

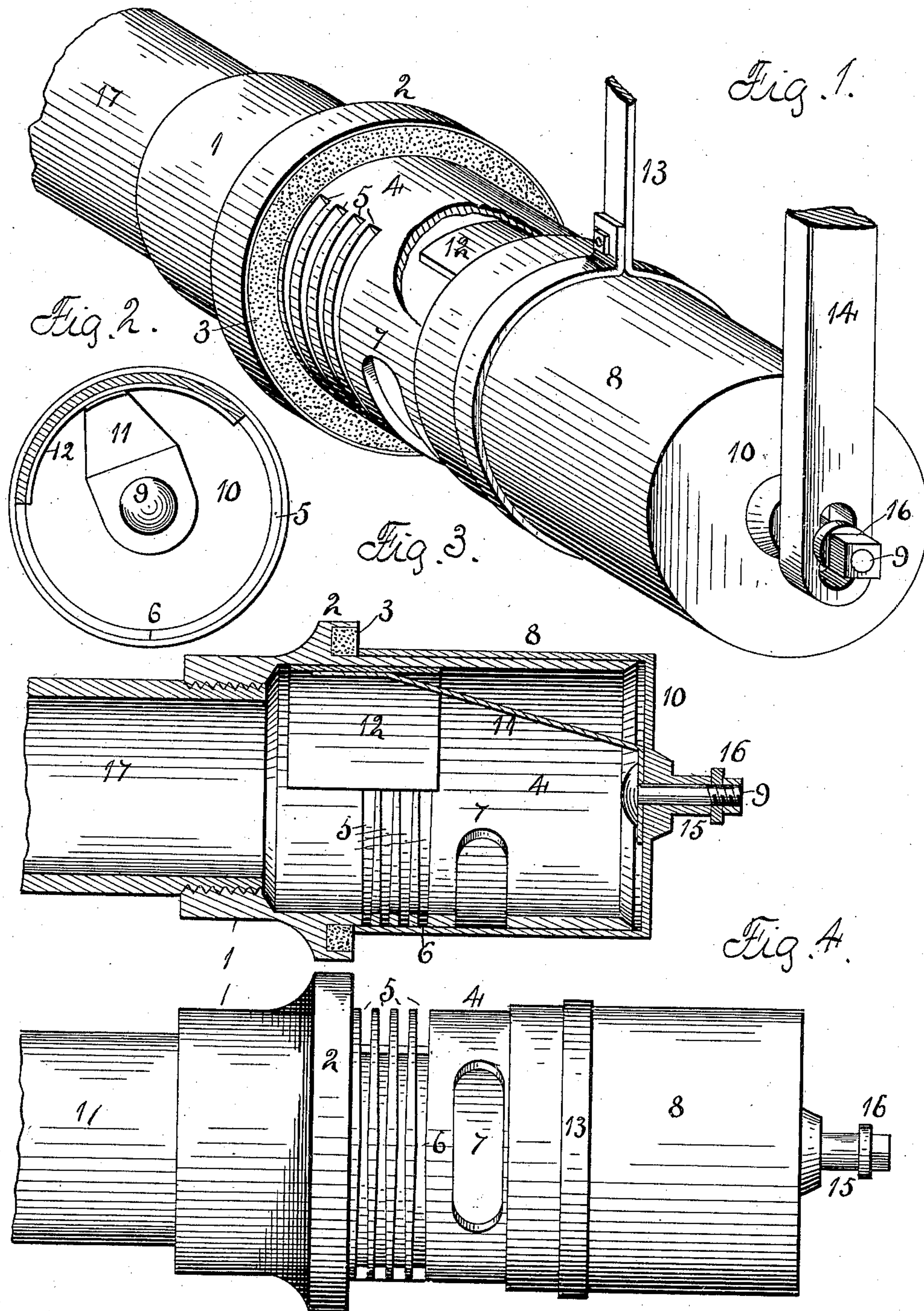
No. 684,542.

Patented Oct. 15, 1901.

E. D. ETNYRE.  
SPRINKLER HEAD.

(Application filed Feb. 27, 1901.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

EDWARD D. ETNYRE, OF OREGON, ILLINOIS.

## SPRINKLER-HEAD.

SPECIFICATION forming part of Letters Patent No. 684,542, dated October 15, 1901.

Application filed February 27, 1901. Serial No. 49,159. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD D. ETNYRE, a citizen of the United States, residing at Oregon, in the county of Ogle and State of Illinois, have invented certain new and useful Improvements in Sprinkler-Heads, of which the following is a specification.

The object of this invention is to construct a sprinkler-head in which the quantity of water discharged and the area which it covers may be varied.

In the accompanying drawings, Figure 1 is an isometrical representation of my improved sprinkler-head. Fig. 2 is a transverse vertical section. Fig. 3 is a lengthwise vertical section. Fig. 4 is an underface representation of the sprinkler-head.

The stationary portion of the sprinkler-head is of cylindrical form and comprises the screw-threaded end 1, an enlarged annular socket 2, fitted with a rubber packing 3, and the open-ended extension 4. This extension is provided with a series of slits 5, gradually increasing in width from the point 6. A large opening 7 is formed in the under side of the extension. An outer cap 8 receives the extension 4 and is of a length to be moved in contact with the rubber packing 3. A bolt 9 extends through the end 10 of the cap and secures in position a spring 11, located within the cap. To the free end of the spring is secured a curved plate 12 of a shape to fit the inner face of the extension 4. A lever 13 is clamped in its connection with the cap 8, and a lever 14 has a connection with the stud 15, extending from the closed end of the cap and held in position by the nut and washer 16.

The sprinkler-head has a screw-threaded connection with the water-supply pipe 17, and when the cap is closed the parts will appear as shown at Fig. 3 and are held in this position by the lever 14.

The sprinkler-head is designed for use on street-sprinkler wagons. Two heads are employed and so located that the shorter sections of the slits will face toward the center of the wagon, so that the water discharged therefrom

will meet upon the ground centrally under the wagon. By means of the lever 14 the cap can be drawn out and expose one or more of the slits from which water will be discharged, and by reason of the slits being tapered the same quantity of water will be discharged upon all parts of the ground, because of the greater land-surface a given length of slit must supply water to. The large opening 7 is to permit the discharge of any substance that might gain access to the sprinkler and could not escape through the slits. The water within the head will exert its force against the closed end of the cap and assist in moving it to expose the openings, and the hand-lever 14 forms the means for moving the cap to close the openings. The curved plate 12, located within the extension 4 and having a connection with the cap, may be oscillated by means of the lever 13, which will oscillate the cap, and the curved plate may be moved to close a portion of the slits, so that water may be discharged from that portion of the slits not closed by the plate. By means of this curved plate and the lengthwise bodily movement of the cap the discharge of water from the head is under control.

I claim as my invention—

1. In a sprinkler, the combination of a head provided with openings, a cap capable of lengthwise and oscillatory movements, and a curved plate located within the head and movable with the cap.

2. In a sprinkler, the combination of a head provided with a series of concentric openings, a cap capable of a lengthwise and oscillatory movement, and a curved plate located within the head and movable with the cap.

3. In a sprinkler, the combination of a head provided with a series of concentric openings, a cap capable of a lengthwise and oscillatory movement, a curved plate located within the head having a spring connection with the cap.

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Witnesses:

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