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SUPPORT FOR GARDEN SPRINKLERS

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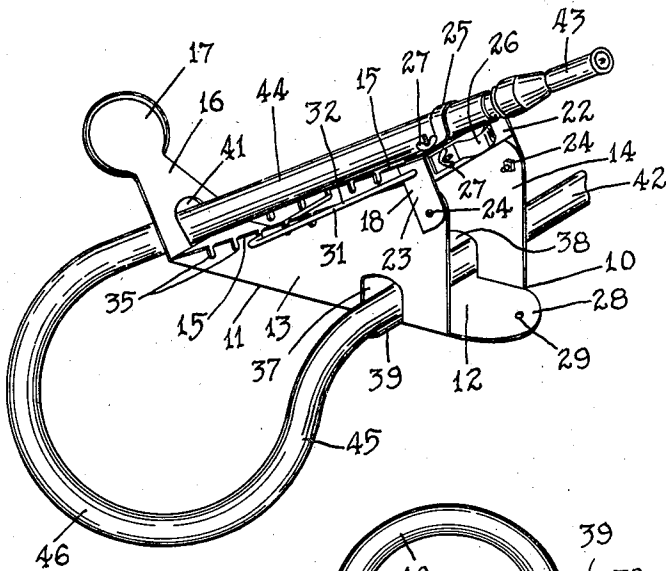


Fig. 1

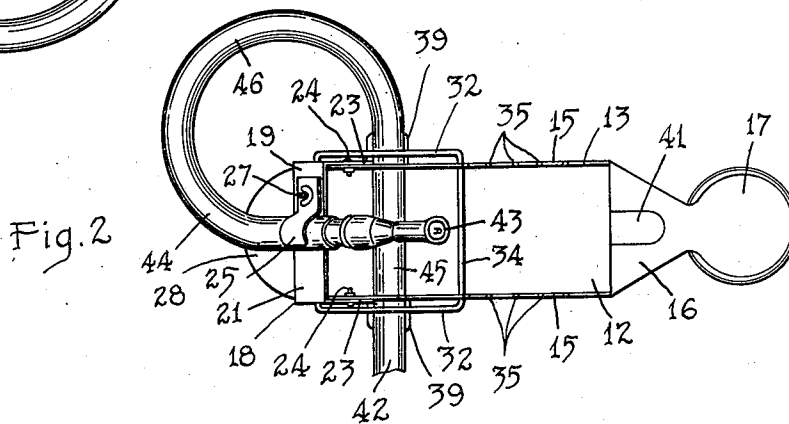


Fig. 2

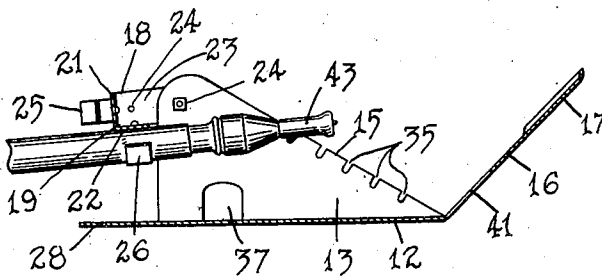


Fig. 3

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SUPPORT FOR GARDEN SPRINKLERS

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15 Claims. (Cl. 248—80)

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My invention relates to garden sprinklers and particularly to the type of sprinkler in which a garden hose provided with a nozzle is employed.

An object of the invention resides in providing a holder for the hose by means of which the spray may be directed in any desired direction.

Another object of the invention resides in providing the holder with a deflector against which the spray from the nozzle may be directed, to procure a mist of water from the nozzle.

An object of the invention resides in constructing the holder with a frame and in attaching to said frame a support to which the end of the hose is secured.

A feature of the invention resides in pivotally mounting said support with reference to the frame so that the angle of the hose may be adjusted relative to the frame.

Another object of the invention resides in constructing the support with two angularly disposed surfaces and in providing a clamp on each surface whereby the hose may be held attached to the support, so that the same may overlie either of said surfaces.

Another object of the invention resides in providing adjusting means for holding said support in adjusted position with reference to the frame.

A feature of the invention resides in constructing the frame with an upstanding side frame member having a downwardly inclined edge and in pivoting the support to the uppermost portion of said side frame member.

A feature of the invention resides in constructing said side frame member with notches along the inclined edge and in further providing a link pivoted to the support and having a member engageable with said notches to hold the support in adjusted position.

Another object of the invention resides in providing a construction whereby the hose is attached to the holder in such a manner that the hose resists overturning of the holder.

An object of the invention resides in constructing the frame with a deflector at one end and the hose support at the other end and in forming the frame at the locality of the deflector with an opening through which the hose can be threaded, whereby the hose may be mounted on the support in a manner directing the spray away from the deflector.

Another object of the invention resides in constructing the hose holder in a manner such that the end of the hose extends in one direction along the holder and that the portion of the hose adja-

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cent thereto extends in a transverse direction with reference to the holder.

Other objects of the invention resides in the novel combination and arrangement of parts and in the details of construction hereinafter illustrated and/or described.

In the drawings:

Fig. 1 is a perspective view of a garden sprinkler illustrating an embodiment of my invention and showing the hose mounted therein in a certain manner.

Fig. 2 is a plan view of the garden sprinkler showing the hose mounted therein in another manner.

Fig. 3 is a longitudinal elevational sectional view taken substantially through the center of the holder and showing the hose mounted therein in such a manner that the spray from the hose is directed against the deflector.

My invention includes a hose holder which I have indicated in its entirety by the reference numeral 10. This hose holder comprises a frame 11 which is preferably constructed from sheet metal and which is bent to form a base 12 and two side frame members 13 and 14 projecting upwardly therefrom. The side frame members 13 and 14 are substantially parallel and each has a sloping edge 15 inclined toward the base 12. The frame 11 is elongated in form and the base 12 thereof has issuing upwardly from one end of it an upright 16 which is bent out of the metal from which the frame is constructed. This upright has formed at the upper end of the same a dish-shaped deflector 17 against which the water may be directed. The other end of the base 12 has an extension 20 which is formed with a hole 29 and by means of which the holder may be hung up.

Carried by the upper ends of the two side frame members 13 and 14 is a hose support 18 best shown in Fig. 3. This hose support consists of an angular body portion 19 having legs 21 and 22 disposed at right angles to each other. The support 18 is preferably constructed of sheet metal and the legs 21 of the body portion 19 have two ears 23 bent outwardly therefrom. These ears straddle the two side frame members 13 and 14 and are pivoted thereto by means of bolts 24 which pass through said ears and through the respective side frame members. Attached to the two legs 21 and 22 of the support 18 are two clamps 25 and 26 which may be brought into engaging position by means of bolts 27 extending through said clamps and the respective legs 21 and 22 of the support 18. By means of this con-

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struction, the hose may be attached to either of the legs 21 and 22 and the support 18 may be swung about the axis of the bolts 24 whereby angular adjustment of the hose, with respect to the frame 11, may be had.

For the purpose of holding the support 18 in adjusted position, an adjusting device 31 is employed which is constructed of wire and in the form of a bail. This adjusting device is provided with spaced links 32 which are pivoted to the ears 23 of the support 18 and which have a cross bar 34 connecting the other ends thereof. The cross bar 34 is adapted to engage any of a number of corresponding notches 35 in the edges 15 of the side frame members 13 and 14.

The two side frame members 13 and 14 are provided with openings 37 and 38. These openings are formed by striking out portions 39 of the metal from which the frame 11 is constructed, which portions are left attached to the base 12 and project outwardly beyond the side frame members 13 and 14. A similar opening 41 is formed in the upright 16, but, in this case, the metal displaced is completely removed. In the case of the openings 37, 38 and 39, the lower edges of said openings are flush with the top of the base 12 for a purpose to be presently more fully described.

In conjunction with the hose support 18, I utilize a garden hose 42 having a spray nozzle 43 at the end of the same. The end of the hose 42 to which the nozzle 43 is attached is indicated by the reference numeral 44 and the portion of the hose adjoining the end of the same, by the reference numeral 45. When the garden sprinkler is to be used for ordinary purposes, the hose 43 is threaded through the two holes 38 and 37, through the hole 41 and the end 44 thereof clamped under the clamp 25 which is mounted on the leg 21 of the support 18. By disengaging the bar 34 from the notches 35, the support 18 may be tilted, so that the nozzle 43 may be given any desired angle with reference to the ground. The hose may then be held in substantially such position by dropping the bar 34 in the closest of the notches 35. It will be noted that in applying the hose in the manner described, a bight 46 is formed between the end 44 and the portion 45 which become reaches on opposite sides of the said bight. For the purpose of explanation, the reach 44 has been referred to as the running reach and the reach 45 as the standing reach. The reach 44, when the hose is so mounted, extends along the direction of extent of the frame 11, while the reach 45 extends transversely of the said frame. This reach lies directly upon the base 12 and the portions 39 thereof and a portion of said reach to each side of the frame 11 lies directly upon the ground. These portions of the reach 45 restrain overturning of the holder, so that the holder and the portion of the hose attached thereto may be pulled about by pulling on the hose and without danger of overturning. At the same time, the hose projects in a direction different from that in which the pulling occurs, so that the user is not apt to have the spray directed against himself when he moves the hose.

In Fig. 2, I have shown the hose applied to the holder in a somewhat different manner. For mounting the hose in this particular manner, the hose is threaded through the two openings 38 and 37 but, instead of being threaded through the opening 41, it is directly mounted on the support 18 under the clamp 25. When so positioned, the nozzle 43 may be adjusted so as to direct the

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spray against the deflector 17. In such case, the cross bar 34 is engaged in certain of the uppermost of the notches 35.

It can readily be comprehended that if it becomes desirable, the hose need not be threaded through the holes 38 and 37. In Fig. 3, the hose has been shown as secured under the clamp 26 and directed against the deflector 17. In this case, the hose does not pass through the holes 37 and 38. Likewise, the hose, while mounted under the clamp 25, may be supported as shown in either Figs. 1 and 2, and without threading the same through the holes 38 and 37.

With my invention, the hose is rigidly and securely mounted on the holder, so that the spray is directed in the desired direction. By mounting the hose under either of the two clamps provided on the hose support and by adjusting the adjusting means, a wide range of angles can be procured in which the spray may be directed. By threading the hose transversely through the openings in the side frame members, the hose provides a support for the holder whereby overturning of the holder by pulling on the hose or through the reaction from the water in the hose is entirely prevented. At the same time, the device may be easily moved about by pulling on the hose and without the spray being directed toward the user. By directing the spray against the deflector, a fine mist is procured which will water the vegetation without danger of injury to the same. The device is extremely simple in construction and can be constructed largely from sheet metal and at an economical cost.

The uses to which the invention may be put are numerous. The sprinkler may be used to sprinkle lawns, gardens, trees or any other vegetation desired.

Changes in the specific form of my invention, as herein described, may be made within the scope of what is claimed without departing from the spirit of my invention.

Having described my invention, what I claim as new and desire to protect by Letters Patent is:

1. A garden sprinkler comprising in combination a water hose having a bight formed therein providing a running reach and a standing reach, a spray nozzle at the free end of the running reach, a holder for the hose comprising a base and an upstanding portion, holding means on the upstanding portion of the holder for holding the running reach with the nozzle in spraying position and holding means for holding the standing reach in a position traversing the base whereby a portion of the hose engages the ground on each side of the base to restrain overturning of the holder.

2. A garden sprinkler comprising in combination a water hose having a bight formed therein providing a running reach and a standing reach, said reaches being disposed in intersecting planes, a spray nozzle at the free end of the running reach, a holder for the hose comprising a base and an upstanding portion, holding means on the upstanding portion of the holder for holding the running reach with the nozzle in spraying position and holding means for holding the standing reach in angular position with reference to the running reach and in a position overlying the base and extending completely across the same with portions thereof engaging the ground on opposite sides of the base to restrain overturning of the holder.

3. A garden hose holder comprising a frame having an upstanding portion, holding means

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thereon for holding the end of the hose in spraying position, holding means for holding another portion of the hose in a position extending across the holder with a portion of the hose engaging the ground on either side of the holder to resist overturning of the holder.

4. A garden hose holder comprising a frame having a base and side frame members extending upwardly therefrom, said side frame members having aligning openings therein through which a portion of the hose may be threaded, and holding means carried by the side frame members for holding the end of the hose in a position transverse of the direction of extent of said openings.

5. A garden hose holder comprising a frame having a base and side frame members extending upwardly therefrom, said side frame members having aligning openings therein disposed immediately above the base and through which a portion of the hose may be threaded and by means of which the hose may be caused to rest upon the base and holding means carried by the side frame members for holding the end of the hose in a position transverse of the direction of extent of said openings.

6. A garden hose holder comprising a frame, a support pivoted to the frame, adjusting means for holding the support in adjusted position relative to the frame, said support having two angularly disposed surfaces, and holding means on the support for holding the end of the hose in position upon either of said surfaces to vary the angularity of the spray.

7. A garden hose holder comprising a frame, a support pivoted to the frame, adjusting means for holding the support in adjusted position relative to the frame, said support having two angularly disposed surfaces and a clamp on each of said surfaces for holding the hose in position upon either of said surfaces to vary the angularity of the spray.

8. A garden hose holder comprising an elongated frame, holding means for holding the end of the hose in spraying position and in the direction of extent of the frame, and holding means for holding the adjoining portion of the hose in a transverse direction relative to the extent of the frame.

9. A garden hose holder comprising a frame having an upstanding side frame member formed with a downwardly sloping edge, a hose support pivoted to the upper portion of the side frame member, hose holding means thereon, a link pivoted to said support, and means at the edge of said frame member for engaging said link to hold the support in adjusted position.

10. A garden hose holder comprising a frame having an upstanding side frame member formed with a downwardly sloping edge, a hose support pivoted to the upper portion of the side frame member, hose holding means thereon, a link pivoted to said support, said frame member being formed along said edge with a plurality of notches, and means on said link for engagement with said notches to hold the support in adjusted position.

11. A garden hose holder comprising a frame

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having spaced upstanding side frame members each formed with a downwardly sloping edge, a hose support pivoted to the upper portions of said side frame members, hose holding means thereon, adjusting means in the form of a bail pivoted to said support and having spaced links straddling said frame members and a cross bar connecting said links, said frame members having corresponding notches in the sloping edges thereof for the reception of said cross bar.

12. A garden hose holder comprising an elongated frame, an upright at one end of said frame, a deflector carried by said upright, a hose support on the other end of the frame, holding means on the support for holding the hose in a manner to direct the spray toward the deflector or in the opposite direction, said upright having an opening therein and through which the hose may be threaded when the spray is directed in said last named direction.

13. A garden hose holder comprising a frame constructed of sheet metal having a base, side frame members bent up from the base and an upright bent up from the base and disposed at one end thereof, a deflector formed on said upright, a hose support connected to said side frame members, holding means on said support for holding the hose in a manner to direct the spray toward the deflector or in the opposite direction, said upright having an opening therein and through which the hose may be threaded when the spray is directed in said last named direction.

14. A garden hose holder comprising a frame having spaced side frame members, a hose support comprising an angle-shaped body portion formed with spaced legs, clamps mounted on each of the legs for holding the hose in different positions, ears formed on said body portion and straddling said frame members, pivot means between said ears and frame members and means for holding said support in adjusted position with reference to said side frame members.

15. A garden sprinkler comprising in combination a water hose having a substantially horizontal loop formed therein, and providing a running reach, a spray nozzle at the free end of the running reach of the hose, a holder for the hose comprising a support, holding means on the support for holding the loop of the hose in loop formation and resting on the ground and other holding means on said support for holding the nozzle in spraying position.

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