H. E. HOUSTON.

SPRINKLER.

APPLICATION FILED JULY 21, 1914.

1,152,636. Patented Sept. 7, 1915.

Fig. 1.

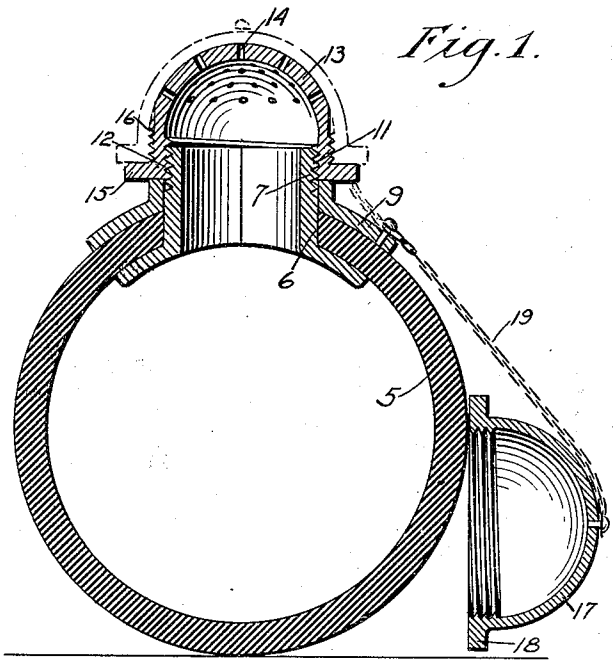


Fig. 3.

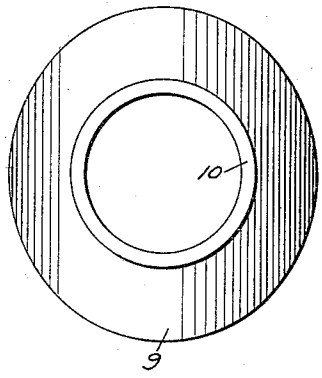


Fig. 2.

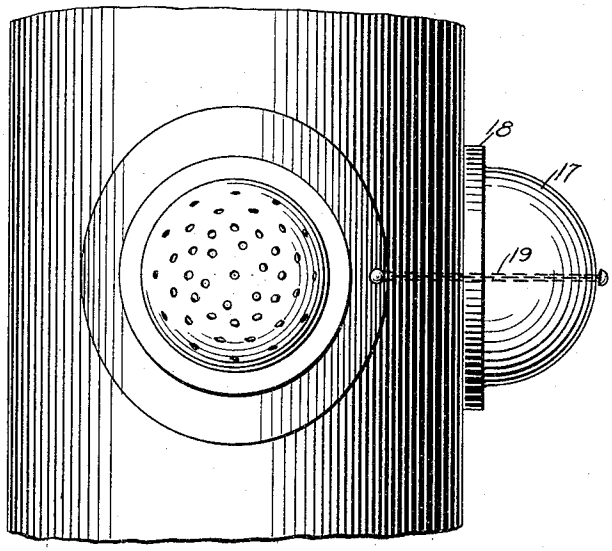
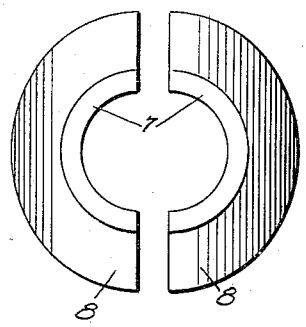


Fig. 4.



WITNESSES

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SPRINKLER.

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To all whom it may concern:

Be it known that I, HUGH EDWARD HOUSTON, a citizen of the United States, and a resident of Wichita Falls, in the county of Wichita and State of Texas, have invented a new and Improved Sprinkler, of which the following is a full, clear, and exact description.

My invention relates to devices employed more particularly for sprinkling lawns; and the object thereof is to provide a simple, convenient and inexpensive device which can be easily and quickly attached to a garden hose, and which device has simple means for placing the same into operative or into inoperative position.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination and arrangement of parts as herein fully described, illustrated and claimed.

In the accompanying drawings, forming part of the application, similar characters of reference indicate corresponding parts in all the views, and Figure 1 is a vertical cross section of a garden hose provided with an embodiment of my invention; Fig. 2 is a plan view of a section of a garden hose provided with my invention; Fig. 3 is a plan view of the binding flange; and Fig. 4 is a plan view of the sections forming the nipple of the device.

Referring to the drawings, 5 represents a garden hose in which a suitable aperture 6 is formed, the diameter of said aperture 6 being smaller than the outer diameter of the nipple sections 7 so that when said nipple sections are forced into the aperture the same will maintain the sections against one another. The lower ends of the nipple sections 7 are provided with lateral flange portions 8 which form a part of a cylindrical surface adapted to conform with the inner surface of the hose, as best seen in Fig. 1. Fitting over the outwardly projecting ends of the nipple sections 7 is a retaining flange or washer 9, said flange being similarly cylindrically shaped so that it will conform to the outer surface of the hose 5. The flange is provided with an annular central collar 10 fitting snugly about the nipple sections 7.

The nipple sections 7 adjacent the collar 10 are provided with a continuous thread 11 engaged by the interiorly threaded portion 12 of a sprinkler head 13. The portion of the head above the threaded portion 12 is preferably semi-spherical and provided with a large number of perforations 14. The sprinkler head 13 when screwed on to the nipple sections 7 comes in engagement with the collar 10 of the retaining flange 9, thus causing a drawing action on the nipple sections and thereby firmly securing the nipple sections to the hose 5.

The sprinkler head 13 is provided with an outer lateral flange 15 adjacent the threaded portion 12 thereof and also with an exterior thread 16 adjacent said flange 15. A cap 17 can be secured on to the thread 16 of the sprinkler head 13 with the flange 18 of the cap coming in contact with the flange 15 of the head, whereby said sprinkler head is placed into inoperative position, as indicated in dotted lines in Fig. 1. Therefore, to allow water to escape through the perforations 14 of the sprinkler head the only thing necessary is the removal of the cap 17. To shut off the water, the cap is placed on to the head as stated. To prevent the misplacement of the cap 17, the same is secured to the retaining flange 9 by a suitable flexible member 19.

From the foregoing description, taken in connection with the accompanying drawings, the advantage of the construction and operation of the device shown will be readily understood by those skilled in the art to which the invention pertains; and while I have described the principle of operation, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative and that such changes may be made when desired as are within the scope of the appended claims.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In a device of the class described, nipple sections having a flange portion at one end adapted to fit the interior surface of a hose and a threaded portion at the other end, a retaining flange adapted to fit the nipple sections and fit the outer surface of the hose, a sprinkler head adapted to engage the threaded portion of said nipple sections and force said retaining flange toward the flange portion of said nipple sections, and a threaded cap for said sprinkler head removable therefrom.

2. In a device of the class described, a

nipple having a flange portion and a threaded portion, said flange portion being adapted to fit the interior surface of a hose, a retaining flange associated with said nipple and adapted to fit the exterior surface of the hose, a sprinkler head adapted to engage the threaded portion of the nipple and force said retaining flange toward the flange portion of the nipple, and a threaded cap for said sprinkler head removable therefrom.

3. In a device of the class described, a nipple formed of longitudinal sections, said sections having flange portions at one end, said flange portions forming part of a cylindrical surface adapted to contact with the interior surface of a hose, said nipple sections having the other end threaded, a retaining flange forming part of a cylindrical surface adapted to fit the exterior surface of a hose, said retaining flange having an annular collar adapted to receive the nipple sections, a sprinkler head adapted to engage the threaded parts of said nipple sections and said collar of said retaining flange, whereby the retaining flange is forced toward the flanged part of the nipple sections, and a threaded cap for said sprinkler head removable therefrom whereby the same can be placed into operative or into inoperative position.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

H. EDWARD HOUSTON.

Witnesses:
C. A. ELDER,
E. C. LACY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."