

(No Model.)

H. GREEN.
WAISTBAND.

No. 553,647.

Patented Jan. 28, 1896.

Fig. 1.

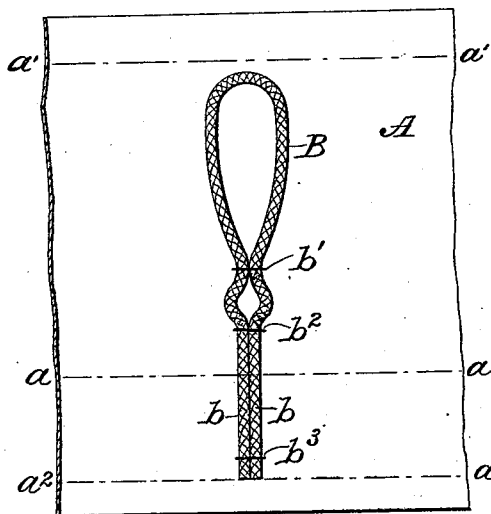


Fig. 2.

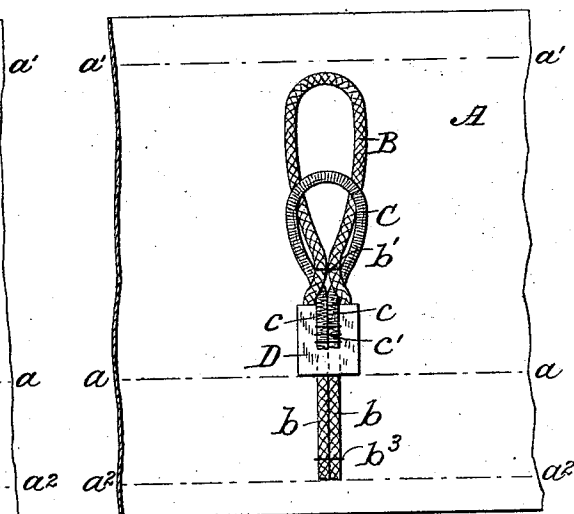


Fig. 3.

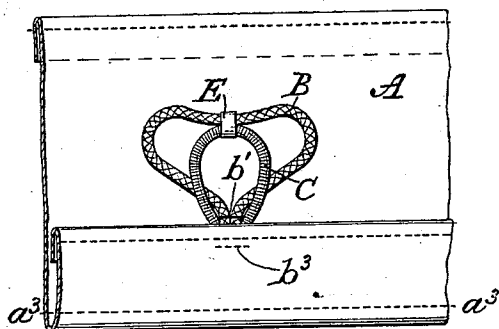
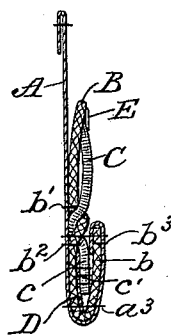


Fig. 4.



Attest:

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Inventor:

Herman Green
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UNITED STATES PATENT OFFICE.

HERMAN GREEN, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS,
TO THE NEW YORK WAISTBAND COMPANY, OF SAME PLACE.

WAISTBAND.

SPECIFICATION forming part of Letters Patent No. 553,647, dated January 28, 1896.

Application filed November 7, 1895. Serial No. 568,173. (No model.)

To all whom it may concern:

Be it known that I, HERMAN GREEN, a subject of the Emperor of Germany, and a resident of the city, county, and State of New York, have invented certain new and useful Improvements in Waistbands, &c., of which the following is a specification, reference being had to the accompanying drawings, forming part hereof.

Waistbands and other like articles which serve in part for the attachment of one garment to another, as of boys' short pants to waists or other upper garments, are commonly constructed so that there may be more or less yielding between the two garments. This result is most conveniently attained and with the least expense by arranging the waistband to be sewed directly to the pants or other garment, and by providing it with elastic button-loops, which are adapted to be engaged with the buttons of the waist or other upper garment. Owing to the liability of such elastic loops to break when stretched to the limit, and especially after the rubber has deteriorated somewhat, and therefore to leave the lower garment without support at the point where the loop is broken, the loop-bands—that is to say, waistbands having elastic loops—are sometimes considered less desirable than those which at greater expense are formed with buttonholes and are attached to the pants or other garment by means of elastic straps or webbing. I have sought to produce a loop-band which shall be considerably less expensive than the buttonhole-band and shall be practically as durable and reliable. Accordingly I supplement and reinforce each elastic band by another band which is relatively slack or longer than the elastic band and which, being engaged with the same button, comes into play when the shorter elastic band is stretched.

The improved construction and relation of parts will be more fully described hereinafter with reference to the accompanying drawings, in which I have illustrated a convenient embodiment of the invention.

In the drawings, Figure 1 represents in plan view one of the slack or longer loops applied to the piece of fabric or portion of a waistband. Fig. 2 is a similar view showing also

the shorter elastic loop applied to the fabric with the slack loop. Fig. 3 is a similar view, but representing the fabric as folded in the ordinary manner for a waistband and the free portions of the two loops as connected together. Fig. 4 shows the waistband in section and the loops in edge view.

The fabric A, to which the loops hereinafter referred to are secured, may be of any suitable character and preferably is adapted for the formation of the ordinary waistband which is applied to boys' short pants. To the waistband or other fabric or garment are applied the supplemental or reinforcing loops B at the desired intervals, only one such loop being shown in each of the several figures of the drawings, as it will suffice for illustration of the invention. The members *bb* of each loop B are secured to the waistband or fabric A by stitches or by a metallic clip or otherwise, as at *b'*, and again at a short distance from the point *b'*, as at *b²*, an eye being thereby formed by each member between itself and the fabric A. Preferably, also, the ends of the members are extended farther and are again attached to the fabric or waistband A near the lower edge thereof, as at *b³*. The loops B may be made of any suitable material, either elastic or inelastic, the ordinary braided cord being preferably employed for the purpose.

An elastic loop C is secured, together with each loop B, to the waistband or other article A, being somewhat shorter than the loop B, so that the said loop B shall be slack when the loop C is in its normal position and, being engaged with the same button of the waist or other garment, shall come into play to receive strain only when the elastic loop C is stretched, thereby supplementing and reinforcing the said elastic loop C and preventing its subjection to a breaking strain.

The loops C are most conveniently secured to the fabric or waistband A in the manner represented in Figs. 2 and 4—that is to say, the ends *cc* of the elastic cord which forms the loop are passed in opposite directions, or from the outside inward, through the respective eyes formed by the members *bb* of the loop B between the points *b'* and *b²*, one end *c* being passed through the eye formed by the one member *b* between itself and the fabric

and the other end *c* being passed through the other eye formed by the other member *b* between itself and the fabric, and are then secured together, as at *c'*, so that the strain on the loop C shall be sustained in part by the stitches or other means for securing the loop B to the fabric A at *b'*, this manner of securing the loops C being less likely to result in cutting and breaking the rubber core of the elastic cord than if it should be attempted to sew the cord directly to the fabric. Preferably the ends *c c* of the loop C are secured together to a small piece of fabric D, as at *c'*, the said piece D being sufficiently long to reach to the line indicated by the broken line *a a* of Figs. 1 and 2, upon which the fabric is folded to form the waistband, the fabric being also folded as usual upon the lines *a' a'* and *a² a²*. Subsequently, when the waistband is secured to the pants by sewing along the line *a³ a³*, the end of the piece B is caught by the stitches and the strain of the loop C is thereby further distributed.

It is obvious that the waistband might be used with the loops, as represented in Fig. 2; but as one loop might then be engaged with the button without the other, I prefer to connect the free portions of the two loops B and C together in such manner as to insure the engagement of both with the button, but to leave the loop B normally slack, as before. For this purpose the loops might be connected by a few stitches or by a metallic plate, as at E.

The mode of use of the improvement herein described and the advantages which flow therefrom will be readily apparent from the foregoing description without further explanation herein.

I claim as my invention—

1. The combination with a waistband or other like article, of an elastic button-loop and a relatively slack or longer button-loop, both of said loops being secured together to said waistband or other article and adapted to co-operate with the same button, whereby the relatively slack or longer loop supplements and reinforces the elastic loop when the

latter is stretched, substantially as shown and described.

2. The combination with a waistband or other like article, of an elastic button-loop and a relatively slack or longer button-loop, both of said loops being secured together to said waistband or other article and adapted to co-operate with the same button, whereby the relatively slack or longer loop supplements and reinforces the elastic loop when the latter is stretched, the free portions of said loops being also secured together, substantially as shown and described.

3. The combination with a waistband or other like article, of a button-loop having each of its members secured to the waistband or other article at two different points, whereby one eye is formed between one member and the fabric and another eye is formed between the other member and the fabric and an elastic loop having one end passed through one of said eyes and the other end passed through the other of said eyes in the opposite direction and having the two ends secured together, substantially as shown and described.

4. The combination with a waistband or other like article of a button-loop having each of its members secured to the waistband or other article at two different points whereby one eye is formed between one member and the fabric and another eye is formed between the other member and the fabric, an elastic loop having one end passed through one of said eyes and the other end passed through the other of said eyes in the opposite direction and having said ends secured together, and a piece of fabric to which the ends of the elastic loop are secured and which is secured to the waistband or other article, substantially as shown and described.

This specification signed and witnessed this 4th day of November, A. D. 1895.

HERMAN GREEN.

In presence of—

ALFRED W. KIDDLE,
W. B. GREELEY.