Aug. 7, 1923. 1,464,381

C. R. AMIDANO

BUCKLE

Filed July 10, 1922

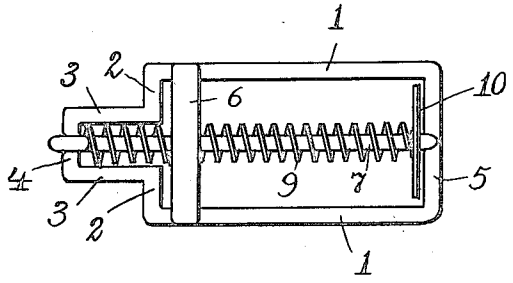
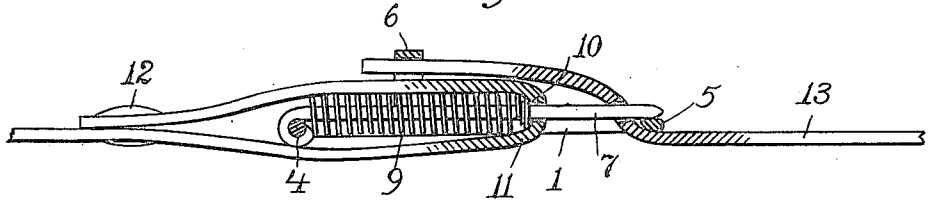


Fig. 1

Fig. 2



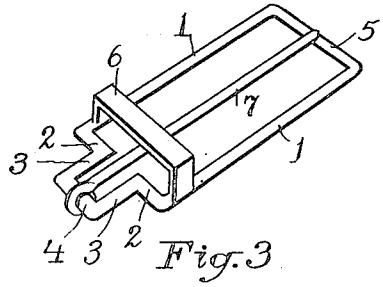


Fig. 3

Fig. 4

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UNITED STATES PATENT OFFICE.

CHARLES R. AMIDANO, OF BOSTON, MASSACHUSETTS.

BUCKLE.

Application filed July 10, 1922. Serial No. 574,100.

To all whom it may concern:

Be it known that I, CHARLES R. AMIDANO, a citizen of Canada, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Buckles, of which the following is a specification.

The object of this invention is the construction of a buckle which shall yieldingly hold the strap connected therewith, shall be of minimum cost, and which shall at the same time be capable of being easily varied in its strength of resilient pull.

In carrying my invention into effect I connect with the tongue of the buckle a preferably helical spring adapted to yieldingly press against the strap-end permanently attached thereto, the other strap-end having one of its eyes engaging the end of the tongue in the customary manner.

In addition to this resilience of pull given by the buckle, the spring mounted on its tongue aids in pressing off therefrom the strap-end when it is being unbuckled.

In the drawings forming part of this specification, Fig. 1 is a plan view of a buckle embodying my invention. Fig. 2 is a side sectional view of the same showing it in conjunction with the strap ends. Fig. 3 is a perspective view of the buckle prior to the application of the spring thereto. Fig. 4 is a perspective view of a washer used.

The frame consists of main side bars 1 each having a shoulder 2 and an extension 3, these extensions being united by a short pintle bar 4; a cross bar 5 uniting the other ends of the side bars 1; and an elevated bar or bridge 6. Upon the pintle bar 4 is pivoted a tongue 7 whose free end rests upon the cross bar 5.

Upon the tongue 7 is mounted a helical spring 9 preferably reaching for substantially its entire length, and pressing against a cross piece or elongated washer 10 slidably mounted on the tongue.

One strap-end is formed into a loop 11, preferably by means of a glove fastener 12, through the bight of which loop is an eye penetrated by the tongue 7, the washer 10 being between the spring and the loop.

The other strap-end 13 is engaged by the tip of the tongue in the usual manner, and introduced between the bridge 6 and the loop 11.

As is evident, when the strap-ends are pulled upon, the loop 1 will force the spring 9 toward the pivoted end of the tongue and thereby provide the resilient function desired. Should, however, so violent a pull be exerted as would tend to compress the spring too greatly and perhaps to make the coils telescope each other, the loop 11 comes into engagement with the shoulders 2 and is thereby held incapable of such crushing action.

By disengaging the glove fastener 12 and releasing the loop 11 from the tongue 7, the helical spring 9 may be withdrawn therefrom and a spring of greater or lesser resilience substituted therefor, thereby adjusting the buckle for the particular use desired.

Inasmuch as this buckle is especially designed for use in connection with belts, this spring adjustment is very valuable, some men preferring a tight and only slightly yielding belt for retaining their trousers in place, and others wishing the belt mainly for appearance and employing suspenders for holding their trousers up.

Since the spring and loop can be arranged for pressing the latter practically to the end of the tongue, and thereby tending to push the belt-end 13 off therefrom, the disengagement of the latter from the tongue is greatly facilitated, so that the wearer can the more easily unbuckle his belt.

The washer 10 is not essential to the operation of the buckle, but it tends to preserve the loop 11 from wear and distortion.

What I claim is:

1. A buckle having a frame, a tongue pivoted to one end of said frame and bearing against the other end of the frame, a helical spring mounted on said tongue, and a strap penetrated by said tongue and pressed by said spring toward the free end of said tongue.

2. A buckle comprising a frame, a tongue pivoted to one end of said frame and resting against the other end of the same, a helical spring mounted on said tongue, a strap having an eye penetrated by said tongue and pressed by said spring toward the free end of the tongue, and a strap having an eye penetrated by said tongue between the first-

named strap and the adjacent end of said frame.

3. A buckle comprising a frame, a tongue pivoted to one end of the frame, the latter having a bridge reaching from side to side of the frame, a helical spring slidably mounted on said tongue, a strap having a loop enclosing the spring and penetrated by said tongue, a washer slidable on said tongue between said spring and loop, and a strap penetrated by the tip of said tongue and adapted to be introduced beneath said bridge.

4. A buckle comprising a frame consisting of two side bars each having a shoulder and an extension, a pintle bar uniting said extensions and a cross bar uniting the opposite ends of said side bars, a tongue pivoted upon said pintle bar and resting upon said cross bar, a helical spring loosely mounted on said tongue, and a strap having a loop penetrated by said tongue, said shoulders serving to limit the compression of said spring by said strap.

In testimony that I claim the foregoing invention I have hereunto set my hand this 29th day of June, 1922.

CHARLES R. AMIDANO.