

J. W. WATTLES.

Suspenders.

No. 144,042.

Patented Oct. 28, 1873.

Fig. 1

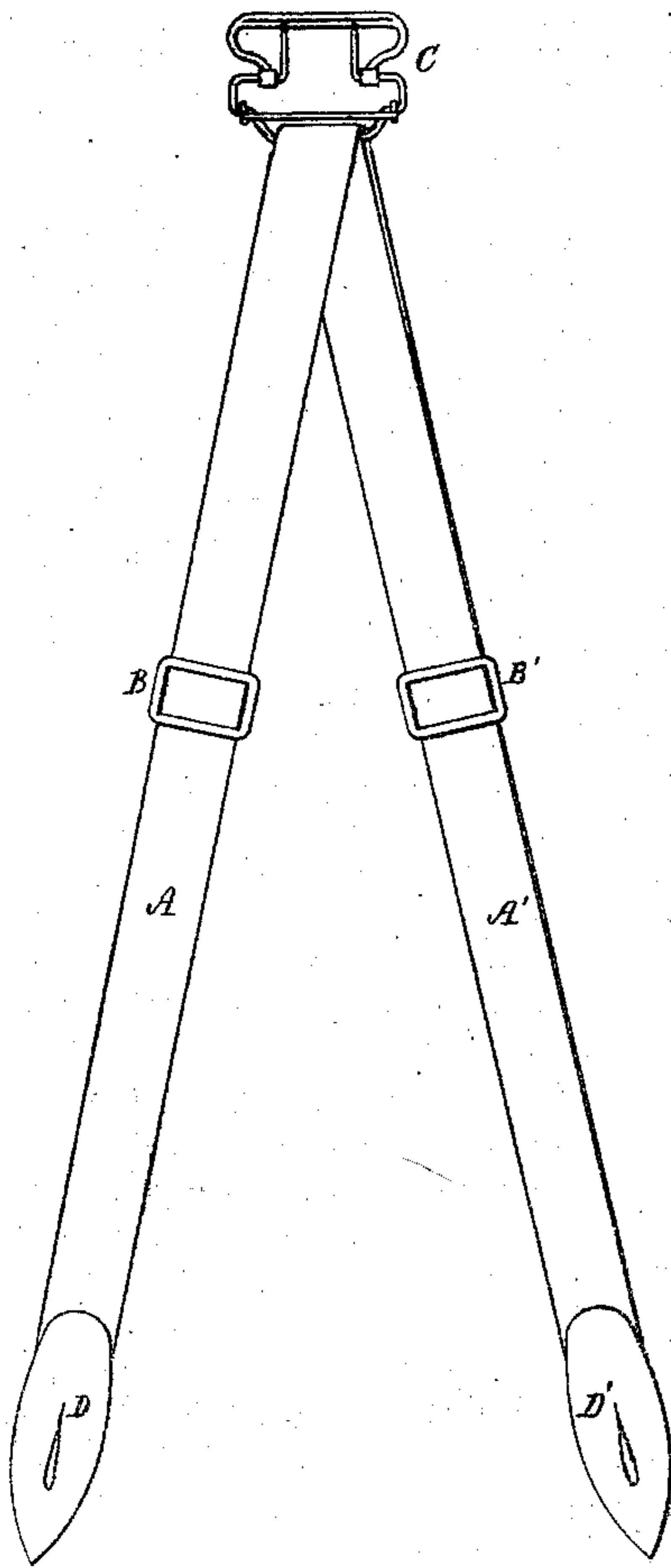


Fig. 2.

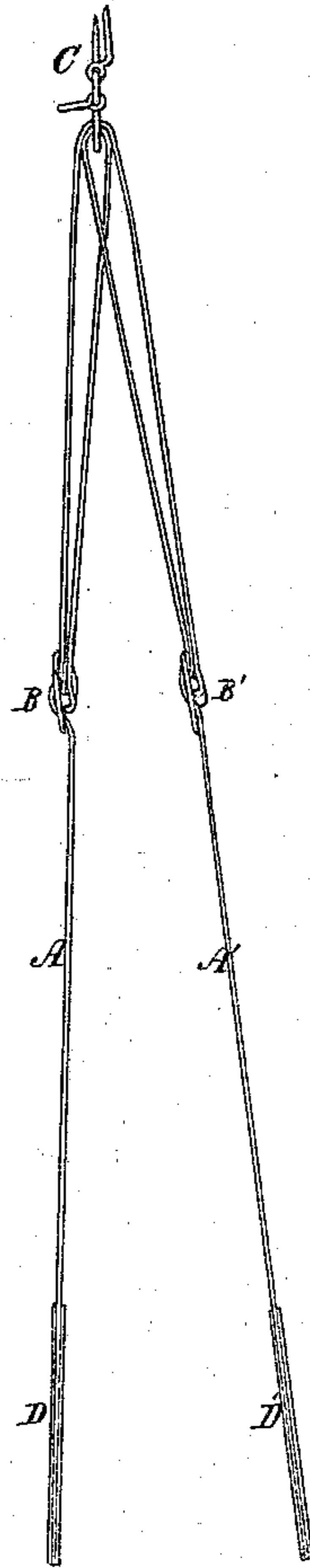
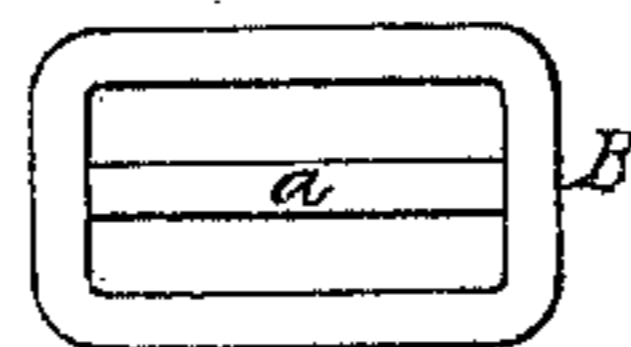


Fig. 3



Witnesses.

S. M. Piper.
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by his attorney

R. M. Eady

UNITED STATES PATENT OFFICE

JOSEPH W. WATTLES, OF CANTON, MASSACHUSETTS.

IMPROVEMENT IN SUSPENDERS.

Specification forming part of Letters Patent No. **144,042**, dated October 28, 1873; application filed September 29, 1873.

To all whom it may concern:

Be it known that I, JOSEPH W. WATTLES, of Canton, of the county of Norfolk and State of Massachusetts, have invented a new and useful Improvement in Suspenders; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 denotes a front view, and Fig. 2 an edge view, of a pair of suspender-front button-straps, and their friction-slides and shoulder-strap buckle, combined and arranged in accordance with my invention.

In carrying out my invention I take two straps, A A', of suitable and equal lengths, and fasten at its cross-bar to one end of each of said straps one of two friction-slides, B B', a front view of one of such slides being represented in Fig. 3, in which *a* denotes the said cross-bar. Next I pass each of the said straps in the same direction through the eye of the shoulder-strap buckle C, and next pass each strap twice through the slide of the other strap, the same being as shown in the drawings. Each strap, at or near its lower end, is to be provided with a button-hole or button-holed piece, D or D'.

By the said combination and arrangement of straps and slides, together and with the buckle, I not only am enabled to "take up" or "let out" each strap so as to adjust its button-

hole to different distances from the buckle, but to have the two straps capable of drawing simultaneously through the buckle, so as to readily accommodate themselves to the strain that may be brought on them from time to time.

I am aware that it has been common to apply two straps to a buckle in the manner I apply the two straps thereto, in which case the two ends of each strap were connected to those of the other by the button-hole pieces, there being no friction-slides to the two straps. It will be seen, therefore, that I have combined with the two straps the friction-slides fastened to their ends, and have run each strap through the friction-slide fixed to the other strap, such straps at their other ends being provided with button-holes or button-hole pieces D D'.

I therefore claim as my invention or improvement in suspenders—

The friction-slides B B' and the two straps A A' of a pair of front button-straps, arranged and combined together and with the buckle C of the shoulder-strap, substantially in manner and so as to operate as specified.

JOSEPH WARREN WATTLES.

Witnesses:

R. H. EDDY,
J. R. SNOW.