

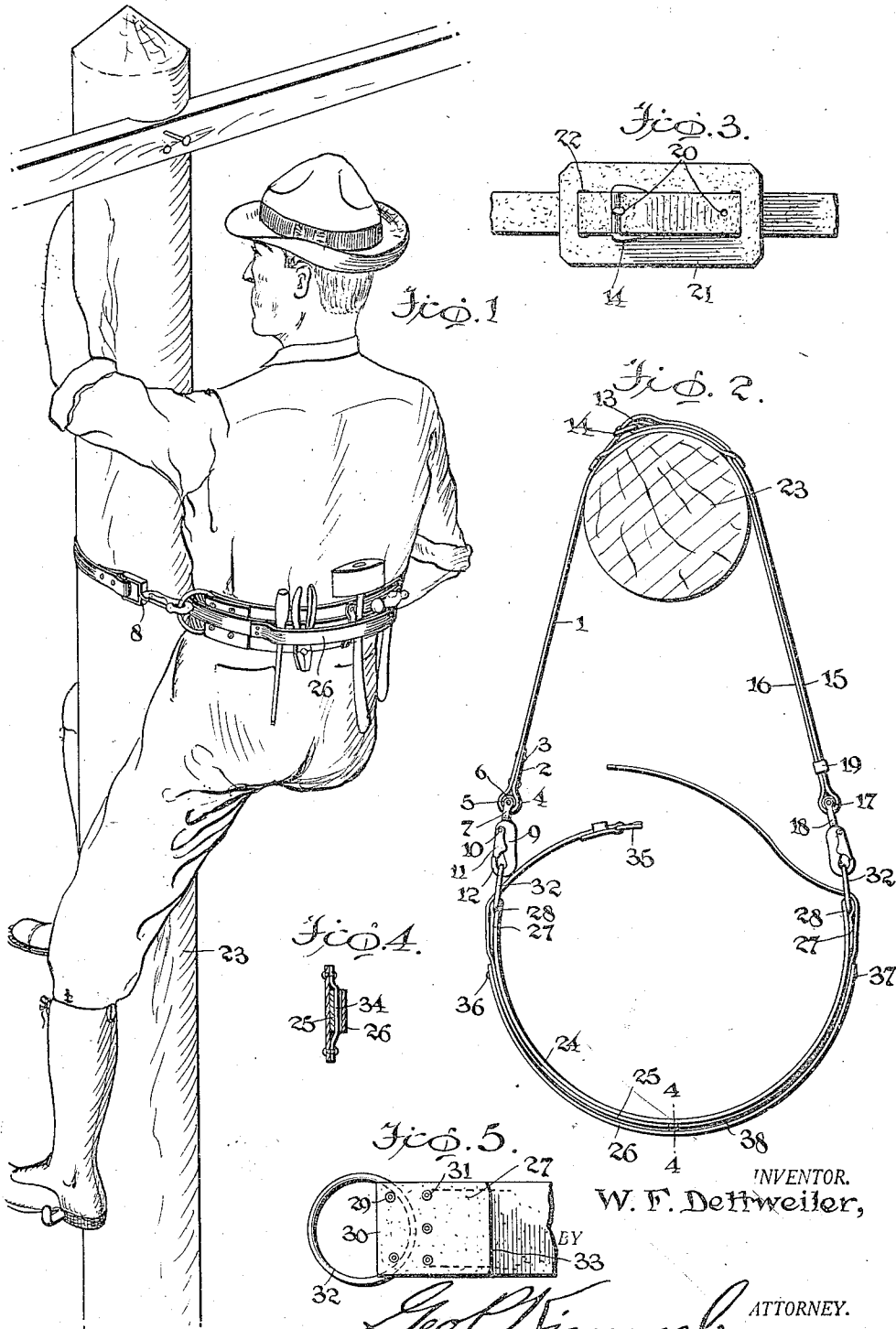
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BELT

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UNITED STATES PATENT OFFICE.

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BELT.

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To all whom it may concern:

Be it known that I, WILLIAM F. DETTWEILER, a citizen of the United States, residing at Upland, in the county of San Bernardino and State of California, have invented certain new and useful Improvements in Belts, of which the following is a specification.

This invention relates to belts, and is designed primarily for the use of linemen, but it is to be understood that a belt in accordance with this invention can be employed for any purposes wherein it is found applicable, and the invention has for its object to provide, in a manner as hereinafter set forth, a belt including a supporting element, and a coupling element which is adapted to be secured to the waist of a lineman, and is employed for coupling the supporting element to the lineman and with said coupling element including a main and auxiliary section, the former having the supporting element detachably connected therewith and the latter slidably connected to and extending through the main section and completely encircling the waist of the lineman and acting as a safety means to maintain the belt connected to the lineman if the main section should break, under such conditions giving the lineman ample warning thereby avoiding accidents.

A further object of the invention is to provide, in a manner as hereinafter set forth, a belt designed primarily for the use of linemen and which includes an adjustable supporting element to provide for reducing or increasing the length thereof and further providing the said element with a wear reducing member abutting when the element is in supporting position against the object to which the element is connected, thereby reducing wear on the element to a minimum, under such conditions increasing the life of such element.

A further object of the invention is to provide, in a manner as hereinafter set forth, a belt for the use of linemen, including a coupling element formed of a main and an auxiliary section and with the auxiliary section provided with means to support and connect to the wearer of the belt such tools as are necessary to be used by the lineman.

Further objects of the invention are to provide, in a manner as hereinafter set forth, a belt for the use of linemen, which is com-

paratively simple in its construction and arrangement, adjustable, unusually strong, durable, thoroughly efficient and convenient in its use, readily assembled and comparatively inexpensive.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts, as hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:—

Figure 1 is a perspective view illustrating the adaptation of a belt in accordance with this invention, when worn and in supporting position.

Figure 2 is a top plan view of the belt and further illustrating the same connected with a pole.

Figure 3 is a fragmentary view of the supporting element, illustrating the wear member forming a part thereof.

Figure 4 is a section on line 4—4, Figure 2.

Figure 5 is a fragmentary view in elevation, of one end of the main section of the coupling element.

Referring to the drawings in detail, a belt in accordance with this invention comprises a supporting element and a coupling element and with the former having means for detachably connecting it with the latter, and the said supporting section comprises a substantially elongated strap 1 of any suitable material, preferably heavy leather, and of the desired thickness. One end of the strap 1 is bent upon itself as at 2 and riveted together, as at 3 to provide a loop 4, in which is arranged a roller 5, mounted on a pintle 6, secured to the arms 7, of a yoke 8, having formed integral therewith the hook-shaped section 9 of a snap hook. Pivotaly connected to the section 9, as at 10, is the snap 11 which associates with the bill 12 of the section 9 for the purpose of maintaining the snap hook closed.

The other end of the belt 1 is bent upon itself and the overlapping parts secured together to provide a loop 13, which is em-

ployed for connecting a buckle 14 with the belt 1. Intermediate its ends, the belt 1 is folded upon itself to form an outer portion 15 and an inner portion 16; and the bend between the folds constitutes a loop 17, for connecting to the belt 1, a snap hook 18 of a construction similar to the snap hook hereinbefore referred to. The loop 17 is maintained closed by a slide 19 mounted on the portions 15 and 16 of the belt. The portion 16 of the belt carries the buckle 14 and the latter in connection with the perforations 20 formed in the belt 1, provides means for adjusting the length of the supporting element, and the slide 19 when the length of the supporting element is adjusted maintains the loop 17 closed.

The supporting element further includes a wear member, which is constructed of any suitable material, preferably leather, is rectangular in contour and of the desired length. The said wear member is indicated at 21 and is provided near each end with a transversely extending slot 22 for the passage of the belt 1, and said wear member 21 is of materially greater width than the width of the belt and is so set up with respect to the belt that the buckle 14 will be arranged exteriorly of said member and the latter provides means to protect the strap from being cut through by the buckle and when the supporting element is set up, the wear member 21 is positioned against the pole 23, under such conditions reducing wear on the supporting element to a minimum.

The coupling element comprises a main section 24, an auxiliary section 25, and a tool supporting member 26. The sections 24, 25 and member 26 are constructed of any suitable material, preferably heavy leather, but the main section 24 is of materially greater width than the section 25 or the member 26. The auxiliary section 25 is of materially greater length than the length of the section 24 or the length of the member 26.

The main section 24 is of a length to extend around the back and at the sides of the lineman, as shown in Figure 1, and each end of the section 24 is folded outwardly upon itself, as at 27, to provide a loop 28. The bent portion 27 is secured in position by two spaced rows of rivets and with one of the rows as indicated at 29, positioned in close proximity to the bend 30 and with the other row of rivets, as indicated at 31 spaced from the row 29. The loop 28 is employed for connecting a ring 32 of a diameter greater than the width of the main section 24, to the said main section 24 and with the ring extending through the loop 28 between the rows of rivets 29 and 31 and further with the major portion of the ring projecting forwardly from the end of the main section 24. The ring 32 is not only secured to the main section 24 by the rivets

of the row 29, but if the rivets should give away the bend 30 will act as means to connect the ring 32 to the main section 24. The rivets of the row 31 arrest the rearward shifting of the ring 32 with respect to the end of the section 24. The overlapping portion 27 of the main section 24 is not only secured in position by the rows of rivets 29 and 31, but also by rows of stitching 33. The rings 32 in connection with the snap hooks are employed for detachably connecting the supporting element to the coupling element, as shown in Figure 2.

The auxiliary section 25 is in the form of what may be termed a waist band and is slidably connected against the outer face of the main section 24 through the medium of a transversely extending retaining member 34. The auxiliary section 25 extends inwardly through the rings 32 and one end of said section has secured therewith a buckle 35 for the purpose of adjustably connecting together the ends of the section 25. Suitable openings, not shown, are provided in the auxiliary section 25, and which cooperate with the buckle 35 for the purpose of connecting the ends of the auxiliary section together, whereby the coupling element will be secured to the waist of the lineman.

The supporting member 26, is formed from a strap of the desired length and which has one end fixedly secured, as at 36, to the outer face of the member 25 and its other end secured, as at 37 to the outer face of the section 25. The member 26 is arranged exteriorly of the retaining member 34 and said member 26 in connection with section 25 provides what may be termed loop 38, for the purpose of connecting and supporting the tools desired by the lineman and in a manner as shown in Figure 1 of the drawing.

By setting up the coupling element in the manner as stated, if the main section 24 should break, the belt would still be secured to the waist of the lineman through the medium of the section 25, and if said section 24 should break, ample warning would be given to the lineman so that an accident would be avoided.

The setting up of the snap hooks in the manner as shown, as well as the extending of the major portion of the rings 32 from the ends of the section 24, makes it unusually convenient to snap the hooks in engagement with the rings very quickly, as well as enabling the hooks to be released from the rings 32 conveniently. The setting up of the sections 24 of materially greater width than the section 25, enables the coupling element to be worn by the lineman without inconvenience as well as forms a wide support for the back of the lineman, and although the preferred embodiment of the invention is as illustrated and described, yet it is to be understood that changes in the de-

ails of construction can be had which will fall within the scope of the claims hereunto appended.

What I claim is:—

- 5 1. A belt for the purpose set forth comprising a supporting element, a coupling element including a main and an auxiliary section, said auxiliary section positioned against the outer face of and extending inwardly through the ends of the main section, said supporting element and main section having cooperating means for detachably connecting the former to the latter, and said auxiliary section having means for securing said main section against the waist of a lineman.
- 20 2. A belt for the purpose set forth comprising a supporting element, a coupling element including a main and an auxiliary section, said auxiliary section positioned against the outer face of and extending inwardly through the ends of the main section, said supporting element and main section having cooperating means for detachably connecting the former to the latter, said auxiliary section having means for securing said main section against the waist of a lineman, and a wear member slidably connected to said supporting element intermediate the ends thereof.
- 30 3. A belt for the purpose set forth comprising a supporting element, a coupling element including a main and an auxiliary section, said auxiliary section positioned against the outer face of and extending inwardly through the ends of the main section, said supporting element and main section having cooperating means for detachably connecting the former to the latter, said auxiliary section having means for securing said main section against the waist of a lineman, and said main section being of materially greater width than said auxiliary section.
- 40 4. A belt for the purpose set forth comprising a supporting element, a coupling element including a main and an auxiliary section, said auxiliary section positioned against the outer face of and extending inwardly through the ends of the main section, said supporting element and main section having cooperating means for detachably connecting the former to the latter, said auxiliary section having means for securing said main section against the waist of a lineman, a wear member slidably connected to said supporting element intermediate the ends thereof, and said wear member being of greater width than said supporting section.
- 50 5. A belt for the purpose set forth comprising an adjustable supporting element, a coupling element formed of a main and an auxiliary section, the latter arranged exteriorly of the former and further extending inwardly through the ends thereof, said supporting element and main section having cooperating means for detachably connecting them together, said auxiliary section having means for adjustably connecting the ends thereof together, and a supporting member secured to the outer face of said auxiliary section.
- 60 6. A belt for the purpose set forth comprising an adjustable supporting element, a coupling element formed of a main and an auxiliary section, the latter arranged exteriorly of the former and further extending inwardly through the ends thereof, said supporting element and main section having cooperating means for detachably connecting them together, said auxiliary section having means for adjustably connecting the ends thereof together, and said main section being of greater width than said auxiliary section.
- 70 7. A belt for the purpose set forth comprising an adjustable supporting element, a coupling element formed of a main and an auxiliary section, the latter arranged exteriorly of the former and further extending inwardly through the ends thereof, said supporting element and main section having cooperating means for detachably connecting them together, said auxiliary section having means for adjustably connecting the ends thereof together, and said main section being of greater width than said auxiliary section.
- 80 8. A belt for the purpose set forth comprising an adjustable supporting element, a coupling element formed of a main and an auxiliary section, the latter arranged exteriorly of the former and further extending inwardly through the ends thereof, said supporting element and main section having cooperating means for detachably connecting them together, said auxiliary section having means for adjustably connecting the ends thereof together, said main section being of greater width than said auxiliary section, and a wear member slidably mounted on said supporting section intermediate the ends thereof.
- 90 9. A belt for the purpose set forth comprising an adjustable supporting section having projecting therefrom a pair of hook members each provided with a roller connected with said element, and a coupling element formed of a main and an auxiliary section, said main section provided with a ring at each end engageable by a hook member for connecting the main section with said supporting element, said auxiliary section arranged exteriorly of said main section and further extending inwardly through said rings and provided with means for adjustably connecting the ends thereof together for connecting the main section in position on a lineman.
- 100 10. A belt for the purpose set forth comprising an adjustable supporting section

having projecting therefrom a pair of hook members each provided with a roller connected with said element, and a coupling element formed of a main and an auxiliary section, said main section provided with a ring at each end engageable by a hook member for connecting the main section with said supporting element, said auxiliary section arranged exteriorly of said main section and further extending inwardly through said rings and provided with means for adjustably connecting the ends thereof together for connecting the main section in position on a lineman, a wear member slidably mounted on the supporting element intermediate its ends.

11. A belt for the purpose set forth comprising an adjustable supporting section having projecting therefrom a pair of hook members each provided with a roller connected with said element, and a coupling element formed of a main and an auxiliary section, said main section provided with a ring at each end engageable by a hook member for connecting the main section with said supporting element, said auxiliary section arranged exteriorly of said main section and further extending inwardly through said rings and provided with means for adjustably connecting the ends thereof together for connecting the main section in position on a lineman, a wear member slidably mounted on the supporting element inter-

mediate its ends, said wear member of greater width than the width of the supporting element and said main section of greater width than the width of said auxiliary section.

12. A belt for the purpose set forth comprising an adjustable supporting section having projecting therefrom a pair of hook members each provided with a roller connected with said element, a coupling element formed of a main and an auxiliary section, said main section provided with a ring at each end engageable by a hook member for connecting the main section with said supporting element, said auxiliary section arranged exteriorly of said main section and further extending inwardly through said rings and provided with means for adjustably connecting the ends thereof together for connecting the main section in position on a lineman, a wear member slidably mounted on the supporting element intermediate its ends, said wear member of greater width than the width of the supporting element and said main section of greater width than the width of said auxiliary section, and a supporting member secured to the outer face of the auxiliary section and spaced therefrom.

In testimony whereof, I affix my signature hereto.

WILLIAM F. DETTWEILER.