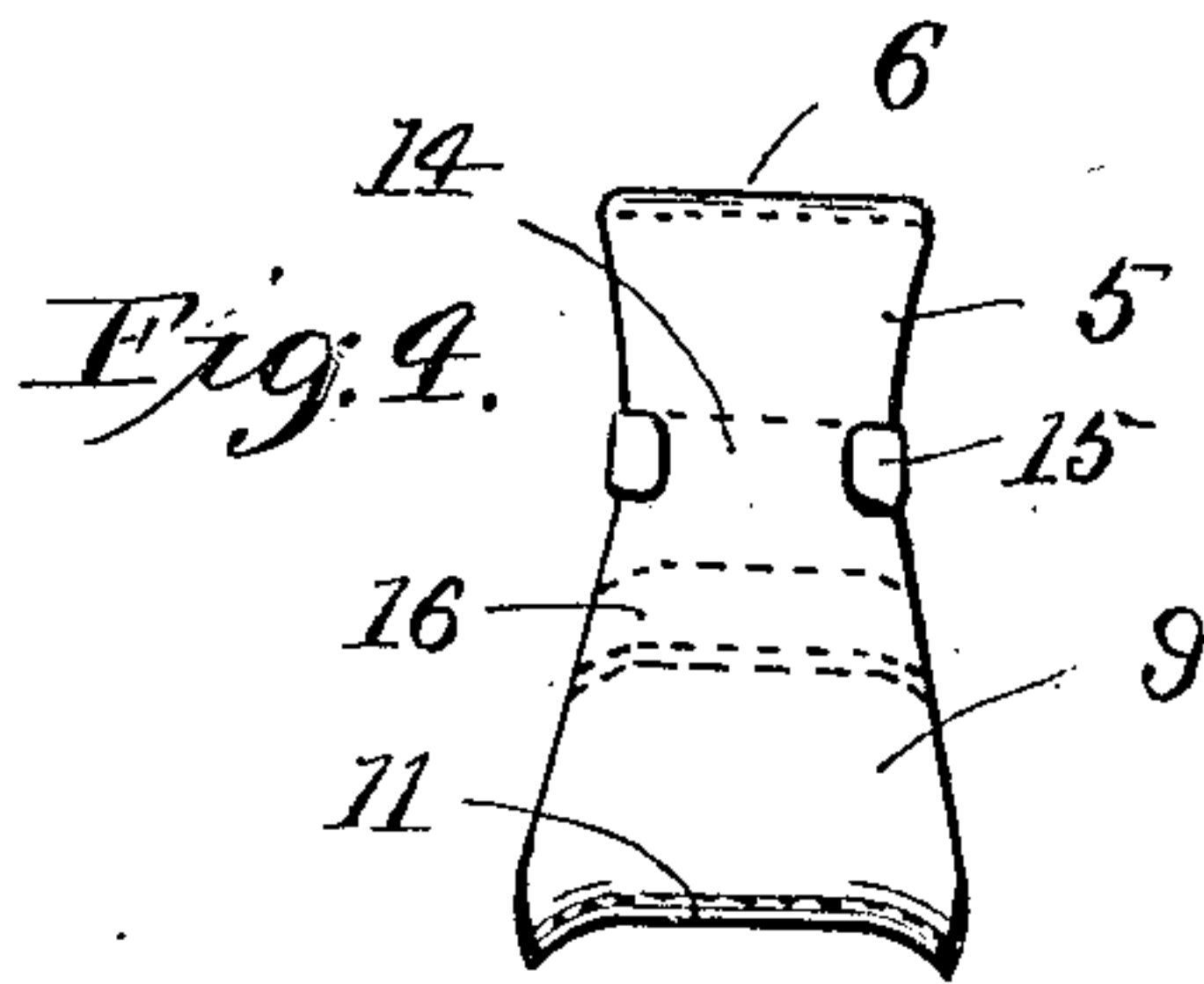
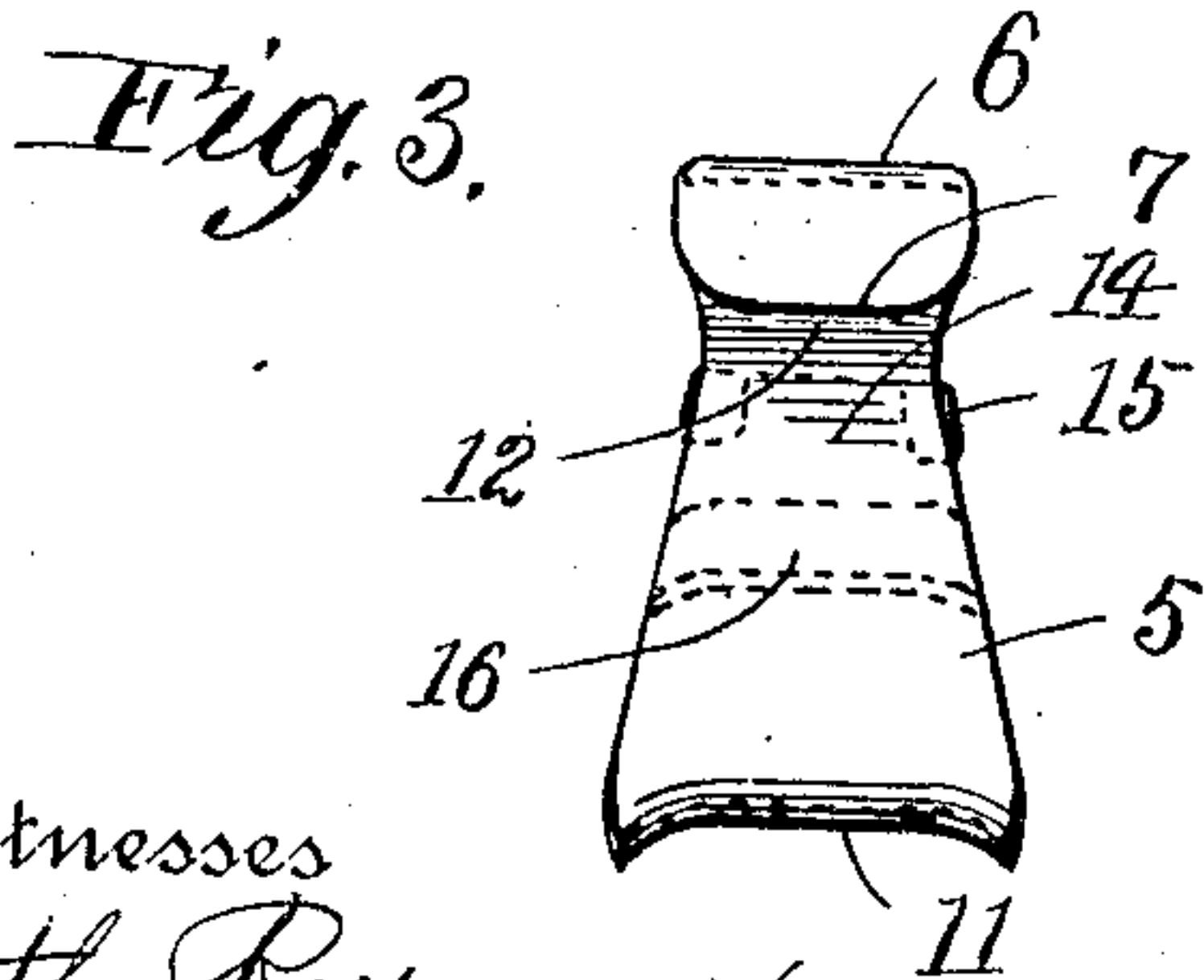
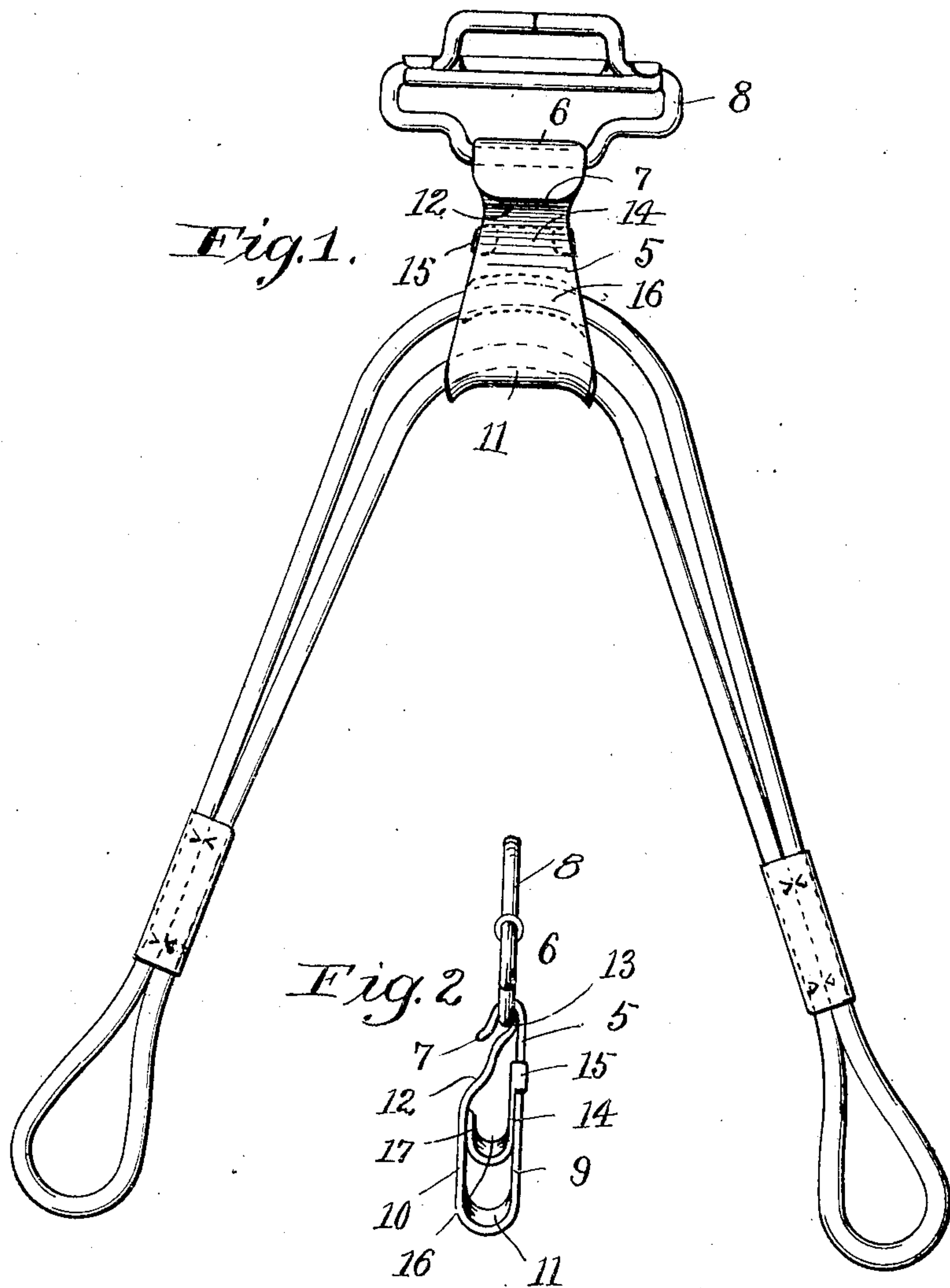


No. 876,263.

PATENTED JAN. 7, 1908.

J. J. BUCHANAN.  
SUSPENDER CAST OFF.  
APPLICATION FILED JULY 29, 1907.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN J. BUCHANAN, OF WATERBURY, CONNECTICUT, ASSIGNOR TO WATERBURY BUCKLE COMPANY, OF WATERBURY, CONNECTICUT, A CORPORATION OF CONNECTICUT.

## SUSPENDER CAST-OFF.

No. 876,263.

Specification of Letters Patent.

Patented Jan. 7, 1908.

Application filed July 29, 1907. Serial No. 386,140.

*To all whom it may concern:*

Be it known that I, JOHN J. BUCHANAN, a citizen of the United States, and resident of Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Suspenders Cast-Offs, of which the following is a specification.

My invention has reference to improvements in castoffs such as are used for the attachment of suspender loops to button engaging ends, and refers especially to what may be termed a double cord castoff.

It is the purpose of the invention to provide an improved construction of castoff which will accommodate a double cord button engaging end, having one cord arranged above the other; to provide a castoff which may be inexpensively made from sheet metal having smooth oval cord ways with rounded ends to insure the free movement of the cords therethrough, and finally to provide a castoff which will securely engage the loop, yet may be readily disengaged therefrom as occasion may require.

Upon the accompanying drawings forming a part of this specification similar characters of reference denote like or corresponding parts throughout the several figures, and of which,

Figure 1, shows a side elevation of a double cord suspender end, showing my improved castoff and loop applied thereto. Fig. 2, is a disconnected edge view of the castoff seen in Fig. 1. Fig. 3, is a disconnected front elevation of the castoff shown in Fig. 1, and Fig. 4, is a disconnected rear elevation of the same.

My improved castoff is constructed of two pieces of sheet metal, blanked up, formed and assembled in a way to provide an upper and lower cord way, a hook and a tongue to operate in connection therewith in a manner to engage a suspender loop.

Referring in detail to the characters of reference marked upon the drawings, 5 indicates the main strip of sheet metal which is provided at one end with the hook portion 6 having a suitably shaped end 7 to insure its connection with the loop 8 such as is commonly connected with suspender webbings, (not shown). The back 9 of said strip is straight while the intermediate portion is bent and turned up to form the front 10 which is disposed parallel to the back, and

to produce the bottom cord way 11. The front end portion is deflected inward under the hook 6 to form an inclined spring portion 12 having its extremity 13 disposed under the said hook and adapted to operate in conjunction therewith to engage the before mentioned loop which is obviously retained in position intermediate the front portion 7 and the end 13. A second strip 14 is inserted between the said front and back portions to form the upper or second cord way and comprises a U-shaped or hook like strip provided at its upper rear edge with lugs 15 which pass around and are clenched to the edges of the back portion of the castoff. The intermediate portion of the strip is formed into a cord way 16 which is substantially parallel to the bottom 11, but spaced from the same and obviously adapted to carry the upper strand of the suspender end in the same manner that the lower cord way supports the lower strand. The front extremity 17 of said second strip is disposed upward parallel with the back 14 and against the inside of the front 10 to rigidly engage the same and insure the proper spacing of the front from the back.

From the construction described it will be noted that a double cord castoff is produced wherein the respective cords of the button engaging end, are properly separated in a way to insure their free and uniform movement without unduly wearing or injuring the same. Further that the castoff will properly and securely retain the loop and may be conveniently and quickly disengaged therefrom or engaged therewith as occasion may require.

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

1. A castoff comprising a strip having a hook formed at one end and a cordway formed at an intermediate portion with its opposite end inclined and terminating under the said hook, and a second strip attached to the first strip and forming a second cordway and located above the first cordway.

2. A castoff comprising a strip having a hook formed at one end and a cordway formed at an intermediate portion with its opposite end inclined and terminating under the said hook, and a strip attached to the back of the castoff and forming a cordway located above the first said cordway.

3. A castoff comprising a strip having a hook formed at one end and a cordway formed at an intermediate portion with its opposite end inclined and terminating under  
5 the hook, a strip having lugs which embrace the edges of the rear portion of the castoff and which forms a cordway located above the first said cordway.

10 4. A castoff comprising a strip having a hook formed at one end and a cordway formed at an intermediate portion with its opposite end inclined and terminating under the hook, and a U shaped strip intermediate

said front and back having means for its attachment to one side of the hook and adapted 15 to engage the opposite side to properly space the said front and back and to form a cordway therebetween.

Signed at Waterbury, in the county of New Haven, and State of Connecticut, this 20 24th day of July, A. D., 1907.

JOHN J. BUCHANAN.

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