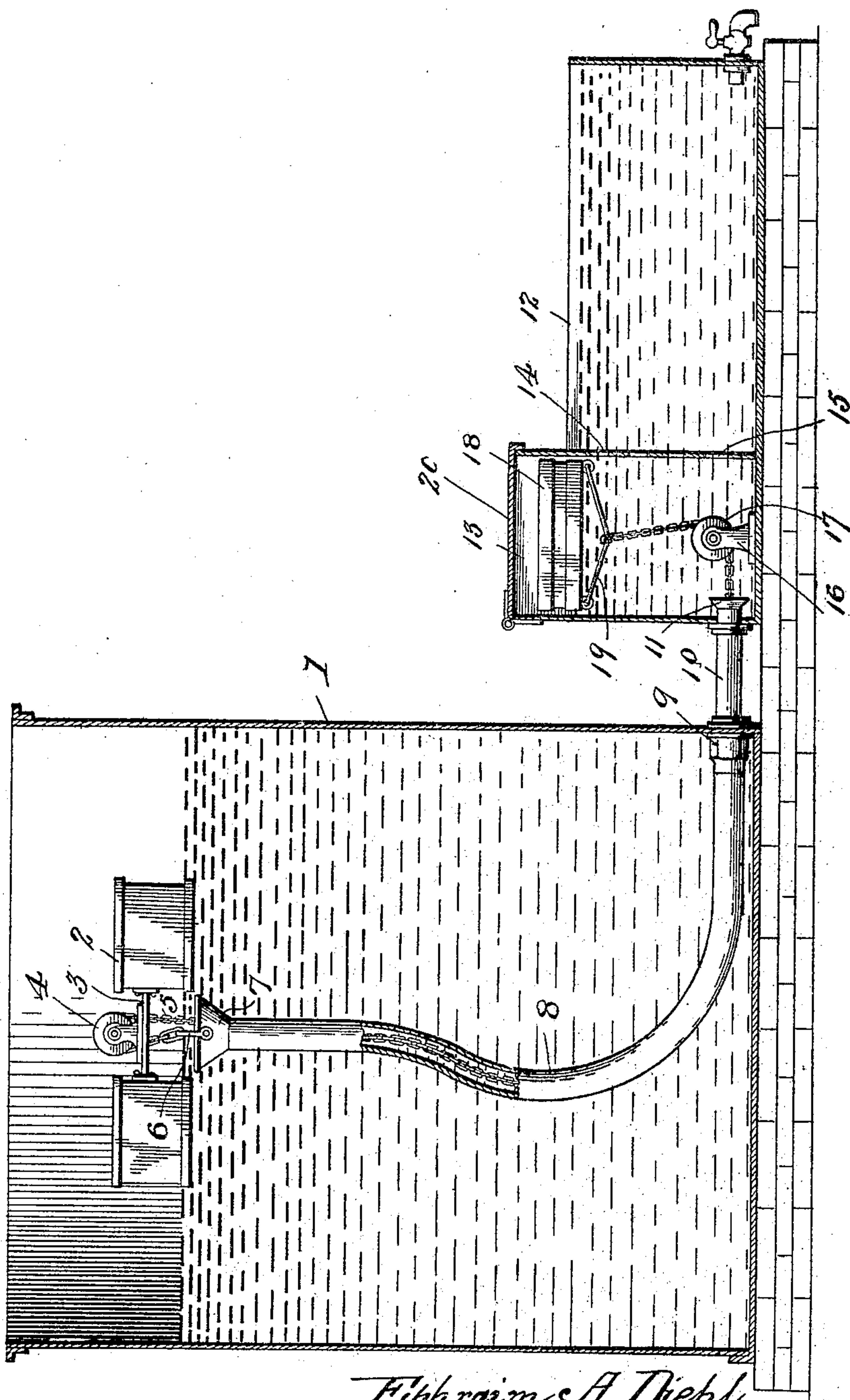


No. 838,961.

PATENTED DEC. 18, 1906.

E. A. DIEHL.  
STOCK WATERING APPARATUS.

APPLICATION FILED FEB. 16, 1906.



*Ephraim A. Diehl*

Inventor

Witnesses

*Chas. K. Davis.*

*W. E. Moore*

*J. M. Moore*

By

Attorney



# UNITED STATES PATENT OFFICE.

EPHRAIM A. DIEHL, OF UNION CITY, INDIANA.

## STOCK-WATERING APPARATUS.

No. 838,961.

Specification of Letters Patent.

Patented Dec. 18, 1906.

Application filed February 16, 1906. Serial No. 301,395.

*To all whom it may concern:*

Be it known that I, EPHRAIM A. DIEHL, a citizen of the United States, residing at Union City, in the county of Randolph and State of Indiana, have invented certain new and useful Improvements in Stock-Watering Apparatus, of which the following is a specification.

My invention relates to improvements in stock-watering apparatus, and refers to that class of stock-fountains in which the water is automatically admitted to the trough as fast as it is consumed.

The main object of the invention is the provision of a device of the character stated which will automatically keep the water in the trough at the proper level regardless of the amount of water in the supply-tank.

Another object of the invention is the provision of a watering apparatus which may be readily applied to any ordinary tank and which will be practical and effective in operation.

With these and other objects in view my invention consists in the combination, with a watering-trough and a float in said trough, of a tank in communication with the trough, a float in the tank supporting a flexible pipe normally above the water-line therein, and connections between the floats, whereby as the water is lowered in the trough the mouth of the pipe is lowered beneath the water.

My invention further consists of a stock-watering apparatus comprising certain other novel features of construction, combination, and arrangement of parts, substantially as disclosed herein.

The drawing is a vertical sectional view of the complete apparatus with some of the parts shown in elevation.

The numeral 1 designates the main or supply tank, which is in connection with a suitable source of water-supply. Within the tank is arranged the pair of spaced floats 2, connected by the truss-bars 3. Between the said bars is rotatably mounted the pulley or drum 4, and passing over the pulley is a suitable chain, cable, or cord 5. One end of the chain is swiveled to the bail 6, which in turn is connected to the funnel-shaped mouth 7 of the flexible pipe or hose 8. A collar 9 is mounted near the base of the tank, which forms an outlet, and to the collar is secured the lower end of the flexible pipe. A flanged connecting-pipe 10 is secured to the tank in alinement with the opening therein and has a

funnel-shaped mouth 11, which projects within the float-compartment of the watering-trough. This watering-trough consists of the trough proper, 12, and the float-compartment 13, separated by a bulkhead or partition 14, provided with openings 15 therein. Brackets 16 are mounted on the bottom of the compartment, between which is secured the pulley 17, adjacent the mouth of the connecting-pipe. A float 18 is arranged in the compartment and is centrally connected, by means of the wires 19 or other suitable means, with the lower end of the chain. The chain passes downward under the pulley, through the connecting-pipe and flexible tube, over the pulley on the tank-float, and is connected to the upper end of the tube, as before described.

The float-compartment is of greater height than the rest of the trough, so as to permit free play of the float therein, and is provided with a hinged cover 20 to allow ready inspection of the parts. Thus it will be understood that the level of the water in the compartment is the same as in the trough, and as the water in the trough is consumed the float is lowered. This movement slackens the chain and allows the mouth of the flexible pipe to fall beneath the water. The water then flows down the pipe until the original water-level is restored in the trough, and the float raises the pipe, and thereby shuts off the flow.

The pulleys and other fittings may be of zinc or other non-corrosive material, as well as the floats, or the floats may be of wood or cork.

My invention may be applied to a great many uses, as stock of all kinds may be watered by providing troughs of different shapes and sizes or by feeding smaller troughs from one large trough.

From this description, taken in connection with the drawing, it will be readily seen that I have accomplished all the objects herein set forth and have provided a useful and valuable invention.

I claim—

1. In a stock-watering apparatus, the combination with a trough and a float therein, of a supply-tank in connection with the trough, a float in the tank supporting a flexible outlet-pipe, and connections between the floats adapted to raise and lower the pipe.

2. In a stock-watering apparatus, the combination with a trough and a float therein, a tank in connection with the trough, a



float in the tank adjustably supporting a flexible outlet-pipe, and connections between the floats to raise and lower the pipe.

3. In a stock-watering apparatus, the  
5 combination with a trough having a float-compartment and a float therein, of a supply-tank in connection with the compartment, a float in the tank adjustably supporting a flexible outlet-pipe, and connections passing  
10 through the pipe from float to the terminus of the pipe.

4. The combination with a watering-trough having a float-compartment and a float therein, a tank in communication with  
15 the compartment, a pair of floats in the tank and a pulley mounted between the floats, a flexible pipe forming the outlet to the tank, and flexible connection secured to the upper end of the pipe passing over the pulley and

through the pipe and secured to the float in 20 the compartment.

5. The combination with a trough having a compartment and a float therein, a pulley mounted on the bottom of the compartment, a supply-tank and a connecting-pipe between 25 the tank and compartment, a flexible pipe secured to the outlet in the tank, of a pair of floats supporting a pulley, and a flexible connection secured to the end of the flexible pipe, passing over the pulley and down the 30 pipe and secured to the float in the compartment.

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

EPHRAIM A. DIEHL.

Witnesses:

GEO. WELLS SMITH,  
HOSEA T. GIST.