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CLAMPING AND HOLDING DEVICE FOR FLEXIBLE HOSE

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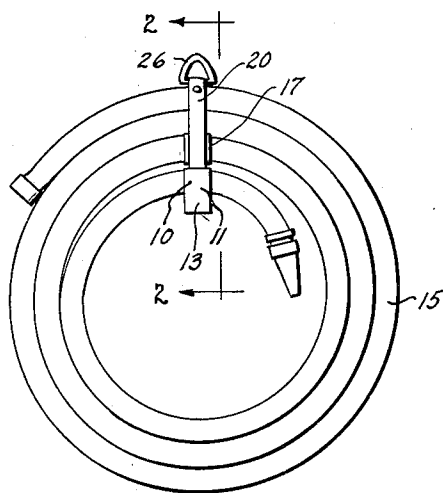


FIG. 1

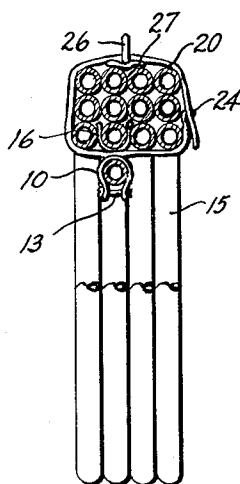


FIG. 2

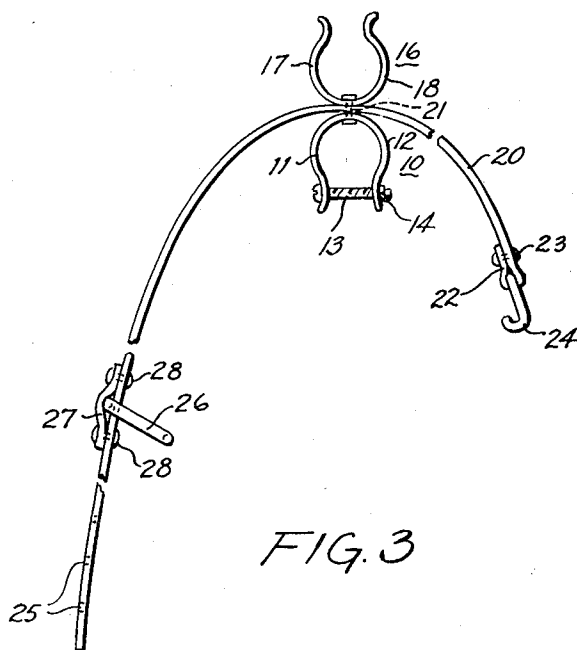


FIG. 3

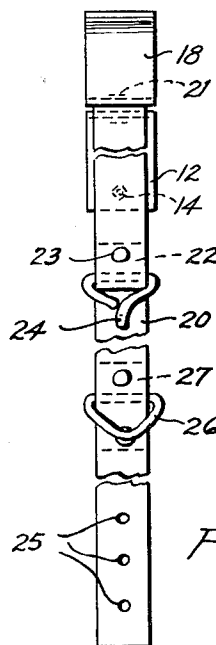


FIG. 4

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CLAMPING AND HOLDING DEVICE FOR FLEXIBLE HOSE

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5 Claims. (Cl. 24—73)

This invention relates to a clamping and holding device for flexible hose and particularly garden hose.

Various types of reels, winding forms, and storage devices have heretofore been proposed for the storage of flexible hose such as garden hose. When the same is to be stored these devices are seldom, if ever, available at the location where the hose is used. These devices are usually stored in the cellar, garage or similar storage space. As a result, devices of this character are frequently not used by the owners, but the hose is often rolled up into a coil by manual manipulation. In rolling such a coil, however, difficulty is encountered in starting the first turn of the coil which has a tendency to dislodge itself, even if twisted on an adjacent part of the hose, or, if the preliminary winding is successfully accomplished, difficulty is encountered with the free end, or upon moving the coil, so that the coil does not unroll and becomes tangled.

It is the principal object of the present invention to provide a simple and inexpensive device which is particularly suitable for holding in coil form the common type of flexible garden hose.

It is a further object of the present invention to provide a clamping and holding device in which both ends of the hose are securely held with the hose in coiled condition.

It is a further object of the present invention to provide a device of the character aforesaid with provisions for hanging the coil on a hook or nail.

It is a further object of the present invention to provide a device of the character aforesaid and of a form such that it will be available at the point of use of the hose and if desired attached thereto in a manner which does not interfere with the use of the hose.

Other objects and advantageous features of the invention will be apparent from the specification and claims.

The nature and characteristic features of the invention will be more readily understood from the following description taken in connection with the accompanying drawings forming part hereof, in which:

Figure 1 is a side elevational view of a coil of hose mounted in the clamping and holding device of the present invention;

Fig. 2 is a transverse sectional view taken approximately on the line 2—2 of Fig. 1;

Fig. 3 is a side elevational view, enlarged, showing a preferred form of a clamping and holding device in accordance with the present invention; and

Fig. 4 is an end elevational view of the structure shown in Fig. 3, as seen from the right.

It should, of course, be understood that the description and drawings herein are illustrative merely, and that various modifications and changes may be made in the structure disclosed without departing from the spirit of the invention.

Like numerals refer to like parts throughout the several views.

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Referring now more particularly to the drawings, the clamping and holding device in accordance with the present invention preferably includes a U-shaped clamp 10 of resilient material, having arms 11 and 12. The clamp 10 is preferably suitably coated or plated so as to be resistant to rust and the free ends of the arms 11 and 12 have extending therebetween a clamping bolt 13 with its head in engagement with the outer face of the arm 11 and a clamping nut 14 in engagement with the other arm 12. The clamp 10 is adapted to be engaged, as illustrated in Figs. 1 and 2, with the hose 15, contiguous to either end although, as illustrated, it is shown clamped near the nozzle or delivery end of the hose 15.

An oppositely extending resilient clamping member 16 is provided of U-shape, and with resilient arms 17 and 18 having curved ends to facilitate the insertion of the hose for clamping in the initial coiling of the hose. The clamping member 16 is also preferably coated or plated so as to be resistant to rust. Interposed between the clamp 10 and the clamping member 16, a strap 20 is provided, preferably of woven textile material of adequate strength, a rivet or other suitable connecting element 21 being provided for holding the clamp 10, clamping member 16 and strap 20 together.

The strap 20 is preferably provided at one end with a loop 22, secured in any desired manner such as by a rivet 23, within which a hook 24 is pivotally mounted. The other end of the strap 20 is provided with spaced holes 25 for engagement by the hook 24 as hereinafter explained. Intermediate the holes 25 and the clamps 10 and 16, a ring 26 is provided, of any desired shape, a backing strip 27 being provided, extending along the strap 20 and secured in position in any desired manner, such as by rivets 28, providing a mounting for the ring 26.

The mode of use will, it is thought, be apparent from the foregoing, but it may be noted that with the clamp 10 embracing the hose 15 near the desired end, and held by tightening the nut 14 on the bolt 13, the hose can be formed manually into a loop and to complete the first turn the hose 15 is slipped into the clamping member 16 where it is resiliently held, and determines the diameter of the coil. Subsequent turns of the hose 15, are then disposed on the side of the strap 20 on which the clamp 16 is located. When the coiling is completed the coil may be clamped by engaging the hook 24 in the opening or hole 25 which permits of tight gripping and holding of the coil of hose 15 in coiled condition.

When it is desired to use the hose, the hook 24 is disengaged from the strap 20 and the hose 15 may then be readily uncoiled. The clamping and holding device remains in an attached condition to the hose 15 but does not interfere with the use of the hose 15 but is, however, available at all times for coiling or recoiling as heretofore explained.

As illustrated in Figs. 1 and 2, the ring 26 is disposed in a position to permit of hanging the coil of hose 15 in its clamped position.

I claim:

1. A clamping and holding device for a flexible hose comprising a flexible strap, a pair of opposed hose clamping members disposed in the same plane and secured to said strap on opposite sides thereof, each of said clamping members having spaced arms for engagement with the hose, and a member at one end of said strap for engagement with the strap beyond said clamping members.

2. A clamping and holding device for a flexible hose comprising a flexible strap, a pair of opposed hose clamping members disposed in the same plane and secured to said strap on opposite sides thereof, each of said clamping members having spaced arms for engagement with the hose, one of said clamping members being adapted

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for permanent securing to the hose, and a member at one end of said strap for engagement with the strap beyond said clamping members.

3. A clamping and holding device for a flexible hose comprising a flexible strap, a pair of opposed clamping members disposed in the same plane and secured to said strap on opposite sides thereof, one of said clamps having resilient portions for engagement with the hose, and a member at one end of said strap for engagement with the strap beyond said clamping members.

4. A clamping and holding device for a flexible hose comprising a flexible strap, a pair of oppositely outwardly extending U-shaped hose clamping members disposed in the same plane and secured to said strap on opposite sides thereof, one of said clamping members having resilient portions for engagement with the hose, and said strap having a hook at one end for engagement with the strap beyond said clamping members.

5. A clamping and holding device for a flexible hose comprising a flexible strap, a pair of oppositely outwardly extending U-shaped clamping members disposed in the

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same plane and secured to said strap on opposite sides thereof, one of said clamps being adapted for permanent securing to the hose and the other having resilient portions for engagement with the hose, said strap having a hook at one end for engagement with openings in the strap beyond said clamping members, and a ring carried by said strap intermediate its ends for hanging said device.

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