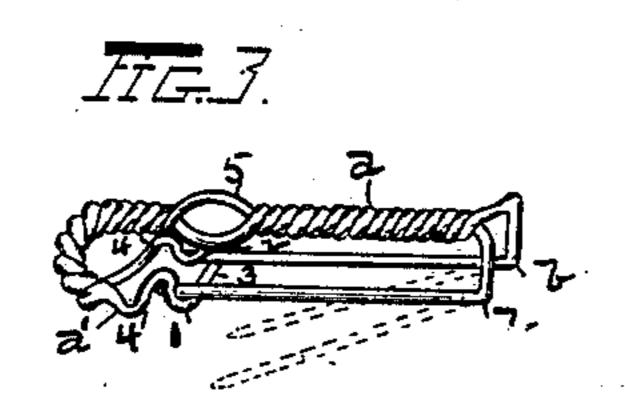
E. P. CLARK & N. D. INGRAHAM BUTTON FASTENER.

No. 393,740.

Patented Dec. 4, 1888.







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BUTTON-FASTENER.

SPECIFICATION forming part of Letters Patent No. 393,740, dated December 4, 1888.

Application filed August 13, 1888. Serial No. 282,673. (No model.)

To all whom it may concern:

Be it known that we, EMBURY P. CLARK and NATHAN D. INGRAHAM, of Holyoke, in the county of Hampden and Commonwealth of 5 Massachusetts, have invented a new and useful Improvement in Button - Fasteners, of which the following is a specification, reference being had to the accompanying draw-

ings, forming part thereof.

Our invention relates to devices for securing buttons to garments without the use of thread, and has for its object to provide a combined button and fastener, which will possess great strength and durability, which will be sufficiently flexible to prevent inconvenience to the wearer of the garment to which it is secured, and which can be quickly and conveniently applied to the garment without defacing the latter.

To this end our invention consists in a fastener comprising a bar or rod composed of twisted strands of wire, which bar or rod receives the stem of the button, and which has connected to one of its ends a pin, the pointed 25 end of which is adapted to be received within a clasp at the opposite end of said bar or rod, as hereinafter fully described, and particularly

pointed out in the claims.

· Referring to the drawings, in which like 30 parts are designated by like letters in the several figures, Figure 1 is a side elevation of the combined button and fastener. Fig. 2 is a view in perspective of the fastener and button separated from each other. Fig. 3 is a 35 similar view of a slightly-modified form of the fastener.

The letter a designates the bar or rod composing the body portion of the fastener, which is preferably bent back upon itself at 40 one end, as shown, to form a loop to receive the edge of the garment, and terminates at said end in a clasp, a'. At its opposite end said bar is provided with a bearing in which is pivoted a double-pronged pin, b.

The bar a is composed of strands of wire twisted closely together, and we prefer to form the bar, clasp a', and the bearing for pin b from a single piece of wire, as follows: A piece of wire of suitable length is bent at 50 each side of its middle point to form the small loops 1 2, thus leaving the straight por-

tion 3 between said loops, when the two strands of the wire are again bent into substantially an S shape and at substantially a right angle to loops 1 2, as shown at 4 4, after which 55 said strands are closely twisted together until the point where it is desired to attach the button is reached, as at 5, at which point said strands are bent around the stem of the button c in such manner as to receive said stem be- 60 tween them, and from this point the strands are again closely twisted about each other until the end of the bar is reached, where they are bent to form loops 66, slightly separated from each other, as shown, to form the bearing for pin 65 b. The end of the bar containing the clasp is then bent back upon itself, as shown, pin b is inserted within loops 6 6, and the operation is completed. The button c is preferably formed with an annular groove near the 70 outer end of its stem to receive the two strands of wire, and said strands being closely twisted together upon each side of the button the latter is securely held upon the bar and cannot become loosened by wear. Pin b at 75 its rear end is preferably bent twice at a right angle, whereby space is afforded between its prongs and the bar for the fabric, when applied to a garment. Said pin will have the pointed ends of its prongs normally spread 80 apart at such a distance that when said ends are compressed to cause them to enter the clasp their elasticity will retain them therein.

In the preferred form of the invention, as shown in Figs. 1 and 2, the opening between 85 loops 1 2 to admit the ends of the pin to said loops is upon the rear side of the clasp, or the side farthest away from the button, and when thus constructed the ends of the pin can be readily caused to enter the clasp by slightly 90 compressing the prongs toward each other and moving them toward the button until their free ends are brought into contact with the straight portion 3 of the clasp, when by permitting them to expand said ends will en- 95 ter loops 1 2 and be retained therein. The points of the prongs are effectually guarded by the S-shaped portions 4 4 of the clasp, so that they cannot injure the person when applied to a garment.

In the form of the invention shown in Fig. 3 the opening in the clasp between loops 1.2

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is upon the inner side thereof, and the prongs of the pin are a continuation of the twisted strands of the wire; but as the ends of the prongs are not so readily inserted within the 5 clasp, and as the prongs must be compressed after being inserted through the fabric, we prefer to use the form first described.

The fastener is applied to a garment by in-10 serting the pin through the latter at such a point that the edge of the fabric will be re- | forth. ceived within the bend in the bar between the button and the clasp, after which the ends of | consisting of a button and a fastening device, the prongs are compressed, as previously de- ! to which said button is secured, said fasten-15 scribed, and seated within loops 1/2 of the jing device consisting of a bar or rod composed plied to a garment a clear space between the ! terminating at one end in a two-pronged pin greater portion of the head of the button and f and at its opposite end in a clasp to receive the fabric is afforded, which enables the but- ; the ends of the prongs of said pin, substan-20 ton to be passed through a button-hole much [tially as described. more easily than is the case in button-fasten-! 3. The button-fastener herein described, 65 25 ther facilitated by the fact that, the bar a be-said bar, substantially as described. 30 not incommode the wearer, as do those in 15, and loops 6 6 at the ends of said wire, the when worn upon pantaloons.

be secured by passing one of the strands of | forth. the wire composing the bar through the loop of the ordinary shank-button, where it would be securely held by the twisted strands upon -40 each side thereof.

The button-fastener herein described is simple and inexpensive in construction, and yet very strong and durable, besides possessing the special advantages herein before described.

Having thus fully described our invention, 45 what we claim, and desire to secure by Letters Patent, is—

1. The button-fastener herein described, consisting of a bar or rod composed of a plutoward the bar as well as toward each other | rality of strands of wire twisted together, said 50 bar or rod having at its opposite ends, respectively, a pin and a clasp to receive the end of said pin, and having a button secured thereto between its ends, substantially as set

2. The button-fastener herein described, clasp. It will be observed that when thus ap-1 of two strands of wire twisted closely together, 60

ers in which the button is secured to a metal- $\frac{1}{2}$ consisting of bar a and clasp a', composed of lie plate equal in width to the diameter of the 'a continuous piece of wire, button c, secured head of the button. This result is still fur-, to said bar, and pin b, pivotally connected to

ing substantially round in cross-section, the 4. The button-fastener herein described, 70 button is permitted to have a slight rocking consisting of a continuous piece of wire bent movement with said bar. The twisted-wire upon each side of the middle portion, 3, therebar, moreover, is more or less flexible and does + of to form loops 1/2, S-shaped loops 4/4, loop which a metallic plate is employed, especially 1 two strands of said wire being closely twisted 75 atogether between loops 4.4 and loop 5, and also We do not wish to limit ourselves to the use [between the latter and loops 6 6, button c, of the fastener with the particular kind of | having its stem located within loop 5, and pin 35 button herein shown, as the same result could +b, mounted in loops 6.6, substantially as set

> EMBURY P. CLARK. NATHAN D. INGRAHAM.

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