

J. A. TUTHILL.
LAWN SPRINKLER.
APPLICATION FILED NOV. 6, 1916.

1,216,630.

Patented Feb. 20, 1917.

Fig. 1.

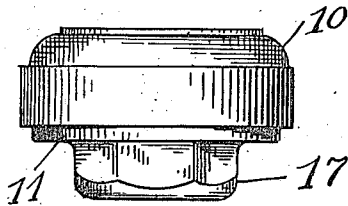


Fig. 2.

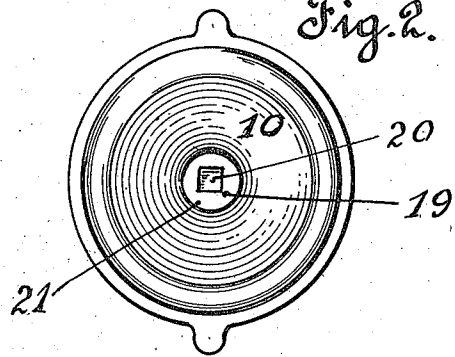


Fig. 3.

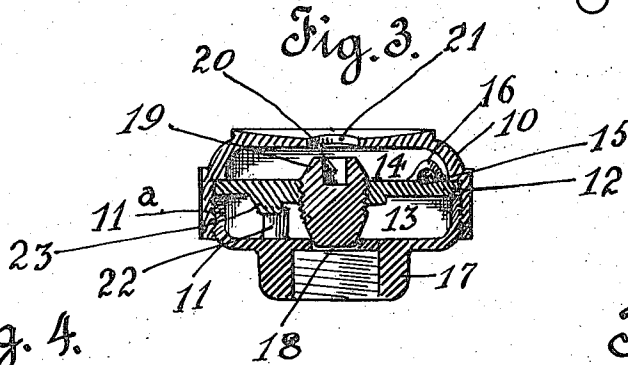


Fig. 4.

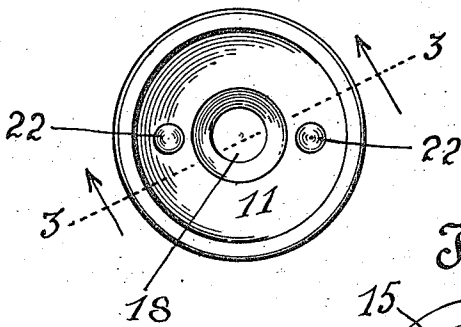


Fig. 5.

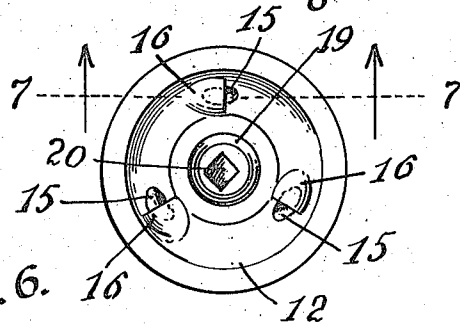


Fig. 6.

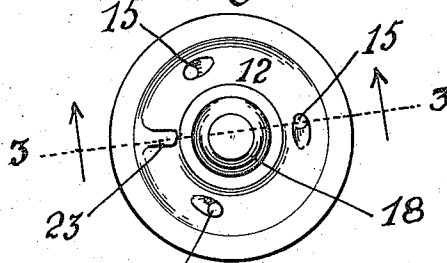
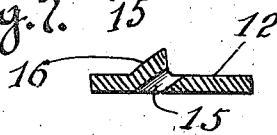


Fig. 7.



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LAWN-SPRINKLER.

1,216,630.

Specification of Letters Patent.

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To all whom it may concern:

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

My invention relates to that class of lawn sprinklers in which the water enters the spray chamber tangentially to the outlet and the object thereof is to provide a sprinkler of simple construction in which the spray can be regulated or cut off at either the inlet or outlet port.

In the drawings forming a part of this application:

Figure 1 is a side elevation of my improved sprinkler.

Fig. 2 is a top plan.

Fig. 3 is a central vertical section taken on the line 3—3 of Fig. 4 as to the outer casing and on the line 3—3 of Fig. 6 as to the division plate and regulating plug.

Fig. 4 is a top plan of the lower member of the outer casing.

Fig. 5 is a top plan of the division plate and regulating plug.

Fig. 6 is a bottom plan of the parts shown in Fig. 5.

Fig. 7 is a section on the line 7—7 of Fig. 5.

Referring to the drawings: 10 is the upper member and 11 is the lower member of the casing of the sprinkler which members are connected by a screw thread connection as shown at 11^a in Fig. 3. A division plate 12 rests upon the top of the lower member and is held positioned thereon by the upper member when the parts are assembled. This partition plate divides the interior of the casing into an inlet chamber 13, and a spray chamber 14. Communication is had between said chambers by a plurality of inclined ports or channels 15. To provide greater length of these channels small knobs 16 are provided preferably on the upper surface of the plate. On the lower member of the casing is a boss 17 which is internally threaded for the reception of a suitable connection, not shown, to a source of water supply. A

port 18 permits the water to flow into the inlet chamber and can be wholly or partly closed by a screw plug 19 which passes through the division plate in threaded engagement therewith. In the top of this plug is a socket 20 for the reception of a suitable shaped tool for changing the position of the plug. In the upper member of the casing is a central outlet port 21 which is adapted to be wholly or partly closed by plug 19.

Projecting upwardly from the upper surface of the lower member of the casing are two knobs 22 which are adapted to be engaged by a suitable wrench to screw the member on a pipe. The division plate may have a downwardly projecting lug 23 to engage knobs 22 to prevent any of the ports 15 from being obstructed by knobs 22. I have shown three ports in the division plate as I have found in practice that number gives satisfactory results but one or more ports may be used. By using a small regulating plug and screwing it up or down through the division plate I can regulate both the quantity and quality of the spray from the sprinkler and it is turned more easily than if it were larger. By regulating the water at port 18 the distance to which the water will be thrown is regulated. By regulating the water at port 21 the fineness of the spray is controlled. By dividing the casing horizontally and screwing the parts together so as to hold the division plate positioned in the casing should any of the ports become clogged the upper member can be disconnected and the ports cleaned without disconnecting the lower member.

Having described my invention what I claim is:

1. A lawn sprinkler comprising a casing consisting of an upper and a lower member detachably connected, said upper member having an outlet port, and said lower member having an inlet port and a threaded boss; a division plate having one or more inclined ports or channels and a screw-threaded opening therein; and a screw-threaded regulating plug mounted in said opening and being adapted to close either the inlet or the outlet port.

2. A lawn sprinkler comprising a casing

composed of parts detachably connected, one
of said parts having an inlet port and the
other part having an outlet port therein; a
division plate dividing said casing into an
5 inlet chamber and a spray chamber, said
plate having one or more inclined ports or
channels and a central screw-threaded open-
ing therein; and a screw-threaded plug
mounted in said central screw-threaded
10 opening and having a socket therein and be-

ing adapted to close the inlet or the outlet
port.

In witness that I claim the foregoing I
have hereunto subscribed my name this 2nd
day of November, 1916.

JAMES A. TUTHILL.

Witnesses:

HARRY R. BETTINSON,
EDWARD H. HOLMES.