

T. SMITH.
WATER SUPPLY APPARATUS.
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1,051,168.

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Fig. 1.

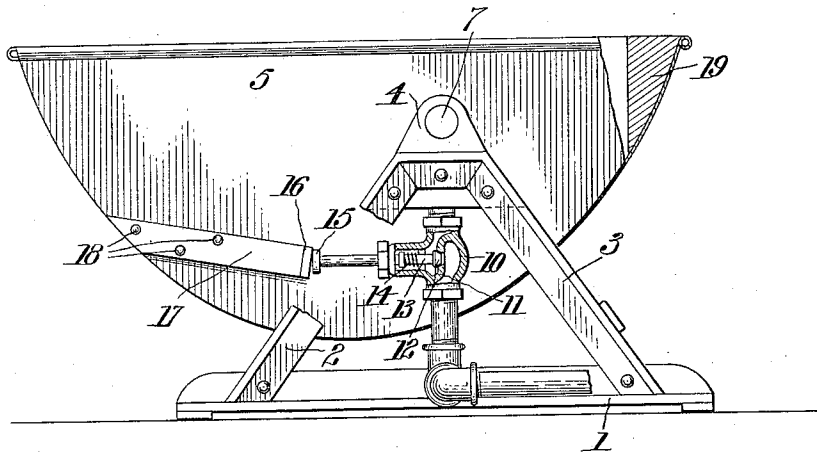
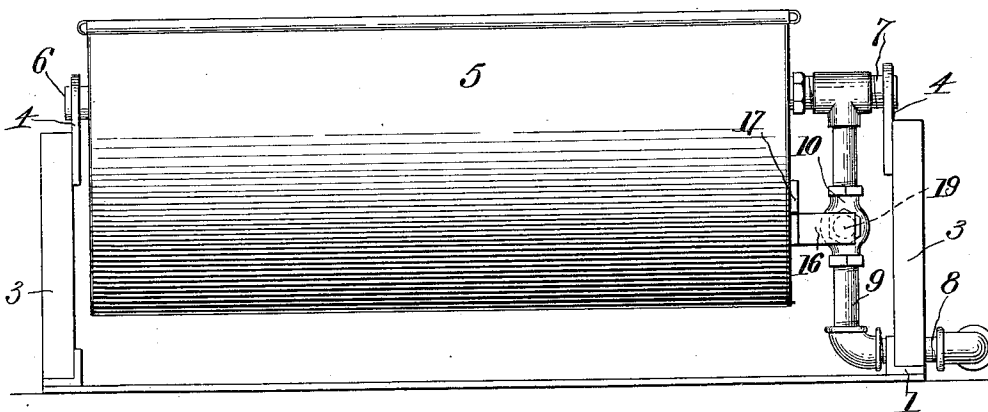


Fig. 2.



WITNESSES

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WATER-SUPPLY APPARATUS.

1,051,168.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, THOMAS SMITH, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and State of Utah, have invented certain new and useful Improvements in Water-Supply Apparatus, of which the following is a specification.

This invention relates to water supply apparatus.

One object of the invention is to provide a water supply apparatus especially adapted to water stock, poultry, etc., embodying such characteristics that the water supply may be controlled automatically and waste of water prevented, thereby obviating a sloppy condition about the apparatus and also providing against the waste of the water especially where the supply is limited.

Another object resides in the provision of a water supply apparatus wherein the water tank will be prevented from upsetting by virtue of an automatic supply of water let into the tank in the event of its starting to tilt, such controlling means being adapted to effect a return of the water tank to its normal position in the event that it is manually tilted for the purpose of flushing or cleaning the tank.

With the above and other objects in view, the present invention consists in the combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claim, it being understood that changes may be made in the form, proportion, size and minor details, without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings: Figure 1 is a side elevation of one embodiment of my invention. Fig. 2 is an end elevation.

Referring now more particularly to the accompanying drawings the reference character 1 indicates the base upon which are supporting uprights consisting of pairs of upwardly converging legs 2 and 3 upon the upper ends of which are journal bearings 4.

The tank is indicated at 5 and at one side it has a journal 6 mounted in one of the aforesaid bearings 4. On its opposite side the tank has a pipe connection 7 leading thereinto and journaled at its outer end in the bearing 4 of the opposite standard consisting of the legs 2 and 3. The tank is

therefore pivotally mounted upon the journal 6 and the pipe journal 7 and it will be seen that the tank is preferably journaled off from its center as clearly shown in Fig. 1.

The numeral 8 indicates a pipe which leads from any suitable water supply source (not shown) to the pipe 9 which latter communicates with the pipe 7 for the purpose of supplying water to the tank 5.

In the line of the pipe 9 is a valve casing 10 in which is disposed a valve seat 11 for the seating of the valve 12 whose stem 13 is adapted to project through a valve casing 10. The valve stem 13 has a spring 14 encircling it for the purpose of holding the valve normally away from its seat 11. The outer end of the valve stem 13 is provided with a head 15, which is adapted to engage the outwardly directed head 16 of the strip 17 secured by means of suitable fastenings 18 to one side of the tank 5. If the tank 5 dips or tilts the head 15 of the valve stem is carried away from the head 16 of the strip 17 with the result that the valve opens and water is supplied to the tank. As the tank gradually fills to overcome the weight 19 at one end thereof, the head 16 of the strip 17 engages the head 15 of the valve stem 13 and forces the valve against the action of this spring into closed position, thereby automatically cutting off further supply of the water.

From the foregoing it will be understood that my improved watering tank is pivoted to one side of its center and that it is weighted at one end and that the weight is adapted to counterbalance the weight of the water in the tank. It will also be understood that the tank will not be overweighted by its weight 19 by virtue of the automatic supply of water to the tank in the event that the tank starts to dip or tilt. It will also be understood that when the tank is full or has reached the quantity of water desired so as to hold it in its normal position the valve mechanism closes and the water is consequently cut off mechanically.

What is claimed is.

In a water supply apparatus, a tank, means to pivotally mount the tank to one side of its center, a water supply pipe leading into the tank adjacent the upper portion thereof and through one side of the tank, the tank being weighted at its end

nearest its pivotal mounting, a valve in the line of the water supply pipe disposed adjacent one side of the tank and having its stem projecting from the supply pipe and
5 provided with a head at its outer end, and a strip immovably secured to one side of the tank and at its inner end provided with an outwardly directed head which is adapted to engage the head of the valve stem to force
10 the valve to its seat upon abutting coöperation of said heads incident to the tank assuming its normal water level position to

automatically cut off the supply of water to the tank, the head of the strip swinging with the tank out of coöperative relation with the head of the valve stem when the tank is tilted by its weighted end.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS SMITH.

Witnesses:

H. C. WALLACE,
FRED. ZOLLINGER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."