(No Model.)

E. K. WARREN & J. H. AMES.

BUTTON STRIP.

No. 409,888. Patented Aug. 27, 1889.

Fig. 1.

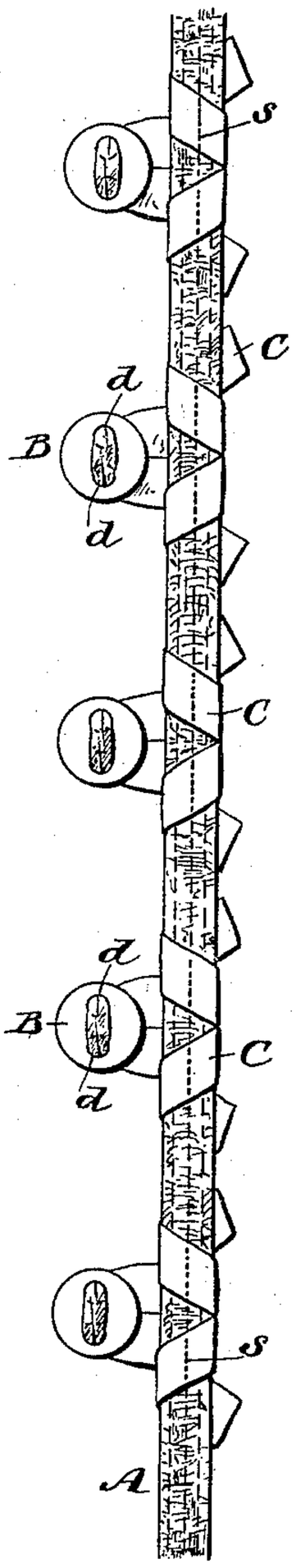


Fig. 2.

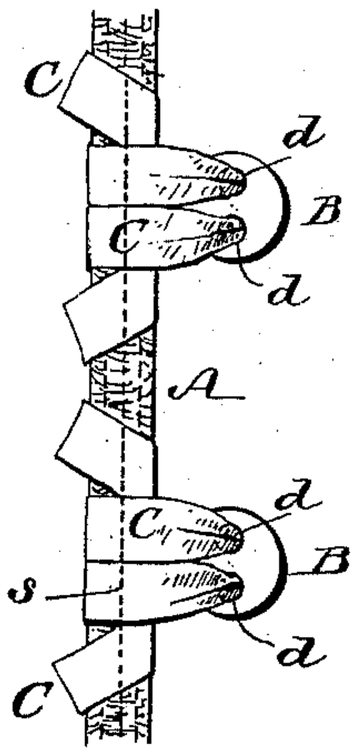


Fig. 3.

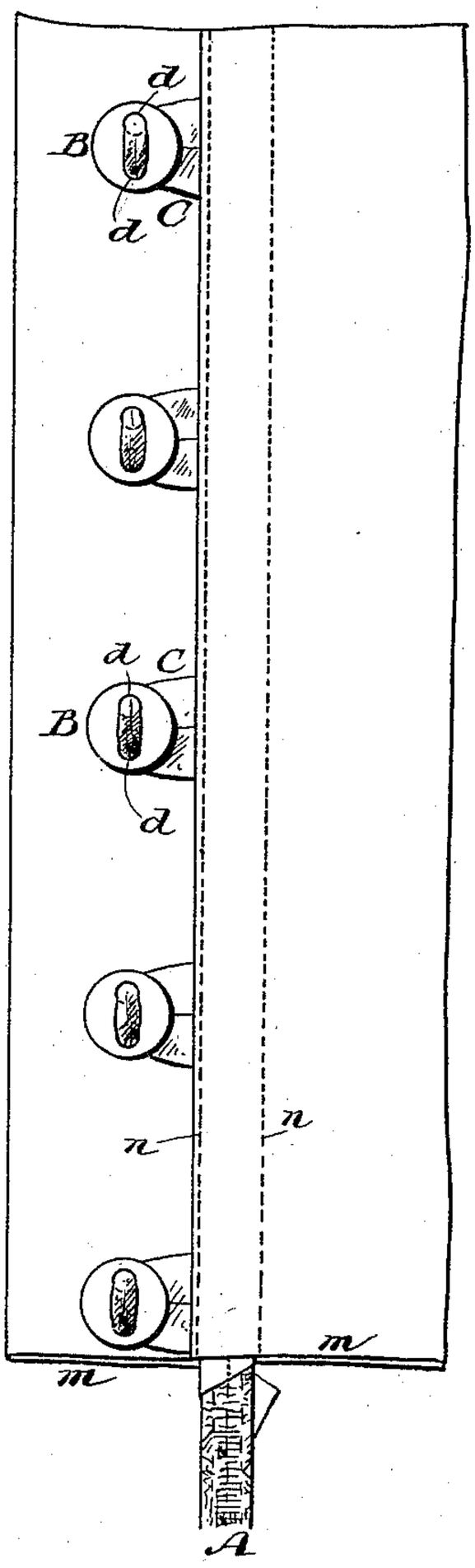
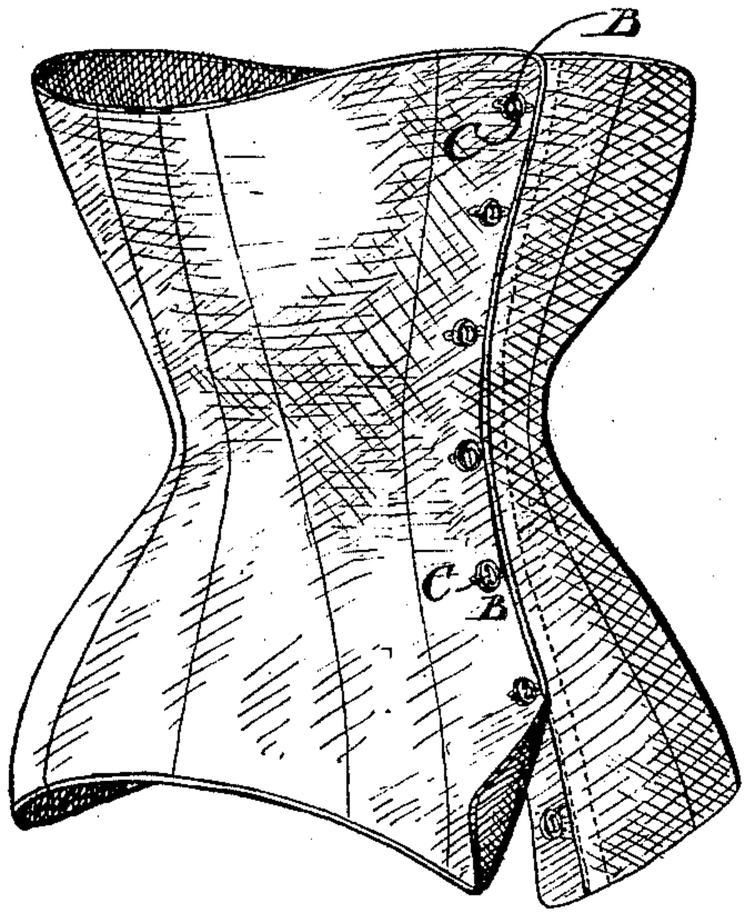


Fig. 4.



WITNESSES:

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BUTTON-STRIP.

SPECIFICATION forming part of Letters Patent No. 409,888, dated August 27, 1889.

Application filed December 26, 1888. Serial No. 294,665. (No model.)

To all whom it may concern:

Be it known that we, EDWARD K. WARREN and JOSEPH H. AMES, of Three Oaks, in the county of Berrien and State of Michigan, have invented a new and useful Improvement in Button-Strips, of which the following is a full, clear, and exact description.

This invention has more particularly for its object the production of a continuous strip having flexibly attached to it buttons arranged at suitable distances apart, or, in other words, a button-carrying strip of improved character or construction, which may readily be applied to garments of different kinds, including waists and corsets, and which may be sold separately by the yard or other measurement for use, as required.

The invention consists in a continuous strip, preferably of feather-bone or other suitable elastic material of blade-like construction, that while it forms a stay or stiffener will admit of being stitched through and through, and which has combined with it buttons arranged at suitable distances apart on or along it separately attached to the strip by tapes or other like flexible connections of spun or woven textile material, substantially as hereinafter described, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a face view of a continuous strip or piece of one with attached buttons embodying our invention. Fig. 2 is a rear view of the same in part. Fig. 3 is a face view showing the same applied to and combined with a garment in part, and Fig. 4 a view in perspective of a corset having our invention applied.

A indicates a continuous strip or blade, preferably made of "feather-bone" or any suitable material that, while it will make of the strip an elastic stay or stiffener, admits, unlike metal, of being stitched through and through without separately perforating it for the purpose. To such a strip we separately attach a series of buttons B, having perforated bodies, as distinguished from buttons having shanks, the attachment being by separate flexible connections of spun or woven material—such as cords or tapes C—passed, as in other flexible button-fastenings, forward and backward through the perforations in the buttons—as, for instance, through perforations *d d*, arranged side by side in each button and doubling over the front part of the button. These tapes or flexible connections C are of a suitable length, so that after they have been threaded through the buttons, as described, their backwardly-projecting end portions may be attached to the strip A and leave the buttons as standing out from one side of the strip. Said tape end portions may be variously applied to the strip or blade A, that, especially when made of feather-bone, may have an independent covering; but we prefer to wind said tape end portions round the blade, and, if desired, to bring the terminal parts thereof back over the blade on opposite sides of those portions of the tape which immediately pass from the button. This lapping of the tape around the blade gives great strength. We then secure the several tapes or flexible connections C to their places by running a row of stitching *s* through them and through the strip or blade in direction of the length of the latter. This stitching may either be longitudinally through the center of the blade or along both sides of it, or both. We do not confine ourselves, however, to this precise mode of attachment, as it may be more or less changed without departing from the principle of the invention. After the blade A, which is distinguishable from a continuous cord passing through the several perforated buttons, as also from a metal blade united by metal links with shank-constructed buttons, has had the several perforated buttons united to it at a suitable distance from its longitudinal edge by the independent tapes or flexible connections, it is then ready for sale or use as a continuous button-carrying strip or blade suitable for garments of different kinds or for any purpose it may be desired to apply it. It is complete, however, without the garment, so far as carrying the buttons and their attachment is concerned.

Such button-carrying strip may either be used in connection with a fly or not on the garment and be applied either to a single thickness of cloth or between two thicknesses

thereof by suitably slitting the cloth for the tapes to pass through.

Fig. 3 represents the button-carrying strip as applied between two thicknesses of material *m m*, with lines of stitching *n n* to hold it in place; but, if desired, said strip, being a complete thing in itself, with the buttons flexibly and separately attached to it, might be attached simply at its ends by entering it through slits in the material to which it is applied; or it might be otherwise secured thereto, and, if desired, cross-stitching be applied between the button-strips to secure the stay. This is only descriptive of the uses of the strip.

By the attachment of the buttons, as described, to the strip, the buttons will be held firm and kept from sagging, so that they can be readily handled to engage with the button-holes of a garment, and if the strip be attached to a fly or flap the latter will afford every facility for handling and buttoning with great rapidity and ease.

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

As an improved article of manufacture, a button-strip consisting in a resilient blade A, a series of independent tapes stitched thereto at given distances apart, the stitches extending through the resilient blade, and buttons on said tapes, substantially as set forth.

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JOSEPH H. AMES.

Witnesses:
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