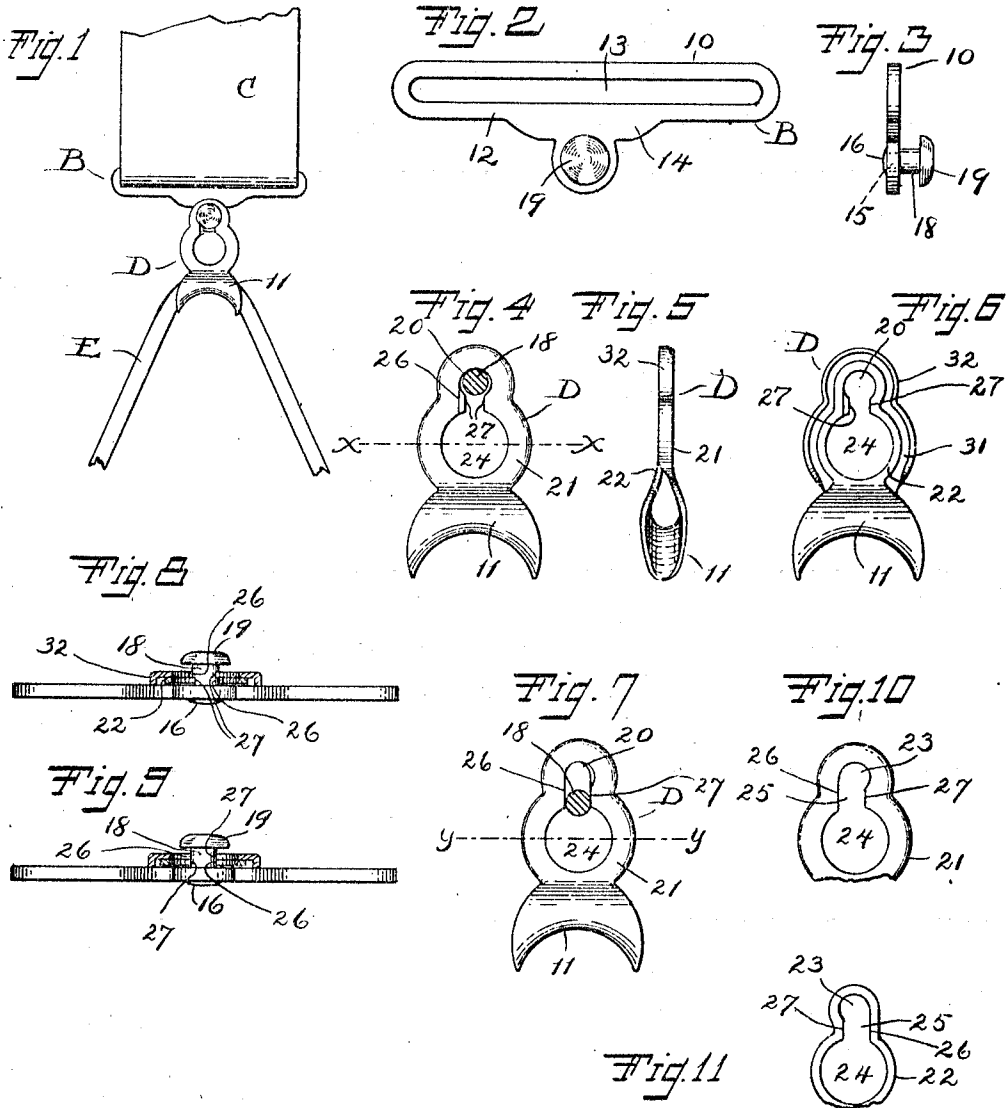


G. E. PRENTICE.
CAST-OFF.
APPLICATION FILED JUNE 7, 1912.

1,053,643.

Patented Feb. 18, 1913.



Witnesses:

S. H. Clarke

Roger Edwards

Inventor

George E. Prentice
By Louis M. Schmidt
Atty.

UNITED STATES PATENT OFFICE.

GEORGE E. PRENTICE, OF NEW BRITAIN, CONNECTICUT.

CAST-OFF.

1,953,643.

Specification of Letters Patent.

Patented Feb. 18, 1912.

Application filed June 7, 1912. Serial No. 702,338.

To all whom it may concern:

Be it known that I, GEORGE E. PRENTICE, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Cast-Offs, of which the following is a specification.

My invention relates to improvements in cast-offs and the object of my improvement is simplicity and economy in construction and convenience and efficiency in use.

In the accompanying drawing:—Figure 1 is a side elevation of my improved cast-off and part of a suspender. Fig. 2 is a similar view on an enlarged scale of the strap member. Fig. 3 is an end view of the same. Fig. 4 is a side elevation of the cord member, the neck of the stud being shown in section. Fig. 5 is an end view of the same. Fig. 6 is a rear elevation of the same. Fig. 7 is a view similar to Fig. 4, with the stud in a different position. Fig. 8 is a sectional view of the cord member on the line *x x* of Fig. 4, the strap member being shown in elevation. Fig. 9 is a sectional view of the same on the line *y y* of Fig. 7, the strap member being shown in elevation. Fig. 10 is a side elevation of the upper portion of the front arm of the cord member. Fig. 11 is a similar view of the upper portion of the rear arm.

My cast-off comprises a strap member B having at the upper end a bar 10 suitable for receiving the loop of a strap C of a suspender and a cord or loop member D having a cord eye 11 at the lower end suitable for slidably receiving the cord E of a trouser member and means for separably connecting the said strap member and cord member to be described.

The strap member B comprises a body 12 having an elongated transverse slot 13 which separates the bar 10 from the lower body portion and at the middle is provided with a downwardly extending apron 14 having a hole 15 which receives the rear end 16 of a stud and in which the said rear end 16 is secured by riveting as shown. The body portion of the stud extends forwardly from the apron 14 and comprises adjacent the said apron 14 a neck 18 and at the extreme front end a head 19.

The body 12 of the strap member B is made of sheet material of appreciable thickness, whereby a reliable connection is made

in the manner described for securing the stud to the body 12.

The cord member D comprises the cord eye 11 at the lower end and an eye 20 at the upper end suitable for engaging with the neck portion 18 of the stud and intermediate the said ends has means for engaging and disengaging the stud and the eye 20 and for locking the said stud and eye in position of engagement, and is formed entirely of one piece of sheet material.

The blank from which the cord member D is formed is an elongated strip, doubled upon itself to form a loop having a pair of upwardly extending arms comprising a front arm 21 and a rear arm 22 and the cord eye 11 at the apex. The cord eye 11 is swaged to proper shape to provide a run way for the cord E and also to provide a set to determine the relative position of the two arms 21 and 22 to provide the lock for the neck 18 and stud.

The arms 21 and 22 comprise an eye 23 at the upper end that is approximately circular, and slightly larger than the neck 18, and intermediate the eye 23 and the cord eye 11 there is a circular opening 24 of diameter such as to provide clearance for admitting the head 19 of the stud and connecting the eye 23 and opening 24 there is a passage way 25 having side walls generally parallel to the line of centers of the eye 23 and opening 24 and separated so as to slidably fit the neck 18, and positioned to one side of the said line of centers. The connecting passage 25 of the front arm 21 is positioned as shown to the left of the line of centers and the connecting passage 25 of the back arm 22 is positioned to the right of the same. As shown the left wall 26 of the passage 25 of the front arm 21 is arranged tangentially to the eye 23 and the right wall 27 thereof meets the same in the lower right hand quadrant, whereby a nose 28 is formed at the junction of the said right wall 27 and the wall of the eye 23, suitable to serve as a locking member in engagement with the lower right hand side of the neck 18. Similarly a nose 28 is formed on the back arm 22 and which serves as a left locking member. The eye 23, passage 25, and opening 24 combine to form an elongated hole having a formation somewhat like an ordinary key hole. The rear arm 22 is narrow. The front arm 21 is broad and the rear portion 31 thereof

is in the form of a bed or platform and serves as a bearing surface for the rear arm 22, and the lateral edges 32 of the arm 21 are turned rearwardly to inclose the rear arm 22 and are suitably spaced therefrom to permit of a limited relative lateral movement of the arms 21 and 22. The eyes 23 of the individual arms 21 and 22 are superimposed to form the eye 20. In other words, the front and rear arms 21 and 22 may have a limited relative lateral movement, wherefore the eye 23 and passage 25 of the front and rear arms 21 and 22 may be alternatively brought to positions of registration and non-registration.

Normally the set referred to above in the formation of the cord eye 11 operates to resiliently hold the eyes 23 in lateral engagement with the neck 18, whereby the walls 27 will be positioned below the said neck and serve to partially close the passages 25. That is, the wall 27 of one arm overlaps the space of the passage 25 of the other arm, and the two walls combine to appreciably close the outlet passage and accordingly serve as locking members to prevent the accidental escape of the said neck 18 from the eye 20, and they are resiliently held in such locking position by the resiliency of the material of the cord eye 11.

The walls 26 and 27 of the passage 25 are shown of appreciable length, which is desirable to provide for wear and life, though it is evident that these could be shortened appreciably and that the device would still be operative in the manner described.

It is apparent that some changes from the specific construction herein disclosed may be made and therefore I do not wish to be understood as limiting myself to the precise form of construction shown and described, but desire the liberty to make such changes, in working my invention, as may fairly come within the spirit and scope of the same.

I claim as my invention:—

1. A cast-off comprising a strap member and a loop member, the said strap member comprising a stud having a neck, the said loop member formed of one piece of sheet material and comprising a cord eye at the lower end, and an eye at the upper end suitable for engaging with the said neck, the said eye being located in two superimposed members extending upwardly from the said cord eye and the said cord eye serving as means for resiliently holding the said eye in engagement with the said neck.

2. A cast off comprising a strap member and a loop member, the said strap member comprising a stud having a neck, the said loop member comprising a strip of sheet material doubled upon itself to form two arms having the opposing faces in abutment and

having a cord eye at the junction of the said arms, the two arms being provided with eyes suitable for engaging with the said neck, and having a limited free lateral movement relatively one to the other, and the said cord eye operative to tend to move the said arms to one of the limiting positions.

3. A cast off comprising a strap member and a loop member, the said strap member comprising a stud having a neck and a head, the said loop member comprising a strip of sheet material doubled upon itself to form two arms having the opposing faces in abutment and a cord eye at the junction of the said arms, the said two arms provided with eyes suitable for engaging with the said neck and with openings suitable for admitting the said head and with connecting passages in each arm connecting the eye and opening, the said cord eye operative to move the said arms laterally relatively one to the other, and locking means responsive to such lateral movement and operative to lock the said neck in the said eyes.

4. A cast-off comprising a strap member having a stud provided with a neck and a head, and a loop member, the said loop member comprising a strip of sheet material doubled back upon itself to form a loop having upwardly directed arms, a cord eye at the apex of the said loop and the said arms provided each with an eye slightly larger than the said neck, an opening suitable for admitting the said head, and a passage connecting the said eye and opening of a width to fit the said neck and the said cord eye operative as a spring member to tend to move the said eyes laterally relatively one to the other.

5. A cast-off comprising a strap member having a stud provided with a neck and a head, and a loop member, the said loop member comprising a strip of sheet material doubled back upon itself to form a loop having upwardly directed arms, a cord eye at the apex of the said loop and the said arms provided each with an eye slightly larger than the said neck, an opening suitable for admitting the said head, and a passage connecting the said eye and opening of a width to fit the said neck, and the said passage off-set relatively to the line of centers of the said eye and opening in one of the said members and the said cord eye operative as a spring member to effect lateral movement of the said arms relatively one to the other.

6. In a cast-off comprising a strap member having a stud provided with a neck and a head, and a loop member, the said loop member comprising a strip of sheet material doubled back upon itself to form a loop having upwardly directed arms, a cord eye at the apex of the said loop and the said arms provided each with an eye slightly

larger than the said neck, an opening suitable for admitting the said head, and a passage connecting the said eye and opening of a width to fit the said neck, and the said passage off-set relatively to the line of centers of the said eye and opening, the passage on one arm being off-set to one side and the passage in the other arm being off-set to the other side and the said cord eye operative as a spring member to effect lateral movement of the said arms relatively one to the other. 10

GEORGE E. PRENTICE.

Witnesses:

SHEFFIELD H. CLARKE,
ROGER EDWARDS.