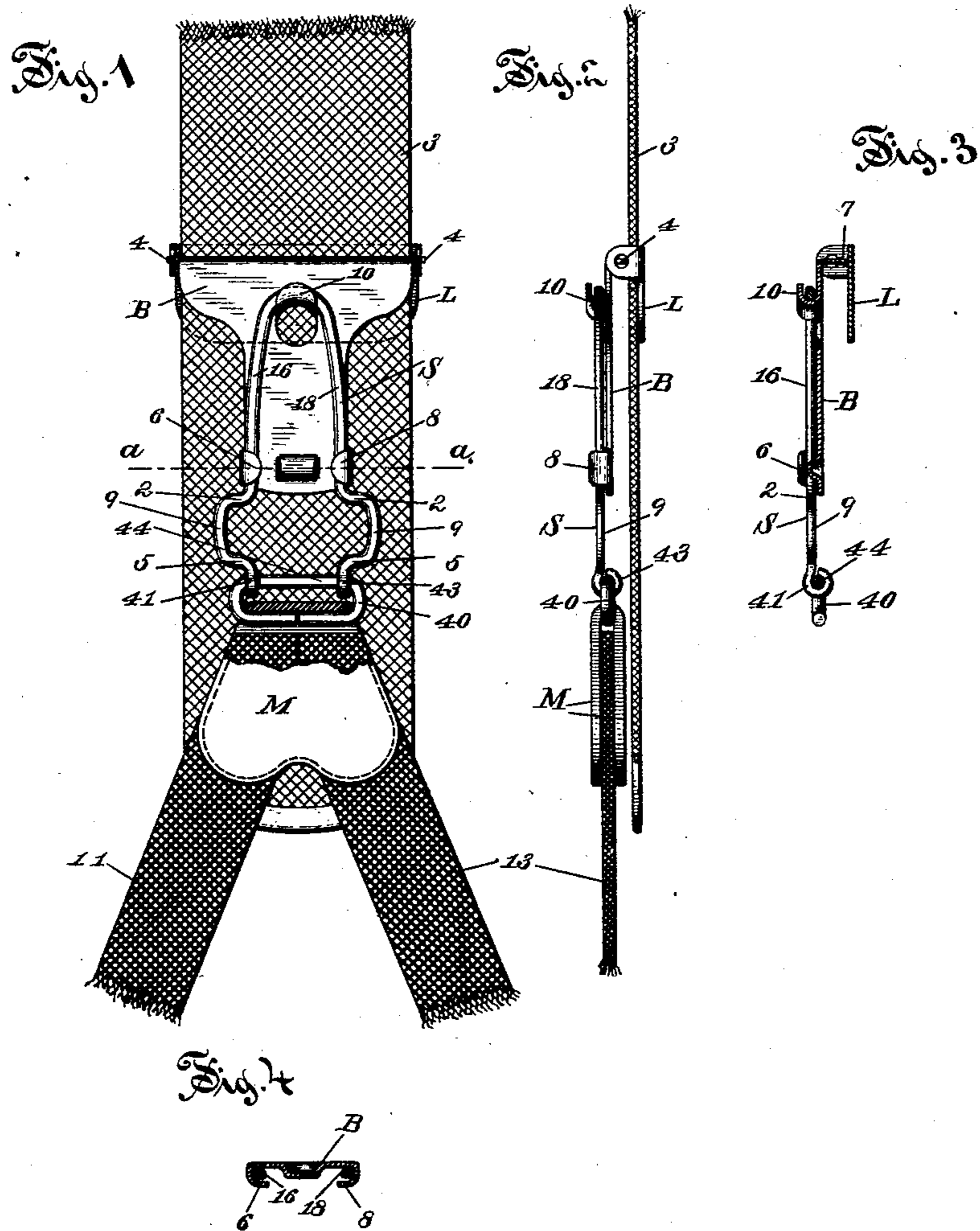


(No Model.)

F. H. RICHARDS.
SUSPENDER BUCKLE.

No. 435,451.

Patented Sept. 2, 1890.



Witnesses:
W. M. Dyorkman.
Henry L. Rickard.

Inventor:
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UNITED STATES PATENT OFFICE.

FRANCIS H. RICHARDS, OF HARTFORD, ASSIGNOR TO THE TRAUT & HINE
MANUFACTURING COMPANY, OF NEW BRITAIN, CONNECTICUT.

SUSPENDER-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 435,451, dated September 2, 1890.

Application filed May 1, 1890. Serial No. 350,234. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS H. RICHARDS, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Buckles for Suspenders, of which the following is a specification.

This invention relates to buckles for suspenders and to that class of suspender-buckles having "cast-offs," the object being to provide a buckle of that class which shall be simple in construction, cheaply manufactured, and readily operated. The invention is in the nature of a modification or improvement on the buckle described and claimed in my application, Serial No. 350,232, filed May 1, 1890.

In the drawings accompanying and forming a part of this specification, Figure 1 is a front or side view of a buckle embodying my present improvements. Fig. 2 is an edge view of the same drawn in projection with Fig. 1. Fig. 3 is a longitudinal section through the middle of the buckle. Fig. 4 is a cross-sectional view of the buckle in line *a a*, Fig. 1.

The same characters designate like parts in all the figures.

The buckle-plate B is provided with the usual holding-teeth, as 7, Fig. 3, for engaging the web 3 of the suspender, with means—as the "lever" L, carried on pivots 4 4 formed on the plate—for clamping the web 3 in engagement with said teeth to secure the plate to said web, and with means for carrying the elastic hanger S, said means consisting in a suspension-hook 10 and oppositely-disposed side catches 6 and 8, engaging the two sides 16 and 18, respectively, of said hanger S.

For carrying the usual straps, as 11 and 13, I provide the link 40, to which the straps may be attached in any convenient manner—as, for instance, by inclosing the lower side of said link by the leather coupling-piece M, secured to the straps in a well-known manner. Said link 40 is carried by the loop-shaped lower ends or eyes 41 and 43 of the sides 16 and 18, respectively, of the hanger. The loops or eyes 41 43 fit freely on the upper side of said link, so that by grasping the said hanger on the outer edges thereof it may be

closed by sliding said eyes toward each other on said rod 44 for the purpose of unhooking the hanger sides 16 and 18 from the aforesaid catches 6 and 8.

For the purpose of locking the hanger in place on its suspension-hook 10, I form in each side thereof the abrupt bend 2, close underneath said catches 6 and 8, as fully described and claimed in my aforesaid application, Serial No. 350,232. Between said bends 2 and the aforesaid eyes engaging the link 40, I form the opposite bends 5, with a short portion 9 of the hanger S intermediate to said bends. This construction keeps the aforesaid eyes sufficiently near together, as shown, so as not to require a long link, and also provides the two thumb-pieces 9 9, conveniently arranged to be grasped when the hanger is to be removed. The hanger S is or may be made of suitable spring-wire and in practice of about the proportions shown in the drawings. The link 40 is best made of a stiff wire or metal.

When the cast-off feature of the buckle is to be used, the user grasps the hanger by the bends 9 9 and closes together the sides thereof until said sides disengage from the catches 6 and 8, when the lower end of the hanger may be drawn forward of said catches and the hanger then lifted off the hook 10, thereby completing the separation of the two principal parts of the buckle.

Having thus described my invention, I claim—

1. In a buckle, the combination, with a buckle-plate provided with hanger-supporting means, substantially as described, of the hanger S, carried on said plate and having at its lower ends link-engaging eyes, and the link carried in said eyes and adapted to carry the straps.

2. In a buckle, the combination, with the buckle-plate having a suspension-hook and the side catches, of the hanger S, carried on said hook and engaging said catches, and the strap-supporting link carried by the lower ends of the hanger by a sliding connection, said hanger having the bends 2 immediately below said catches, whereby on closing the sides of the hanger toward each other to un-

hook the same from the catches the link-engaging ends of said sides slide on the link.

3. In a suspender, the combination, with the web and the straps, of the buckle-plate
5 fixable to the web and having the suspension hook and catches, the link connected to the straps, and the hanger S, engaging and

carried by said plate and engaging said link by a free connection, all substantially as set forth.

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