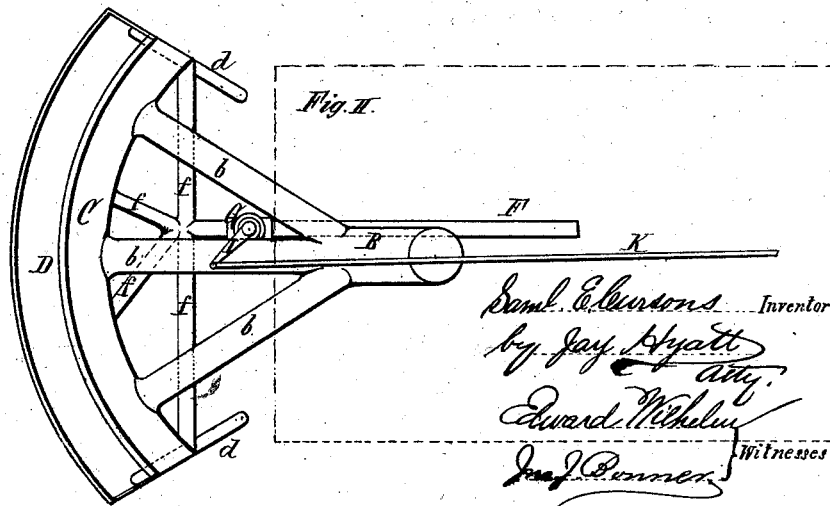
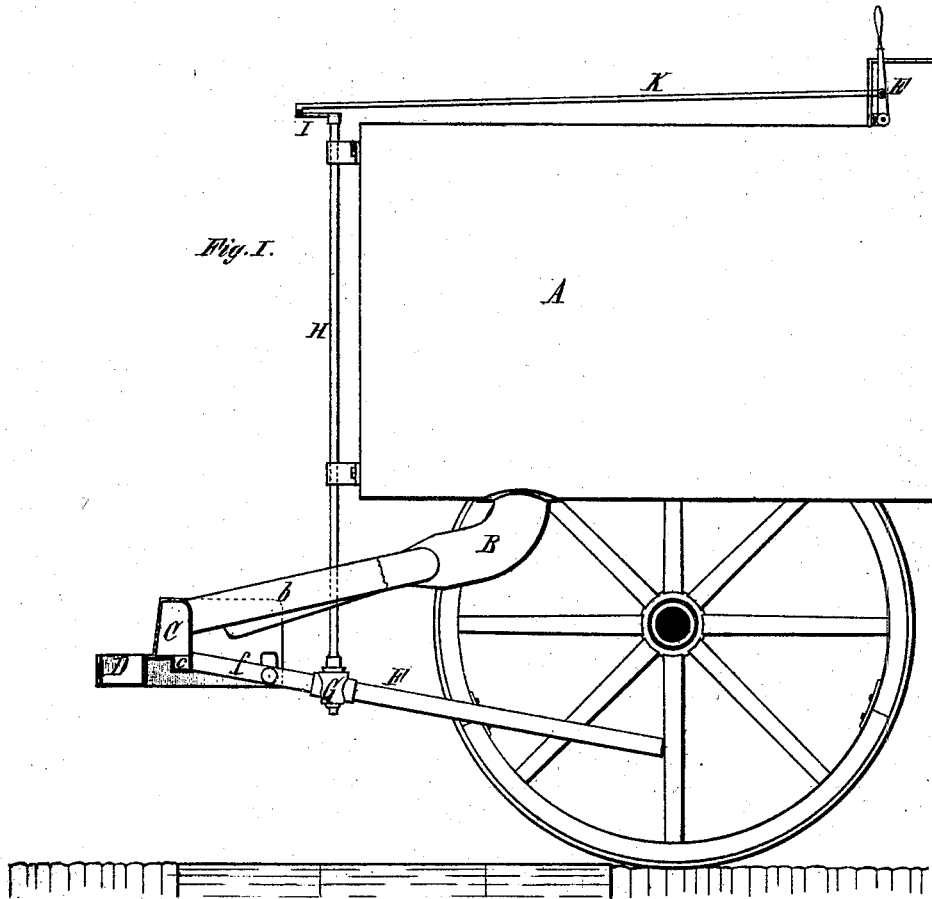


*S. E. Cursons,*

*Street Shrinker.*

*No. 113404.*

*Patented Apr. 4. 1871.*



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# United States Patent Office.

SAMUEL E. CURSONS, OF BUFFALO, NEW YORK.

Letters Patent No. 113,404, dated April 4, 1871.

## IMPROVEMENT IN STREET-SPRINKLING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

I, SAMUEL E. CURSONS, of the city of Buffalo, in the county of Erie and State of New York, have invented certain Improvements in Street-Sprinkling Machines, of which the following is a specification.

The object of this invention is to prevent the wetting of cross-walks as the machine passes over them. Heretofore the water contained in the perforated discharge-pipe and the pipes leading thereto from the tank would continue to discharge through the perforations after the valve was closed, and thus wet the cross-walks. My invention is designed to remedy this defect.

The invention consists—

First, in the combination and arrangement, with the perforated discharge-pipe of a street-sprinkling machine, of a waste-pipe provided with a stop-cock leading from the discharge-pipe forward, so as to conduct and discharge the water contained in the pipes after the tank-valve is closed across and forward of the cross-walk.

Second, in the combination, with the cock of the waste-pipe and the lever which actuates the main valve in the tank; of connecting-rods arranged in such a manner that the waste-cock will be opened by the same movement of the lever that closes the main valve, and *vice versa*.

In the accompanying drawing—

Figure I is an elevation of the rear end of a street-sprinkling machine.

Figure II is a plan view thereof.

Like letters designate like parts in each of the figures.

A is the tank.

B, the discharge-pipe.

*b*, the branches thereof leading to the perforated sprinkling-pipe C.

D is the exterior trough attached to the latter, and provided with discharge-pipes *d d*.

E is the hand-lever actuating the discharge-valve located in the tank.

All of these parts are old and well known.

F is the waste-pipe, connected to the perforated pipe C, and preferably provided with branches *f*. It runs forwardly under the tank, and is of such length that when the perforated sprinkling-pipe is near one side of a cross-walk the nozzle of the waste-pipe will project beyond the other side of the same in front.

G is a stop-cock arranged in the waste-pipe.

It is operated by means of a spindle, H, arm I, and connecting-rod K attached to the lever E actuating the discharge-valve of the machine.

These parts are so arranged that when the main valve is closed the waste-cock G is opened, and *vice versa*.

The perforated sprinkling-pipe is preferably constructed with an internal depressed portion or trough, *c*, to which the branches of the waste-pipe are connected.

The operation of my improvements is as follows:

The machine being about to move over a cross-walk, the main discharge-valve is shut by the operator and the waste-cock opened at the same time. The water contained in the perforated pipe and branches leading thereto, finding an outlet through the waste-pipe, ceases to discharge through the perforations of the sprinkling-pipe, and is carried by the waste-pipe over the cross-walk and discharged beyond the same, thereby enabling the latter to be kept dry.

I claim as my invention—

1. The combination and arrangement, with the perforated discharge-pipe of a street-sprinkling machine, of the waste-pipe F provided with a cock, G, substantially as and for the purpose described.

2. The combination, with the hand-lever E and cock G of the waste-pipe, of the spindle H, arm I, and connecting-rod K, substantially as and for the purpose heretofore set forth.

SAML. E. CURSONS.

Witnesses:

EDWARD WILHELM,  
JNO. J. BONNER.