W. F. WATSON.

HOSE SUPPORTER.

APPLICATION FILED OCT 30, 1919.

1,340,745.

Patented May 18, 1920.

Fig. 1.

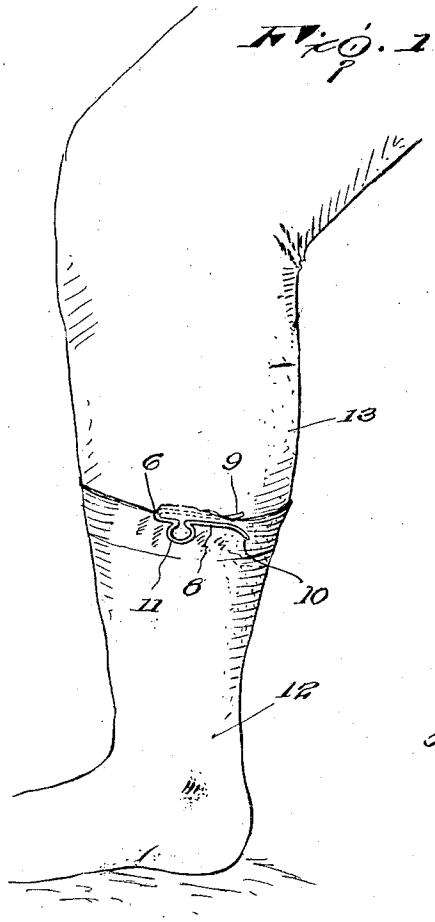


Fig. 2.

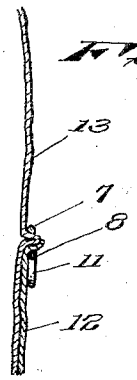


Fig. 3.

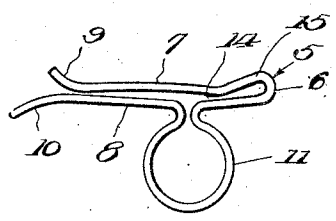
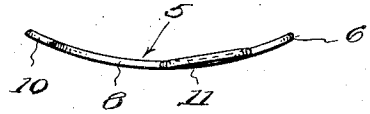


Fig. 4.



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by

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UNITED STATES PATENT OFFICE.

WILLIAM F. WATSON, OF OLEAN, NEW YORK, ASSIGNOR OF ONE-HALF TO FRANK W. HOUT, OF OLEAN, NEW YORK.

HOSE-SUPPORTER.

1,340,745. Specification of Letters Patent. Patented May 18, 1920.

Application filed October 30, 1919. Serial No. 334,490.

To all whom it may concern:

Be it known that I, WILLIAM F. WATSON, a citizen of the United States, residing at Olean, in the county of Cattaraugus and State of New York, have invented certain new and useful Improvements in Hose-Supporters, of which the following is a specification.

This invention relates to improvements in hose supports and more particularly to hose supports having means for connecting the upper portion of the hose to the undergarment.

Briefly this invention includes a pair of coacting jaws adapted for slidably and detachably engaging the upper portion of a hose and the adjacent portion of a garment in such a manner as to securely prevent the accidental removal of said portions of the hose and the garment from between the jaws. In devices of this character the coacting jaws are generally connected by a manipulating loop at the rear ends of the jaws and when the upper portion of the hose and the adjacent portion of the garment are received between the jaws the material is permitted to gradually slide into the manipulating loop with the result that the gripping engagement of the jaws with the hose is lost. Further, hose supports of this general character are not held in a relatively stationary position when applied but are permitted to roll downwardly as the result of contact with the trousers during the removal of the latter. This renders the device extremely unreliable and inconvenient and therefore an important object of this invention is to provide a hose support which will be retained in a relatively stationary position when applied and which will be prevented from being disengaged with the hose when applied.

A further object of the invention is to provide a garment support of the class described having a novel form of manipulating loop so located that the same may be readily gripped by the hand and also so positioned that the same provides a high degree of flexibility to the jaws which grip the garments whereby the device may be securely retained in position.

A further object of the invention is to provide a device of the class described which is simple, desirable in use and cheap to manufacture.

Further objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawing forming a part of this application and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a side elevation of the device applied;

Fig. 2 is a transverse section through the same applied;

Fig. 3 is an enlarged side elevation of the device detached;

Fig. 4 is a bottom plan view of the same.

In the drawing wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 5 generally designates the improved hose support which as illustrated in Fig. 3 is formed from a single length of wire of a suitable gage and bent upon itself as indicated at 6 to provide upper and lower jaws 7 and 8 respectively. The upper jaw 7 terminates short of the forward end of the lower jaw 8 and is curved outwardly as indicated at 9 so as to form a guideway for the entrance of the portions of the garments to be engaged. The terminal portion of the lower arm 8 is also curved outwardly as indicated at 10 to coöperate with the upper terminal portion 9 for forming an entrance opening for the garments. The lower arm 8 is bent at a point between its center and its rear end to provide a split manipulating loop 11 which is adapted to be manually gripped for positioning and removing the device. With reference to Fig. 3, it will be noted that when the device is applied to a hose 12 and the adjacent portion of an undergarment 13 the split manipulating loop 11 extends downwardly from the intermediate portion of the device and therefore prevents the same from rolling upon being engaged by the trousers when the latter are removed.

The upper arm 7 is extended inwardly slightly adjacent its rear end portion to provide a shoulder 14 which forms a restricted entrance opening to the space between the rear end portions of the jaws which is provided by extending the rear end portion of the upper arm 7 outwardly as indicated at 15. The inwardly extending shoulder 14 provided by bending the upper arm 8 serves to effectively grip the garments and securely retain the device in position.

The forward end portions of the arms 7 and 8 also extend inwardly in the direction of each other rearwardly of the outwardly curved portions 9 and 10 whereby the garments are more securely held together when engaged by the device.

The split loop 11 as will be noted divides the lower spring arm 8 into two sections each of which functions independently of the other and effectively coöperates with the upper arm 7 in gripping the garments.

As illustrated in Fig. 4, the entire device is curved longitudinally to conform to the curvature of the limb.

In the practice of the invention, the upper edge portion of a sock and the adjacent portion of a garment are gripped preparatory to applying the device. In attaching the improved hose support, the same is connected with the garments in the manner illustrated in Fig. 1. When applied the device lies close to the limb and is prevented from being rolled upon the removal of the trousers by the downwardly propecting split loop 11. In locating the split loop 11 at the intermediate portion of the lower arm, portions of the garment are also prevented from sliding within this loop after the device has been applied for some time. It will be noted that the upper portion of the split loop 11 is formed with a restricted throat which cooperates with the spring arms and the shoulder 14 in forming a gripping means for the upper portion of a hose and the adjacent portion of the undergarment.

It is to be understood that the form of the invention herein shown and described is to be taken as a preferred example of the same and that such minor changes in arrangement and construction of parts may be made as will remain within the spirit of the invention and the scope of what is claimed.

Having thus described the invention, what is claimed as new is:

1. A device of the class described formed from a single length of round spring wire including upper and lower spring arms having their rear end portions connected, said upper arm being extended inwardly at a point spaced from one end to provide a retaining shoulder, said lower arm being provided intermediate its ends with a downwardly extending split manipulating loop thereby dividing said lower arm into a pair of independent spring sections coöperating with the upper arm, said downwardly extending manipulating loop being adapted to engage the limb below said arms for securing said arms in position.

2. A hose support including upper and lower spring arms adapted for engaging the upper portion of a hose and the adjacent portion of the undergarment, said upper arm being extended inwardly adjacent its rear end for coöperating with the adjacent portion of the lower arm in forming a restricted entrance opening to the space between the rear portions of the arms, said lower arm being provided intermediate its ends with a downwardly extending split manipulating loop disposed in the vertical plane of said upper and lower arms and adapted to engage the limb for securing said upper and lower arms against rotation, the upper portion of said split loop being formed with a restricted throat.

3. A hose support constructed from a length of spring wire formed to provide upper and lower arms, said lower arm being formed intermediate its ends with a downwardly extending split manipulating loop thereby dividing the lower arm into a pair of spaced independently movable spring sections coacting with the upper arm to form a gripping means, said split loop being disposed in the plane of said arms and adapted to engage the limbs below said arms for securing the device against rotation.

In testimony whereof I affix my signature.

WILLIAM F. WATSON. [L. S.]