

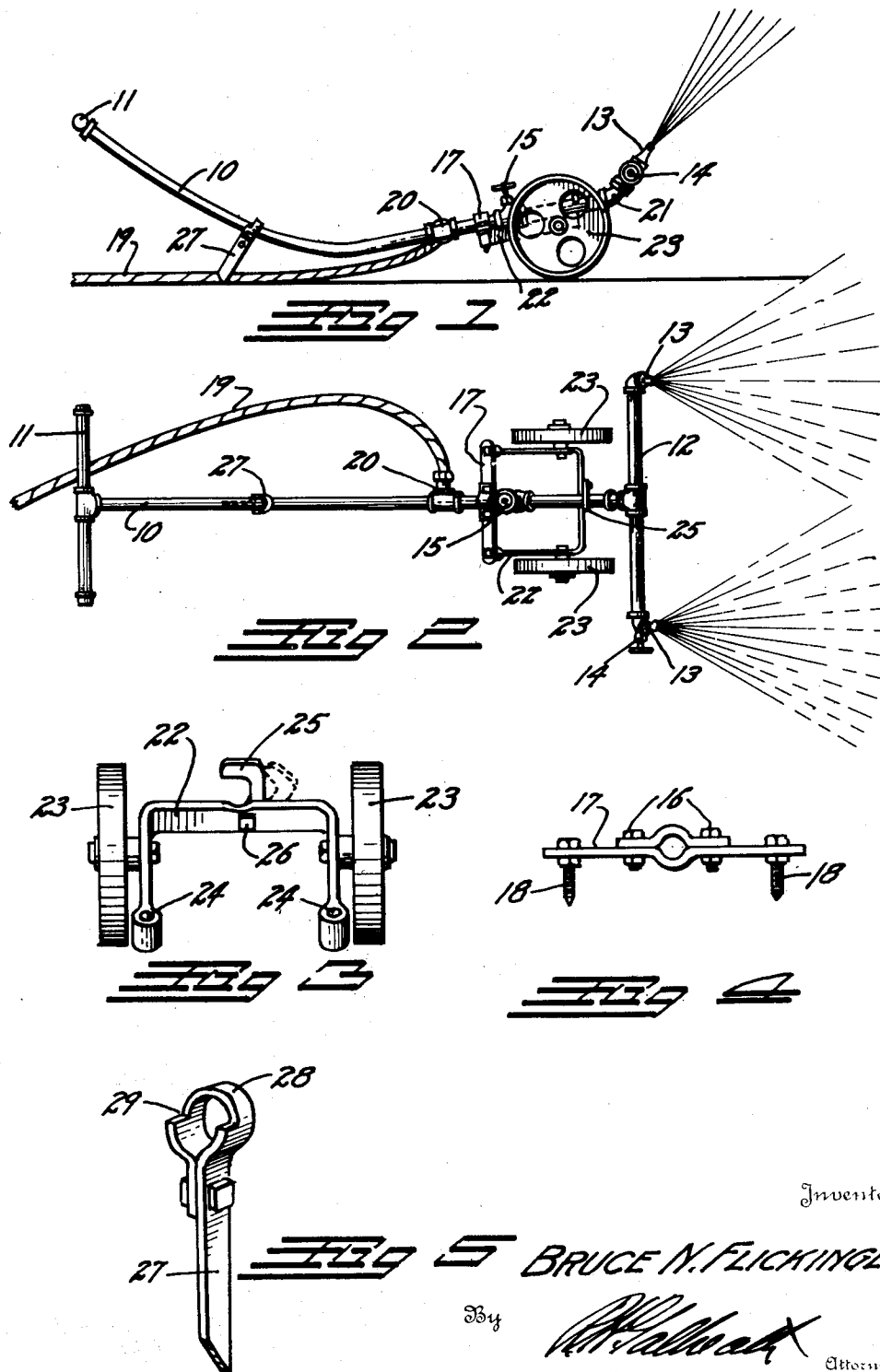
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LAWN SPRINKLING DEVICE

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LAWN-SPRINKLING DEVICE.

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This invention relates to a device for sprinkling or watering lawns, gardens, and the like.

The principal object of the invention is to provide means for carrying sprinkling nozzles so that the nozzles may be drawn or pushed to new locations without the necessity of shutting off the water and without danger of wetting the operator.

Another object of the invention is to arrange a series of nozzles so that they may be used in a battery or individually as desired.

A further object is to provide a nozzle carriage with which the elevation or sprinkling angle of the nozzles may be readily adjusted and set.

A still further object is to provide a nozzle carriage which may be quickly and easily mounted on wheels or dismounted therefrom, as the case requires.

Other objects and advantages reside in the detail construction of the invention, which is designed for simplicity, economy and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention, reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:

Fig. 1 is a side elevation of my improved sprinkling device.

Fig. 2 is a plan view thereof.

Fig. 3 is a detail view of the wheeled carriage.

Fig. 4 is a detail view of the pipe clamp.

Fig. 5 is a detail perspective view of the adjustable leg of the device.

The invention comprises a main pipe 10, terminating at its one extremity in a handle 11, and at its other extremity in lateral pipes 12. At the free extremities of the lateral pipes are nozzles 13, one of which is individually controlled by means of an angle valve 14.

Both nozzles 13 may be controlled as a unit by a main valve 15. Clamped to the main pipe 10, by means of bolts 16, is a pipe clamp 17 carrying projecting pins 18.

Water is supplied to the main pipe from the hose, illustrated at 19, through a T 20. The nozzles 13 are caused to project at

an upward angle by mounting the lateral pipes 12 on the main pipe 10 through the medium of a 45° elbow 21.

The device may be carried on a wheeled truck, as illustrated in Fig. 3, comprising a truck frame 22 carried on a pair of wheels 23. When in place on the truck, the pins 18 engage sockets 24 provided in the extremities of the truck frame and the main pipe 10 is clamped in place by a pipe hook 25 pivoted to the frame 22, at 26.

The vertical angle of the nozzle streams may be adjusted by means of an adjustable leg 27 arranged to slide along the main pipe 10 which is curved where it extends rearwardly from the T 20. Thus by moving the leg toward the handle 11, the nozzles will project their streams more vertically and by moving the leg 27 toward the T 20, the nozzles will be caused to project their streams toward the horizontal.

It is desired to call attention to the construction of the leg 27. The leg is provided with a looped portion 28 which surrounds the pipe 10. The upper half of the loop 28 is cut away, as shown at 29, to approximately one half its width. This construction causes the loop to exert a clamping action on the pipe 10, which will maintain it in any desired position along the pipe. If the leg 27 is moved by hand to a position perpendicular to the pipe, it may be moved along the pipe without resistance but when the weight of the pipe 10 is brought on the leg, while it is in engagement with the ground, the leg will be turned to an angle to the perpendicular which causes it to exert a clamping action on the pipe, which maintains it in position.

The device may be used with or without the wheeled truck and may be readily removed from the truck by unhooking the hook 25 and lifting the pins 18 from their sockets 24. When used without the truck the pins engage the ground and firmly hold the nozzles in position. The adjustable leg acts to similarly adjust the nozzles whether the truck is employed or not.

In using the present nozzles, which are attached to the end of a hose, the nozzle can be drawn over the lawn by drawing on the hose. To advance the nozzles, however, it is necessary to shut off the water and then place the nozzle in the desired position. With the use of the present invention, the

nozzles can be advanced as readily as they can be drawn without inconvenience to the operator, and without the necessity of turning off the water.

5 For sprinkling a long narrow area, such as a parking between the side-walk and curb, the adjustable leg 27 may be drawn toward the handle 11 until the nozzles 13 project substantially vertically. Since
10 these nozzles are adjusted to throw a wide fan-shaped spray, as illustrated, they will in this position sprinkle a long narrow area at right angles to the pipe 10.

For sprinkling an area of relatively large
15 size, both as to width and length, the leg 27 is moved toward the T 20 so that the sprays will project substantially horizontally, in which position they will cover the greatest amount of area. Should it be desired to water a very small space, the valve
20 14 may be closed and only one of the nozzles 13 employed. Should the pressure be so great that one nozzle is more than sufficient, the valve 15 may be adjusted until the
25 spray from that nozzle covers the desired area.

The wheeled truck finds its greatest utility when using the device on newly made lawns. The sprouting seeds in a new lawn
30 have, of course, practically no attachment to the ground, and to drag a nozzle over them tears them from their roots. By using the wheeled truck, however, this dragging action is eliminated and since the
35 wheels have a relatively broad tread, they will serve to roll the seeds and sprouting grass firmly into place.

The device admits of many other adjustments and uses which will soon become apparent to any user, and are within the contemplation of the invention.

While a specific form of the improvement has been described and illustrated herein, it is desired to be understood that the same
45 may be varied, within the scope of the appended claims, without departing from the spirit of the invention.

Having thus described the invention, what I claim and desire to secure by Letters
50 Patent is:—

1. A lawn sprinkling device adapted to rest upon a supporting surface comprising an upwardly curved main pipe; a handle at one extremity of said pipe; lateral pipes
55 at the other extremity of said main pipe; nozzles carried at the extremities of said lateral pipes; means for supplying water to said main pipe; and means longitudinally adjustable along said main pipe and contacting with said supporting surface to
60 change the projecting angle of said nozzles.

2. A lawn sprinkling device comprising a main pipe; a handle at one extremity of said pipe; lateral pipes at the other ex-
65 tremity of said main pipe; nozzles carried

at the extremities of said lateral pipes; means for supplying water to said main pipe; a lateral member clamped to said pipe and projecting oppositely outward from each side thereof so as to maintain
70 said lateral pipes horizontal when said main pipe is upon the ground; and means on said member for detachably engaging a carriage for said device.

3. A lawn sprinkling device comprising a
75 main pipe; a handle at one extremity of said pipe; lateral pipes at the other extremity of said main pipe; nozzles carried at the extremities of said lateral pipes; means for supplying water to said main
80 pipe; a member clamped to said pipe and adapted to project oppositely outward from each side thereof so as to maintain said lateral pipes horizontal; a carriage; means
85 on said member for engaging said carriage said carriage comprising a frame; wheels arranged to support said frame; and attachment means carried by said frame for engagement with said main pipe.

4. Means for varying the projection angle
90 of nozzles carried on a pipe, comprising a leg arranged to slide along said pipe, said pipe being bent in a vertical plane so as to cause it to change elevation as the position of said leg is varied; and means for pivotally
95 supporting said pipe, said means being placed between said nozzles and said leg.

5. A sprinkling device arranged to rest upon a supporting surface comprising a
100 main pipe; lateral pipes communicating with and carried by the forward extremity of said main pipe and supporting nozzles, means for maintaining said lateral pipes horizontal; a leg arranged to slide along
105 main pipe and support the rearward extremity thereof from said supporting surface, said main pipe being bent at an upwardly extending angle so that movement of said leg there along will support it at
110 varying angles; means arranged between said lateral pipes and said leg for supporting said main pipe; and means for supplying water to the interior of said main pipe.

6. A sprinkling device comprising a main pipe adapted to support nozzles at its one
115 extremity, means for supporting said pipe comprising, a U-shaped frame; wheels secured to the parallel sides of said frame; a cross bar secured to said pipe and detachably secured between the extremities of
120 said frame; and means for securing said pipe to said frame intermediate said wheels.

7. A sprinkling device comprising a main pipe adapted to support nozzles at its one
125 extremity, means for supporting said pipe comprising, a U-shaped frame; wheels secured to the parallel sides of said frame; a cross bar secured to said pipe and detachably secured between the extremities of said
130 frame; and means for securing said pipe to

said frame intermediate said wheels, said means comprising a pivoted clamping member adapted to swing over said pipe.

5 8. A sprinkling device comprising a main pipe adapted to support nozzles at its one extremity, means for supporting said pipe comprising, a U-shaped frame; wheels secured to the parallel sides of said frame; a

cross bar secured to said pipe; means for securing said pipe to said frame intermediate said wheels, and pins in the extremities of said cross bar arranged to pass into sockets in the extremities of said U-shaped frame. 10

In testimony whereof, I affix my signature.

BRUCE N. FLICKINGER.