(No Model.)

W. C. WILLITS.

HOSE HOLDER.

No. 408,058. Patented July 30, 1889.

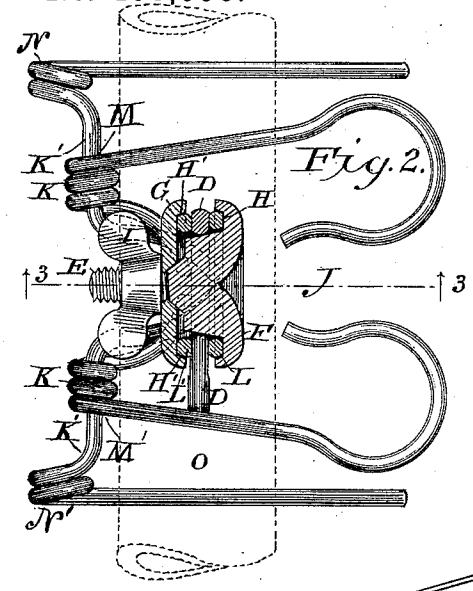


Fig. 2.

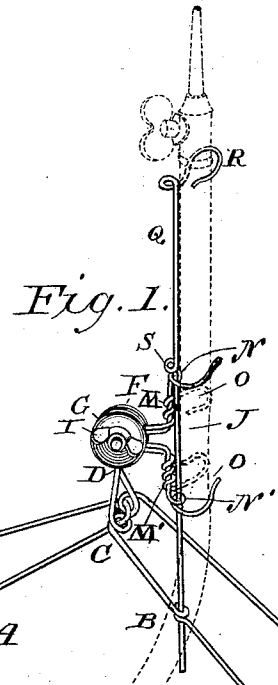
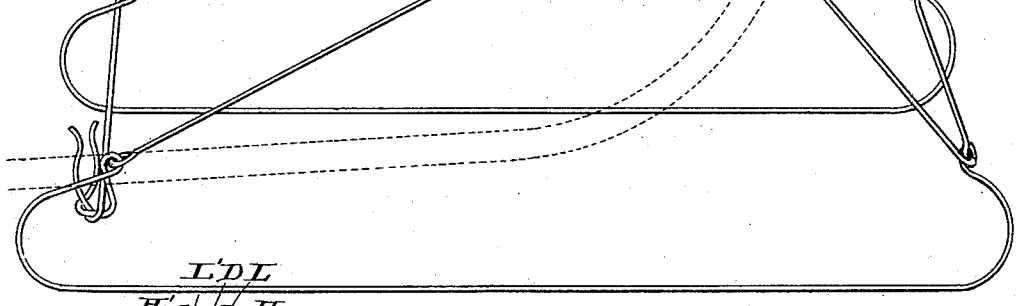


Fig. 1.



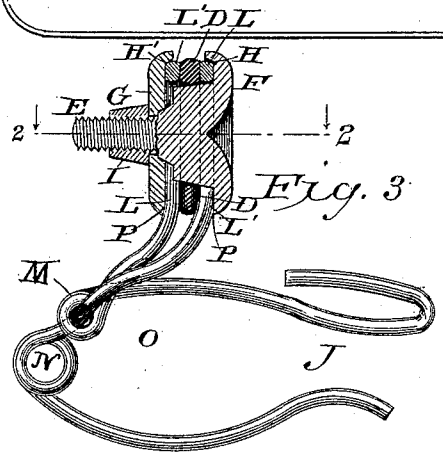


Fig. 3

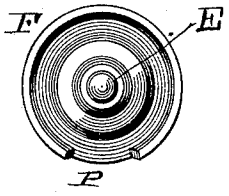


Fig. 4.

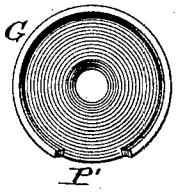


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

WARREN C. WILLITS, OF DENVER, COLORADO.

HOSE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 408,058, dated July 30, 1889.

Application filed March 23, 1889. Serial No. 304,421. (No model.)

To all whom it may concern:

Be it known that I, WARREN C. WILLITS, of the city of Denver, county of Arapahoe, State of Colorado, have invented certain new and useful Improvements in Hose-Holders, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to supports for the nozzles of garden or other hose. It is intended as an improvement on the device shown in my patent, No. 396,129, of January 15, 1889, and covers a simple and inexpensive hose-clamp to be attached to the sled-support shown therein, but adapted to be attached to any suitable support.

Another feature of my invention is a removable standard, which may be fixed to the main support and clamp, so as to elevate the hose-nozzle, whenever desired, above the clamp which usually supports it.

In the accompanying drawings, Figure 1 is a perspective view of a sled-support with my improvements applied, showing a hose in dotted lines. Fig. 2 is a vertical section, on a larger scale, through the clamping device, drawn on line 2 2 of Fig. 3. Fig. 3 is a horizontal section of the same on line 3 3 of Fig. 2. Fig. 4 is a plan view of a bolt-head and bolt seen from the bolt end. Fig. 5 is a plan view of a metallic cap detached.

Referring to the letters of the drawings, A indicates a wire sled-support of the same general construction as that shown in my patent above mentioned, but which is provided with a loop B in the brace C.

D indicates a vertical loop, and E a bolt, which is provided with the head F, upon the inner side of which is an annular groove H.

G indicates a cap, which fits upon the bolt E and has an annular groove H′ corresponding to the one in the bolt-head F.

I indicates an ordinary thumb-screw.

J indicates a hose-clamp, which consists of two pieces of wire K K′. Each wire is bent in the middle to form loops L L′, which correspond in size to the loop D, above mentioned, upon each side of which they are secured in use by the bolt E and thumb-screw I. The wire K is twisted around the wire K′ to form pivots M M′, and each end of the wire K′ is twisted to form the loops N N′. The free ends of the wires K K′ project at right angles to the plane of the loops L L′ to form jaws of the clasp O. The sides of the loops D, L, and L′ are flattened, so that where they are pressed together between the bolt-head F and the cap G they will not slip and overlap, but fit firmly. The same effect might, however, be accomplished by using separate flat washers between the loops. The combination of the wires K and K′ by means of pivots, together with the bolt adapted to hold the loops L L′ together, furnishes a convenient means for adjusting the distance between the jaws of the clasp O to adapt it to receive different sizes of hose. When desirable in this connection, the washers between the loops D, L, and L′ may be made thicker and the jaws of the clasp O held in the desired position.

P P′ indicate notches in the bolt-head F and cap G, respectively, which receive the ends of the loops L L′, respectively, and permit the loops to fit into the grooves H and H′.

Q indicates a separate removable standard, which is preferably made of wire, bent at one end to form a clasp R to receive the hose-nozzle, and provided near the other end with a loop or other projection S.

In operation the clamp J being turned to any desired angle and secured in place by screwing the thumb-screw close against the cap G, the hose is slipped into the clasp O. Here it is held firmly, but not so as to interrupt the flow of water through it, by the spring action of the loops N N′, which tend to keep the clasp O closed. The clamp J may be turned to any desired angle from time to time without loosening the bolt, as the thumb-screw I is held from turning by the intervention of the cap G; but it will be sufficiently unyielding to enable an operator to change the position of the sled by pulling on the hose supported by it. This permits the use of a chain or other special means of drawing it to be dispened with.

If it should be found that the elevation of the nozzle is not sufficient, the clamp J may be tilted until the loops N N′ are in a vertical line with the loop B in the brace C. The standard Q may then be slipped through the

loops, and will be supported by the projection S coming in contact with the loop N′. Then the hose-nozzle may be secured by the clasp R, as shown in Fig. 1.

I do not confine myself to the details of construction herein set forth, as they may be changed in many respects without departing from my invention. For instance, the standard Q need not be made of wire, and it may be provided with any suitable clasp. That shown in the drawings is a cheap and simple embodiment of my invention.

What I claim is—

1. The combination, with a hose-supporter, of a hose-clamp formed with two pieces of wire pivoted together, and mechanism for adjustably holding the jaws of said clamp in fixed relative position, substantially as set forth.

2. The combination, with a sled formed of a single piece of wire, of a hose-clamp formed of two pieces of wire pivoted together, and mechanism for adjustably securing the jaws of said clamp in fixed relative positions, substantially as set forth.

3. The combination of a sled formed of a single piece of wire and having at one end a loop D, with a wire hose-clamp provided with loops L L′, the bolt E, cap H, and thumb-screw I, for attaching the hose-clamp to the sled, substantially as described.

4. The combination of a wire sled, a loop in one brace thereof, a wire hose-clamp pivotally secured to the sled, and loops N N′ in the hose-clamp, with a separate removable standard Q, substantially as described.

5. The combination, with a hose-clamp composed of two parts, each of which is looped at one end, of a headed bolt and cap, said bolt passing through said loops, annular grooves and notches in the head of the bolt and cap, and a thumb-screw adapted to screw upon the bolt and bind the parts together, substantially as described.

6. In a hose-clamp, the combination of two pieces of wire pivotally joined together by twisting one around the other and extending outwardly to form jaws, and mechanism for holding said jaws in fixed relative positions, substantially as set forth.

In testimony of all which I have hereunto subscribed my name.

WARREN C. WILLITS.

Witnesses:

WARREN J. WILLITS,

LESTER B. PLACE.