July 11, 1933. E. C. HANLEY 1,917,934

SPRINKLER HOSE APPLIANCE

Filed Feb. 16, 1931

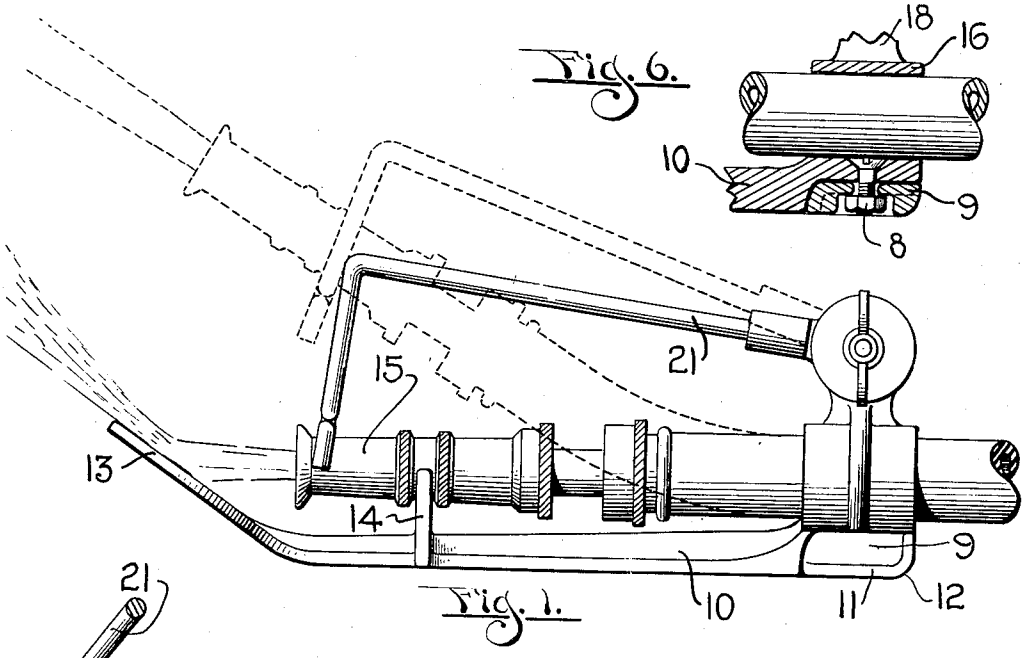


Fig. 1.

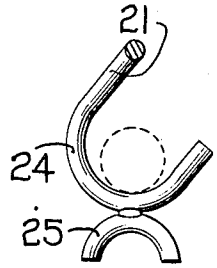


Fig. 4.

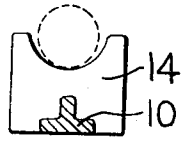


Fig. 5.

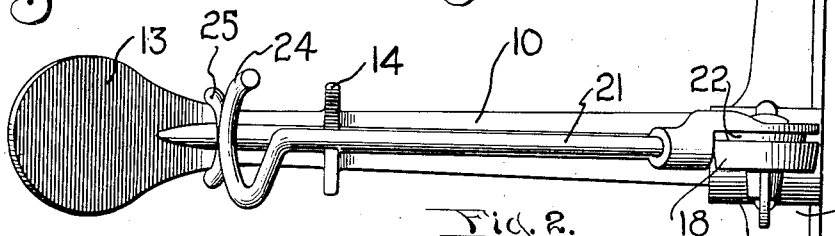


Fig. 2.

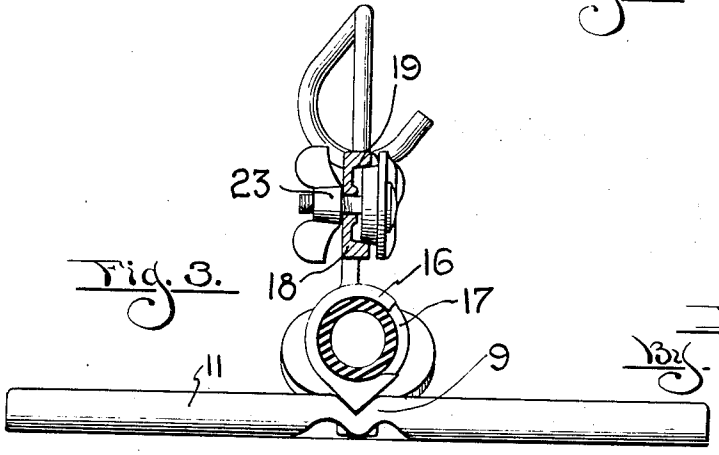
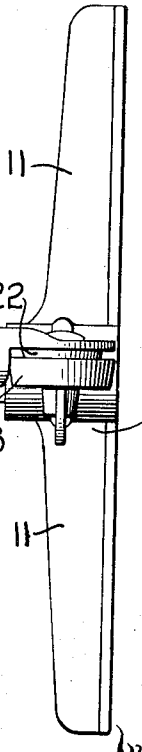


Fig. 3.

Fig. 6.



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Patented July 11, 1933 1,917,934

UNITED STATES PATENT OFFICE

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SPRINKLER HOSE APPLIANCE

Application filed February 16, 1931. Serial No. 515,969.

This invention pertains generally to a spraying device and more particularly to an appliance adapted to be clamped onto the end of a hose whereby the same may be kept in proper position during its operation.

One disadvantage of appliances of this character is that each is only capable of a limited specific use, that is, a nozzle merely throws the water more or less horizontally in a single direction while the usual sprinkler head tends towards radial distribution. Hence, as is often necessary, one must be changed for the other with the consequent annoyance and inconvenience. Now, in my improved device, I aim to overcome the above recited difficulty by providing a unique construction which will serve both as a sprinkler head and also a nozzle. Furthermore, the addition of my properly inclined deflector plate gives an extra spray which distributes a maximum amount of water. Moreover, the direction of the spray may be changed by sliding the nozzle toward and away from the deflection plate.

Another advantage lies in my slotted sleeve construction, whereby the hose may be fastened to the holder appliance very quickly and easily and without manipulating any moving parts, the flexible portion of the hose, preferably free from pressure therewithin, being simply wedged or forced into its seat in the sleeve and held therein by virtue of its snug engagement therewith. An additional means for maintaining the nozzle in position is my double hooked arm which is adapted to maintain the nozzle in any one of a number of positions from vertical to horizontal and thus indirectly maintain the hose against any longitudinal movement through the sleeve by the bending adjacent thereof.

A further feature of my invention is its curved extensions which not only prevent it from overturning, but allow it to be dragged over the lawn or the like without digging thereinto.

Still another advantage lies in my construction whereby the cross piece may be readily detached from the body member thus facilitating packing and shipping of the articles.

Further objects and advantages will be obvious to one skilled in the art without further description.

In the drawing:

Fig. 1 is a side view of my appliance, the solid lines showing the position of the nozzle when it is in a spraying position and the dotted line construction illustrating its position when the appliance is simply holding it in place.

Fig. 2 is a plan view of my invention.

Fig. 3 is a rear view of Fig. 1.

Fig. 4 is an end view of the hooked adjusting arm, the nozzle being shown in dotted lines in an upper position.

Fig. 5 is a view in cross section taken through the elongated base member.

Fig. 6 is a cross sectional view taken longitudinally of the sleeve.

Similar numbers refer to similar parts throughout the several views.

Referring to drawing, 10 designates the elongated base which has a cross piece 9, wings or side arms 11 extending laterally therefrom, these arms being curved as at 12. The cross piece 9 is removably secured to the end of the base 10 by the bolt and nut means 8 as clearly shown in Fig. 6.

A plate member 13 is integrally formed with the base at its opposite end and a small support 14 medially of the base is recessed to receive the nozzle 15. See Figs. 1 and 5.

A sleeve 16, longitudinally slotted at 17 and having an upstanding lug 18, which is recessed at 19, is formed integrally at one end of the elongated base 10. If desired, a set screw may thread through the sleeve 16 to hold a smaller hose in place.

An arm or holding means 21 has a circular base 22 which is adapted to be rotatably received by the recess 19, these two elements being adjustably held together as by the bolt and winged nut 23. The other end of the arm 21 is curved to form a hooked portion 24 and a similar shaped support 25 is rigidly attached thereto. See Fig. 4.

In operation the hose is simply forced sidewise through the slot 17, slid longitudinally to the position desired, and then the nozzle

is either held in its lowest position, as shown in Fig. 1, or else the nozzle is elevated by placing it in the upper holding hook 24 and then adjusting the arm 21 as required. If desired the nozzle may be regulated to the desired stream and then directed vertically thus obtaining an evenly distributed spray or rain of water and incidentally cooling the surrounding air a maximum amount.

Although a particular embodiment of the invention has been illustrated and described in order to comply with the terms of the Patent Statutes, it is not intended that the invention shall be limited to said particular embodiment since the invention may be applied to other forms without departing from its spirit.

I claim:

1. The combination with a hose nozzle, of a base, a sleeve thereon, a plate rigidly mounted on the base and inclined at an angle thereto, a nozzle receiving member on said base between said sleeve and said plate, said sleeve being constructed to slidably and snugly receive the flexible hose whereby the longitudinal position of the nozzle may be varied in relation to the said plate, an arm adjustably mounted on the base, said arm having a portion adapted to hold the nozzle against the nozzle receiving member and directed at the plate and hook means on the arm adapted to support the nozzle at various inclinations depending on the adjustment of the arm.

2. In a hose having a tapered nozzle the combination of a base, a sleeve thereon, a plate rigidly mounted on the base in alinement with the axis of the sleeve and inclined at an angle thereto, a nozzle receiving member on said base between said sleeve and said plate, said sleeve being constructed to slidably and snugly receive the flexible hose some little distance away from the nozzle whereby the longitudinal axis of the nozzle may be varied relatively to the said plate due to the contact between the tapered nozzle and the nozzle receiving member, an arm having a portion adapted to contact with the nozzle to hold it against said nozzle receiving member and means to adjustably mount the arm on the base.

3. The combination with a tapered hose nozzle, of a base, a sleeve therein, a plate rigidly mounted on the base and inclined at an angle thereto, a nozzle receiving member on said base between said sleeve and said plate, said sleeve being constructed to slidably and snugly receive the flexible hose whereby the longitudinal position of the nozzle may be varied in relation to the said plate, whereby lateral movement of the nozzle is also had, and an arm adjustably mounted on the base, said arm having a portion adapted to hold the nozzle against the nozzle receiving member and directed at the plate.

In testimony whereof I affix my signature.

EDMUND C. HANLEY.