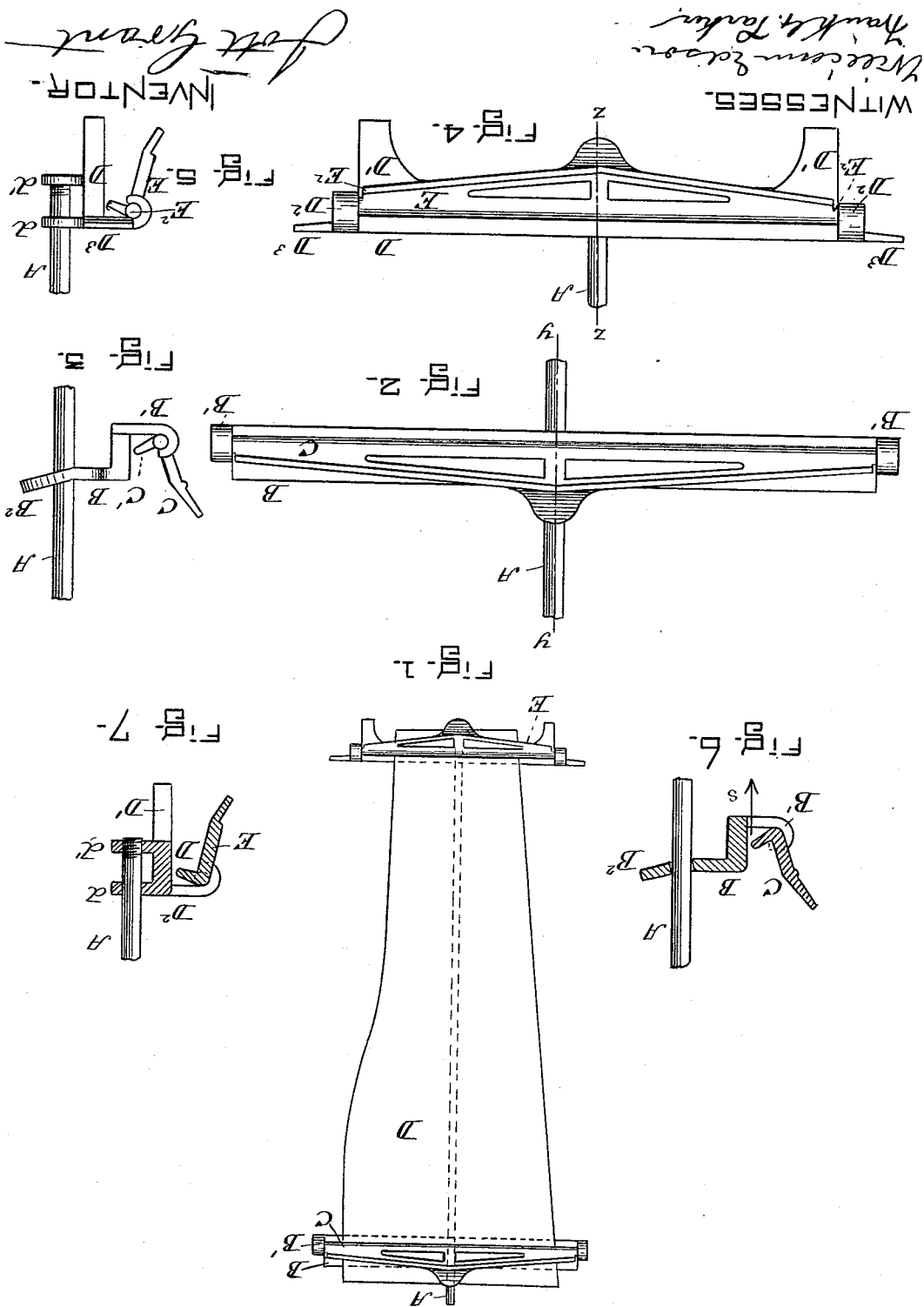


Patented Aug. 31, 1886.



# UNITED STATES PATENT OFFICE.

JOTT GRANT, OF BOSTON, MASSACHUSETTS.

## PANTALOO-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 348,203, dated August 31, 1886.

[Application filed November 23, 1885. Serial No. 183,785. (No model.)]

*To all whom it may concern:*

Be it known that I, JOTT GRANT, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Pantaloon-Stretchers, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to a device for stretching pantaloons after they have been worn, and is particularly adapted to remove what is termed "bagging at the knees," the object being to simplify the construction, so as to insure cheapness and durability, combined with compactness and ease of action. I attain this object by the mechanism shown in the accompanying drawings, in which—

Figure 1 is an elevation showing my device as applied to a pair of pantaloons. Fig. 2 is an enlarged view of the upper clamp. Fig. 3 is an end elevation of the upper clamp. Fig. 4 is a front elevation of the lower clamp. Fig. 5 is an end elevation of the lower clamp. Fig. 6 is a vertical section taken on the line *yy* of Fig. 2, and Fig. 7 is a vertical section taken on line *ZZ* of Fig. 4.

In Fig. 1 I have shown a pair of pantaloons, D, being stretched.

A in all of the drawings represents the central rod. This rod may be of one piece, or it may be made of two pieces joined at the middle by a telescopic joint. This rod may be made smooth, as represented in the drawings, or it may be corrugated or notched. The lower end of the rod A passes through the ear *d*, Fig. 5, and is screwed into the ear *d'*. The ears *d* and *d'* project from the back of the lower plate, D.

B, Figs. 1, 4, 5, and 7, is a clamp acting on the principle of a cam-buckle to hold the lower end of the pantaloons-legs in place, D<sup>2</sup>D<sup>2</sup> being curved brackets placed near the end of the plate D for the purpose of forming sockets for the rounded ends E<sup>2</sup> E<sup>2</sup> of the clamp E to turn in.

D<sup>3</sup> D<sup>3</sup>, Fig. 4, are projections to rest the user's feet upon while stretching the pants.

D' D' are short legs, which serve to keep the lower clamping device, D E, from the floor.

The upper clamping device, B C, is made very much like the lower one—that is, it has a jaw, B, and curved brackets B' B', to receive the rounded ends of the clamp C. The jaw B has a projection, B<sup>2</sup>, Figs. 3 and 6, extending from the rear near the center. Through this projection B<sup>2</sup> a hole is made somewhat larger than the rod A and somewhat inclined from the vertical, as indicated in Fig. 6, so that a strain in the direction of the arrow S, Fig. 6, will cause the rod A to be pinched in the hole made in the projection B<sup>2</sup>, and thus be prevented from sliding, although if the strain is exerted in the line near the axis of the rod A the clamp B C will slide freely upon the rod.

To use my device, I first clamp the lower ends of the pantaloons-legs upon the clamp D E, then the waist upon the upper clamp, B C. Now, by placing the lower part upon the floor and holding it down by resting the toes of my boots upon the projections D<sup>3</sup> D<sup>3</sup>, Fig. 4, and pulling firmly upon the upper clamp, B C, the pantaloons may be stretched to the desired extent, and will be held in tension by the pinching action of the projection B<sup>2</sup>. In this condition the pantaloons may remain as long as desired—that is, until the bagging is altogether removed from the knees.

I claim—

The combination of the rod A and lower clamp, D E, with the clamping-jaws B and C, the jaw B being provided with the projection B<sup>2</sup>, set at an oblique angle to the body of the clamp and having a perforation whose walls are at right angles to the plane of the angular projection, whereby a pinching action is secured with the inflexible rod passing there-through, as set forth.

JOTT GRANT.

Witnesses:

WILLIAM EDSON,  
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