No. 850,240. PATENTED APR. 16, 1907.

E. MIDDLETON.

HOSE SUPPORTER.

APPLICATION FILED JAN. 5, 1907.

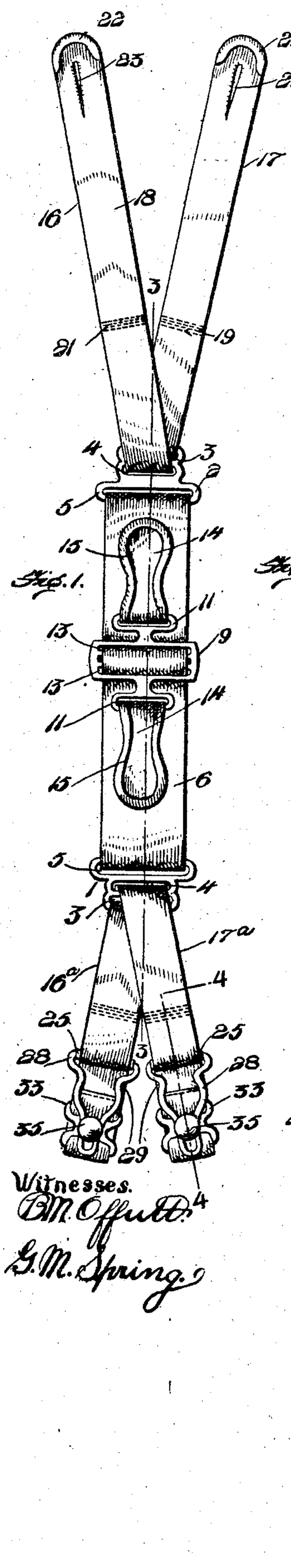

Fig. 1.

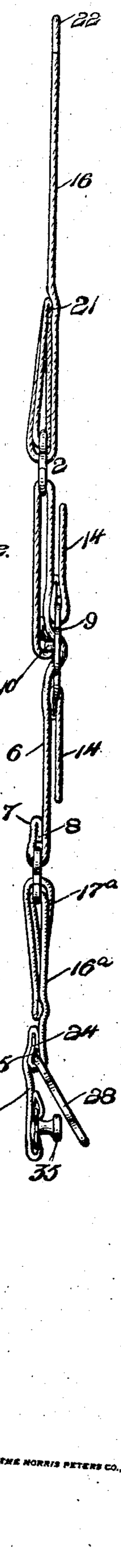

Fig. 2.

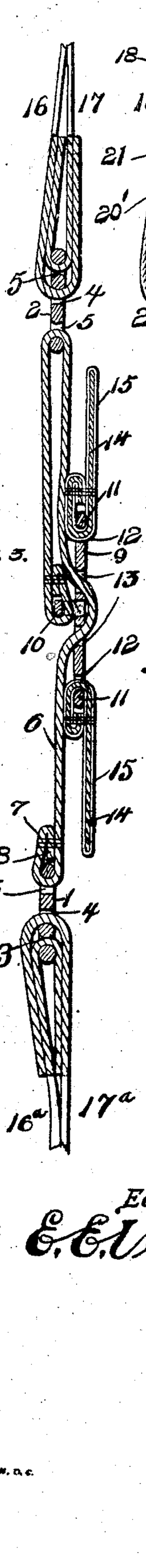

Fig. 3.

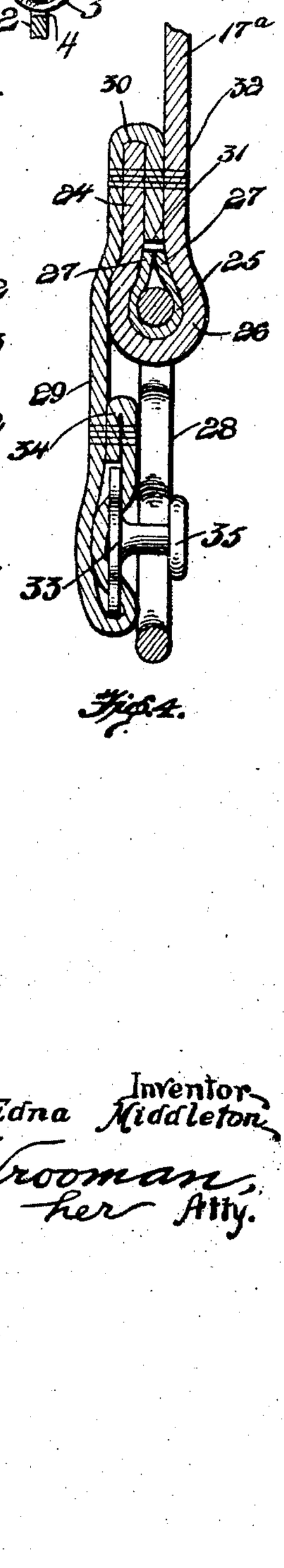

Fig. 4.

Witnesses.
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UNITED STATES PATENT OFFICE.

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HOSE-SUPPORTER.

No. 850,240. Specification of Letters Patent. Patented April 16, 1907.

Application filed January 5, 1907. Serial No. 351,002.

To all whom it may concern:

Be it known that I, EDNA MIDDLETON, a citizen of the United States, residing at Savannah, in the county of Chatham and State of Georgia, have invented certain new and useful Improvements in Hose-Supporters, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention is an improvement in hose-supporters, and has for its object the improvement of the construction of a hose-supporter which comprises a minimum number of parts and which is comparatively simple and inexpensive to manufacture.

With this and other objects in view the invention consists of certain other novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the drawings, Figure 1 is a plan view of a hose-supporter constructed in accordance with the present invention, while Fig. 2 is a view in side elevation thereof. Fig. 3 is an enlarged vertical sectional view taken on line 3 3, Fig. 1. Fig. 4 is an enlarged vertical sectional view taken on line 4 4, Fig. 1. Fig. 5 is a fragmentary view of my hose-supporter, showing one pair of the straps, preferably the upper straps, in side elevation, the straps being slightly spread apart.

Referring to the drawings, 1 designates the lower connecting-plate, and 2 the upper connecting-plate. Each of the plates 1 and 2 is provided with a series of slots 3, 4, and 5. A connecting-strap 6 is threaded at its lower end 7 through the slot or elongated opening 5 of plate 1, and the portion 7 is folded back upon the main portion of the connecting-strap, and the outer end 8 of portion 7 is folded between the main portion of strap 6 and portion 7, as clearly illustrated in Fig. 3. By folding under end 8 of strap 6 and fastening this end in said folded position the end 8 will be prevented from unraveling or fraying, thereby increasing the life of the supporter, and as the end 8 is positioned contiguous to the connecting-plate 1 said plate will not be permitted to work within the loop formed by the folded lower end of strap 6, thereby greatly lessening the wear of the connecting-plate on the strap 6. It will therefore be noted that the folded end 8 constitutes filling means within the looped lower end of strap 6, which filling means bears against the connecting-plate.

The connecting-strap 6 is threaded through a clamp-plate 9 and thence through slot 5 of the upper plate 2, and the upper end of strap 6 is fastened to a depending rib or bar 10 of the clamp-plate 9 in the same manner as the lower portion 7 of said strap 6. The clamp-plate 9 is provided with ears 11 11, extending therefrom upon opposite sides. Each ear is provided with a slot 12, and the body of clamp-plate 9 is provided with slots 13 13, through which the connecting-strap 6 is threaded. The rib 10 is struck down from the central portion of clamp-plate 9.

Threaded through the slots or elongated apertures 12 of the ears 11 are tabs 14. Each tab is provided at its edges with a continuous reinforcing-strip 15, which strip overlaps the top and under face of the tab, and its ends are folded between the body of the tab and its threaded end, as clearly seen in Fig. 3 and in the same manner as the ends of the connecting-strap 6. It will therefore be seen that I have provided tabs at the upper and lower ends of the clamp-plate, each of which tabs is provided with a single reinforcing-strip, and the inner ends of the tab are folded inwardly between the main body of the tab and a parallel portion thereof, whereby the tab will be prevented from fraying or unraveling, and thereby greatly increasing its strength and life.

Secured to the upper connecting-plate 2 are upper straps 16 and 17. Strap 16 comprises a main portion 18, threaded through slot 4 of plate 2, and the auxiliary threaded end 18′ is secured at 19 to the main portion 20 of strap 17. The main portion 20 of strap 17 is threaded through the slot 3, and the auxiliary end 20′ of strap 17 is fastened at 21 to the main portion 18 of strap 16. By reason of this peculiar connection of straps 16 and 17 a sliding movement of the straps is permitted without causing any movement of the rest of the supporter, and this movement is desirable for preventing any unnecessary wrench or pull upon the garment by reason of the different positions assumed by the wearer. Furthermore, it is to be noted that the inner end of each strap is threaded through the connecting-plate 2 and is secured to the main portion of the other strap. The outer end of each strap 16 and 17 is reinforced at 22, and contiguous to the reinforced ends of the straps there is formed a buttonhole 23.

The connections between the lower straps

16ª and 17ª and plate 1 are the same as between the upper straps 16 and 17 and plate 2, as will be clearly seen upon referring to Figs. 3 and 5. Each of the straps 16ª and 17ª is provided with a similarly-constructed garment-attaching device.

Referring particularly to the enlarged sectional view, Fig. 4, the lower end of one of the straps 16ª and 17ª is folded back upon itself at 24 and forms a loop within which a metallic sleeve 25 is positioned. The looped portion 26 of the strap 17ª (or 16ª) fits snug against the outer face of the reinforcing-sleeve 25, and as the sleeve is provided with parallel lips or extensions 27 27 rotary movement thereof will be prevented, thereby obviating any possibility of the sleeve wearing upon the loop of strap 17ª. A hook 28 is pivotally mounted in the sleeve 25. The hook is subjected to considerable pivotal movement by the user of the supporter, and therefore as it is pivotally mounted in a metallic sleeve 25 and said sleeve is held stationary within the loop of strap 17 there is practically no wear on the loop of the strap, and consequently the life of the supporter is greatly increased. An auxiliary stud-plate strap 29 is secured to the strap 17ª by having its upper end folded around the upper end 30 of the folded portion 24 of strap 17ª, and the extreme upper end of said strap 29 is positioned between the folded portion 24 and the main portion of said strap 17, as clearly illustrated in Fig. 4. The lower end of strap 29 is positioned contiguous to or abutting against the parallel lips 27 of sleeve 25, and thereby prevents any longitudinal movement of the sleeve with respect to the strap 17ª. By this peculiar structure and arrangement of the engaging ends of strap 17ª and strap 29 the ends will be reinforced, as well as prevent the same from unraveling or fraying. Any suitable fastening means—as, for instance, threads 32—extends transversely through the interfolded ends of straps 17ª and 29 and fixedly secures all of the folded ends together, as well as sleeve 25 within the folded portion of strap 17ª. The lower portion of strap 29 is threaded through stud-plate 33, and its extreme end 34 is folded parallel with the main portion of strap 29, the same as with the ends of the other straps, so as to prevent raveling or fraying of the end. Suitable fastening means secures the folded end in this position. The stud-plate 33 is provided with an ordinary stud 35. The hook 28 is adapted to be positioned over the stud 35 after the garment has been placed upon the stud.

The length of the hose-supporter can be adjusted by the operator grasping either of tabs 15 and drawing the clamp-plate 9 longitudinally of the connecting-strap 6.

What I claim is—

1. A hose-supporter, comprising a plate, means for attaching one end of said plate to a garment, a pair of straps threaded through said plate, each strap comprising a main portion and an integral, auxiliary portion, the auxiliary portion secured to the main portion of the other strap between the plate and its outer end, the lower end of each strap folded back upon the main portion and forming a loop, a reinforcing-sleeve positioned within the loop, said sleeve provided with parallel lips for preventing rotation of said sleeve within said loop, a hook pivotally mounted within the sleeve, an auxiliary stud-plate strap in engagement with the folded portion of the first-mentioned strap and having its upper end folded between the main portion of the strap and its folded portion and the extreme upper end of said stud-plate strap positioned contiguous to the lips of the sleeve, means fastening the interfolded ends of the first-mentioned strap and the stud-plate strap together and fixedly securing the sleeve in the folded portion of the first-mentioned strap, a stud-plate provided with a stud, carried by said stud-plate strap, the lower end of the stud-plate strap folded parallel to and between two portions of the stud-plate strap.

2. A hose-supporter provided with a strap, said strap provided with a loop at its lower end, a stud-plate strap folded over the extreme lower end of the strap and having its upper end positioned between two portions of said strap, a reinforcing-sleeve positioned in the loop of the first-mentioned strap, means extending from one side of said sleeve for preventing rotary movement, a hook pivotally mounted in said sleeve, a stud-plate provided with a stud, secured to said stud-plate strap and coöperating with said hook.

3. A hose-supporter, comprising plates, means adjustably connecting the inner ends of said plates, pairs of straps extending outwardly and connected to the outer ends of said plates, each strap of each pair comprising a main and an auxiliary portion, the auxiliary portion threaded through a plate and secured to the other strap of the pair intermediate the plate and its outer end, one pair of said straps provided with stud-plate straps, the upper ends of the stud-plate straps interfolded with the lower ends of said straps, means securing the interfolded ends together, hooks pivotally mounted within the folded ends of said straps, reinforcing means surrounding said hooks and positioned within the folded ends of said straps, means for preventing rotary movement of said reinforcing means, and studs secured to said stud-plate straps and coöperating with said hooks.

4. A hose-supporter, comprising a pair of connecting-plates, means adjustably connecting said plates, a strap secured to and extending from each plate, one of said straps provided with a loop formed near its outer end, a stud, means securing said stud to the

looped end of said last-mentioned strap, a reinforcing-sleeve provided with an extension projecting from one side, positioned within the said loop, and said extension preventing rotary movement of said sleeve within said loop, and a hook pivotally mounted in said sleeve and coöperating with said stud.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

EDNA MIDDLETON.

Witnesses:
MAY R. DAVIS,
I. M. TARVER.