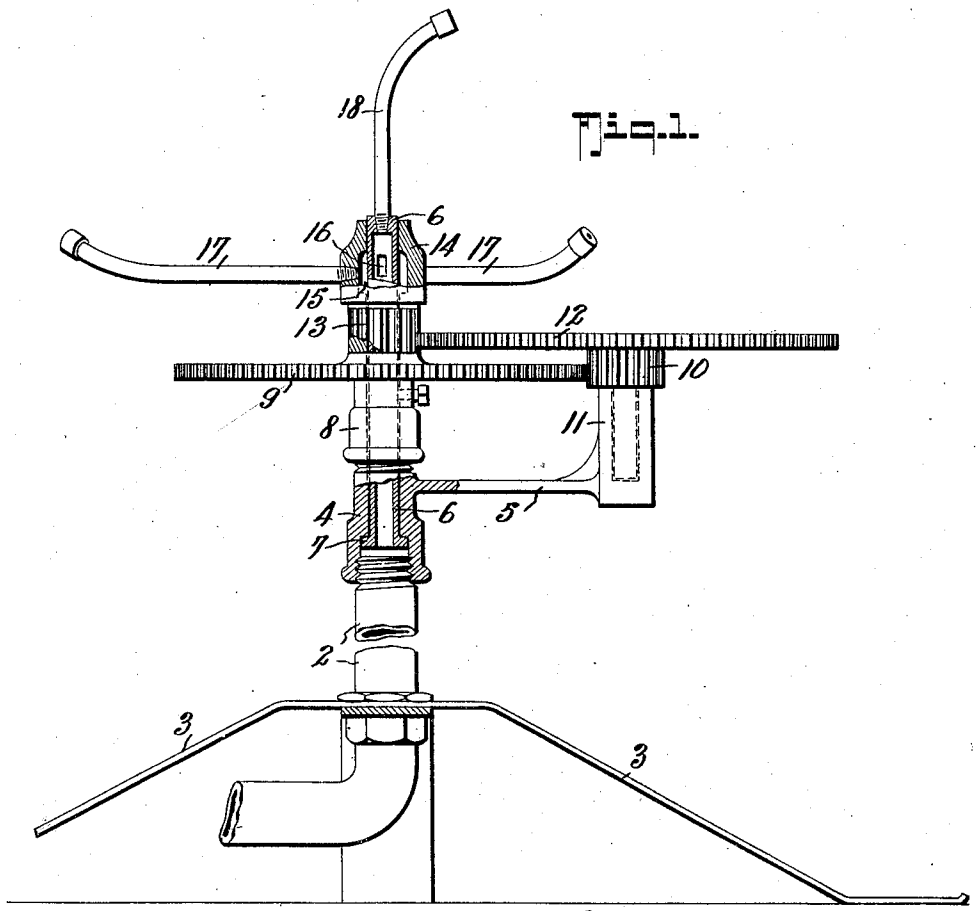
March 9, 1926. 1,575,952

W. C. TODD ET AL

WATER SPRINKLER

Filed Feb. 3, 1923

Fig. 1.



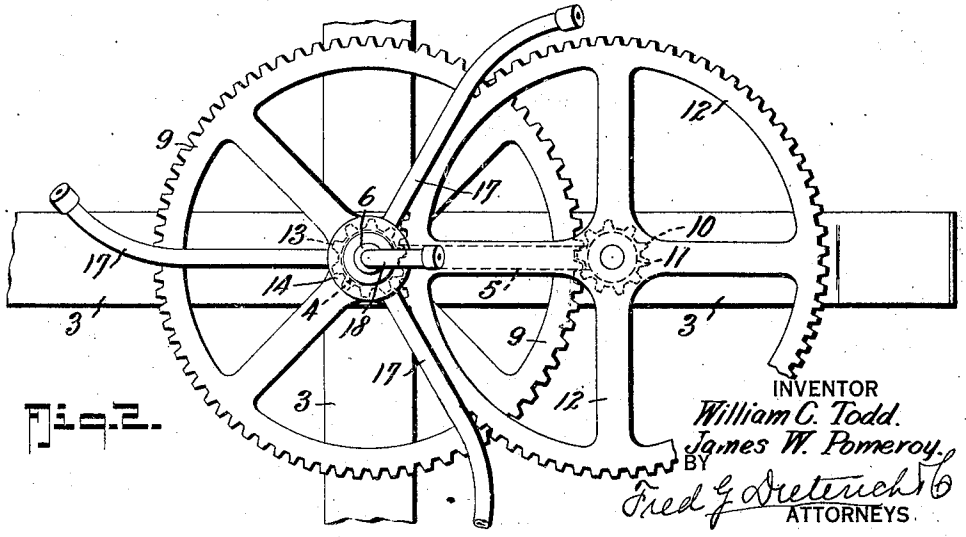


Fig. 2.

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Patented Mar. 9, 1926. 1,575,952

UNITED STATES PATENT OFFICE.

WILLIAM CHARLES TODD AND JAMES WILLIAM POMEROY, OF VICTORIA, BRITISH COLUMBIA, CANADA.

WATER SPRINKLER.

Application filed February 3, 1923. Serial No. 616,670.

To all whom it may concern:

Be it known that we, WILLIAM C. TODD and JAMES W. POMEROY, citizens of the Dominion of Canada, residing at Victoria, in the Province of British Columbia, Canada, have invented certain new and useful Improvements in Water Sprinklers, of which the following is a specification.

This invention relates to a water sprinkler of that class wherein the sprinkler head is rotated by the reaction of jets escaping from it, and the improvements are directed to the means by which a supplementary jet is mounted to rotate about the same axis as the operative reaction sprinkler head, and is rotated by it at a slower speed of rotation, this supplementary jet being directed angularly outward from the axis of rotation to throw the water beyond the range of jets from the reaction head.

The invention is particularly described in the following specification, reference being made to the drawings by which it is accompanied, in which:

Fig. 1 is a side elevation and part section of the sprinkler complete.

Fig. 2 is a plan of the same.

In these drawings 2 represents an upright pipe secured to a base support 3 and serving as a standard for the sprinkler head. The lower end of this upright pipe 2 is connected to a service supply of water under pressure. On the upper end of the pipe 2 is secured a hollow head 4 having an arm 5 projecting horizontally from it for a purpose which will appear later.

A hollow stem 6 having a collar 7 is rotatably mounted in the head 4 to project through its upper end, with its collar 7 seating on a shoulder in its bearing in the head. A gland-packed nut 8 maintains the stem 6 water tight where it passes through its bearing in the head 4.

Above the gland nut 8 a gear wheel 9 is secured on the stem 6, the teeth of which wheel mesh with those of a pinion 10 secured on a stem 11 mounted to turn freely in a bearing formed in the end of the arm 5.

Secured on the same stem as the pinion 10 or integral with that pinion is a gear wheel 12, the teeth of which mesh with those of a pinion 13 secured to or integral with a sprinkler head 14 rotatably mounted on the hollow stem 6.

This sprinkler head 14 is chambered intermediate its ends as at 15 and the stem 6 is apertured at 16 opposite the chambering to admit water to the tubular reaction arms 17, which are secured to project radially from the head and may be slightly turned backward at their ends as is usual with such.

In the upper end of the hollow stem is secured to rotate with it a sprinkler pipe 18, the upper end of which is bent to one side and has a centrally apertured nozzle cap secured on it to deliver a jet or jets angularly outward beyond the range of the jets from the sprinkler head 14.

Having now particularly described our invention, we hereby declare that what we claim as new and desire to be protected in by Letters Patent, is:

A sprinkler, comprising the combination with a hollow head to which a water supply under pressure is delivered, a central tubular stem rotatably mounted in the head to project from its upper end and retained against endwise movement therein, said stem having a nozzle secured to its upper end to angularly project therefrom, a reaction sprinkler head rotatably mounted on the central stem and deriving its water supply therefrom, a pinion secured on the sprinkler head, a wheel rotatably mounted adjacent to said pinion, the teeth of which mesh with those of the pinion, a second pinion secured to rotate with the wheel, and a second wheel secured on the central stem the teeth of which wheel mesh with those of the second pinion, whereby the central stem is positively rotated from the reaction sprinkler head.

In testimony whereof we affix our signatures.

WILLIAM CHARLES TODD.
JAMES WILLIAM POMEROY.