M. KRISCHER.

SUSPENDER BUCKLE.

APPLICATION FILED FEB. 15, 1912.

1,055,763. Patented Mar. 11, 1913.

Fig. 5.

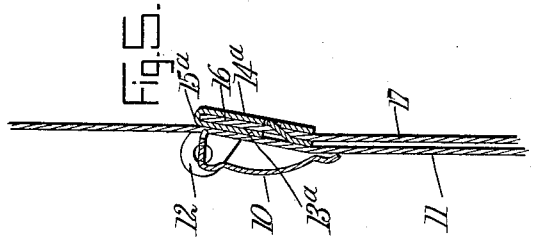


Fig. 3.

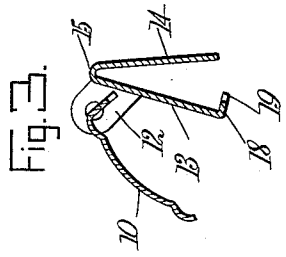


Fig. 4.

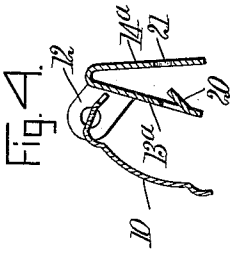


Fig. 2.

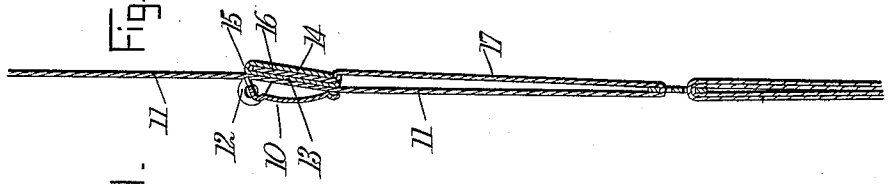
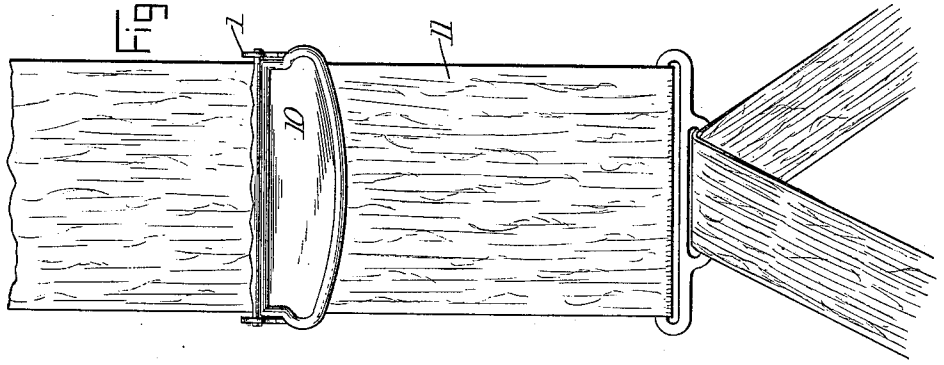


Fig. 1.



WITNESSES

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SUSPENDER-BUCKLE.

1,055,763. Specification of Letters Patent. Patented Mar. 11, 1913.

Application filed February 15, 1912. Serial No. 677,692.

To all whom it may concern:

Be it known that I, MAX KRISCHER, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Suspender-Buckle, of which the following is a full, clear, and exact description.

The invention relates to suspender buckles having provision for the attachment of an end of the webbing which extends from the buckle in a downward direction to form the down stretch of the webbing, and is then returned and runs in the form of an upward front stretch passing beneath a clamping device, ordinarily in the form of a lever, the usual suspender ends being supported from the bend or loop formed by the said downward stretch and said upward stretch.

The desiderata in buckles of this kind are a saving of metal, the keeping of the vertical dimension of the buckle particularly the back thereof, within the smallest limits, and the manufacture of the buckle by a minimum number of simple operations; my improved buckle fulfils the requirements in these respects, and by it the webbing is effectively clamped and the lower stretch formed without a double thickness of webbing at the fastened end thereof.

The clamping portion of my improved buckle consists of a back plate having the upper portion thereof return-bent to provide two approximately parallel spaced members forming a receiving pocket therebetween, which opens in a downward direction at the lower edge of the buckle. Thus a back plate is provided, having an outer member integral with the upper edge of said back plate and extending approximately parallel therewith in a downward direction and terminating adjacent to the lower edge of said back plate. In the space between the back plate and the mentioned outer, clamp member or jaw, the terminal end of the webbing is clamped, the back plate having, at or adjacent to its lower edge, a holding means co-acting with the clamp jaw, to grip the webbing a short distance below its extreme upper end to prevent any liability of the webbing pulling out under the strain of use. The webbing is thus fastened without being looped or formed with a return-bend, which is necessary in most buckles of this general character. I thus avoid forming the fastened end of the webbing into two thicknesses at the buckle.

The invention will be more specifically described, and its distinctive features more particularly stated in the detail description hereinafter to be given.

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

Figure 1 is a front elevation of the buckle embodying my invention, showing the same as applied to a suspender; Fig. 2 is a transverse vertical section taken through the buckle and webbing; Fig. 3 is a vertical transverse section of the buckle before being applied; Fig. 4 is a view similar to Fig. 3, showing another form of the buckle; and Fig. 5 is a transverse vertical section of the buckle shown in Fig. 4, illustrating the same as applied to the webbing.

In forming a buckle in accordance with my invention any improved clamping device for the front stretch 11 of the webbing is provided, as for instance, a clamping lever 10, which as illustrated, is of known form, said lever being pivoted as usual, in ears 12 that project forwardly from the back plate 13 of the buckle. In carrying out my invention the back plate 13 is given such an extension at the top above the ears 12 as to permit of bending over the back plate at the top to produce a downwardly extending rear clamp-plate member or jaw 14, the said jaw thus joining the back plate 13 at the upper U-bend 15, and being bendable to extend in a downward direction to near the bottom edge of the said back plate and spaced from the back plate to provide a pocket, as shown, which opens in a downward direction and is closed at its upper end by the U-bend 15, whereby to receive the terminal end 16 of the down stretch or the back stretch 17 of the webbing, said terminal end of the webbing extending without a return-bend into said pocket and being clamped therein by a compression of the clamp plate 14 in the direction of the back plate 13.

It will be understood that when the buckle is furnished to a manufacturer of suspenders or other equivalent garment support, the clamp plate 14 is at any suitable angle to the back plate 13, and is bendable to

assume a position approximately parallel with the back plate 13, as shown in Fig. 2, after the end 16 of the webbing has been placed against the back plate.

Coacting with the clamp plate 14, for insuring that the webbing be not accidentally pulled from its pocket, there is a holding means provided, which in the preferred form of my invention consists of a rearwardly projecting member or members; said holding means is shown as a lip 18 on the lower end of the back plate 13, said lip being of a width to extend at least to the clamp plate 14, when the latter is in its clamping position, as illustrated in Figs. 2 and 3. Desirably the outer or rear edge of the lip 18 is serrated to provide teeth lying beneath the bottom edge of the clamp plate 14, and in fact the teeth may extend to the plate 13 and thus of themselves form the lip. The construction is such that a slight bend is given to the webbing lying against the toothed ledge or lip, the teeth extending into the webbing at the said bend, or through the same; ordinarily it will be sufficient if the teeth engage the webbing without extending therethrough to the back. Desirably the proportions are such as to produce a bend sufficiently pronounced to dispose an approximately horizontal portion of the webbing beneath the lower edge of the clamp plate 14, and between the same and the lip or ledge, it being obvious that the pronounced bend will result in practically all the strain of the webbing being against the lip, and thus there will be very little tendency of the terminal end 16 to be pulled out of its pocket between the clamp plate 14 and the back plate 13. In this way I provide for effectively securing the terminal end of the webbing without the necessity of looping the same, or forming a return bend therein which would result in a double thickness of the webbing at the buckle. Moreover, the vertical dimensions of the back plate 13 and its clamp plate 14, will be comparatively small for this class of buckles, most buckles of this type requiring for the efficient fastening of the webbing the buckle having also a back plate and its clamping appurtenances presenting undesirably large vertical dimensions.

In the form shown in Fig. 4, the clamping lever 10 and ears 12 are shown of the same form as in the described construction, and also the back plate 13^a, as well as the rear clamp plate 14^a are formed integral, being joined by a U-bend 15^a at the top, as in the first described form. Instead, however, of employing the lip at the extreme end of the back plate, a series of teeth or tongues 20 are struck up from the back plate 13^a, at a point slightly above the lower edge thereof in a rearward, and preferably in a slightly upward direction toward the clamp plate 14^a, and the latter may be provided with holes 21 to receive said teeth or tongues 20. In both forms of the device the rear clamp plate substantially parallels the back plate, is joined thereto at the upper edge by a U-bend, and the two produce a pocket opening downward; and also in both forms there is provided at or near the bottom, a holding member that extends from the back plate toward the said clamp plate.

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

The herein-described suspender, consisting of webbing and a buckle, the buckle comprising a plate having ears extending forwardly from the plate at the sides thereof, at points about at the center of the plate, the said plate being bent bodily at the upper ends of said ears, the said bent portion extending in a rearward and downward direction and having its lower edge on about a line with the lower edge of the front portion or body of the plate, and a clamping lever pivoted to said ears and having an inwardly-turned clamping edge, the said downwardly and rearwardly-bent portion and the body of the plate constituting clamp jaws having their free edges at the bottom and joined at the top by a U-bend, one of said jaws having a gripping element extending toward the opposite jaw, the said jaws receiving between them the upper end of the rear stretch of the mentioned webbing, said end of the webbing extending directly between the said jaws and lying against the said gripping element, and the mentioned lever serving to clamp the front stretch of the webbing and being movable to press the front stretch of the webbing against the front surface of the body of the plate immediately adjacent to the U-bend that joins the rear portion to the body of the plate, and the said plate comprising a plane front surface extending upwardly and merging into the said U-bend.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MAX KRISCHER.

Witnesses:
J. L. McAuliffe,
J. P. Davis.