

(No Model.)

T. F. WOOD.

WATER SUPPLY APPARATUS FOR DRINKING FOUNTAINS.

No. 576,932.

Patented Feb. 9, 1897.

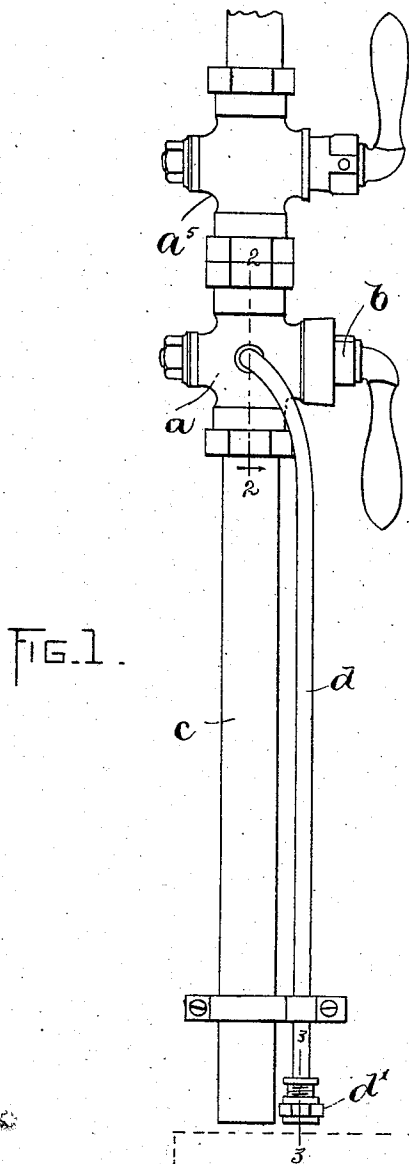


FIG. 1.

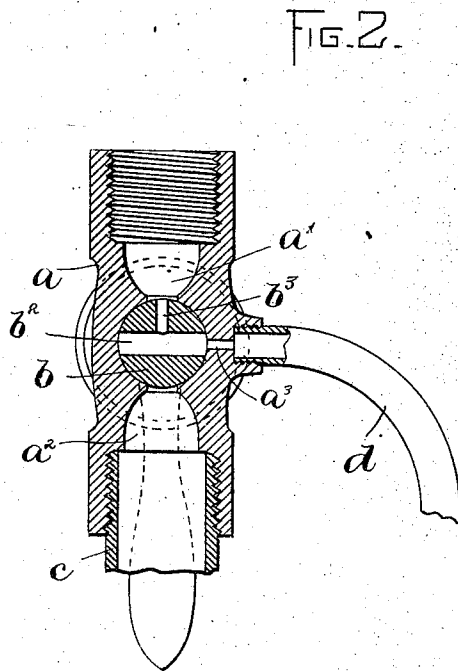


FIG. 2.

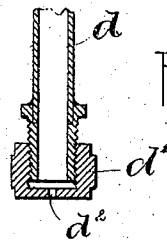


FIG. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

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WATER-SUPPLY APPARATUS FOR DRINKING-FOUNTAINS.

SPECIFICATION forming part of Letters Patent No. 576,932, dated February 9, 1897.

Application filed November 30, 1896. Serial No. 613,861. (No model.)

To all whom it may concern:

Be it known that I, THOMAS F. WOOD, of New Bedford, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Water-Supply Apparatus for Drinking-Troughs, of which the following is a specification.

This invention relates to apparatus for watering horses and other live stock, in which a cup or individual trough is provided for each animal, said cup being constructed to hold only a limited supply of water and provided with an outlet or overflow which limits the accumulation of water in the cup. In apparatus of this class it is desirable to have water constantly supplied to the cup in order that the animal may drink whenever disposed. It is also desirable, particularly in places where the water used passes through a meter, to provide means for supplying a constant but limited stream of water to each cup and to enable a more ample stream to be supplied occasionally when it is desired to flush or clean the cup.

My invention has for its object to provide a water-supply apparatus or fitting of simple and compact construction adapted to be adjusted to furnish a constant limited stream, thus insuring a sufficient constant supply of water for drinking purposes without undue waste of the same, and to be also adjusted to furnish a more ample stream for the purpose of flushing or cleaning the cup.

The invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a side elevation of a water-supply apparatus or fitting embodying my invention, the cup supplied by said apparatus being shown in dotted lines. Fig. 2 represents a section on line 2 2 of Fig. 1. Fig. 3 represents a section on line 3 3 of Fig. 1.

The same letters of reference indicate the same parts in all the figures.

In the drawings, *a* represents a valve-casing having an inlet *a'*, adapted for connection with a water-supply pipe, and two outlets *a²* and *a³*, the former extending through one end of the casing and being considerably

larger than the outlet *a³*, which extends through one side of the casing.

b represents a plug-valve, which is fitted to turn in the casing *a* and has two ways or passages *b²* *b³*. The passage *b²* is larger than the passage *b³*, and is arranged so that when the valve is turned to one position it will connect the inlet *a'* and the outlet *a²*, permitting a maximum flow of water through the casing. When the valve is turned to another position, one end of the passage *b²* coincides with the smaller outlet *a³*, the passage *b³* at the same time coinciding with the inlet *a'*, so that a limited stream of water passes from the inlet through the passages *b³*, *b²*, and *a³*, the outlet-passage *a²* being closed by the valve.

To the outlet *a²* is connected a vertical pipe *c* of sufficient capacity to accommodate the maximum stream which flows through the casing when the inlet *a'* and outlet *a²* are connected by the passage *b²*.

d represents a smaller pipe, which is connected with the outlet *a³* and extends downwardly beside the pipe *c*, the two pipes being arranged to discharge streams of water into a cup *f*. (Shown in dotted lines in Fig. 1.) Said cup is or may be provided with inlet and outlet orifices *f'* *f²*, which limit the accumulation of water in the cup.

When it is desired simply to provide an ordinary supply sufficient to meet the requirements of the animal without undue waste, the valve *b* is adjusted to permit water to flow through the outlet *a³* and smaller tube *d*, so that a small constant stream is delivered. This stream may be further contracted by means of a cap *d'*, screwed upon the lower end of the tube *d* and having an outlet-orifice *d²*. When it is desired to flush the cup to clean the same, the valve is adjusted to permit the maximum discharge of water through the outlet *a²* and pipe *c*.

It will be seen that the described device provides a convenient and readily-adjusted means for supplying either a small constant stream or a more powerful flushing-stream, as may be desired.

The casing *a* may be extended to form another casing *a⁵*, having a plug-valve adapted to be turned to entirely shut off the flow of water whenever this is desired. In this con-

nection it may be stated that the valve *b* is not intended to entirely shut off the flow of water, but is arranged so that when at one extreme of its movement it permits a maximum flow of water and when at the other extreme a minimum flow. Hence the operator, in changing from one stream to the other, has only to turn the valve *b* as far as it will go.

I claim—

- 10 1. The improved water-supply apparatus or fitting for drinking cups or troughs, the same comprising a valve-casing having an inlet adapted for connection with a water-supply pipe, and two outlets of different sizes;
15 delivery-pipes connected with said outlets and extending to the cup or trough to be supplied; and a valve having passages formed to deliver a maximum stream to the larger outlet, and a minimum stream to the smaller
20 outlet.

2. The improved water-supply apparatus or fitting for drinking cups or troughs, the same comprising a valve-casing having an inlet adapted for connection with a water-sup-

ply pipe, and two outlets of different sizes; 25 delivery-pipes connected with said outlets and extending to the cup or trough to be supplied; a valve having passages formed to deliver a maximum stream to the larger outlet and a minimum stream to the smaller outlet; 30 and a shut-off valve interposed between the said casing and the supply-pipe.

3. A water-supply apparatus of the character specified, comprising a valve adapted to deliver either a maximum or a minimum 35 stream, delivery-pipes of different sizes connected with said valve, and a reducing-cap detachably connected with the smaller pipe to contract the stream delivered thereby.

In testimony whereof I have signed my 40 name to this specification, in the presence of two subscribing witnesses, this 24th day of November, A. D. 1896.

THOMAS F. WOOD.

Witnesses:

A. D. HARRISON,
P. W. PEZZUTTI.