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WATER CONTROL AND DISTRIBUTOR DEVICE

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FIG. 1

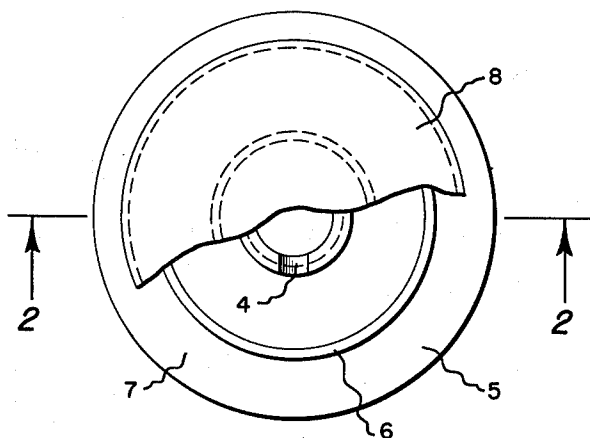
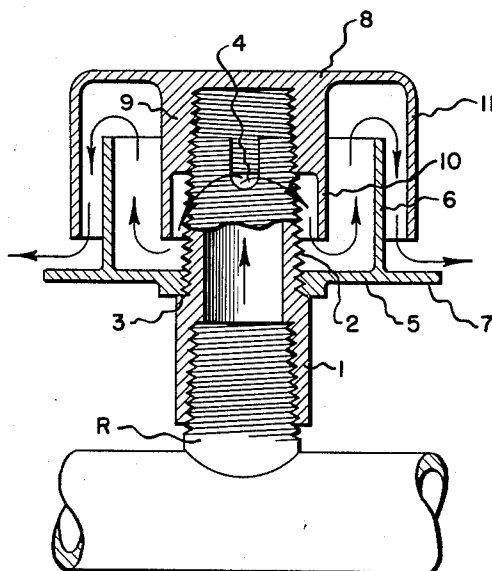


FIG. 2



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WATER CONTROL AND DISTRIBUTOR DEVICE

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4 Claims. (Cl. 299—60)

My invention relates to a water control and distributor device, more particularly to a device used for soaking areas of ground in regulated quantities for equal distribution without spraying or wetting the foliage of the plant where the water is distributed, and the objects of my invention are:

First, to provide a water control and distributor device in which water flow is baffled so that it soaks the ground without spraying or wetting the plant foliage.

Second, to provide a device of this class in which the flow may be regulated by simply turning a portion of the control device.

Third, to provide a device of this class by which the water flow may be entirely shut off by further turning the control portion of the device.

Fourth, to provide a device of this class which is only one unit of which a plurality may be used for soaking a large area, and

Fifth, to provide a device of this class that is extremely simple and economical to make, easy to install in connection with conventional water service supply risers, efficient in its action, and which will not readily deteriorate or get out of order.

With these and other objects in view, as will appear hereinafter, my invention consists of certain novel features of construction, combination, and arrangement of parts and portions, as will be hereinafter described in detail, and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the character of reference thereon, which form a part of this application, in which:

Figure 1 is a fragmentary top or plan view of my water control and distributor device with a portion broken away to facilitate the illustration, and Fig. 2 is a sectional view taken on a line 2—2 of Fig. 1 and showing portions broken away to facilitate the illustration.

Similar characters of reference refer to similar parts and portions throughout the views of the drawings.

It is to be noted that applicant's water control and distributor device is a single unit as disclosed herein, and is to be utilized by an underground water pipe system or a hose in sections with supports with male pipe threaded risers distributed in suitable positions in the area to be irrigated or soaked. Each unit of my device includes a female threaded connection portion 1 which is adapted to be screw-threaded on the riser R, shown best in Fig. 2 of the drawings. This connection member 1 extends upwardly and is provided with external tapered pipe threads 2, extending upwardly from a shoulder 3. It is provided at its upper end with downwardly extending opposed slots 4. Screw-threaded on this threaded portion 2 and resting against the shoulder 3 is a disc-like member 5 which is provided with an upwardly extending annular baffle member 6 which is positioned inwardly from the periphery of said disc-like member 5 leaving a flange portion 7 extending outwardly around the same.

Screw-threaded on the upper end of the threaded portion 2 is a cap-like member 8 by means of pipe threads

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in said cap conforming to the pipe threads 2 on the member 1 and it will be noted that these threads extend downwardly on a portion 9 and extending downwardly therefrom and spaced from the threaded portion 2 a slight distance is an annular baffle member 10, it being noted that the portion 9 of the cap member 8 extends downwardly over the slots 4 in the upper end of the member 1 so that the flow of water through the slots 4 may be regulated by simply turning the cap member 8 downwardly and the flow may be entirely closed off by turning said cap member 8 downwardly to pass the lower end of the slot and in tight relation with the threads 2 to form a tight closed fit. This cap member 8 extends outwardly past the baffle member 6 on the disc 5 then turns downwardly in spaced relation outwardly from the baffle member 6 forming an annular downwardly extending flange 11 which forms another baffle for the water in its flow to the ground from the riser R.

Thus it will be noted that the water flows from the conventional water distributing system through the riser R up through the member 1 out through the slots 4 and baffled by the member 10 and downwardly then upwardly, between the baffle members 10 and 6 past the upper edge of the baffle member 6 then downwardly and out past the lower edge of the baffle 11, where it has been so baffled that it flows down around the flange 7 to the ground for water distribution and soaking without spraying or wetting the foliage, all as shown by arrows in Fig. 2 of the drawing. Thus the flow of water can be controlled by simply turning the cap member 8 on the threads 2 regulating the flow through the slots 4 and that the water may be turned off entirely by continuing the turning of the cap 8 to its tight relation with the threads 2 past the lower edge of the slots 4.

Though I have shown and described a particular construction, combination and arrangement of parts and portions, I do not wish to be limited to this particular construction, combination and arrangement, but desire to include in the scope of my invention the construction, combination and arrangement substantially as set forth in the appended claims.

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

1. In a water control and distributor device the combination of a connection member internally pipe-threaded at its lower end, and externally pipe threaded at its upper end, and provided with opposed slots through its walls extending downwardly from its upper edge, and a cap member screw-threaded over the upper end thereof arranged to be screw-threaded down below the lower ends of said slots in said connection member, said cap provided with a plurality of downwardly extending annular baffles arranged to baffle the water from said slots and force it downwardly.

2. In a water control and distributor device the combination of a connection member internally pipe-threaded at its lower end, and externally pipe threaded at its upper end, and provided with opposed slots through its walls extending downwardly from its upper edge, a cap member screw-threaded over the upper end thereof arranged to be screw-threaded down below the lower ends of said slots in said connection member, said cap provided with a plurality of downwardly extending annular baffles arranged to baffle the water from said slots and force it downwardly, and a disc member secured to said connection member below the lower edges of the annular baffles on said cap member.

3. In a water control and distributor device the combination of a connection member internally pipe-threaded at its lower end, and externally pipe threaded at its upper

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end, and provided with opposed slots through its walls extending downwardly from its upper edge, a cap member screw-threaded over the upper end thereof arranged to be screw-threaded down below the lower ends of said slots in said connection member, said cap provided with a plurality of downwardly extending annular baffles arranged to baffle the water from said slots and force it downwardly, a disc member secured to said connection member below the lower edges of the annular baffles on said cap member, said disc member provided with an annular upwardly extending baffle member interposed between the baffle members on said cap member and in spaced relation therefrom.

4. In a water control and distributor device the combination with a conventional pipe-threaded riser from a distributing system, of a connection member provided with threads arranged to fit said riser at its lower end and provided with tapered pipe threads externally at its

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upper end, and further provided with slots extending downwardly from its upper edge, an annular baffle member secured to said connecting member and extending upwardly therefrom in spaced relation therefrom, and a cap-like member screw-threaded on the upper end of said connection member provided with a downwardly extending portion adapted to extend downwardly over said slots and provided with a plurality of downwardly extending annular baffle members arranged in inwardly and outwardly spaced relation with said upwardly extending baffle member.

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