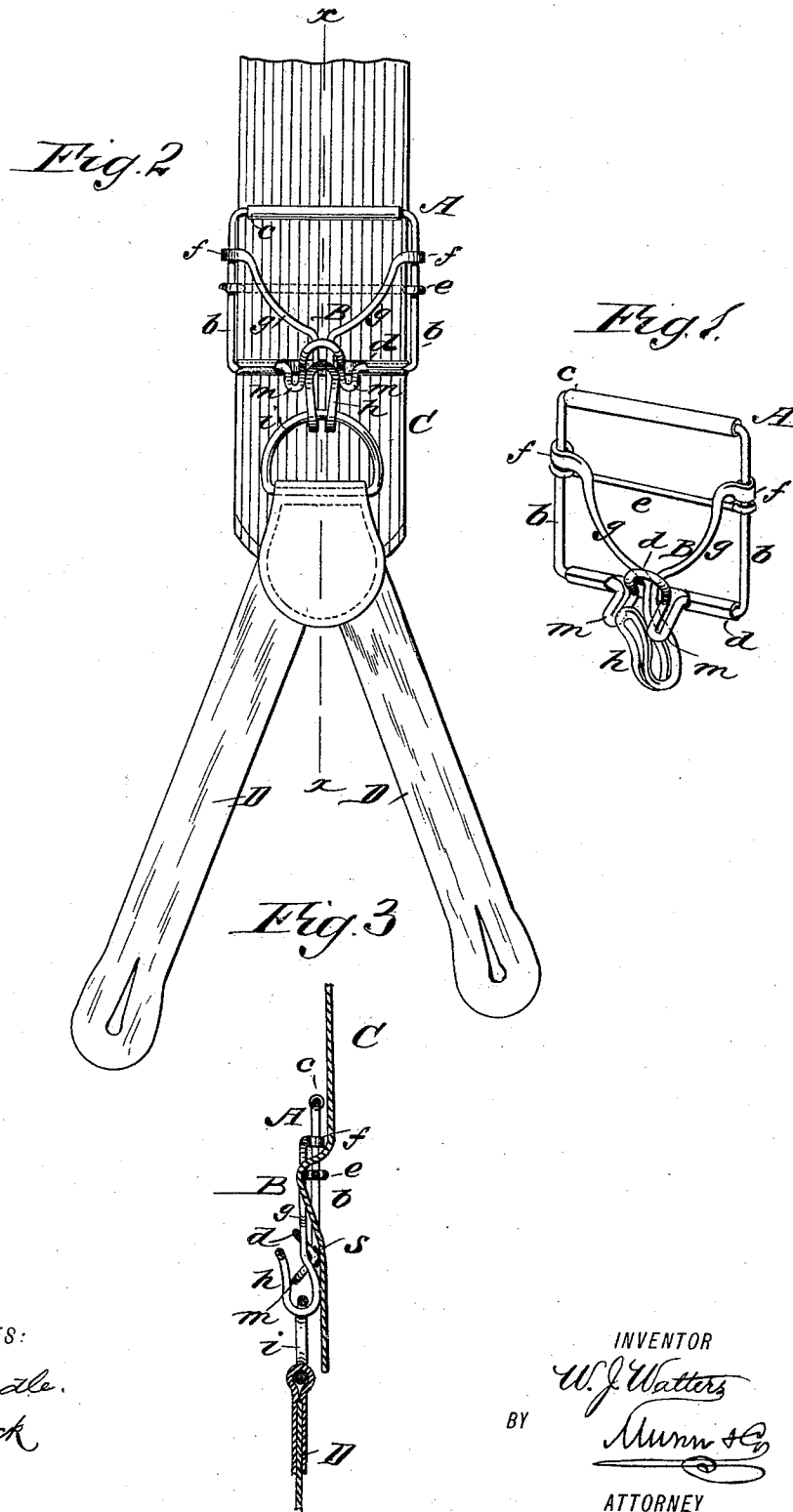


(No Model.)

W. J. WALTERS.
BUCKLE.

No. 405,514.

Patented June 18, 1889.



UNITED STATES PATENT OFFICE.

WILLIAM J. WALTERS, OF PROSPECT, NEW YORK.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 405,514, dated June 18, 1889.

Application filed March 5, 1889. Serial No. 301,884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. WALTERS, of Prospect, in the county of Oneida and State of New York, have invented a new and useful Improvement in Buckles, of which the

following is a full, clear, and exact description. This invention relates to suspender and other like buckles provided with a hook or loop to receive the suspender-straps or other parts to be attached, as, for instance, by a ring carried by said straps or parts; and the invention is more particularly designed as an improvement upon the buckle of this description for which Letters Patent No. 374,022, dated November 29, 1887, and Letters Patent No. 381,300, dated April 17, 1888, were issued to me, and it will here be described accordingly.

The invention consists in a novel construction of parts, whereby the ring which engages with the hook or loop of the buckle is restrained from dropping off or becoming unduly detached from the hook or loop, substantially as hereinafter described, and pointed out in the claim.

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

Figure 1 represents a view in perspective of a buckle constructed as in my aforesaid two Letters Patent and having my improvement, which is more particularly the subject of this specification, applied. Fig. 2 shows a front view of said buckle as improved applied to the web of a pair of suspenders in part and with the suspender-straps attached, and Fig. 3 is a longitudinal section of the same upon the line *x x* in Fig. 2.

A is the frame of the buckle, which is provided with side bars *b b*, end bars *c d*, and a cross-bar *e*, secured to said side bars.

B is the clamp of the buckle, having ends *f f* adapted to slide on the side bars *b b* of the frame, and provided with bars *g g*, arranged to project down in front of the cross-bar *e* and constructed to form a lower hook or loop *h*, also passing in rear of the lower end bar of the frame or through an opening *s* in the lower end of the frame, as shown, the whole serving to press the web C of the sus-

pender against the cross-bar *e*, as in my two patents hereinbefore referred to.

D indicates the suspender-straps provided with the usual ring or loop *i* at their upper ends for engagement with the hook or loop *h* of the clamp B.

In suspender-buckle devices of this description there is a liability of the suspender-straps D becoming detached from the buckle when they should not by the ring *i* working out of or dropping off the hook or loop *h* of the buckle or its clamp, and a mere locking-spring to prevent this is not a reliable device for the purpose, besides being expensive to attach and liable to break. To accomplish in a simple and practicable manner what such spring has been designed to effect, I substitute therefor positive stops *m m* on the lower end of the buckle-frame—one on each side of the hook *h*—and arranged to project toward the nose-end portion of said hook, but not coming in contact with it, so as to leave contracted entering-spaces between the outer ends of said stops *m m* and the nose-end portion of the hook *h* for the ring *i* to pass through one side of the hook *h* at a time, and so that when the ring *i* is pushed up it will simply pass under the stops *m m* and be arrested by them. These stops *m m*, I prefer to make integral with the lower end bar *d* of the buckle by simply crooking said bar to form said stops *m m*, as shown in the drawings, and by which construction great strength and simplicity are secured. To take the ring *i* off the hook *h* when necessary, it is simply pressed by or past one projection or stop *m*, and afterward by or past the other projection or stop *m*, and it may be similarly entered to engage with the hook again.

If desired, the bottom of the buckle-frame can be made of a separate piece of wire, which, when the buckle is closed, will form a spring. This will provide for the easy unhooking or unfastening of the buckle by pressing down on the spring with the thumb.

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

The combination, with the suspender-buckle frame A, provided with side bars *b b*, a cross-bar *e*, secured to said side bars, an up-

per end bar *c*, and a lower end bar *d*, constructed to form downwardly and forwardly projecting separated stops or projections *m* *m*, of the clamp B, having ends *f f* adapted
5 to slide on the side bars *b b* of the buckle-frame, and having bars *g g* passing over the cross-bar *c* and back of or through the lower end bar *d*, and constructed to form a hook *h* at

the lower end of the clamp between the stops or projections *m m*, essentially as and for the
10 purposes herein set forth.

WILLIAM J. WALTERS.

Witnesses:

C. B. HODGE,
R. E. DAVIES.