

(No Model.)

H. PUTZ.  
BRACING SUSPENDERS.

No. 541,681.

Patented June 25, 1895.

Fig. 1.

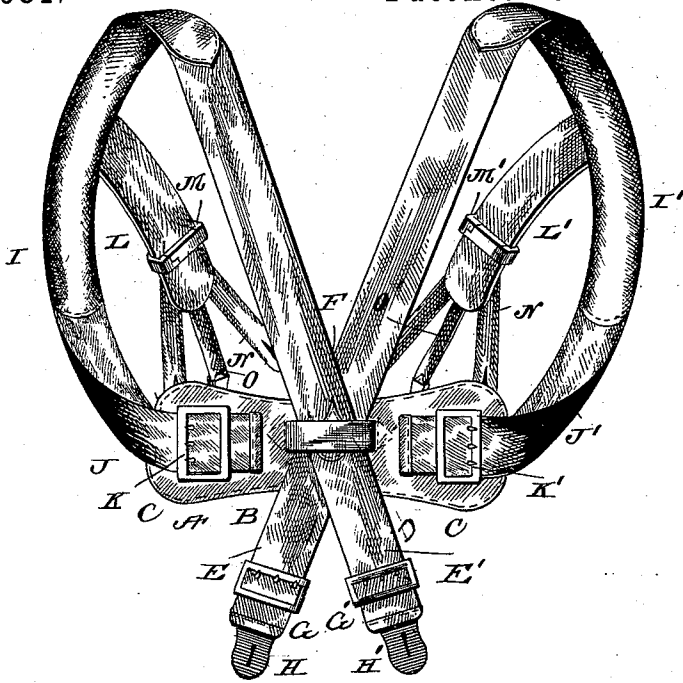


Fig. 2.

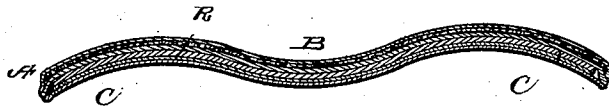


Fig. 3.

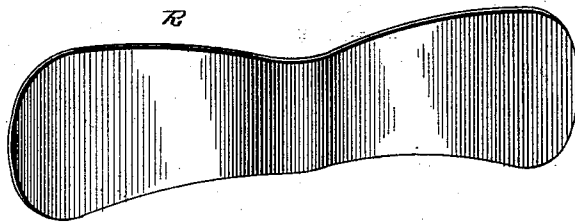
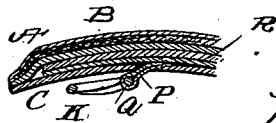


Fig. 4.



Witnesses  
*John D. Amie*  
*James M. Messer*

Inventor  
Herman Putz  
by  
*Kincaid & Co.*

Attorney

# UNITED STATES PATENT OFFICE.

HERMAN PUTZ, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR TO HENRY WETZLER, OF SAME PLACE.

## BRACING-SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 541,681, dated June 25, 1895.

Application filed April 25, 1895. Serial No. 547,199. (No model.)

*To all whom it may concern:*

Be it known that I, HERMAN PUTZ, a citizen of the United States, residing in the city and county of San Francisco and State of California, have invented certain new and useful Improvements in Bracing-Suspenders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in suspenders and more particularly to that class known in the art as bracing-suspenders in which provision is made whereby the straightening of the back and shoulders is materially affected.

The present invention has for its object among others to provide an improved construction in which a constant tension is so directed as to tend toward drawing the shoulders backward into the desired position and at the same time permit of the free and easy action of the body and relieve it of the wearying and discomforting strain generally resulting from the employment of inventions of this class. By the peculiar position, form and construction of the rear pad, the invention comprehends still another object and that is to support the spine.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claims.

The invention is clearly illustrated in the accompanying drawings, which with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of my improved bracing-suspenders. Fig. 2 is a longitudinal central section of the rear supporting-pad. Fig. 3 is a perspective view of the aluminum plate employed in the composition of the rear pad, and Fig. 4 is a detail.

Referring now to the details of the drawings by letter, employing similar letters of reference to indicate like parts throughout the several views: A represents the rear bracing and supporting pad which is formed with a centrally contracted portion B and enlarged curved extremities C. At the center or con-

tracted portion B of this pad A is the external loop D through which loosely slide the elastic straps E E' which are crossed at F and to whose lower extremities are attached the adjustable buckles G G' bearing the tabs H H' for supporting the garment in the rear. The upper extremities of these straps E E' after passing over the shoulders are secured to the non-elastic members I, I' which are padded and adapted to pass in front of the shoulders and under the arms when they are continued by the elastic straps J J', the latter being adjustably secured to the extremities C of the pad A by means of the buckles K K'. Near the central portion of these padded members I I' depend the short elastic straps L L' which are connected to the front of the garment through the adjustable buckles M M' and tabs N N', the central tabs O O' being provided to support the undergarment.

In Fig. 4 I have shown the manner of securing the buckles K K' to the pad A in which the leather P is secured within the pad A and projects through a slit therein when it encircles the cross bar Q of the buckle, and in this way I have preserved a much neater appearance of the pad than if the straps P were sewed to the outer surface of A.

In order to give rigidity to the pad A and cause it to conform with the concavity of the spinal column, thereby making it a supporting medium and at the same time obviate any great increase of weight, I have inserted an aluminum plate R between the two outer thicknesses of leather. The inner surface of the pad A is padded and covered with silk or other suitable material. In Fig. 3 I have represented the form of the aluminum plate.

From the above description it will be seen that the main body of the device with the exception of the rear pad is constructed in integral; and further that a free and easy action of the body is permitted by isolating the bracing from the supporting functions of the device, as the rear straps E E' may become stretched and slide through the guide D without shifting in the least the position of the pad A.

The action of the elastic adjustable straps E E' in conjunction with the straps J J' is in complete harmony with any conceivable po-

sition the body may assume and has a direct tendency to the restoring of the members of the frame to their proper relative positions.

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

1. The bracing and supporting suspenders composed of rear pad A, elastic straps E' E' sliding through a guide on A, non-elastic padded members I I' secured to said straps, and adjustably connected to the extremities of said pad by elastic straps J J', and supporting straps L L' depending from said non-elastic members substantially as and for the purpose set forth.

2. The bracing and supporting suspenders composed of the centrally contracted rear pad

A, straps E E' sliding through a guide D at the center of said pad, padded non-elastic members I I' attached to the enlarged extremities of said pad by adjustable elastic straps J J' and at their other extremities to straps E E', and supporting straps L L' depending from said non-elastic members, and an aluminum plate interposed between the outer and inner surfaces of said pad A, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HERMAN PUTZ.

Witnesses:

HENNY WETZLER,

HARRY J. LASK.