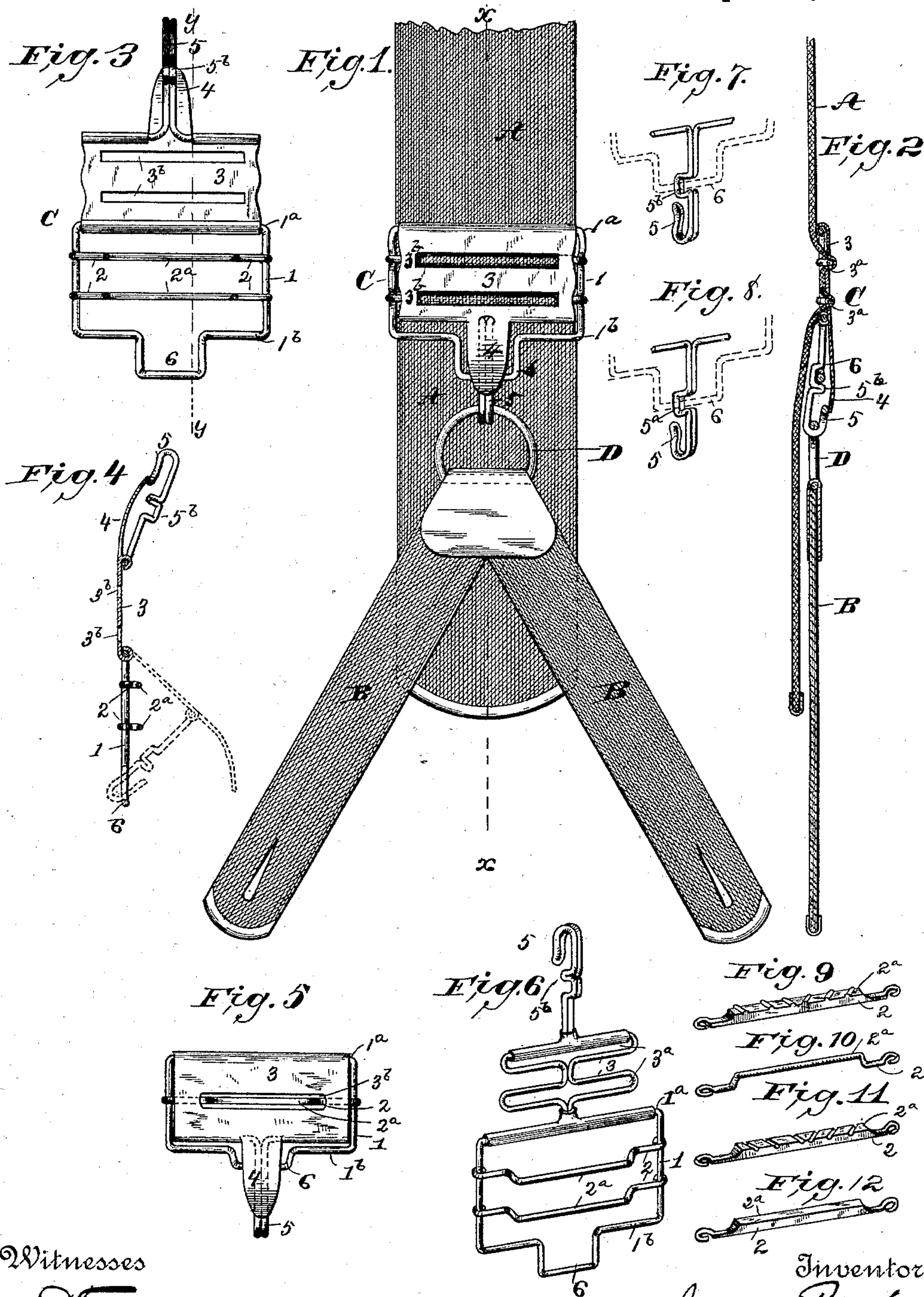


(No Model.)

J. PARKER.
BUCKLE.

No. 426,678.

Patented Apr. 29, 1890.



Witnesses

E. Twaked
Joseph Kunkel.

Inventor
Jonas Parker
By his Attorney *F. W. Ritten*

UNITED STATES PATENT OFFICE.

JONAS PARKER, OF WILLIAMSPORT, PENNSYLVANIA, ASSIGNOR OF THREE-FOURTHS TO JOSEPH KUNKEL, ISAAC C. SMITH, AND WILLIAM J. STEWART, OF SAME PLACE.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 426,678, dated April 29, 1890.

Application filed January 21, 1890. Serial No. 337,600. (No model.)

To all whom it may concern:

Be it known that I, JONAS PARKER, a citizen of the United States, residing at Williamsport, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Buckles; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, wherein—

Figure 1 is a front elevation of a portion of a suspender and tabs, showing a buckle embodying my invention in connection therewith. Fig. 2 is a section on the line $x x$, Fig. 1. Fig. 3 is a detached view of the buckle spread open. Fig. 4 is a section of the buckle on the line $y y$, Fig. 3. Fig. 5 is a modification of the buckle, wherein but a single bed-bar and a single slot in the presser-plate are provided. Fig. 6 is a modification, in which both the frame and the presser-plate of the buckle are formed of wire. Figs. 7 and 8 are views of the draft-hook, showing modified forms of spring locking-lug on the shank thereof. Figs. 9, 10, 11, and 12 show various modifications of the projecting bed-bar.

Like symbols refer to like parts wherever they occur.

My present invention relates generally to the construction of buckles, but is more especially intended to embody certain features of construction of particular value in that class of buckles which combine a bed-bar, a presser-bar or presser-plate pivoted on the bed-bar, and a tab-ring hook or draft-hook pivoted on the presser-bar, for which Letters Patent No. 417,582 were granted to me on December 17, 1889; and it consists, first, in providing the draft-hook with a lock adapted to engage the frame and lock or hold the draft-hook in position, and also hold the slotted presser-plate down on the frame and bed-bar; second, in providing the presser-plate with a lip or projection, which forms a guard, covering, or shield for the draft-hook, not only serving to prevent the escape of the tab-ring from the hook, but also the wear or fraying of the garments by the nose of the draft-hook.

There are other minor features of invention, all of which will hereinafter more fully appear.

I will now proceed to describe my invention more specifically, so that others skilled in the art to which it appertains may apply the same.

In the drawings, A indicates a strap or the web of a suspender; B B, the usual suspender-tabs or any equivalent strap; C, a buckle embodying my invention, and D a tab-ring or equivalent means of connecting the strap or straps B with the buckle.

The buckle C is composed of a frame 1, which may be of any suitable shape, and is preferably formed of wire, said frame constituting the support of one or more bed-bars 2, attached to the frame at suitable distances from the top and bottom bars of the frame 1. The bed-bar 2 has a raised central portion 2^a, which may be formed by bending the wire, if wire is used for the bed-bar, or by projecting shoulders in case a solid bed-bar is used. Any number of such bed-bars may be used, according to the width of the buckle, though one or two will generally suffice. The raised central portion 2^a of the bed-bar is of a length adapted to enter a corresponding slot in the presser-plate of the buckle. The raised central portion 2^a of the bed-bar 2 may be provided on its face with ribs running at diverging angles from the center of the bed-bar, as indicated in Fig. 9; or, what is the same thing, instead of ribs, diverging grooves may be substituted, as shown in Fig. 11. Such construction of the bed-bar will tend to spread the web and cause it to choke the orifice between the shoulders of the bed-bar and the edges of the slots of the slotted presser-plate.

Figs. 10 and 12 show the square-shouldered wire and solid bed-bar hereinbefore referred to as commonly used without groove or rib, which will suffice where the web or strap is of a character not likely to slip on the bed-bar.

Pivoted on the top bar 1^a of the frame 1 is a slotted presser-bar or presser-plate 3, having a slot or slots 3^b, corresponding in number with the projecting bed-bars 2. In case it is desired to form the whole buckle of wire, the slots 3^b may be formed by bending or folding the wire in reverse folds, as indicated in Fig. 6 of the drawings. I prefer, however, to form the presser-bar or presser-plate 3 of

sheet metal, as shown in Figs. 1, 2, 3, and 4, said plate being pivoted on the top bar 1^a of the frame and provided at its lower edge with a downwardly-projecting tongue 4, to form a

5 guard or shield for the draft-hook.

5 indicates the draft-hook pivoted on the lower edge of the slotted presser-plate and adapted to pass under the bottom bar 1^b of the frame 1. The nose of this hook may project either forward or back, as preferred, but is usually turned to the front, so as to rest under the shield or guard 4 when the said guard 4 is provided.

The shank of the hook 5 is bent, folded, or otherwise shaped, as at 5^b, to form a spring locking-lug, which engages either with the bottom bar 1^b of the frame 1 or with an offset or swell 6, formed on said bottom bar, as the case may be, the latter construction being preferable, as the swell 6 of the bottom bar facilitates the passing of the pivoted draft-hook behind the bottom bar of frame 1.

The locking-lug 5^b may be given more or less spring by forming it as an open fold or double bend, as shown in Figs. 7 and 8, and its hold on the bottom bar 1^b may be increased by concaving the locking-lug 5^b on its interior, as shown in Fig. 7. This locking-lug 5^b on the shank of the hook 5 not only serves to secure the hook, but also serves to draw down and hold the slotted presser-plate over the bed-bar and prevent the accidental shifting of the buckle C on the web A.

The construction of the buckle being of the general character hereinbefore specified, it is applied to a strap or web as follows: The buckle is spread open, as shown in Fig. 3. The web A is then passed under the top bar 1^a, over the bed or bed-bars 2, and under the bottom bars 1^b, after which the presser-plate 3 is brought down on the web, as shown in Figs. 1 and 2, the pivoted draft-hook 5 is passed under the bottom bar 1^b, so as to rest directly on the face of web A, and the locking-lug 5^b is sprung under the frame or the swell 6 thereof, so as to draw down and confine the slotted presser-plate. The draft-hook 5 will rest under the guard tongue or shield 4, which will not only prevent the escape of the tab-ring D, but will also prevent the hook 5 from wearing or fraying the garments.

Having thus described the construction and operation and advantages of my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a buckle, the combination, with the frame, of a bed-bar secured thereto, a presser-plate pivoted on the frame of the bed-bar, and a draft-hook pivoted on the presser-plate and provided with a lug or projection on its shank to engage the bottom bar of the buckle-frame, substantially as and for the purposes specified.

2. In a buckle, the combination, with the frame, of a bed-bar, a presser-plate provided with a tongue or hook shield, and a draft-hook pivoted on the presser-plate beneath the shield or tongue thereof and provided with a lug or projection on its shank to engage the bottom bar of the buckle-frame, substantially as and for the purposes specified.

3. In a buckle, the combination of a frame having a raised bed-bar, a slotted presser-plate pivoted on the frame, and a draft-hook pivoted on the presser-plate and provided with a locking-lug adapted to engage the lower bar of the frame, substantially as and for the purposes specified.

4. In a buckle, the combination of a frame having a raised bed-bar, a slotted presser-plate pivoted on the frame of the bed-bar and provided with a projecting tongue or shield at its opposite edge, and a draft-hook pivoted on the presser-plate beneath the tongue or shield and provided with a locking-lug adapted to engage the bottom bar of the frame, substantially as and for the purposes specified.

5. In a buckle, the combination, with the frame, of a bed-bar, a presser-plate pivoted on the frame, and a draft-hook pivoted on the presser-plate and provided on its shank with an open-fold spring locking-lug, substantially as and for the purposes specified.

6. In a buckle, the combination, with the frame, of a bed-bar, a presser-plate pivoted on the bed-bar frame, and a draft-hook pivoted on the presser-plate and having on its shank an open-fold spring locking-lug, the fold which forms the locking-lug being curved or concave on the interior, substantially as and for the purposes specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 20th day of January, 1890.

JONAS PARKER.

Witnesses:

R. HOMER COX,
J. T. FREDERICKS.