

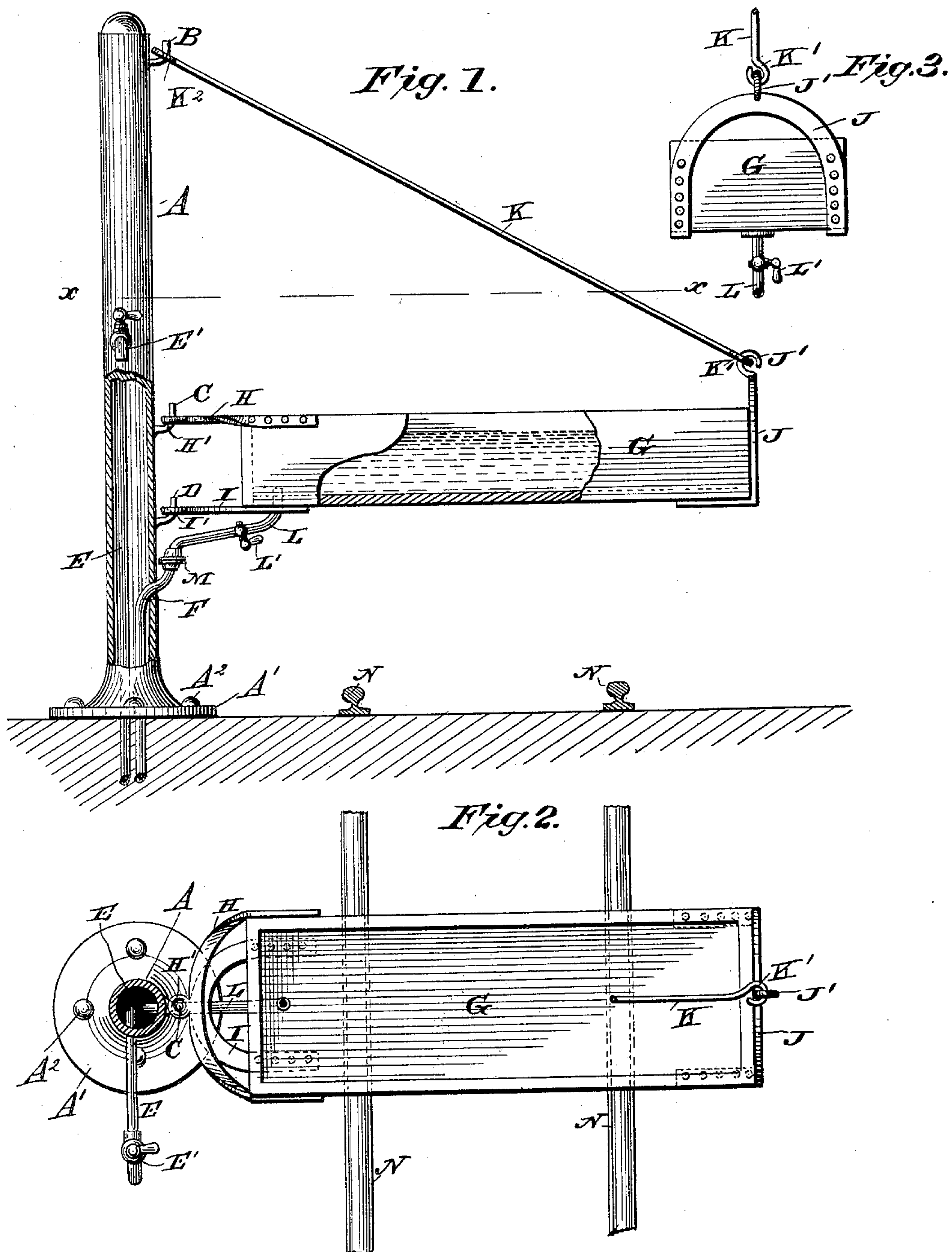
(No Model.)

G. W. LANGDON.

WATERING TROUGH.

No. 399,418.

Patented Mar. 12, 1889.



WITNESSES:  
*Phil. C. Dietrich*  
*C. Sedgwick*

INVENTOR:  
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# UNITED STATES PATENT OFFICE.

GEORGE WOODWARD LANGDON, OF CLINTON, MASSACHUSETTS.

## WATERING-TROUGH.

SPECIFICATION forming part of Letters Patent No. 399,418, dated March 12, 1889.

Application filed September 14, 1888. Serial No. 285,366. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE WOODWARD LANGDON, of Clinton, in the county of Worcester and State of Massachusetts, have invented  
5 a new and Improved Watering-Trough, of which the following is a full, clear, and exact description.

The object of my invention is to provide  
10 a swinging watering - trough particularly adapted for street-railways where horses are used; and it consists in the parts which will be hereinafter described, and pointed out in the claims.

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

Figure 1 represents a partially-sectional elevation of my invention with parts broken  
20 away. Fig. 2 is a section on the line  $x x$  of Fig. 1, and Fig. 3 is a detail of the outer end of the trough.

A is a hollow standard provided with three hinge-pins, B C D, in alignment, said standard  
25 being provided with a base, A', having suitable openings for the reception of bolts A<sup>2</sup>. A supply-pipe, E, leads up into the standard and extends through a side opening in said standard, the upper outer end of said pipe  
30 being provided with a cock, E'. F is a discharge-pipe, also inside of the standard, the upper end of said pipe extending outward through an opening in said standard. A trough, G, is provided on its inner end with the  
35 arms H and I. As shown, each of said arms is forked, the arm H being rigidly secured to the respective outer sides of the trough, the arm I being secured to the inner under side of the trough. The arm H is provided with  
40 an eye, H', for engaging the hinge-pin C, and the arm I is also provided with an eye, I', for engaging the hinge-pin D. The outer end of the trough is provided with a yoke-bar, J, rigidly secured thereto, the arms of said yoke  
45 extending slightly under the trough. Bolts or screws for securing the under part of said arm are shown in dotted lines, Fig. 2. The upper end of the yoke-bar J is provided with an eye, J', for engaging a hook, K', on the  
50 outer end of a brace-rod, K, the upper end of said rod being provided with an eye, K<sup>2</sup>, for engaging the hinge-pin B.

L is one section of the discharge - pipe, whose outer upper end is engaged in an opening in the under inner side of the trough, and  
55 extends into said trough slightly above the bottom thereof. The lower end of the pipe L is connected by swivel-joint M to the upper end of the pipe F, and L' is a cock for the pipe L. 60

N N represent a railway-track.

The operation is as follows: The pipe-joint M is on a line with the pins B C D, so as to permit the trough to be swung across the track and moved clear thereof at pleasure. 65 The trough may be filled with water by moving it under the cock E' on the supply-pipe E, and by opening the cock L' the water may be drawn off through the discharge-pipe.

By means of my trough a car-conductor can  
70 easily and quickly water his horses, the trough being placed across the track to water the horses, and swung to one side when they are through.

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

1. In a watering-trough, the combination, with a standard adapted to be arranged adjacent to a railroad-track, of a water-supply  
80 pipe projecting from the standard, and a trough hinged at one end to the said standard, substantially as described, whereby provision is made for swinging the trough under the supply-pipe for filling it, and then swing- 85 ing it across the track, as set forth.

2. In a watering-trough, the combination of a hollow standard, a water-supply pipe projecting through the standard, a trough hinged to the standard, and a discharge-pipe leading  
90 from the trough to the standard and provided with a swivel-joint, substantially as described.

3. In a watering-trough, the combination, with a standard provided with pivot-pins, of a trough provided at its inner end with arms  
95 having eyes to receive the two lowermost pivot-pins, a yoke secured to the outer end of the trough, and a brace-rod engaging the yoke and the uppermost pivot-pin, substantially as herein shown and described. 100

4. A watering-trough comprising a hollow standard, a water - supply pipe projecting through the standard and provided with a cock, a trough having its inner end hinged to

the standard, a brace-rod hinged to the outer end of the trough and to the standard, and a discharge - pipe leading from the trough through the standard and provided with a swivel-joint and a cock, substantially as herein shown and described.

5. In a watering - trough, a standard provided with a trough hinged thereto, a hinged brace - rod connecting said standard and trough, a supply-pipe for filling the trough, and a discharge-pipe provided with a swivel-joint, substantially as shown and described.

6. The combination, with a standard, of a watering - trough hinged thereto, a hinged brace-rod for said trough, and a discharge- 15 pipe provided with a swivel-joint, the hinge-points of said trough and brace-rod and the swivel-joint of said discharge-pipe being all in a vertical line, substantially as shown and described.

GEORGE WOODWARD LANGDON.

Witnesses:

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HARRY D. CARTER.