

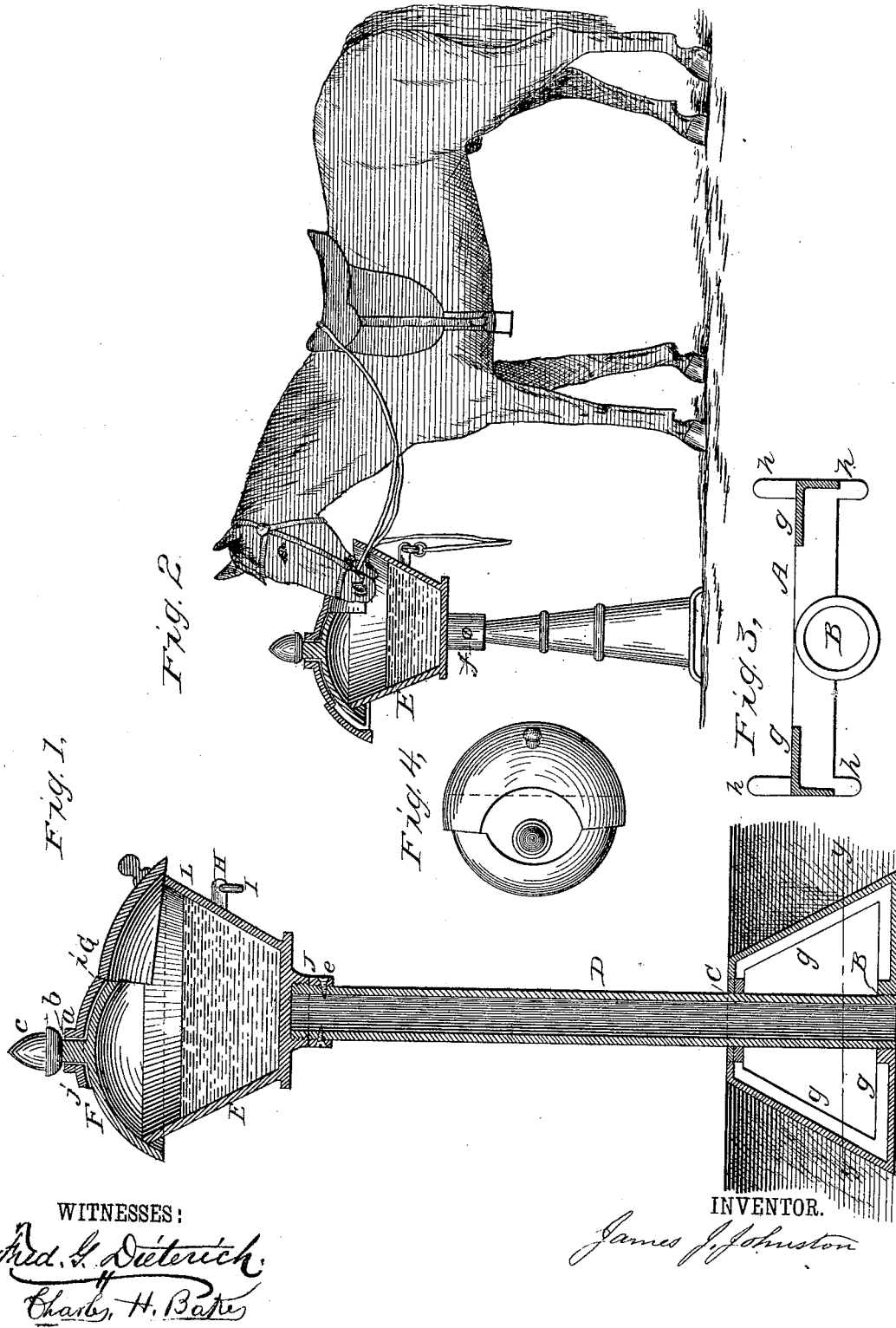
(No Model.)

J. J. JOHNSTON.

FEED TROUGH.

No. 266,836.

Patented Oct. 31, 1882.



# UNITED STATES PATENT OFFICE.

JAMES J. JOHNSTON, OF COLUMBIANA, OHIO, ASSIGNOR TO THE UNITED STATES IMPROVEMENT COMPANY, (LIMITED,) OF SAME PLACE.

## FEED-TROUGH.

SPECIFICATION forming part of Letters Patent No. 266,836, dated October 31, 1882.

Application filed February 23, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES J. JOHNSTON, of Columbiana, in the county of Columbiana and State of Ohio, have invented a certain new and useful Improvement in Feed and Water Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improvement in feed and water apparatus; and it consists of a vessel constructed of cast-iron and provided with a cap or lid made in two parts, one of which is permanently secured to the top of said vessel and the other part pivoted thereon, said vessel having a hitching-ring and adapted to be supported on the upper end of a hitching-post, as will hereinafter more fully and at large appear.

To enable others skilled in the art to which my invention is most nearly connected to make and use it, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of this specification, Figure 1 is a vertical section of my improvement in feed and water apparatus. Fig. 2 represents the feed and water apparatus when applied to an ordinary wooden hitching-post. Fig. 3 is a horizontal section of the base at line *yy* of Fig. 1. Fig. 4 is a top view of the feed and water apparatus.

Reference being had to the accompanying drawings, A represents the base for the hitching-post, said base having openings B and C for the reception of the post D, which, at the lower end, is provided with screw-threads, which fit screw-threads in the opening B of the base A. The lower limb of the base is provided with side projections, *h*, as shown in Fig. 3, for the purpose of bracing it or preventing it tilting sidewise, and is also furnished with an inward-projecting flange, *g*, for giving strength to said base. The post D is constructed of iron tubing—such as gas-pipe—and the lower and upper ends furnished with screw-threads. On the upper end of the post

D is secured a vessel, E, constructed of cast-iron, which is provided with a cap or lid made in two parts, F and G, the part F being permanently secured to the vessel E, and the part G pivoted at *a* on a projecting pin, *b*, on the part F, the upper end of which pin is furnished with screw-threads, upon which is screwed an ornament, *c*, for holding the pivoted part G to its place on the part F. The vessel E has a side projection, L, for increasing the opening of the vessel with the part G of the lid corresponding in form to the said projection L, as shown in Figs. 1 and 4. The part G has a pivot-bearing, which extends from the line *i* to the line *j*, which bearing relieves the pin *b* and the knuckle *a* from undue strain. On the side of the vessel is a projection, H, having a hitching-ring, I. On the bottom of the vessel is a downward-projecting flange, J, which is furnished with screw-threads for the purpose of securing it on the post D, as shown in Fig. 1. Said flange may be extended downward, as indicated by the dotted lines, and secured to the post by means of screws passing through said flange and into the post, as indicated in Figs. 1 and 2.

I have described the vessel E as being secured to an iron tubular post, D; but it may be secured to an ordinary wooden post, as shown in Fig. 2, in which case the bottom flange, J, should be elongated for the purpose of receiving wood-screws, as indicated at *e* and *f*.

In the country it is often desirable to feed the horse of a person visiting from a distance who does not wish his horse placed in the stable, or when there is no room in the stable. In such case the usual mode is to place the feed in a bucket, which the horse is liable to upset, and thereby waste the feed, and often injure or destroy the bucket. By having the hitching-post provided with a vessel, as hereinbefore described, the first case is provided for and the disadvantages attendant upon the latter case overcome. Farmers in the summer or warm weather frequently desire to feed their horses or milk cows in the barn-yard. In such case the advantage of having feeding and watering apparatus constructed as hereinbefore

described will be apparent without further description.

Having thus described my improvement, what I claim as new is—

- 5 In a feed and water apparatus, the combination of the vessel A, having a tubular projecting flange, J, pivoted lid G, post D, and

base A, all constructed, arranged, and operating substantially as herein described, and for the purpose set forth.

JAMES J. JOHNSTON.

Witnesses:

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