

B. F. FORD.
 AUTOMATIC SPRINKLING DEVICE.
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1,002,381.

Patented Sept. 5, 1911.

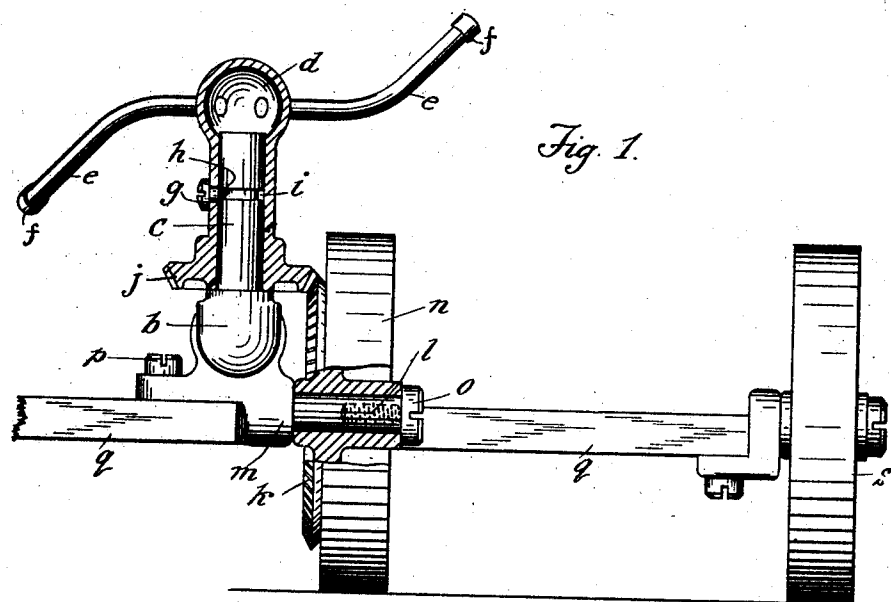


Fig. 1.

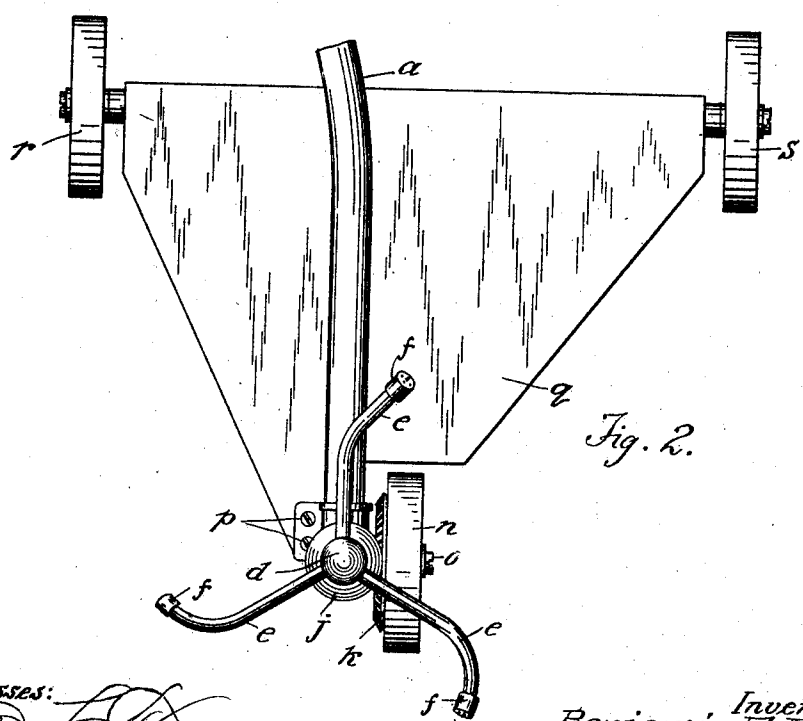


Fig. 2.

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UNITED STATES PATENT OFFICE.

BENJAMIN F. FORD, OF PORTLAND, OREGON.

AUTOMATIC SPRINKLING DEVICE.

1,002,381.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BENJAMIN F. FORD, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Automatic Sprinkling Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in automatic movable sprinklers and comprises a simple and efficient device of this nature, consisting of a sprinkler head having gear connection with the driving frame of the apparatus.

The invention comprises various details of construction and combinations and arrangements of parts which will be herein-after fully described and then specifically defined in the appended claim.

My invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a vertical sectional view through a part of the sprinkler apparatus and illustrating a rear elevation of the truck carrying the same, and Fig. 2 is a top plan view of the apparatus.

Reference now being had to the details of the drawings by letter, *q* designates the platform having axes upon which the wheels *r* and *s* are mounted. Fixed to the platform by means of screws *p* is a casting *m* having an angular shouldered portion adapted to engage over the edge of the platform and provided with an integral spindle upon which the wheel *n* is journaled, a screw *o* fitting in a threaded hole in the spindle to hold the wheel *n* in place. Said wheel has fixed upon the hub portion thereof a beveled gear wheel *k* which is in mesh with the

beveled wheel *j*, rotatably mounted upon the upright portion *C* of the pipe *b*, which latter is held upon the casting *m* and communicates with the pipe *a*. Said upright portion of the pipe *b* has an annular groove *i* for the reception of the end of the screw *g*, which latter is mounted in the hole in a shell which is integral with the gear wheel *j*. Said shell has a chambered portion *d* at its upper end which communicates with the pipes *e*, terminating respectively at their outer ends in sprinkler heads *f*.

The operation of my invention is as follows:—When the water is turned on and passes through the sprinkler head, a rotary movement will be imparted to the shell and, through the gear connections, drive the truck forward as the water is sprinkled from the head. The rate at which the truck will be propelled by the rotation of the shell will depend upon the pressure of the water and the amount of hose to be drawn by the truck.

What I claim to be new is:—

A sprinkling apparatus comprising a truck with support wheels journaled thereon, a casting fitted over a portion of the truck and having an integral spindle projecting therefrom, a driving wheel with a beveled gear wheel rotating therewith, a pipe held in said casting and having an upright portion which is circumferentially grooved, a beveled gear wheel journaled upon said pipe and in mesh with the gear wheel rotating with the driving wheel and provided with a hollow shell which terminates at its upper end in a chamber, nozzle pipes leading from said chamber, a screw mounted in an aperture in the shell and its inner end engaging in said annular groove.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

BENJAMIN F. FORD.

Witnesses:

VIOLA SANFORD,
CHAS. H. BARRETT.