

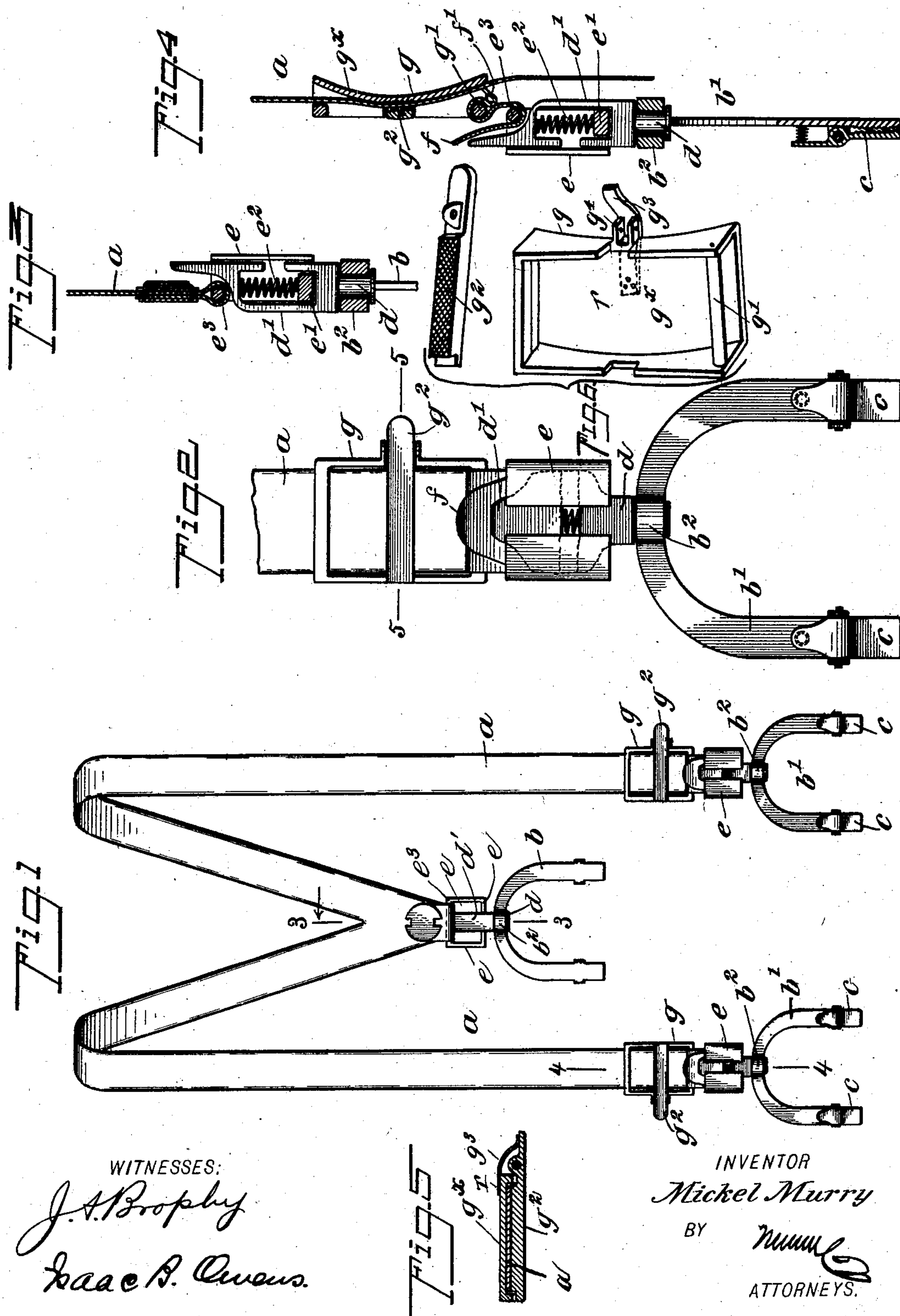
No. 747,753.

PATENTED DEC. 22, 1903.

M. MURRY.
SUSPENDERS.

APPLICATION FILED MAR. 14, 1903.

NO MODEL.



WITNESSES:

J. A. Brophy
Isaac B. Owens.

INVENTOR

Mickel Murry

BY

Murphy
ATTORNEYS.

UNITED STATES PATENT OFFICE.

MICKEL MURRY, OF MORRISTOWN, NEW JERSEY.

SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 747,753, dated December 22, 1903.

Application filed March 14, 1903. Serial No. 147,784. (No model.)

To all whom it may concern:

Be it known that I, MICKEL MURRY, a citizen of the United States, and a resident of Morristown, in the county of Morris and State of New Jersey, have invented a new and Improved Suspenders, of which the following is a full, clear, and exact description.

This invention relates to certain improvements in the construction of suspender-buckles and in the arrangement of these buckles with respect to the straps and suspender-ends.

This specification is an exact description of one example of my invention, while the claims define the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is an elevational view of a suspender equipped with my improvement. Fig. 2 is an enlarged front elevation of the buckle and suspender-ends. Fig. 3 is a section on the line 3 3 of Fig. 1. Fig. 4 is a section on the line 4 4 of Fig. 1, and Fig. 5 is a section on the line 5 5 of Fig. 2. Fig. 6 is a front perspective of the buckle employed with my suspender, the gripping-bar thereof being removed and shown in inverted position.

The suspender-straps *a* are constructed of cloth or other fabric, as is usual, and the ends *b* and *b'* are constructed of metal in U-shaped form, as shown. These ends are provided with spring-clasps *c*, which engage them with the trousers without the use of buttons.

The front suspender-ends are provided at their upper ends with eyes *b²*, in which are revolvably placed to form a swivel connection studs *d*, projecting downward from hooks *d'*, said hooks coöperating with the cheek-plates *e*, which are connected together at their lower ends by the cross-bars *e'*. Springs *e²* are interposed between said cross-bars and the hooks and attached thereto, so as to hold the parts yieldingly in the adjustment shown in Fig. 4. When strain is placed on the suspender, the springs *e²* contract and the hooks move downward with respect to the bars *e'*. The cheek-plates *e* are located at the sides of the hooks *d'* and are bent forward in front thereof, as shown in Fig. 2, thus partly inclosing the hooks. The cheek-pieces *e* are

each further connected by a second cross-bar *e³* at the upper ends thereof and with these cross-bars are engaged by hooks *f*, which swing around bars *g'*, located at the lower ends of buckles *g*, and said hooks having extensions *f'*, which serve as the main grippers to engage the suspender-straps, as shown in Fig. 4. The frames of the buckles *g* are provided with the inwardly-curved front portions *g^x*, against the centers of which the suspender-straps rest. At one side of each buckle (preferably the outer side thereof) is the bifurcated projection *g⁴*, and to the front side of each of these bifurcated projections is pivoted a clasp or gripping-bar *g²*, and this clasp is normally pressed by the spring *g³* across the central portion of said curved front into clamping engagement with the suspender-strap *a*. The gripping-bars *g²* are serrated on their inner faces to cause them to more firmly engage the suspender-straps to assist in holding the same.

The inner end of the spring *g³* is rigidly secured to the portion *g^x* of the buckle-frame by rivets *r* (see Figs. 5 and 6) or in any preferred way, while the free end of said spring presses the outer end of the bar *g²* to cause said bar to clamp the suspender-strap *a*, as already stated.

The rear suspender-end *b* is arranged essentially the same as the front ends. (See Fig. 3.) In this case, however, the cross-bar *e³* is connected directly and permanently with the straps *a*, the buckles *g* and hooks *f* being not necessary at the back. The use and advantages of this invention will be apparent.

Various changes in the form, proportions, and minor details of my invention may be resorted to at will without departing from the spirit and scope thereof. Hence I consider myself entitled to all such variations as may lie within the intent of my claims.

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

1. A suspender, comprising a suspender-end, a buckle, a hook, a swivel connection between the hook and end, a frame with which the hook is slidably engaged, a spring bearing between the frame and hook, and a second hook for connecting the frame with the buckle.

2. A suspender, comprising a suspender-end, a hook connected therewith, a frame with which the hook is slidably engaged, a spring bearing between the two, and means
5 for connecting the frame with the suspender-strap, said means comprising a hook and a buckle on which the hook is mounted to swing, said hook having an extension adapted to engage the suspender-strap, for the purpose
10 specified.

3. A suspender, comprising a suspender-end, a frame with which the end has swivel connection, a suspender-buckle, a hook carried by the suspender-buckle and connecting
15 the frame with the suspender said hook having a portion for engaging the suspender-strap.

4. A suspender, comprising a suspender-end, a hook having swivel connection there-
20 with, a cross-bar passed through the hook, a spring bearing between the cross-bar and hook, cheek-plates attached to the cross-bar, a second cross-bar extending between the

cheek-plates, and means engaged with the second cross-bar and connected with the sus- 25 pender-strap.

5. A suspender, comprising a suspender-end, a hook having swivel connection therewith, a cross-bar passed through the hook, a spring bearing between the cross-bar and 30 hook, cheek-plates attached to the cross-bar, a second cross-bar extending between the cheek-plates, and means engaged with the second cross-bar and connected with the suspender-straps, said means comprising a hook 35 and a buckle on which the hook is mounted to swing, said hook having an extension engaging the suspender-strap.

In testimony whereof I have signed my name to this specification in the presence of 40 two subscribing witnesses.

MICKEL MURRY.

Witnesses:

ISAAC B. OWENS,
JNO. M. RITTER.