(No Model.)

J. B. HABERLE.

SPRINKLER.

No. 512,292. Patented Jan. 9, 1894.

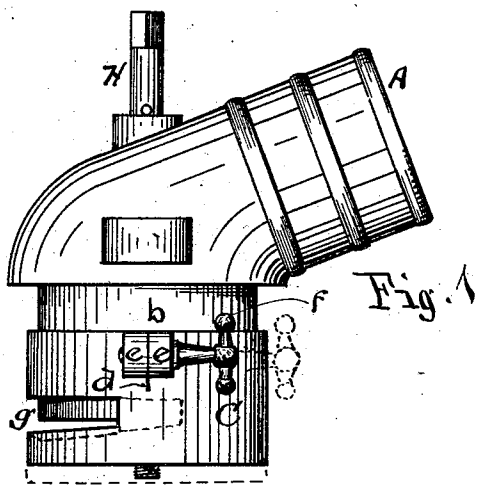

Fig. 1

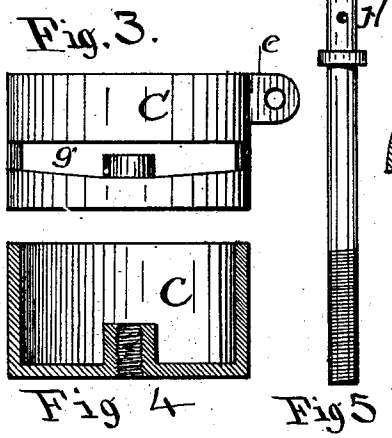

Fig. 3.

Fig 4

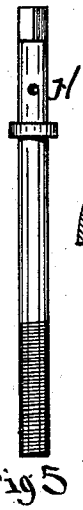

Fig5

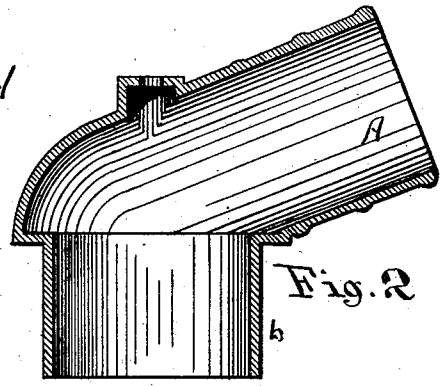

Fig. 2

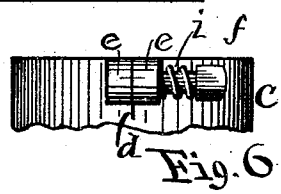

Fig. 6

WITNESSES:
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JOHN B. HABERLE, OF SOUTH BEND, INDIANA.

SPRINKLER.

SPECIFICATION forming part of Letters Patent No. 512,292, dated January 9, 1894.

Application filed July 14, 1893. Serial No. 480,514. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. HABERLE, of South Bend, in the county of St. Joseph and State of Indiana, have invented new and useful Improvements in Sprinklers; and I do hereby declare that the following is a full and accurate description of the same, reference being had to the accompanying drawings, wherein—

Figure 1 is a side elevation of my sprinkler complete. Figs. 2, 3, 4, and 5 represent the parts separated—two of them in section. Fig. 6 represents the elastic clamping device.

This device has for its object the construction of a sprinkler head with the fewest possible number of parts without sacrifice of efficiency.

A. is the hollow sprinkler head adapted at one end, to receive the conducting hose through which water is received from the tank or reservoir. The discharge end of the head A. is an open end cylinder *b.* and a cylindrical cap C is fitted and adapted to slide snugly over the exterior surface of *b.* so as to close the open end of the same. The upper edge of the cap C. is divided a short distance by a vertical slit *d*, and on each side of said slit is a lug *e*, provided with a clamping screw *f*, whereby the upper edge of said cap may be caused to contract upon the cylinder *b*, not only to maintain said cap in position, but also to close the joint between the cap and cylinder, at the upper end of said cap to prevent the escape of water thereat.

Near the closed bottom of the cap C there is a transverse slit *g*, and when said cap is partly off said cylinder *b*, said slit will be more or less exposed below the edge of *b*, and will then serve as a jet opening for the issuing water. The thickness of said jet will be determined by the position of the opening *g*, as to the edge of the cylinder *b*. When the cap C. is fully on said cylinder, the edge of the same will have passed beyond said opening *g*, and closed the same against the passage of water. Whereas, when said cap is partly withdrawn, said opening *g.* may be partly or wholly exposed. The cap C is also rotatable on the cylindrical part *b*, so as to direct the issuing jet toward either hand as may be desired.

For the purpose of easy and accurate adjustment of the cap C, a screw rod H. is seated in the upper part of the head A. and projects above the same with a terminal square for the application of a crank or wrench. The lower end of said rod H is provided with a screw thread and penetrates through a correspondingly threaded hole in the bottom of the cap C. By rotating said rod H. the cap C. may be caused to travel up or down on the cylinder *b.* to control the thickness of the issue jet, and by the same means may be retained in the position desired. The pressure of the clamp screw *f* may be rendered elastic by means of a spring *i* around the clamp screw, and thereby avoid the necessity of releasing the pressure of said clamp screw *f.* whenever the position of the cap requires changing by means of the rod H. The lower edge of the opening *g.* is oblique to the axis of the cap, in order to impart to the issuing water an upward deflection, not only to cause the sheet to be spread with uniformity, but also to cause it to be projected to a greater distance. This is shown in dotted lines in Fig. 1.

Having described my invention, I claim—

1. A sprinkler head, provided with an open end cylindrical portion *b*, combined with a cap C, adapted to fit snugly the exterior surface of *b.* said cap being provided with a jet orifice or slit *g*, and an adjusting screw, whereby said cap may be moved to, and held in, position to regulate the thickness of the issuing jet as set forth.

2. A sprinkler head, provided with an open end cylindrical portion *b.* combined with a cap C, adapted to fit snugly the exterior surface of *b.* said cap being provided with a clamping device and a jet orifice or slit *g*, and an adjusting screw whereby said cap may be moved to, and held in, any desired position to regulate the thickness of the issue jet as set forth.

3. A sprinkler head provided with an open end cylindrical portion *b.* combined with a cap C. provided with a jet orifice or slit *g*, and adapted to be adjusted longitudinally and rotatively upon said cylindrical portion *b.* and means for holding said cap in the po-

sition desired, whereby the thickness and direction of the issuing water may be controlled as set forth.

4. The sprinkler cap C, provided with a jet orifice or slit *g*, a slit *d*, a clamping screw *f* and a tension spring *i* on the same combined with the open end cylindric portion *b*. of the head A. and the adjusting screw H as set forth.

JOHN B. HABERLE.

Witnesses:
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L. A. MILLS.