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S. M. RIKER

BELT OR STRAP BUCKLE

Filed June 7, 1922

Fig. 1

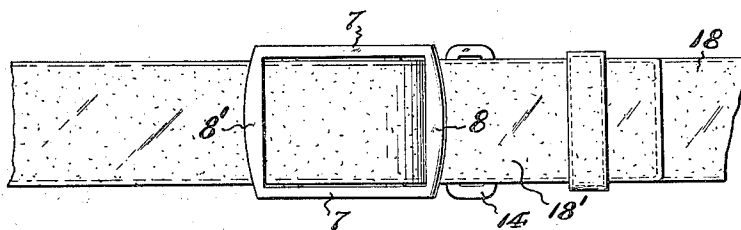


Fig. 2

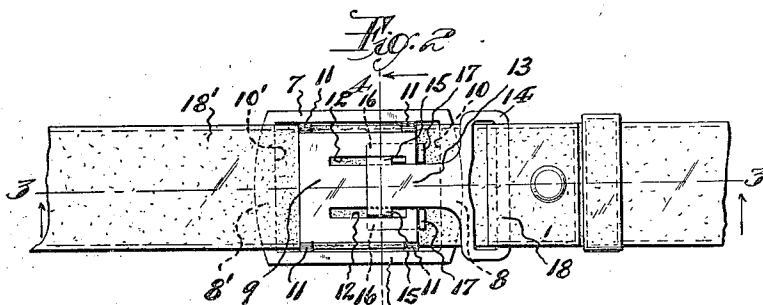


Fig. 3

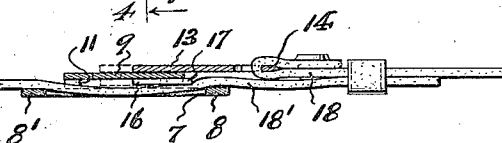


Fig. 4

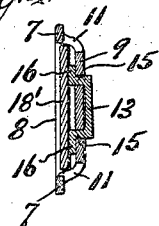


Fig. 6

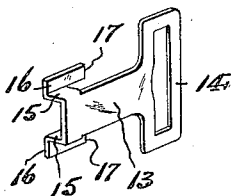
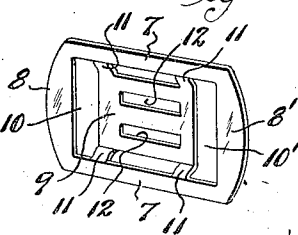


Fig. 5



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BELT OR STRAP BUCKLE.

Application filed June 7, 1922. Serial No. 566,445.

To all whom it may concern:

Be it known that I, SAMUEL M. RIKER, a citizen of the United States, residing at Chester, in the county of Morris and State of New Jersey, have invented certain new and useful Improvements in Belt or Strap Buckles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in buckles for belts, straps and the like; and the invention has reference, more particularly, to a simple and efficient construction of tongueless buckle having a novel clamping means for holding the free end portion of the belt or strap securely engaged at any point desired.

The invention has for its principal object to provide a simple construction of buckle comprised of but two parts, viz, a main body or frame, and a movable clamp element slidably associated with said main body or frame, thus reducing the parts to a minimum, and consequently providing a very cheap and easily manipulated buckle, and yet of such arrangement as to provide a very neat and pleasing appearance.

Other objects of this invention, not at this time more particularly enumerated, will be clearly understood from the following detailed description of the same.

With the various objects of this invention in view the same consists, primarily, in the novel construction of buckle for belts, straps and the like hereinafter set forth, and the invention consists, furthermore, in the novel arrangements and combinations of the devices and parts thereof, as well as in the details of the construction of the same, all of which will be more fully described in the following specification, and then finally embodied in the claims appended thereto.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a front face view of the novel buckle operatively related to a belt; Figure 2 is a rear or back face view of the same; Figure 3 is a longitudinal section through the same, taken on line 3—3 in said Figure 2; Figure 4 is a transverse section, taken on line 4—4 in said Figure 2; Figure 5 is a

perspective view of the main body or frame of the buckle; and Figure 6 is a perspective view of the clamping element of the buckle.

Similar characters of reference are employed in all of the hereinabove described views, to indicate corresponding parts.

Referring now to said drawings, the main body or frame of the buckle comprises a preferably integral structure, consisting of a pair of parallel longitudinal side bars 7 connected at their respective ends by cross bars or end members 8, and 8' and a central guide-plate 9 which is disposed intermediate the cross bars or end members 8 and 8' so as to provide transverse openings or belt passages 10 and 10' intermediate its respective ends and the respective cross bars or end members 8 and 8'; said guide-plate is preferably disposed in a rearwardly depressed or downwardly off-set plane relative to the side and cross bars, being supported from the former by means of downwardly turned connecting portions 11. Formed in said guide-plate 9 are a pair of longitudinally disposed parallel guide-slots or ways 12.

The clamp element of the buckle comprises a preferably integral structure, consisting of a slide-plate 13, provided at its outer free end with a transversely disposed loop-member 14, and at its inner end with clamp means, together with means for slidably associating the slide-plate with the main body or frame of the buckle, which in turn comprise a pair of outwardly or forwardly turned slide-lugs 15, which spring respectively from the respective side edge portions of the inner end of said slide-plate 13, at right angles to the latter; so as to project forwardly through said guide-slots or ways 12 of the main body or frame of the buckle, and so as to be longitudinally movable back and forth along said slots or ways thereof; the clamp means consists of a pair of clamp-lugs 16, turned outwardly from the respective slide-lugs 15 so as to lie in a plane parallel to the plane of the guide-plate 9, and movable upon the outer face thereof, said clamp-lugs having forwardly projecting free ends constituting clamp jaws 17.

One end of the belt or strap 18 is attached, by engaging the same through the loop-member 14, to the clamp element of the buckle. When fastening the belt about the waist of the wearer, the free end 18' is inserted beneath the cross bar or end mem-

ber 8' and outwardly through the opening or belt passage 10', to extend over the forward face of the guide-plate 9 and the clamp-lugs 16, thence being passed inwardly through the opening or belt passage 10 to extend beneath the cross bar or end member 8. During the above described manipulation of the free end 18' of the belt, the slide-plate 13 is moved rearwardly to retract the clamp-jaws 17 relative to the opening or belt passage 10 and the cross bar or end member 8 to which said clamp jaws are opposed. When tightening the belt about the wearer, an endwise strain or pull is exerted upon the belt 18, which tends to slide forward the slide-plate 13, thereby pushing forward said clamp-jaws 17 toward the cross-bar or end member 8, thus pinching the free end 18' of the belt between said cross bar or end member 8 and said clamp jaws 17, so that the said free end is strongly clamped or engaged from pulling away from the buckle, or relaxing from its tightened adjusted position about the waist of the wearer, all of which will be more fully understood from an inspection of Figures 2 and 3 of the drawings.

I am aware that some changes may be made in the various arrangements and combinations of the devices and parts, as well as in the details of the construction of the same, without departing from the scope of this invention as set forth in the foregoing specification, and as defined in the appended claims. Hence, I do not limit my invention to the exact arrangements and combinations of the various devices and parts as described in said specification, nor do I confine myself to the exact details of the construction of parts as illustrated in the accompanying drawings.

I claim:—

1. A belt or strap buckle, comprising a main frame having transverse passages at its respective ends, a slide-plate longitudinally movable on said main frame, said slide-plate having a loop-member at its outer end for the attachment of the fixed end of the belt or strap thereto, and clamp jaw devices connected with the slide-plate and cooperating with a margin of one of said transverse passages of said frame to pinch the free end of the belt or strap.

2. A belt or strap buckle comprising a main frame having cross bars at its ends, a longitudinally slotted guide-plate intermediate the ends of said frame and terminating short of said cross bars to provide belt

passages, a slide-plate having a loop-member at its outer end for the attachment of the fixed end of the belt or strap thereto, slide-lugs at the inner end of said slide-plate to ride in the slots of said guide-plate, and said slide-lugs having clamp jaws projecting forwardly therefrom toward the forward belt passage and opposed to the cross-bar contiguous thereto.

3. A belt or strap buckle, comprising a main frame having cross bars at its ends, a longitudinally slotted guide-plate connected with said main frame and inwardly off-set in a plane parallel thereto, said guide-plate terminating short of said cross-bars to provide rearward and forward transverse belt passages, a slide-plate arranged on the rear face of said guide-plate, said slide-plate having a loop-member at its forward free end, slide-lugs at the rearward end of said slide-plate to extend outwardly through the slots of said guide-plate, and clamp-jaws connected with the slide-lugs and disposed on the outer face of said guide-plate to project toward said forward belt passage in opposition to the cross-bar contiguous thereto.

4. A belt or strap buckle, comprising a main frame having transverse passages at its respective ends for the passage of the free end of the belt or strap therethrough, a slidable clamp means mounted on said main frame having a loop member at its free end for the attachment of the fixed end of the belt or strap thereto, and clamp-jaws on said clamp means adapted to pinch the free end of said belt or strap against said main frame at the outer side of one of said transverse passages when said clamp means is slid forward on the latter.

5. In a belt or strap buckle, a main frame having transversely slotted ends and a longitudinally slotted portion intermediate said slotted ends, a slidable clamp element mounted on said longitudinally slotted portion to cooperate with one transversely slotted end of said main frame, and means connected with the free end of said clamp element for the fixed attachment of a belt or strap thereto.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 1st day of June 1922.

SAMUEL M. RIKER.

Witnesses:

FRED D. FRAENTZEL,
EVA E. DESCH.