Jan. 4, 1927. 1,613,336

W. VAN E. THOMPSON

LAWN SPRINKLER

Filed August 7, 1924

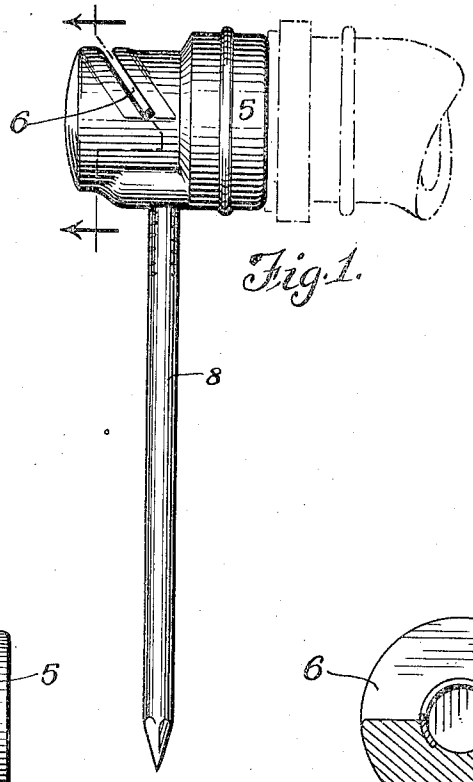


Fig. 1.

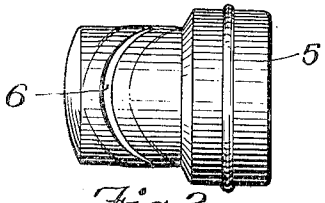


Fig. 2.

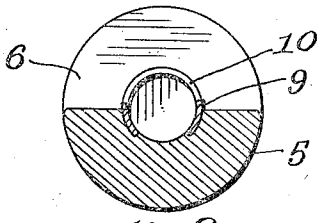


Fig. 3.

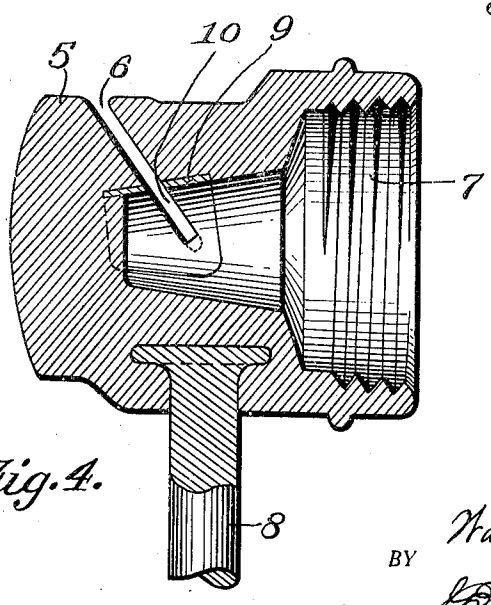


Fig. 4.

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UNITED STATES PATENT OFFICE.

WALTER VAN E. THOMPSON, OF LOS ANGELES, CALIFORNIA.

LAWN SPRINKLER.

Application filed August 7, 1924. Serial No. 730,564.

My invention relates to that class of lawn sprinklers which have a cast body with a slitted orifice attached to the end of a hose and then set in or upon the lawn, and the object thereof is to provide a sprinkler of this type which will produce an even distribution of the water issuing therefrom and which is cheap to manufacture.

In the drawings forming part of this application Fig. 1, is a side elevation of my sprinkler. Fig. 2 is a top plan. Fig. 3 is a section on the line 3—3 of Fig. 1.

Fig. 4 is an enlarged central longitudinal section.

Referring to the drawings the body 5 is formed by casting it from suitable metal with slot 6 and distribution chamber and threaded attaching chamber 7 therein. The lawn attaching spike 8 is secured to the body at the time it is cast in the well known manner as best illustrated in Fig. 4. In the sprinklers manufactured by me I use zinc and in order to achieve the result of an even distribution of the water which issues from slot 6 I punch and form up from sheet brass what I term a slot plate 9 which is placed in the mould and the metal cast around the outside as shown in the drawings. The slot 10 of plate 9 is a little shorter than slot 6, as best shown in Fig. 3, being in the sprinklers manufactured by me 21/64 of an inch at each side for a sprinkler for a ¾ inch hose. The slots are preferably at an angle of 60° to the longitudinal diameter of the body and are 6/64 of an inch wide at the top and 5/64 of an inch at the bottom. The diameter of the body at the top of the slot is $1\frac{1}{16}$ inches and the inside diameter at the slot is ⅜ of an inch.

These dimensions I have found from practical tests give an even distribution of the water issuing from the slot under a pressure of five pounds and up. By slanting the slot downwardly to a like extent, I could produce a like result from a body cast from brass or other metal.

For distinction I will call the slot formed by plate 9 and body 5 a slot with a stepped bottom. By a slot with a stepped bottom is meant one at which the inner edges are in a plane above the plane that passes through the outer edges. I have found by experiment that by making the inner edges of the slot higher than the outer edges, the higher inner edges cut off the flow of water sharply and the distribution is uniform from all portions of the slot.

Having described my invention I claim:

A lawn sprinkler comprising a tubular body having at one end hose attaching means and closed at the other end and having a water outlet slot extending angularly to the longitudinal axial line of the body substantially 60° and intersecting the bore of said body, a curved plate secured in said body in the region of said slot and defining a part of said bore, said plate having a slot therein which registers with the slot in the body, the bottom of the plate slot being in a plane spaced above that of the bottom of the body slot.

In witness that I claim the foregoing I have hereunto subscribed my name this 2nd day of August 1924.

WALTER VAN E. THOMPSON.