

2,601,655

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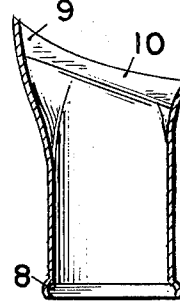
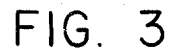


FIG. 5

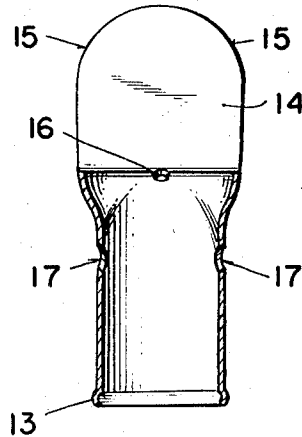
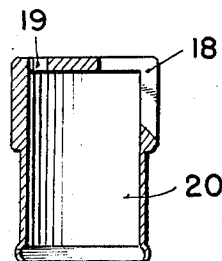


FIG. 7



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LAWN SPRINKLER

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2 Claims. (Cl. 299-65)

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My invention relates to a new and useful improvement in a sprinkling device adapted for use in sprinkling lawns, gardens and the like.

It is an object of the invention to provide a sprinkler having a stationary tubular portion adapted for connection with a suitable water supply and a nozzle or spraying device connected therewith by means of a comparatively short section of flexible tubing so arranged that the water flowing therethrough will serve to cause said tube and with it the nozzle to oscillate and vibrate or wriggle more or less rapidly in an erratic manner by the effluent liquid.

A further object is to oscillate or wriggle the nozzle to spread the spray issuing therefrom so that a delivery of the water over a wide area may be effected, thus producing a novel and pleasing effect and insuring a thorough sprinkling of the surrounding grass.

A further object of my invention is to provide a sprinkler having a stationary tubular portion adapted for connection with a suitable water supply, and a spraying device connected thereto by means of a flexible tube of less diameter than the said stationary tubular portion.

Another object is to provide a suitable coupling between the stationary upright tubular portion and the flexible tube.

A further object is to provide means for fixing the sprinkler in any position on a lawn, preferably by means of a spike the lower end of which is adapted to be driven into the soil.

Other features of the invention will appear as the specification proceeds.

The drawings accompanying the specification illustrate the invention in a concrete and preferred form but it is to be understood that the invention is capable of many changes and modifications without departing from the spirit and scope of the invention as is set forth in the accompanying claims.

In the drawings:

Fig. 1 is a front elevation showing the sprinkler in use.

Fig. 2 is a top view of one form of sprinkler nozzle.

Fig. 3 is a sectional side elevation along the line 2-2, Fig. 2.

Fig. 4 is a top of another modified form of nozzle.

Fig. 5 is a sectional side elevation along the line 4-4, Fig. 4.

Fig. 6 is a top view of a third modified form of nozzle.

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Fig. 7 is a sectional side elevation along line 7-7 of Fig. 6.

As clearly shown in Fig. 1, the sprinkler comprises a stand pipe A mounted on a base B having a screw threaded opening C at its lower end in which is screw threaded a spike D having screw threads E on its upper end and on its lower end a sharp point F which is driven into the ground thus firmly supporting in an upright position the stand pipe A which is provided with a fitting G for connection to a garden hose or source of supply H of water under a pressure head as is usually available.

To the upper end of the stand pipe A is connected by means of the fitting J a small flexible rubber tube K carrying on its free end a nozzle L.

Surrounding the lower end of the rubber tube K is a spiral or spring support M which tends to hold the rubber tube K in upright position.

The rubber tube K being comparatively small offers great resistance to the passage through it of the water and being very flexible, it is thereby caused to vibrate or wriggle in an eccentric and irregular manner, throwing the water in all directions.

The nozzle L shown in Fig. 1 is the species shown in Figs. 2 and 3 of the drawings. This nozzle shows a simple construction and is easily made from a small section of round aluminum pipe. One end of this pipe is slightly flared at 8 so as to hold in position the end of the rubber hose K which is slipped thereover and held in position by a small hose clamp or piece of cord in the customary manner. The nozzle is slightly curved at 9 at its outer end and is flattened or pinched to form an elongated opening 10 which is wider at one end 11 and at its other end 12 is reduced to a slot like opening. The shape of the nozzle opening is one of the features of my invention which was developed after long experiment in trying to devise a shape which would sprinkle the same amount of water at every part of the area being watered. The upper enlarged portion 11 throws a stream to the greatest distance while the reduced slot like portion 12 emits such a small amount of water that its energy is soon spent and it falls relatively close to the sprinkler.

Provided with the sprinkler are two other modified forms of nozzles which are also well suited for the purpose intended.

The operator selects the nozzle which is best suited for the area intended to be sprayed and to the pressure of water available.

A second form of nozzle is clearly shown in

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Figs 4 and 5 and is also constructed from a short section of aluminum pipe which is also flared at one end to hold in position the end of the rubber hose K.

At the base of these flattened portions is formed flattened and rounded as at 15 to form two rounded parallel lips quite close together so as to cause the water to issue as a flat spray.

At the base of these flattened portion is formed a round opening 16 through which issues a small round stream of water on either side of the flat spray.

If desired two other round openings 17 could be formed on opposite sides of the tubular portion as shown in Fig. 5.

The nozzle shown in Figs. 6 and 7 is formed from a short round bar of aluminum preferably provided with three equidistant slots shown at 18 and having three holes 19 drilled at one end equal distances apart as shown in Fig. 6. The inner portion 20 of the nozzle is then drilled out by suitable means thus forming the nozzle shown in section in Fig. 7.

The operation of the device is simple. The operator attaches the spike D to the base B. The spike is then pushed into the ground thus supporting the tubular portion or stand pipe A in an upright position. By means of the fitting G the garden hose H is attached to the base B and the device is ready for use.

I claim:

1. A lawn sprinkler comprising a base, a rigid tubular portion supported in an upright position by said base, a spike screwed into the lower end of the base for holding same in an upright position, a fitting attached to the side of the base adapted to be connected to a garden hose, a small flexible rubber tube connected to the upper end of the tubular portion, a spiral or spring

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support surrounding the lower end of the rubber tube, a suitable nozzle carried by the free end of the flexible rubber tube, said nozzle consisting of a small tubular section slightly flared at one end, the other end being flattened and rounded to form two rounded parallel lips close to each other, the tubular section being perforated at the base of each of said lips.

2. A lawn sprinkler comprising a base, a rigid tubular portion supported in an upright position by said base, a spike screwed into the lower end of the base for holding same in an upright position, a fitting attached to the side of the base adapted to be connected to a garden hose, a small flexible rubber tube connected to the upper end of the tubular portion, a spiral or spring support surrounding the lower end of the rubber tube, a suitable nozzle carried by the free end of the flexible rubber tube, said nozzle consisting of a small tubular section slightly flared at one end, the other end being flattened and rounded to form two rounded parallel lips, close to each other, the tubular section being perforated at the base of each of said lips and also at the sides of the tubular section.

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