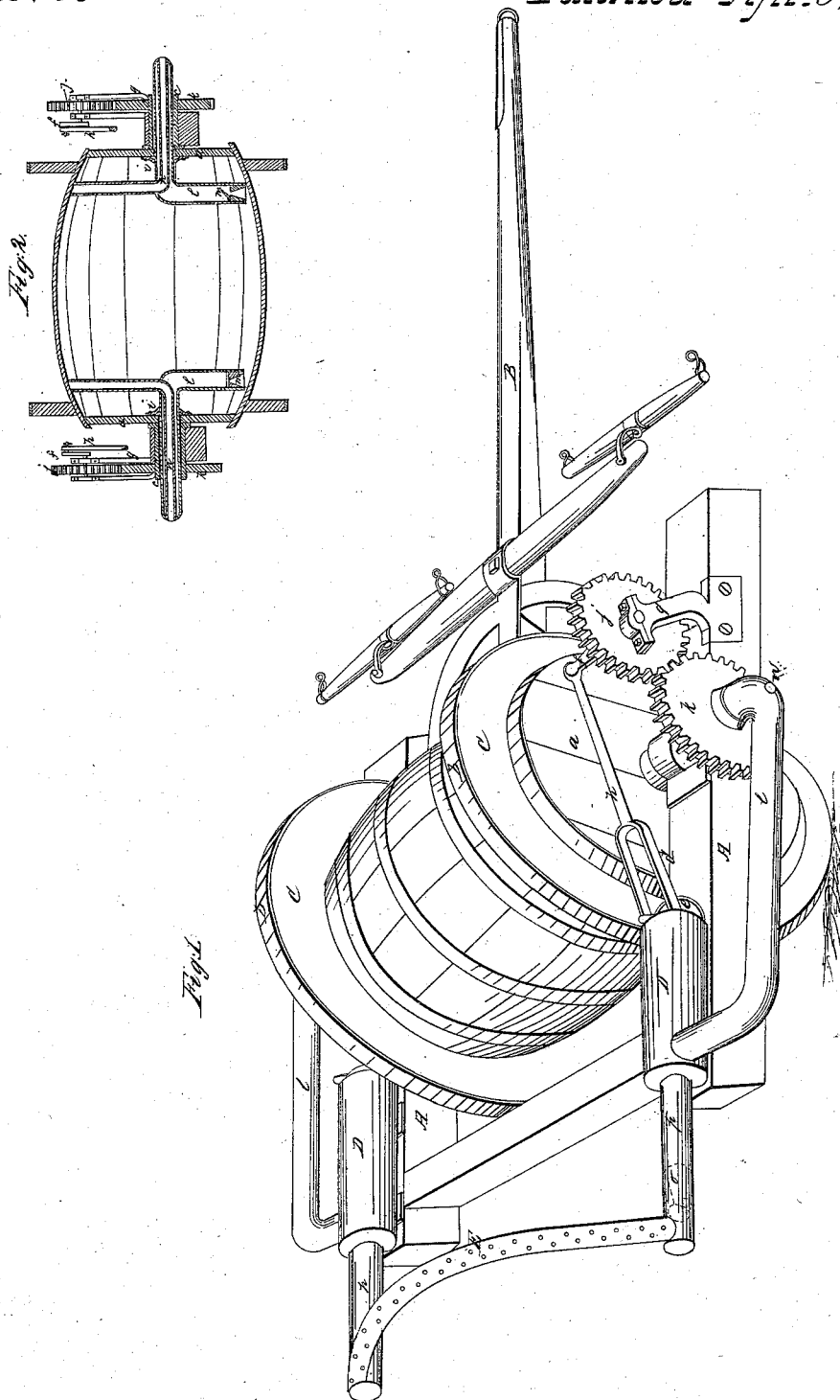


J. D. Price,

Water Sprinkler,

N^o 7,273.

Patented Apr. 9, 1850.



UNITED STATES PATENT OFFICE.

JOSEPH D. PRICE, OF SMITHSBURG, MARYLAND.

IMPROVEMENT IN APPARATUS FOR SPRINKLING STREETS, &c.

Specification forming part of Letters Patent No. 7,273, dated April 9, 1850.

To all whom it may concern:

Be it known that I, JOSEPH D. PRICE, of Smithsburg, in the county of Washington and State of Maryland, have invented certain new and useful Improvements in Machines for Sprinkling Streets with Water, and for other purposes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form part of this specification, and in which—

Figure 1 represents a view in perspective of my water-sprinkler, and Fig. 2 is a transverse section through the center of the water-vessel.

My machine consists of a revolving vessel by which the water is carried and from which it is drawn by force-pumps. The latter, being operated by the revolving vessel, expel the water in a shower through numerous perforations in a curved pipe at the hinder end of the machine, thus sprinkling a broad strip of ground as the machine is drawn forward.

In the drawings, A is a strong frame to which the other portions of the machine are attached, and which is furnished with a pole B, or with shafts to which the team is hitched. The water-vessel is most conveniently built—like a cask for holding liquids—of staves suitably hooped upon two heads *a a*. It is encircled at each extremity by felloes C C and tires *b b*, which thus form the wheels upon which the machine runs. Each head is fitted with a hollow gudgeon *c*, which is received in a box secured to the adjoining side bar of the frame. Two single-acting force-pumps D D are mounted upon the hinder part of the frame. The piston-rod *d* of each pump is passed through an eye in a bail *e*, secured to an open end of its pump-barrel. The pump-pistons are each put in motion by a crank *f*, secured to a shaft supported by a forked standard *g* on the frame of the machine. Each piston is connected with its respective crank-pin by a connecting-rod *h*, which is forked to embrace the piston-rod and bail. The crank-shaft has a cog-wheel *j* mounted upon it, which gears into a cog-wheel *k*, mounted upon the projecting extremity of the hollow gudgeon. The barrel of each force-pump is connected with the interior of the water-vessel by a suction-pipe *l*, which, passing through the hollow gudgeon, is bent downward, so as to draw the water

from the lower part of the vessel. The vacant space which intervenes between the suction-pipe and the hollow gudgeon is packed to prevent leakage, either by a collar of leather *i*, or by some other suitable means. The lower extremity of the suction-pipe is fitted with a valve *m* to prevent the reflux of water from the pump-barrel when the piston is forced inward, and each is furnished with an air-pipe *n*, which, passing through it into the water-vessel, is bent upward to prevent the water from escaping through it when the vessel is full. A discharge-pipe P is fitted to the hinder end of each pump-barrel. These are also furnished with valves *o*, which close as the piston is withdrawn in its barrel to prevent the return of water into it, and their hinder extremities are connected by a curved pipe E, which is pierced with numerous small holes.

The water-vessel is furnished with a bung-hole through which it can be filled. The hole is then closed, the connecting-rods are disengaged from their crank-pins, and the machine is drawn to the place where the water is to be sprinkled. The connecting-rods are then put in gear, and as the machine is drawn forward the pump-pistons, being driven by the revolving vessel, eject the water forcibly through the perforations in the curved pipe to a considerable distance on each side of the machine.

This machine from the simplicity of its parts and its efficiency is particularly applicable to the watering of the streets of cities, and as the water, which constitutes the great weight of the machine, is rolled forward in the revolving vessel but comparatively little power is required to perform the work.

Having thus described my water-sprinkler, what I claim therein as new, and desire to secure by Letters Patent, is—

The combination of the sprinkling-pipe and force-pumps with the revolving water-vessel, the several parts being arranged and operating substantially as herein set forth.

In testimony whereof I have hereunto signed my name this 13th day of November, aforesaid.

JOSEPH D. PRICE.

Witnesses:

P. H. WATSON,
E. S. RENWICK.