

(No Model.)

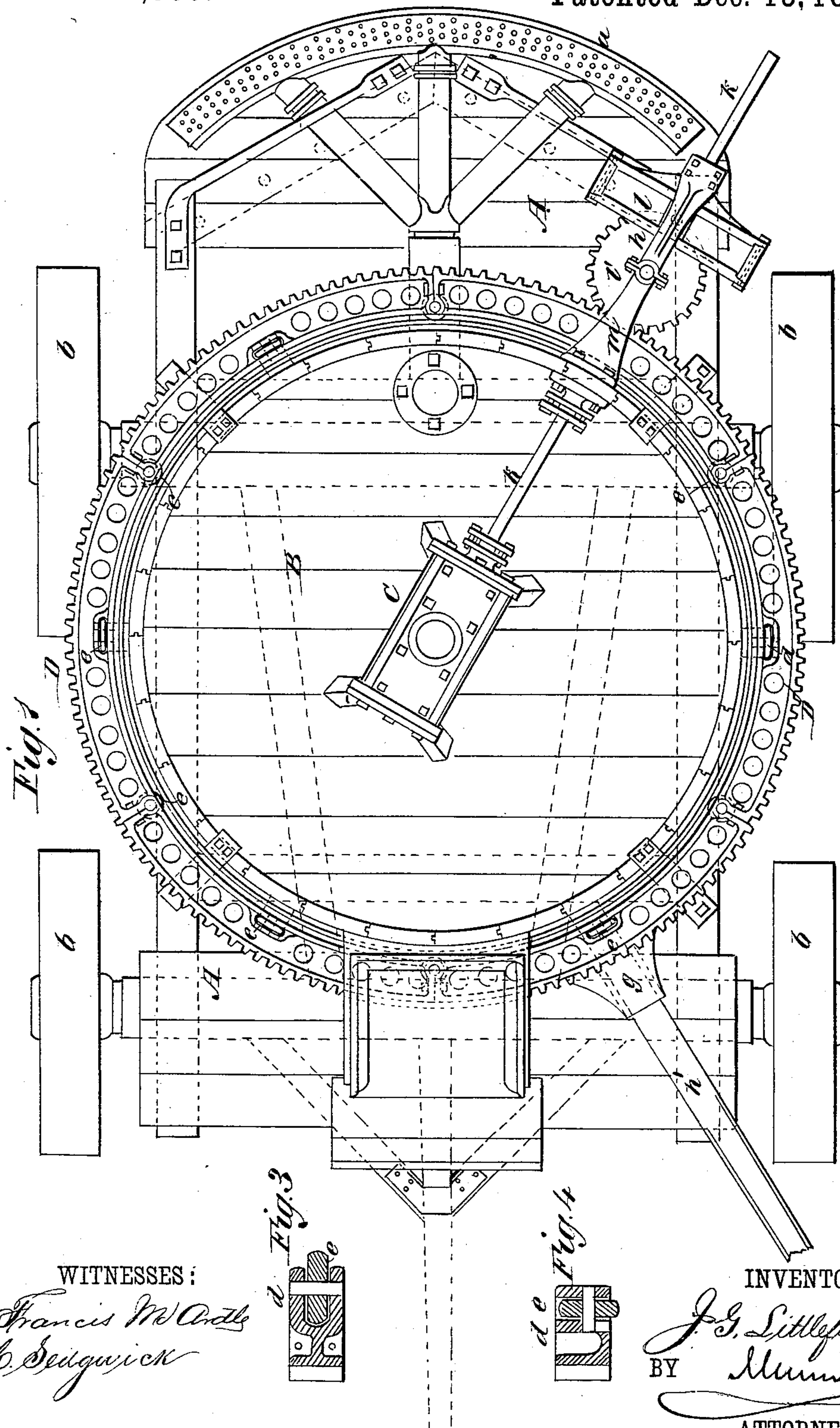
2 Sheets—Sheet 1.

J. G. LITTLEFIELD.

WATER CART.

No. 250,930.

Patented Dec. 13, 1881.



WITNESSES:

Francis M. Cottle
C. Sedgwick



INVENTOR:

J. G. Littlefield
BY *Mum & Co*
ATTORNEYS.

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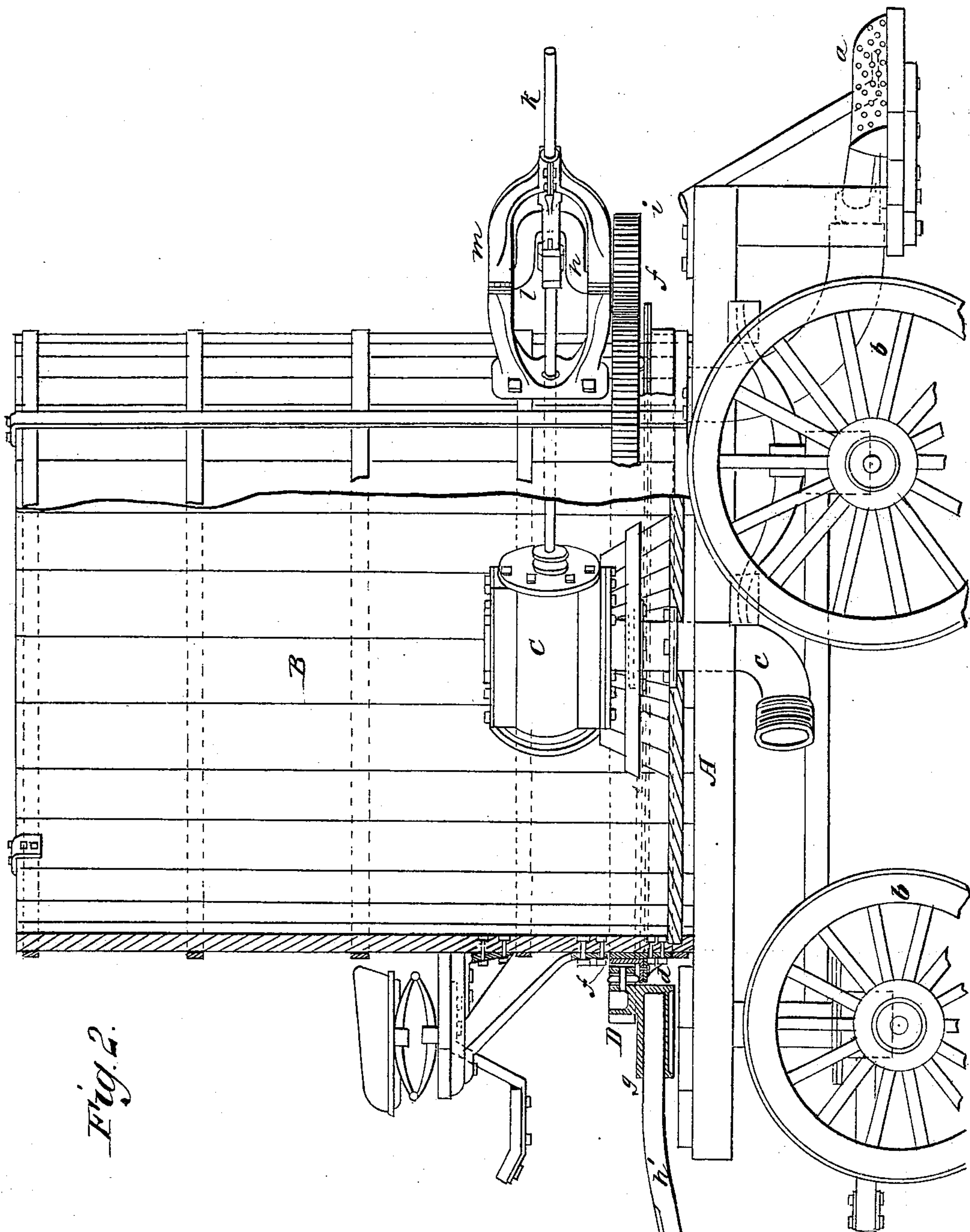


Fig. 2.

WITNESSES:

Francis McArdle,
C. Sedgwick

INVENTOR:

J. G. Littlefield
BY *Mum & Co.*
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UNITED STATES PATENT OFFICE.

JOHN G. LITTLEFIELD, OF MILTON, MASSACHUSETTS.

WATER-CART.

SPECIFICATION forming part of Letters Patent No. 250,930, dated December 13, 1881.

Application filed August 29, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN G. LITTLEFIELD, of Milton, in the county of Norfolk and State of Massachusetts, have invented a new and Improved Water-Cart, of which the following is a specification.

The object of my invention is to provide for filling the tanks of water-carts, especially street-watering carts, rapidly and conveniently in situations where water under pressure is not to be had; and, further, to utilize the cart-horses for that purpose.

The invention consists of a novel construction and arrangement of parts, as hereinafter fully described.

Reference is to be had to the drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of my improved water-cart. Fig. 2 is a sectional side elevation of the same. Figs. 3 and 4 are detail sections, showing the friction-rollers.

The truck A, supported on wheels *b* and provided with sprinkler *a*, is of ordinary construction.

B is the water-tank, supported on the truck.

C is the pump, provided with a suction-pipe, *c*, which has a coupling at the end for connection of hose-pipe.

The pump may be of any suitable construction, and is shown fixed within the tank with the suction-pipe passing through the bottom. This position saves space and protects the pump, but it may be placed on the truck outside the tank.

Upon the outside of the tank B, near the bottom, a flanged or L-shaped ring, *f*, is secured firmly by bolts for support of the cogged wheel or ring D.

At intervals in ring D are recesses *d*, in which are friction-rollers *e*. These rollers are placed alternately horizontally and vertically to bear on the ring *f* and its flange, so that they support and retain the cogged ring D in position. The ring is provided with a socket-piece, *g*, for receiving a sweep, *h*.

The tongue of the cart will generally be removed from its fastenings and placed in the socket for use as a sweep.

Upon the rear side of the tank is secured a hanger, *m*, in which is fitted a crank, *h*, having at its lower end a pinion, *i*, that meshes with ring D.

The piston-rod *k* of the pump extends through the side of the tank, and on its outer end is fixed a yoke, *l*, that engages the crank. This connection is preferable on account of its compactness, but any suitable connection may be used.

In operation, to fill the tank the suction-pipe of the pump is connected with a hose or pipe from the water-supply. A horse or team is connected to the sweep. The ring D is put in motion by the travel of the horse around the tank and cart, and the pump being thus operated, the tank is filled by the discharge of the water therein. After the tank is filled the sweep is to be removed.

I do not limit myself to the invention applied to a sprinkling-cart, as it may be used with any water-cart, and also with stationary water-tanks.

The friction-rollers, instead of being on the ring, may be hung on brackets secured to the tank.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the tank B, the crank *h*, the pinion *i*, and the piston-rod *k* of the pump, of the flanged ring *f*, secured to the said tank, and the master-wheel D, supported upon said ring and provided with the socket *g*, substantially as and for the purpose set forth.

2. The combination, with the tank B, provided with the flanged ring *f* and hanger *m*, the pump C, and the piston-rod *k*, of the crank *h*, pinion *i*, and master-wheel D, provided with socket *g*, and supported upon the said flange-ring, substantially as and for the purpose set forth.

3. The cogged ring D, provided with socket *g* and rollers *e*, in combination with the tank B, having flanged plate *f*, and a pump connected to the ring for operation thereby, substantially as shown and described.

JOHN GANNETT LITTLEFIELD.

Witnesses:

BENJAMIN LINDSEY KNAPP,
JOHN LITTLEFIELD.