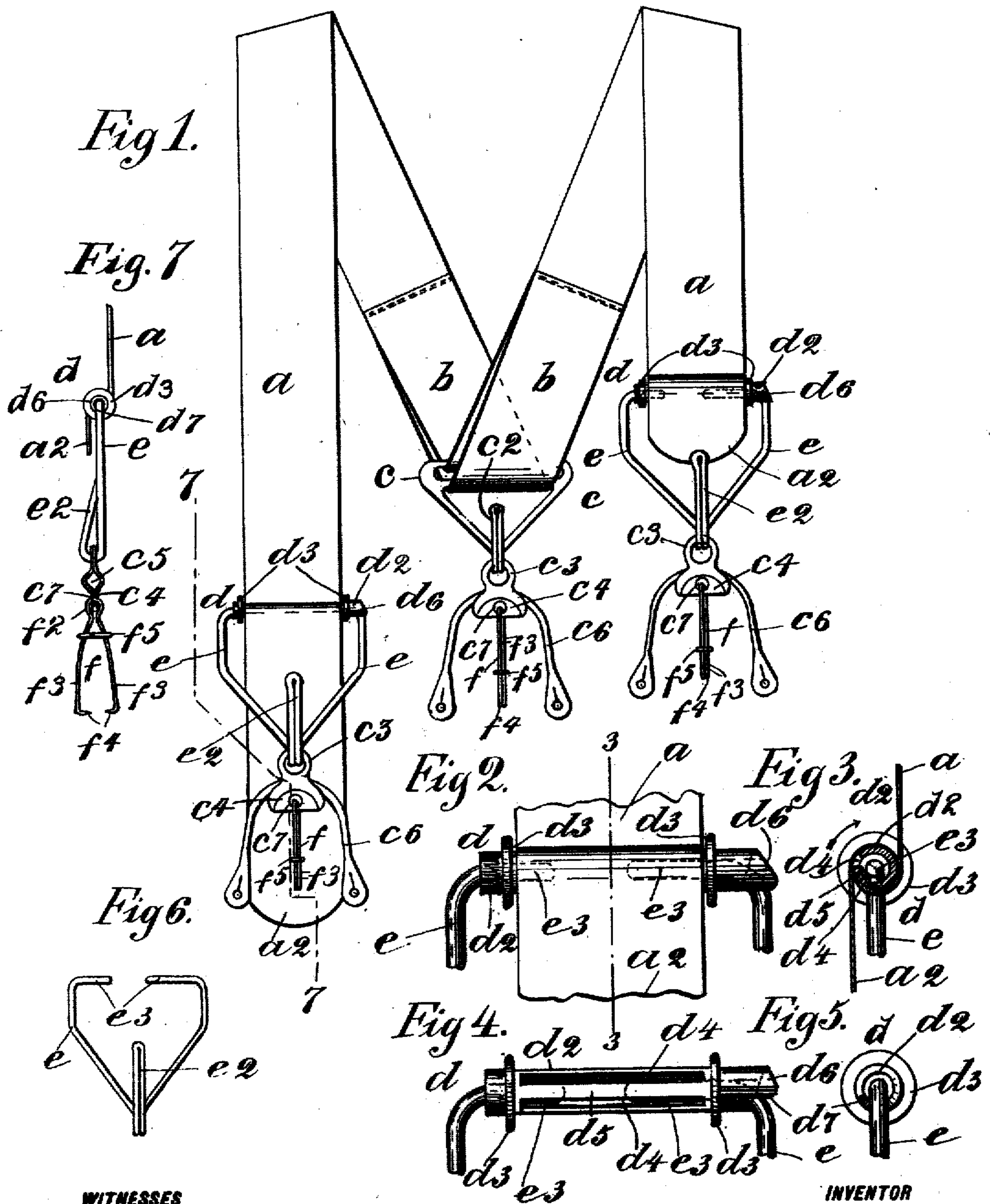


No. 814,344.

PATENTED MAR. 6, 1906.

B. J. BACON.
SUSPENDERS.

APPLICATION FILED NOV. 8 1904.



WITNESSES
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SUSPENDERS.

No. 814,344.

Specification of Letters Patent.

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Application filed November 8, 1904. Serial No. 231,850.

To all whom it may concern:

Be it known that I, BENJAMIN JAMES BACON, a subject of the King of Great Britain, residing at Sydney, New South Wales, Australia, have invented certain new and useful Improvements in Suspenders, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

10 This invention relates to trousers-suspenders; and the object thereof is to provide improved roller-strap attachments for suspenders of this class which take the place of ordinary buckles and by means of which the ends
15 of the straps may be secured and adjusted to any desired extent without puncturing or otherwise injuring said straps; and with this and other objects in view the invention consists in the construction, combination, and
20 arrangement of parts hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the
25 separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a front view of a pair of suspenders constructed according to my invention;
30 Fig. 2, a similar view of one of the roller attachments, on an enlarged scale and showing a suspended strap wound thereon; Fig. 3, a section on the line 3 3 of Fig. 2; Fig. 4, a view similar to Fig. 2, showing the suspender-strap detached; Fig. 5, an end view of the device as
35 shown in Fig. 4; Fig. 6, a front view of a detail of the construction; and Fig. 7, a sectional side view of one of the suspending devices, including the roller attachment, and two of
40 which are employed at the front of the suspenders, the section being on the line 7 7 of Fig. 1.

In the practice of my invention I provide two ordinary flexible straps *a*, which are connected at their rear ends by a double elastic
45 web member *b*, a link member *c*, having a transverse bar and forming what I call a "double link member," which is movable freely thereon and provided with a V-shaped
50 bottom portion provided with a hook *c*², from which is suspended an eye-ring attachment *c*³, having a bottom portion *c*⁴, the top of which is curved or segmental in form and provided with an eye *c*⁵, through which is passed
55 a flexible cord or strap *c*⁶, which may be and is preferably made of elastic material, and in

the central bottom portion of the part *c*⁴ of the eye-ring attachment *c*³ is a hole *c*⁷, by means of which is suspended a spring-clamp device *f*, comprising a top loop-shaped portion *f*², spring side arms *f*³, having inwardly-directed teeth *f*⁴ at their lower ends and a double link-shaped slide *f*⁵, mounted on the arms *f*³ and adapted to compress the free
60 ends thereof, so as to grasp and hold the waistband of the lower garments, either drawers or trousers. The eye-ring attachment *c*³, however, together with the flexible cord or strap *c*⁶ and the spring-clamp device *f*, are not claimed in this application, but are
70 made the subject of a divisional application filed June 27, 1905, Serial No. 267,185.

Connected with the front ends of the suspender-straps *a* are my improved roller attachments *d*, which comprise in the form of
75 construction shown a tubular casing *d*², provided near each end with a flange or collar *d*³, between which are two longitudinal slots *d*⁴, whereby a longitudinal tongue or strip *d*⁵ is formed, and in practice the ends of the straps
80 *a* are passed through one of the slots *d*⁴ and folded around the tongue or strip *d*⁵ and passed out through the other slot *d*⁴ and folded around the tubular casing *d*², and the ends *a*² of the straps *a* depend from the roller attach-
85 ments *d* the same as from an ordinary buckle. One end of the tubular casing *d*² is cut off spirally, as shown at *d*⁶, and formed therein is a notch or recess *d*⁷, and suspended from the said tubular casing *d*² is a link member *e*,
90 which is shown detached in Fig. 6 and the bottom portion of which is provided with a hook *e*² and the top side portions thereof with inwardly-directed fingers *e*³, and the link member *e* is made of spring metal, and the fingers
95 *e*³ are sprung into the ends of the tubular casing *d*², and one side of said link member enters the notch or recess *d*⁷ in the end of said tubular casing and prevents the rotation thereof, and whenever it is desired to turn
100 the tubular casing, so as to wind up or unwind the end of the strap *a*, the side or sides of the link member *e* are forced apart, so that the tubular casing *d*² may be turned, and when the strap is properly adjusted or wound
105 or unwound the side or sides of the link member *e* spring back into position, as shown in Fig. 4, and the rotation of the tubular casing *d*² is prevented.

Suspended from the hooks *e*² of the link members *e* at the front of the suspenders are suspending devices consisting of the parts *c*³,

c^6 , and f , similar in all respects to the suspending device connected with the link member c at the back of the suspenders, and the straps or cords c^6 are designed for the purpose of making connection with buttons connected with the waistband of a pair of trousers, while the supplemental clamp suspending devices f are designed for use in case the buttons should break off and may also be used for suspending a pair of trousers in the ordinary or usual manner when the straps or cords c^6 are used for suspending the trousers.

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

1. A roller-strap attachment for suspenders, comprising a tubular casing having collars or flanges near its opposite ends, a longitudinal strip extending between said collars or flanges, one end of said casing being spiral in form and provided with a notch or recess and a link device suspended from said casing and the sides of which are provided with

spring-fingers adapted to enter the ends of said casing, substantially as shown and described. 25

2. A roller-strap attachment for suspenders, comprising a tubular casing having a longitudinal strip at one side thereof and one end of which is provided with a notch or recess, and a link member provided with spring-fingers adapted to enter the end of said casing, substantially as shown and described. 30

3. A roller-strap attachment for suspenders, comprising a tubular casing having a longitudinal strip at one side thereof and one end of which is spiral in form and provided with a notch or recess, and a link member provided with spring-fingers adapted to enter the ends of said casing, said link member being provided with a hook, substantially as shown and described. 35 40

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Witnesses:

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