

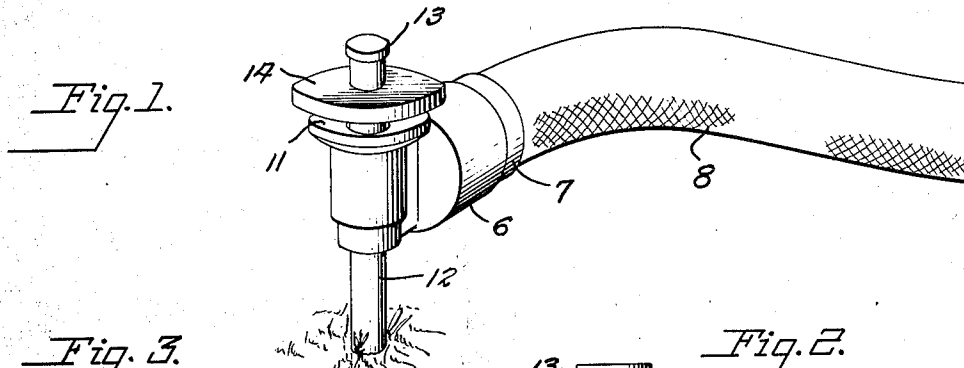
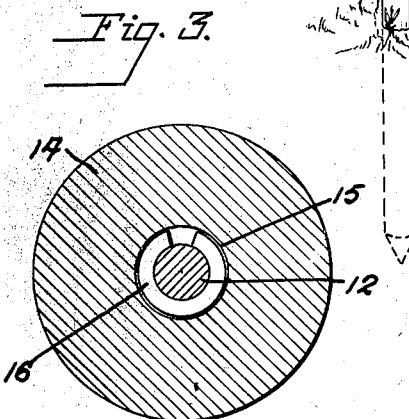
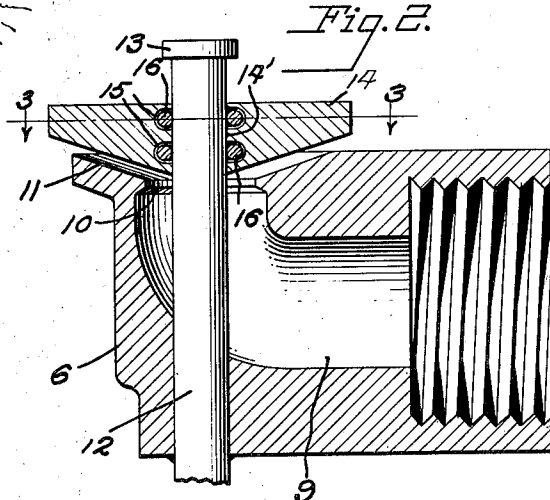
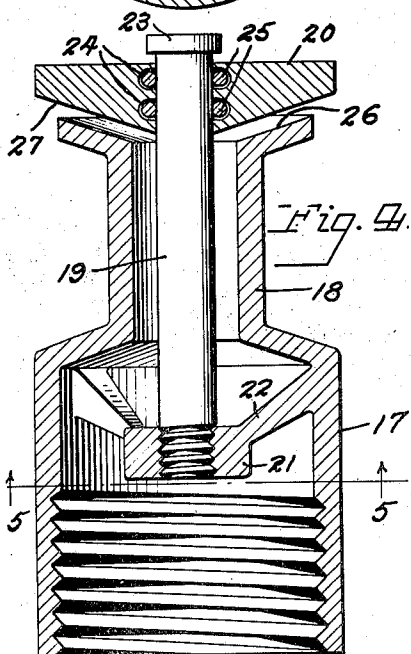
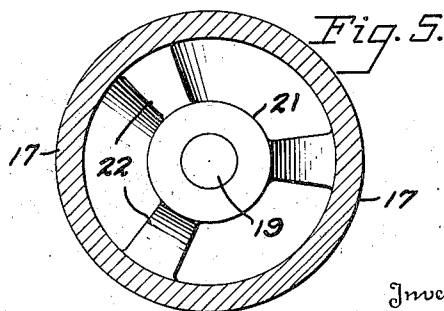
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2,108,207

LAWN SPRINKLER

Filed June 29, 1936



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UNITED STATES PATENT OFFICE

2,108,207

LAWN SPRINKLER

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1 Claim. (Cl. 299—130)

The invention forming the subject matter of this application relates generally to water sprinkling nozzles, and more particularly to nozzles designed for use in spraying water on lawns and the like.

The main object of the invention is to provide a sprinkler or spraying nozzle which is simple in construction, and which can be adjusted to spray water under pressure in quantities ranging from light mists to heavy sheets of water.

Other objects of the invention will become apparent as the detailed description thereof proceeds.

In the drawing:

Figure 1 is a perspective of the sprinkler as attached to a hose;

Figure 2 is a central vertical section through one form of the sprinkler;

Figure 3 is a horizontal section taken on the line 3—3 of Figure 2;

Figure 4 is a central vertical section through a modified form of the invention; and

Figure 5 is a horizontal section taken on the line 5—5 of Figure 4.

As shown in the drawing, the preferred form of the invention comprises a main body 6 internally screwthreaded at one end to receive the coupling 7 of a hose 8. The body 6 is provided with an L-shaped passageway 9 having a restricted aperture 10 at the upper end of the vertical portion thereof.

The body 6 is beveled around the aperture 10 to form a seat 11. A supporting rod 12 extends through the body 6, centrally through the aperture 10, and is suitably secured to the body 6. A stop 13 on the upper end of the rod 12 limits the upper movements of a spreader head 14 centrally apertured to slide on the rod 12 toward and from the seat 11.

Annular grooves 15 formed in the aperture 14 receive the split rings 16 which clamp the head 14 in any desired position of adjustment along the rod 12 with respect to the seat 11. The lower face of the head 14 is beveled to conform to the pressure of the liquid so that it leaves the head at an angle approximating 45 degrees from horizontal, or might correspond to the shape of the seat 11.

The form of the invention shown in Figures 4 and 5 comprises a body portion 17 adapted to be connected to one end of a stand pipe. The body portion 17 merges at its upper end into a restricted portion 18, which operates to secure

an even distribution of water around a rod 19 which acts as a support for a spreader head 20 similar to the head 13 of the form shown in Figure 2 of the drawing. The rod 19 is screwthreaded at its lower end to seat in the hub 21 of a spider 22 which may be cast integral with the body portion 17. The upper end of the rod 19 has an annular flange 23 formed thereon to act as a stop for limiting the outward movement of the spreader head 20.

The head 20 is provided with the annular grooves 24 in which are seated the split rings 25 which act as clamps on the rod 19 to secure the head 20 in any desired position of adjustment relative to the inclined seat 26 formed on the upper end of the restricted portion 18. The lower face of the spreader head 20 is provided with an inclined face 27 to co-operate with the inclined seat 26 in effecting the desired spread of liquid through the sprinkler head.

The split ring connection between the valve-deflectors 14 and 20 and their supporting rods provides a means whereby the valve may be very quickly adjusted to different positions with respect to the outwardly flared discharge aperture. In addition to this feature of quick adjustment, the sliding frictional connection permits the valve to move automatically to relieve excess pressure which would otherwise cause rupture of the hose.

It is to be understood that the invention is not to be considered as limited to the specific construction and arrangement described herein, since it is evident that many changes may be made without departing from the scope of the invention as defined by the claim appended hereto.

What I claim is:

A spray nozzle comprising a main body adapted to be connected to a source of liquid supply, a restricted part connected to said main body, and provided with a discharge aperture, said aperture being outwardly flared to provide a seat, a rod extending through said aperture and fixed to said body, a spreader head having a surface flared outwardly to correspond with the flare of said seat and having a bore in slidable contact with said rod, said bore being provided with an annular groove, and a split ring in said groove for clamping said spreader head in any desired position of adjustment on said rod.

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