

(No Model.)

T. V. NICHOLS.

APPARATUS FOR STRETCHING AND SMOOTHING TROUSERS.

No. 422,059.

Patented Feb. 25, 1890.

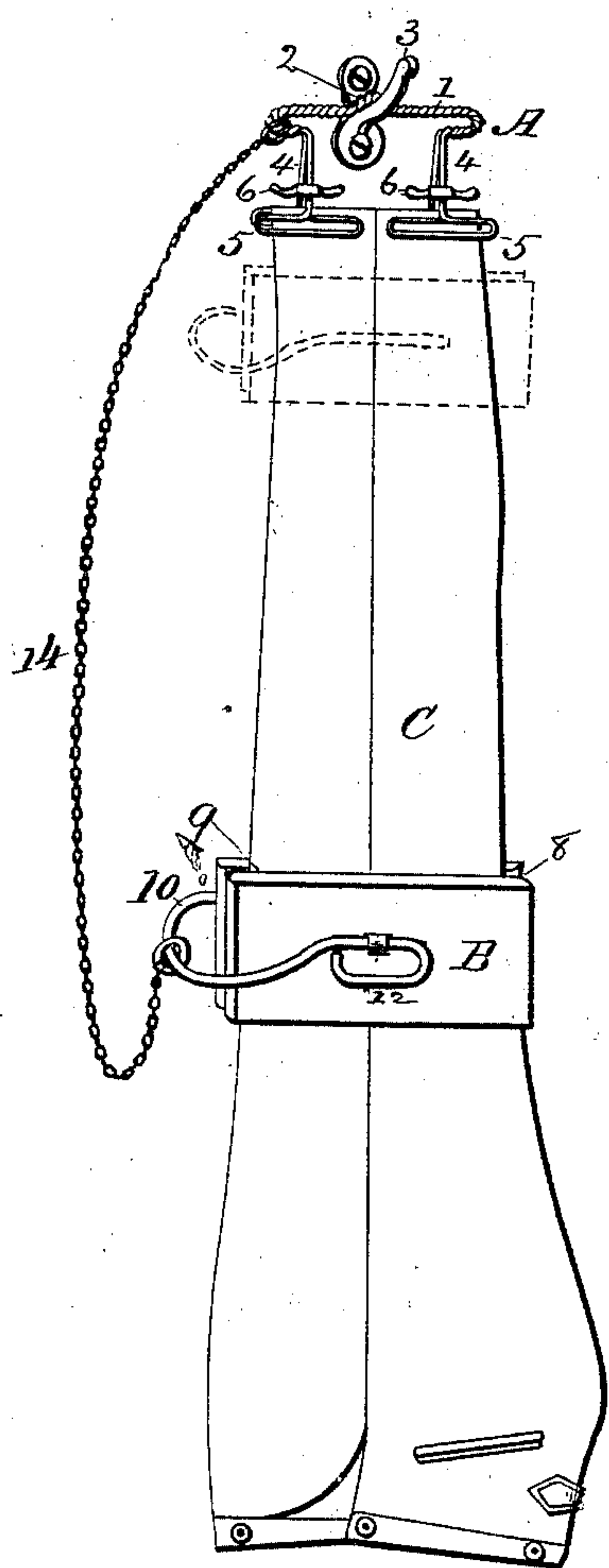


FIG. 1

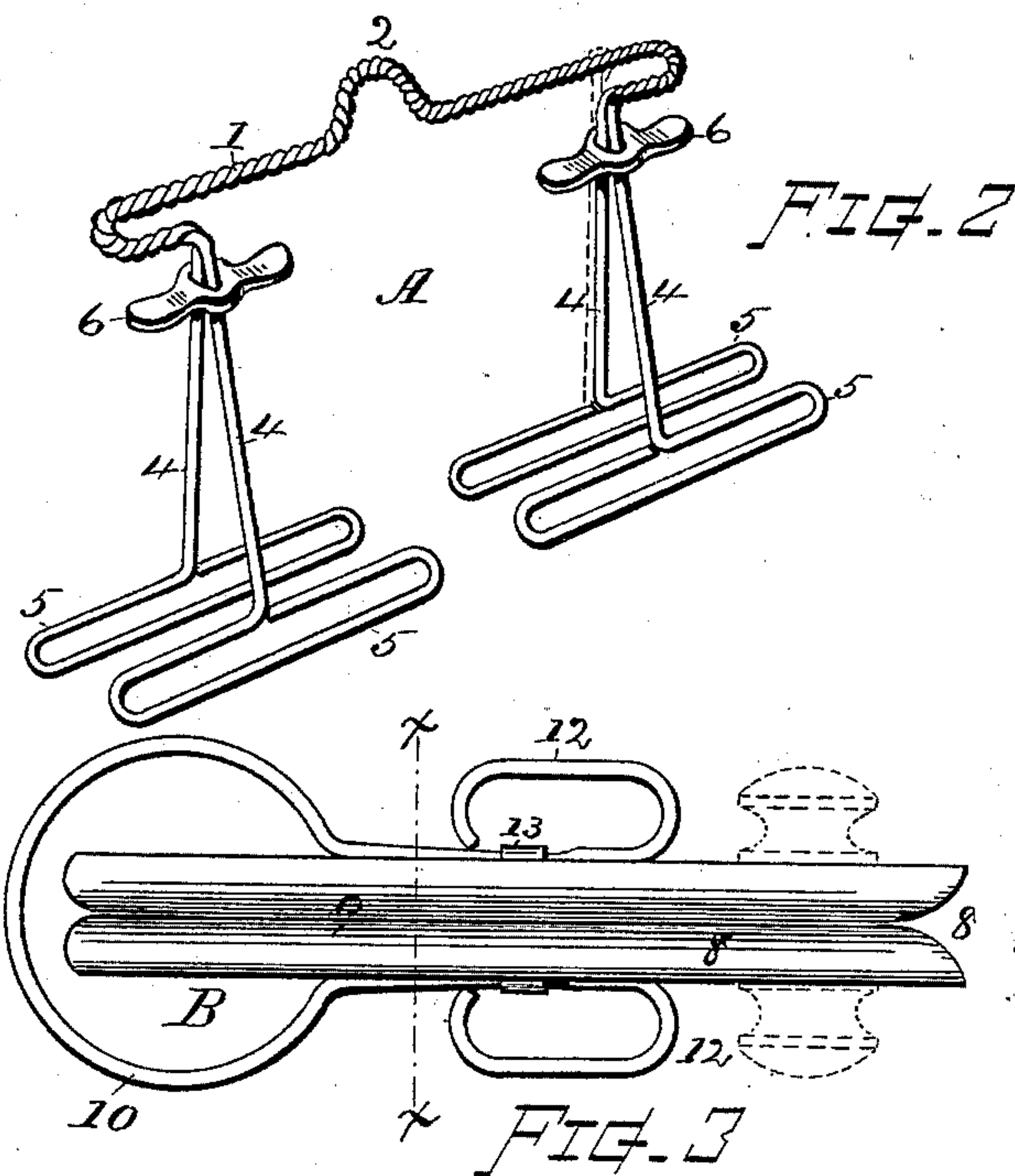


FIG. 2

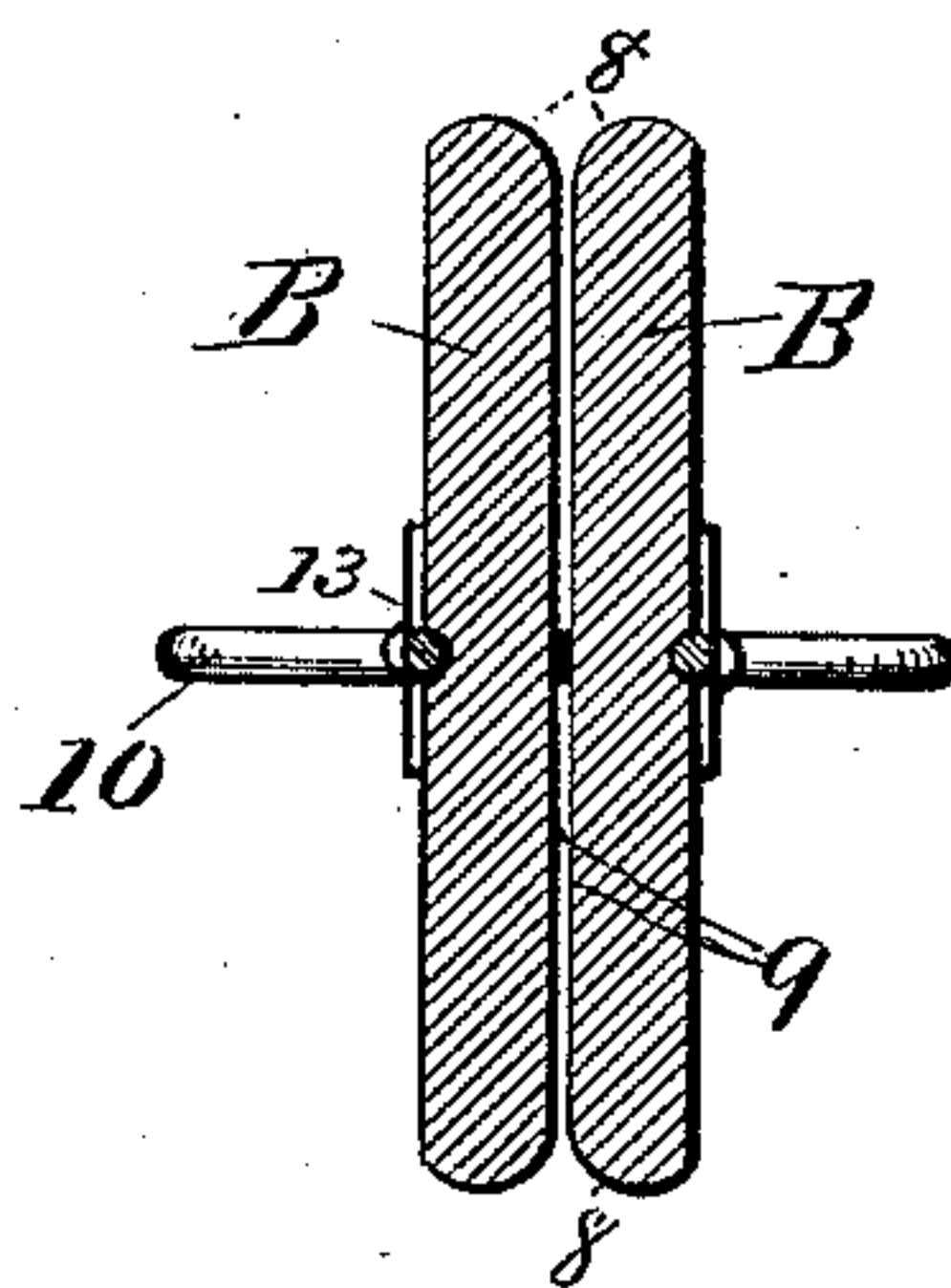


FIG. 3

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# UNITED STATES PATENT OFFICE.

THOMAS VERNON NICHOLS, OF AUBURN, MASSACHUSETTS.

## APPARATUS FOR STRETCHING AND SMOOTHING TROUSERS.

SPECIFICATION forming part of Letters Patent No. 422,059, dated February 25, 1890.

Application filed September 30, 1889. Serial No. 325,478. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS VERNON NICHOLS, a citizen of the United States, residing at Auburn, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Apparatus for Stretching and Smoothing Pantaloons and other Garments, of which the following, together with the accompanying drawings, is a specification sufficiently full, clear, and exact to enable persons skilled in the art to which this invention appertains to make and use the same.

The object of my present invention is to afford a convenient and efficient means for stretching and removing the shrink, wrinkles, and folds occasioned by wear from the legs of pantaloons and restoring them to the proper shape, and for the similar treatment of other garments.

My invention consists in an apparatus composed of a clamp, preferably of wire, adapted for gripping the edges of the fabric or hems at the bottom of pants and having means whereby it can, with the garment, be suspended, and a pair of smooth-faced pressing pads or plates having means for elastically forcing them together, which plates are adapted to be applied to or arranged upon the suspended garment for smoothing and pressing out the folds and for serving as a weight to give the stretching force, as hereinafter explained.

In the drawings, Figure 1 is a perspective view illustrating the nature of my invention. Fig. 2 is a perspective view of the suspending-clamp, separate. Fig. 3 is an edge view of the smoothing-plates, and Fig. 4 is a vertical section of the same.

In referring to parts, A denotes the suspending-clamp; B, the smoothing-plates, and C the garment. The suspending-clamp is preferably made from wire in the form shown, with a top bar 1, having a central loop or curve 2, by which it can be hung or suspended upon a wardrobe-hook 3 or other convenient support, while at the ends of the bar 1 wires are extended downward to form outwardly-springing arms 4, and the ends of said arms are formed into long oval loops 5, that are disposed longitudinally parallel with the top bar 1, (or substantially so,) and which serve as jaws for gripping the fabric. Clasps or

locking-slides 6 are arranged on the arms 4 for forcing the jaws together by moving said slides downward on the arms and for retaining them in firm grip upon the pants C. The ends of the wires can be terminated against the arm portion 4, as shown, or they can be carried up to the top bar, thus making the arm 4 of double wire and the ends fastened to the top bar 1.

The jaw 5 can, if in any instance desired, be covered with wood or fabric to protect the garment from injury by the rusting of the wire, or the wire can have a non-oxidizing coating or be plated with nickel, tin, or other suitable substance.

The clamp is preferably made with two pairs of jaws, as such form affords a central space between the pairs where the seams of the pants can be accommodated without interfering with the firm grip of the jaws upon the fabric.

The pressers or smoothing-plates consist of two pieces of wood or other suitable material about six inches wide by twelve inches long, (more or less,) with rounded edges 8 and smooth or polished adjacent surfaces 9, which plates are combined with a comparatively stiff bow-shaped spring 10, that extends from the central part of one plate around the ends of the plates to a corresponding position on the other plate, and serves to force the adjacent smooth surfaces of the plates toward each other with a yielding or elastic pressure. Knobs or handles are best fixed on the exterior of the plates to facilitate handling them, or the ends of the spring-rod 10 can be bent into a loop, as at 12, to serve as a handle. In the latter case the spring-bar should be fastened to the plate by a clip or staple 13; but if the handle is fixed to the plate the end of the spring may simply be inserted in a recess on the back of the plate, since the spring action will serve to keep the parts together.

The method of using my improved apparatus for stretching and smoothing pants or trousers is as follows: The legs of the pants are first carefully folded or laid together in the desired position, with the bottom hems evenly laid. The jaws of the suspending-clamp are then placed over the edge of the fabric and the locking-slides 6 moved down the arms 4, causing the jaws 5 to firmly grip the hems. The smoothing-plates B are then



separated, and the portion of the pants nearest the clamp-jaws is inserted smoothly between said plates, which are allowed to close upon the fabric. (See dotted line, Fig. 1.)

5 The pants are then suspended by the loop 2 or clamp from the wardrobe-hook 3 or other convenient support. The plates B are then drawn downward over the fabric to the position indicated in full lines, Fig. 1, thereby  
10 smoothing out the wrinkles and folds caused by wear or otherwise and stretching the whole to a uniform shape. The pants may then be permitted to hang for a convenient length of time, the plates B serving as a weight to keep  
15 them extended.

The advantages of my invention are that the pantaloons are put under strain and also under pressure, and thus can be kept in as good form as when new by occasionally hang-  
20 ing them away for a short time in the apparatus.

The parts A and B can, for convenience, be connected by a cord or chain 14, if desired.

What I claim as my invention, to be herein  
25 secured by Letters Patent, is—

1. A suspending-clamp for the purpose specified, consisting of a top bar having two pairs of gripping-jaws 5, supported thereon by spring-arms 4, that depend from the re-  
30 spective ends of said top bar, said jaws being disposed parallel with each other and the top bar and provided with slides 6, movable up and down on said spring-arms for closing and binding said gripping-jaws together in pairs  
35 upon the garment fabric, all substantially as shown and described.

2. A clamping and suspending device provided with a top bar consisting of two inter-twisted wires and said top bar having a cen-

tral bend for a hang-loop, the wires at the end 40 of the top bar extending downward and being separate from each other, the lower portions thereof forming oblong bows to serve as gripping-jaws, in combination with adjustable  
45 slides that embrace said downwardly - extended wires in pairs and have projecting arms that facilitate sliding them up and down thereon for closing, holding, and releasing said jaws, all substantially as and for the  
50 purpose set forth.

3. The presser B, consisting of the two plates rounded on their edges and having smooth adjacent surfaces, combined with the bow-shaped spring 10, extending around the end  
55 thereof and bearing upon the outer central parts of the plates, as shown, for forcing them toward each other, said plates being otherwise disconnected and free to be passed over  
60 the fabric, and a supporting-clamp for holding or suspending the fabric, substantially as and for the purpose set forth.

4. An apparatus for stretching and smoothing garments, consisting of a clamp having a suspending-bar with jaws adapted for grip-  
65 ping the hem or border of the garment for suspending the same, in combination with a pair of pressing-plates connected by a yielding spring and having smooth adjacent surfaces between which the garment is inserted, said plates being adapted to be drawn down-  
70 ward over the garment from the suspending-clamp, as set forth.

Witness my hand this 10th day of September, A. D. 1889.

THOMAS VERNON NICHOLS.

Witnesses:

CHAS. H. BURLEIGH,  
ELLA P. BLENUS.