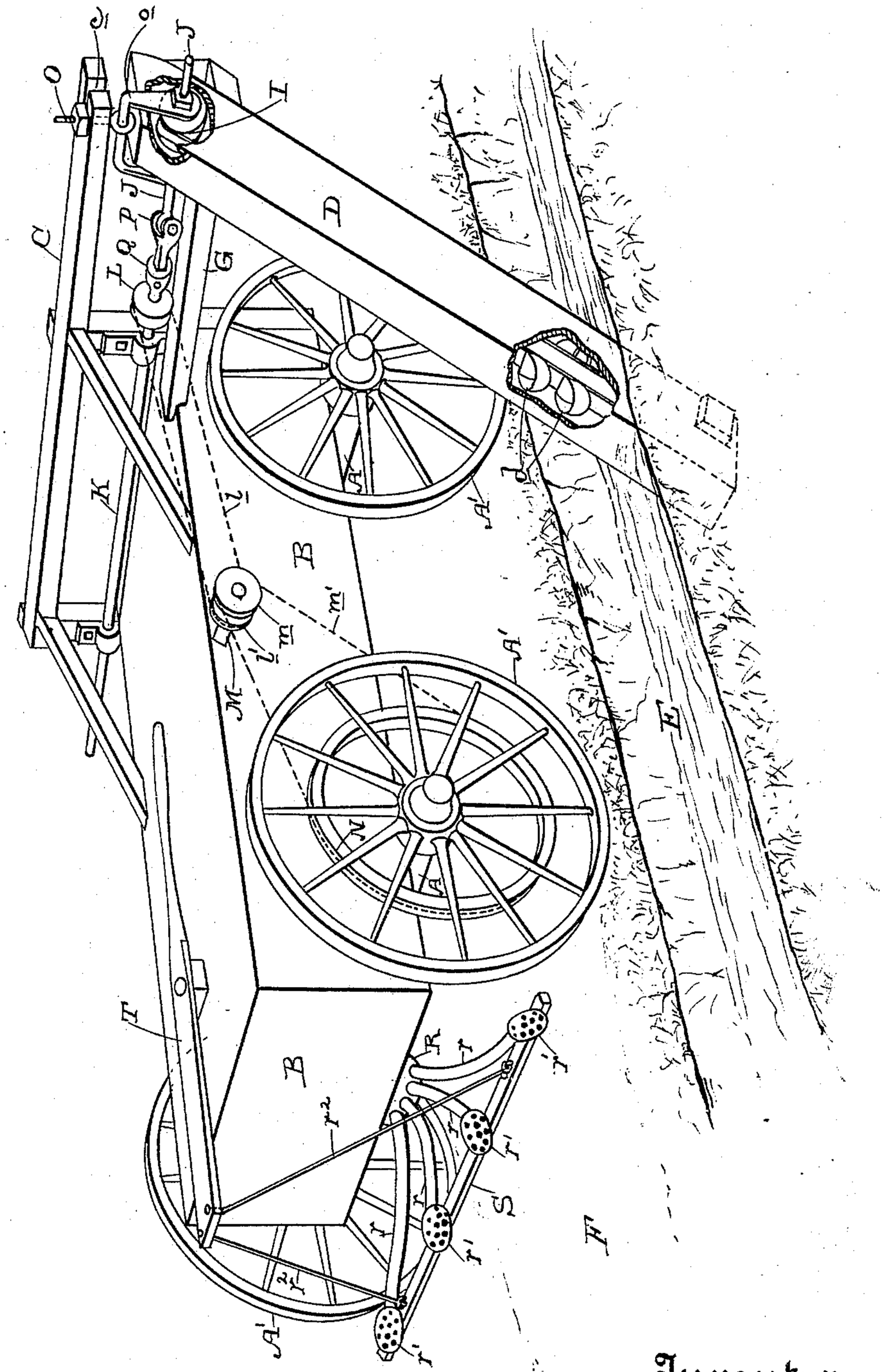
(No Model.)

# H. E. FAIRMAN.

## WATERING CART.

No. 495,792. Patented Apr. 18, 1893.

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# UNITED STATES PATENT OFFICE.

HARRY E. FAIRMAN, OF BAKERSFIELD, CALIFORNIA.

## WATERING-CART.

SPECIFICATION forming part of Letters Patent No. 495,792, dated April 18, 1893.

Application filed May 20, 1892. Serial No. 433,760. (No model.)

*To all whom it may concern:*

Be it known that I, HARRY E. FAIRMAN, a citizen of the United States, residing at Bakersfield, Kern county, State of California, have invented an Improvement in Watering-Carts; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to the general class of watering carts, especially adapted for the sprinkling of country roads.

My invention consists essentially in the combination of a traveling wheeled structure, a pump carried thereby and having its suction in communication with an extraneous, continuous body of water, such as in a ditch alongside of the road, discharges from said pump to deliver the water upon the road, and power transmitting connections between the wheeled structure and the pump whereby the latter is operated by power derived from the traction of the former.

It also consists in various details of arrangement and construction which I shall hereinafter fully describe and specifically point out in the claims.

The object of my invention is to provide a watering-cart adapted to travel along a road beside a ditch, and having means connected with it for taking the water from said ditch and discharging it upon the road.

Referring to the accompanying drawing for a more complete explanation of my invention,—the figure is a perspective view of my invention.

A represents the axles, and A′ the wheels of a traveling structure. The frame-work of this structure may be of any suitable character adapted to carry a pumping apparatus, the discharge therefrom, and the power transmitting connections from its wheels to operate said apparatus. In the present case I have shown supported upon this structure a tank B acting as a reservoir for water. At the forward end of this tank is a cross-beam C, to the end of which is connected a pumping apparatus of any suitable character, here shown as a common water elevator, of which D is the casing and *d* the endless series of buckets. The lower end of the casing D enters a ditch E alongside of the road F on which the device travels, and the buckets *d* are adapted to pass down into the ditch, and to raise the water up therefrom and deliver it to a spout G which communicates with the tank B.

The buckets of the pumping apparatus are operated by means of a top drum I on a shaft J, said shaft being connected with a main shaft K carrying a chain wheel L from which a chain *l* extends rearwardly to a chain wheel *l′* on a shaft M which carries a second chain wheel *m* from which a chain *m′* extends downwardly to a main chain wheel N on one of the wheels of the machine. These devices represent any suitable form of transmitting connections to operate the pump by power derived from the travel of the wheeled structure.

In order to allow for the variations from a straight line in the travel of the wheeled structure, or in the course of the ditch, the pumping apparatus is suspended by suitable flexible connections which allow it to remain in the ditch notwithstanding these variations. In the present case I have shown the casing of the pump as suspended from the cross-beam C by means of an eye-bolt O, slipped into a slot *c* in the beam end, and a bail *o* embracing and pivoted to the top of the casing, and connected with the eye-bolt. This will permit the pump casing to move in and out, or up and down as may be required. To provide for this movement in the power transmitting connections, I make a universal joint at P, in the shaft J, and I connect said shaft with the main shaft K by a square socket or hub Q.

Issuing from the rear end of the tank B is the discharge pipe R, to which are attached a number of flexible pipes *r* having discharge nozzles or sprinklers *r′* and all connected together by a brace rod $r^2$. These discharge pipes are all supported by a frame-work or rods S from the end of a swinging lever T mounted upon the top of the tank.

The operation of the device is as follows: In moving along beside the ditch, the lower end of the pumping apparatus travels in the water of the ditch. The movement of the wheeled structure transmits the traction power of its

wheels, through the connections described, to operate the pump, and the water from the ditch is thereby raised and delivered into the tank from which it issues through the discharge devices. As the vehicle must travel near the side of the ditch, it is necessary in order to sprinkle the center of the road to throw the discharge pipes *r* as far as possible toward the middle of the road. This is done by the swinging lever T. Now, when the watering-cart is to be turned around to return over its course, the pump is slipped off the end of the cross-beam C, the shaft J being released from the square socketed hub Q, and said pump and shaft are transferred to the other side where the former is suspended from the other end of the cross-beam, and its shaft is connected with the other end of the main shaft K in the same manner. It is obvious that the water thus raised by the pump may, in many cases, be delivered upon the road directly instead of passing through the tank; but the advantage of the tank is that it acts as a reservoir to carry enough water for portions of the road which separate from the ditch, so that in making detours, it is still possible to have water to sprinkle such portions of the road.

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

1. A watering-cart consisting of the combination of a traveling wheeled structure, a pump carried thereby and having its inlet arranged to remain in communication with an extraneous body of water, discharges carried by the wheeled structure to receive and deliver the water raised by the pump and power devices operated by the travel of the structure to operate the pump, substantially as herein described.

2. A watering-cart consisting of the combination of a traveling wheeled structure, a pump carried thereby and having its inlet arranged to remain in constant communication with an extraneous body of water, discharges carried by the wheeled structure to receive and deliver the water raised by the pump, and transmitting connections from the traction wheel of the traveling structure to operate the pump, substantially as herein described.

3. In a watering-cart, the combination of a traveling wheeled structure, a tank mounted thereon, a pump carried by said structure and having its inlet arranged to remain in communication with extraneous body of water, a communication between said pump and tank, discharge pipes from the tank and power transmitting connections between the wheeled structure and the pump whereby the latter is operated, substantially as herein described.

4. In a watering-cart, the combination of a wheeled structure, a tank for water mounted thereon, a cross-beam at one end of said tank, a pumping apparatus suspended from the end of the cross-beam, and having its lower or inlet end arranged to remain in communication with an extraneous body of water, discharge pipes from the tank and power transmitting connections between the wheeled structure and the pump whereby the latter is operated, substantially as herein described.

5. In a watering cart, the wheeled tank having the cross-beam at one end, the casing with its lifting buckets and communicating with the tank, said casing having its lower end arranged to remain in communication with an extraneous body of water, the eye-bolt and bail freely suspending the casing from the end of the cross-beam, and the detachable shaft J forming part of power transmitting connections between the wheels and the buckets of the casing, substantially as herein described.

In witness whereof I have hereunto set my hand.

HARRY E. FAIRMAN.

Witnesses:
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