No. 679,383. Patented July 30, 1901.

L. HORVATH.

LAWN SPRINKLER.

(Application filed Mar. 28, 1901.)

(No Model.)

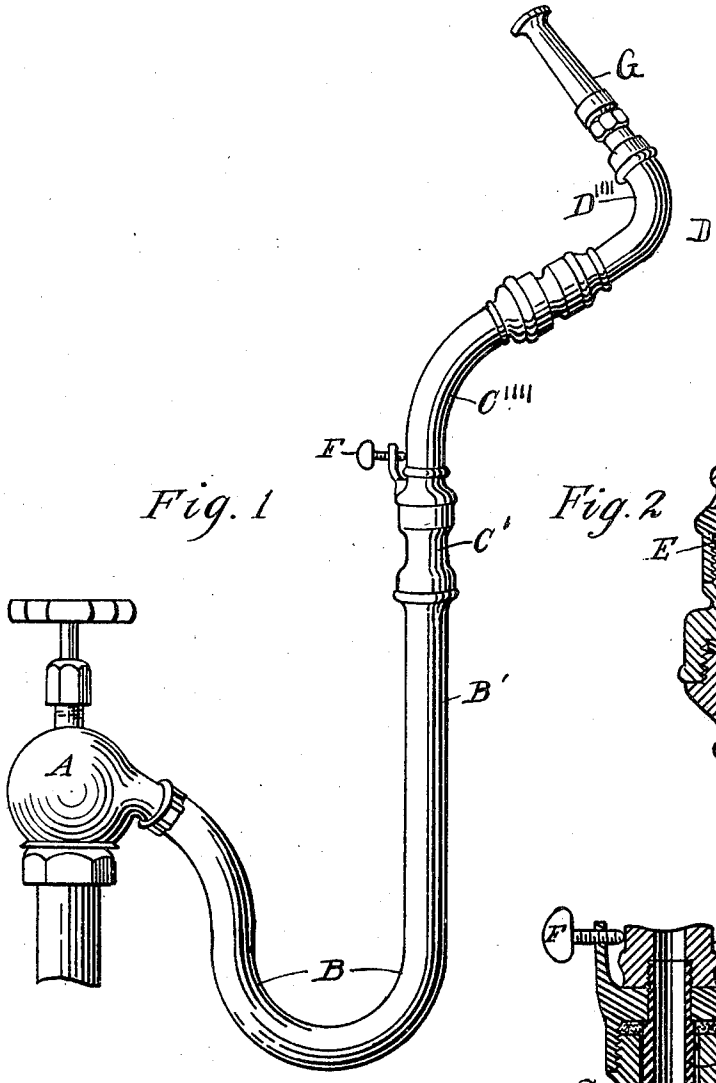


Fig. 1

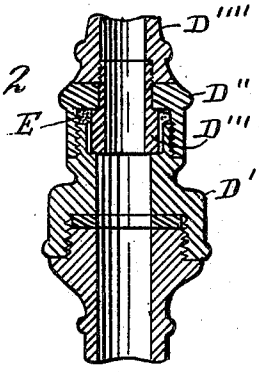


Fig. 2

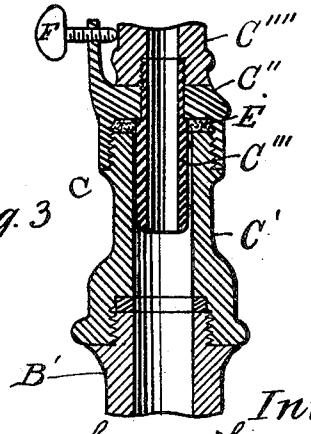


Fig. 3

Witnesses
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UNITED STATES PATENT OFFICE.

LOUIS HORVATH, OF LOS ANGELES, CALIFORNIA.

LAWN-SPRINKLER.

SPECIFICATION forming part of Letters Patent No. 679,383, dated July 30, 1901.

Application filed March 28, 1901. Serial No. 53,328. (No model.)

To all whom it may concern:

Be it known that I, LOUIS HORVATH, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles, State of California, have invented new and useful Improvements in Lawn-Sprinklers, of which the following is a specification.

My invention relates to rotary lawn-sprinklers; and the object thereof is to produce a sprinkler which may be attached directly to the hydrant, and thereby dispense with the use of hose. I accomplish this object by the device described herein and illustrated in the accompanying drawings, forming a part hereof, in which—

Figure 1 is a view of my sprinkler attached to a hydrant. Figs. 2 and 3 are detail views in section to show the construction of the joints of my sprinkler.

In my lawn-sprinkler described in the patent issued to me December 4, 1900, No. 663,277, I achieved very fine results; but with that device the water is discharged in one direction until its course is changed by the operator.

The object of my present invention is to produce a sprinkler that will automatically revolve and distribute water over almost as large a space as can be covered by my former sprinkler.

In the drawings, A is the hydrant, to which is coupled the U-shaped body B, the outer leg B′ of which is longer than the inner one. The inner leg is coupled to the hydrant, so that the portions of the sprinkler which revolve may not contact with the hydrant. To the outer leg is attached the quadrant elbow C by its base C′, to which is screwed collar C″, the bore of which is slightly less than that of the base and through which passes the reduced portion of the coupling-tube C‴, which screws into the body C⁗ and holds the parts of the elbow from separating, as the lower portion of the coupling-tube is too large to pass through the collar. Quadrant elbow C is formed of the base C′, collar C″, tube C‴, and curved body C⁗, with the other end screw-threaded in the manner usual to elbows. Surrounding the coupling-tube is a ring E, of packing, which when the collar is firmly screwed on the base forms a water-tight joint and at the same time permits the coupling-tube and body to revolve. To the quadrant elbow C is attached the quadrant elbow D, of the same construction as that of elbow C, except that the coupling-tube is shorter, the base is somewhat shorter, and the lower part of the bore of the base is less than the exterior diameter of the lower part of the coupling-tube. This change is made for the purpose of partly unscrewing the base from the collar and then turning the body of the elbow to any desired position and holding it in such position by screwing the base and collar together, as illustrated in Fig. 2. To elbow D is attached the nozzle G, adapted to throw a stream or spray, which completes my sprinkler.

When it is desired to prevent the rotation of the sprinkler, I provide thumb-screw F, mounted on collar C″, which may be screwed against body C⁗ to prevent its turning.

The short leg of the body B may be of any suitable shape for attaching it to the hydrant; but all curves in the sprinkler should be arcs of a circle and the curves of the body and the elbows should be of the same radius to produce the best results.

In the operation of my sprinkler elbow D is set at such an angle as will give the water the desired spread, and the force of the water causes body C⁗, elbow D, and the nozzle to rotate.

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

1. A sprinkler comprising a U-shaped body having one leg thereof longer than the other, the curves of which are arcs of a circle, a quadrant elbow-shaped member, composed of a base, adapted to be screwed upon the longer leg of the body; a collar adapted to be screwed upon the base; a curved body; a coupling-tube having one end thereof reduced in size and adapted to pass through the collar and screw into the curved body; a second quadrant elbow adapted to be screwed upon the first elbow also composed of a base; a collar; a coupling-tube and a curved body, the enlarged portion of the coupling-tube being adapted to be caught and held against rotation by the base and collar when in their operative position, and a nozzle, all constructed and operated as described herein.

2. In a sprinkler, a quadrant-shaped elbow comprising a base; a collar adapted to be screwed upon the base; a coupling-tube having one end smaller than the other, the smaller end adapted to pass through the collar and screw into the body, and a curved body, all constructed substantially as described herein.

In witness that I claim the foregoing I have hereunto subscribed my name this 24th day of January, 1901.

LOUIS HORVATH.

Witnesses:
G. E. HARPHAM,
MATTIE MCGINNIS.