

B. J. Greely.

Suspender.

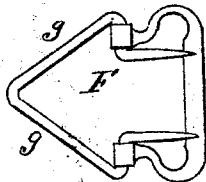
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Fig. 1.



Fig. 2.



Witnesses: 3

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UNITED STATES PATENT OFFICE.

B. J. GREELY, OF NEW YORK, N. Y.

IMPROVEMENT IN SUSPENDERS.

Specification forming part of Letters Patent No. 50,351, dated October 10, 1865.

To all whom it may concern:

Be it known that I, B. J. GREELY, of the city, county, and State of New York, have invented a new and useful Improvement in Suspenders; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a pair of suspenders made after my invention, and the same figure shows how they are applied and worn. Fig. 2 is a detailed view of one of the buckles.

The object of this invention is to improve the suspenders by which pantaloons are held upon the person of the wearer, the particular features of the improvement being as follows: To combine with the suspenders the quality and office of a shoulder-brace; to simplify the construction of the suspenders; to make them in a such a manner that each side of a pair of pantaloons is suspended independently of the other; and, lastly, attaching the several straps of which the suspender is composed to their buckles or links in such a way as that they will pull squarely thereon, and so preserve the evenness of the straps.

In this example of my invention I have shown it applied to a pair of pantaloons, the points of suspension being at the sides of the garment, according to the invention secured to me by Letters Patent No. 20,708, granted 29th of June, 1858. The side straps, E, of the suspenders, only one of which is seen in the drawings, are attached to the ring or other fastening device on the band of the garment by means of a hook or its equivalent. Such straps extend upward along the sides of the wearer, under the arms, to the buckles F, by which they are respectively attached to the shoulder and back straps C and B. The straps B extend from the upper termination of the straps E upward along the chest, and thence over the shoulders respectively to a point over the shoulder-blades, where they are met by a horizontal strap, A, and also by diagonal straps C. The latter proceed from the upper ends of the vertical straps E upward to about the height of the shoulder-blade, where they meet the ends of the straps B, which have passed over

the shoulders and downward along the back, and also the ends of said strap A.

The connection of the straps C B E under the arm is made by means of a buckle of peculiar construction, a detailed view whereof is given in Fig. 2. The back bar of the buckle is so formed as to make connection with both the straps C and B, although they occupy positions nearly at right angles to each other, and this is accomplished by giving the said bar two inclinations, *g g*, at right angles to each other, or nearly so, the strap C being fastened to one side *g* of the bar, and strap B to the other, while the tongue of the buckle is fastened to the upper end of the strap E. This description applies to both sides of the person.

The upper end of straps C and those ends of straps B which surmount the shoulders are connected to each other through buckles F, of the same form as represented in Fig. 2. The horizontal strap A is held by the tongues of such buckles, and it can be taken up and shortened or be lengthened out at pleasure. This strap A serves thus not only to keep the suspenders formed of the several straps C B E in their proper places, but also serves to brace the shoulders.

My construction of suspenders therefore provides not only a means of sustaining the pantaloons, but also a means of bracing the shoulders.

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

1. The suspenders above shown, consisting of a band encircling each shoulder and held adjustably behind, and a strap descending from it at the side, the whole constructed and applied substantially as above described.

2. In combination therewith, the buckle F, having a double inclination of its back bar, substantially as and for the purpose above set forth.

3. The arrangement, with braces and pantaloons, of a spring-hook and ring, or the equivalent thereof, substantially as shown and described.

B. J. GREELY.

Witnesses:

M. M. LIVINGSTON,
WM. DEAN OVERELL.