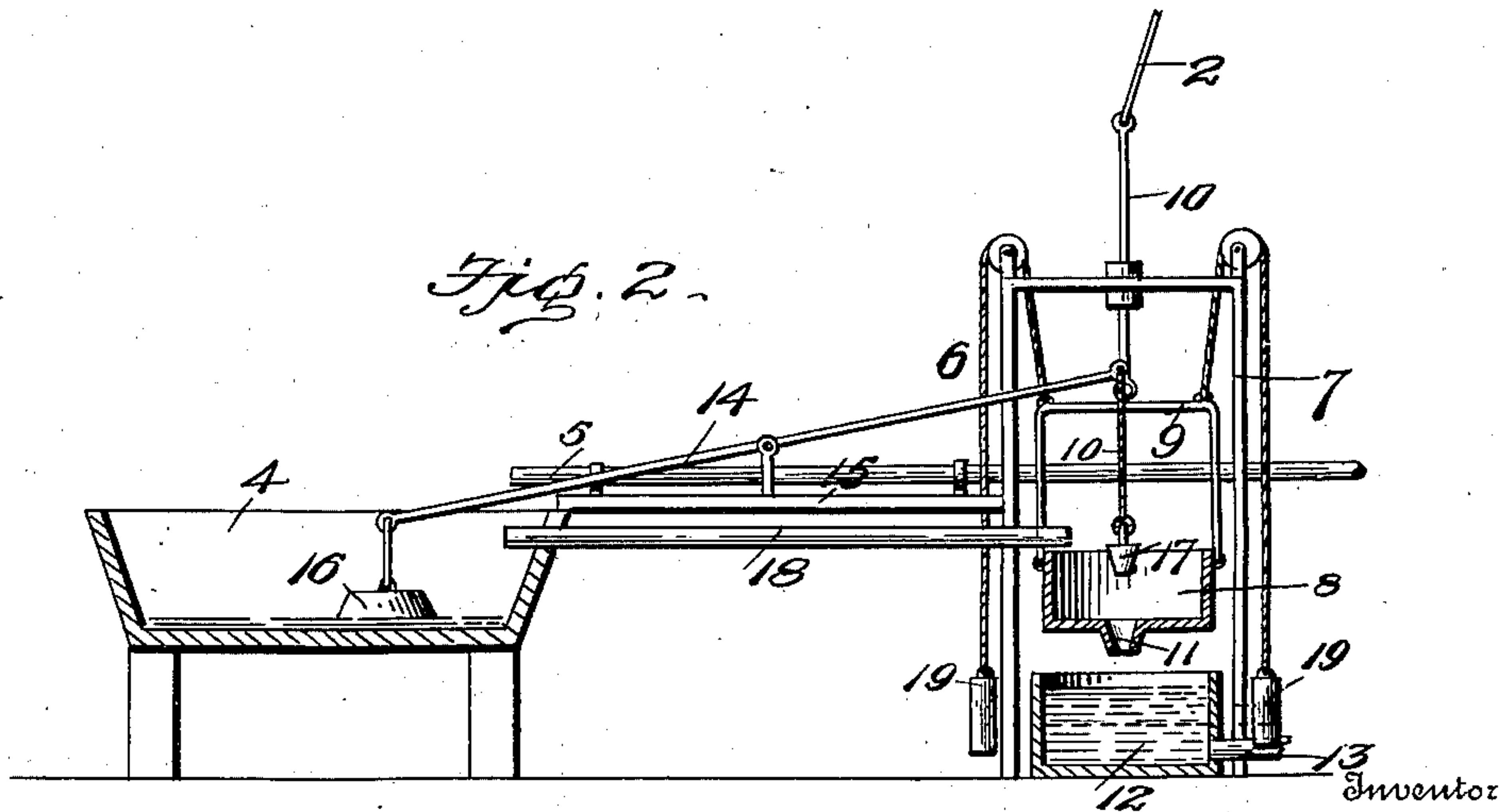
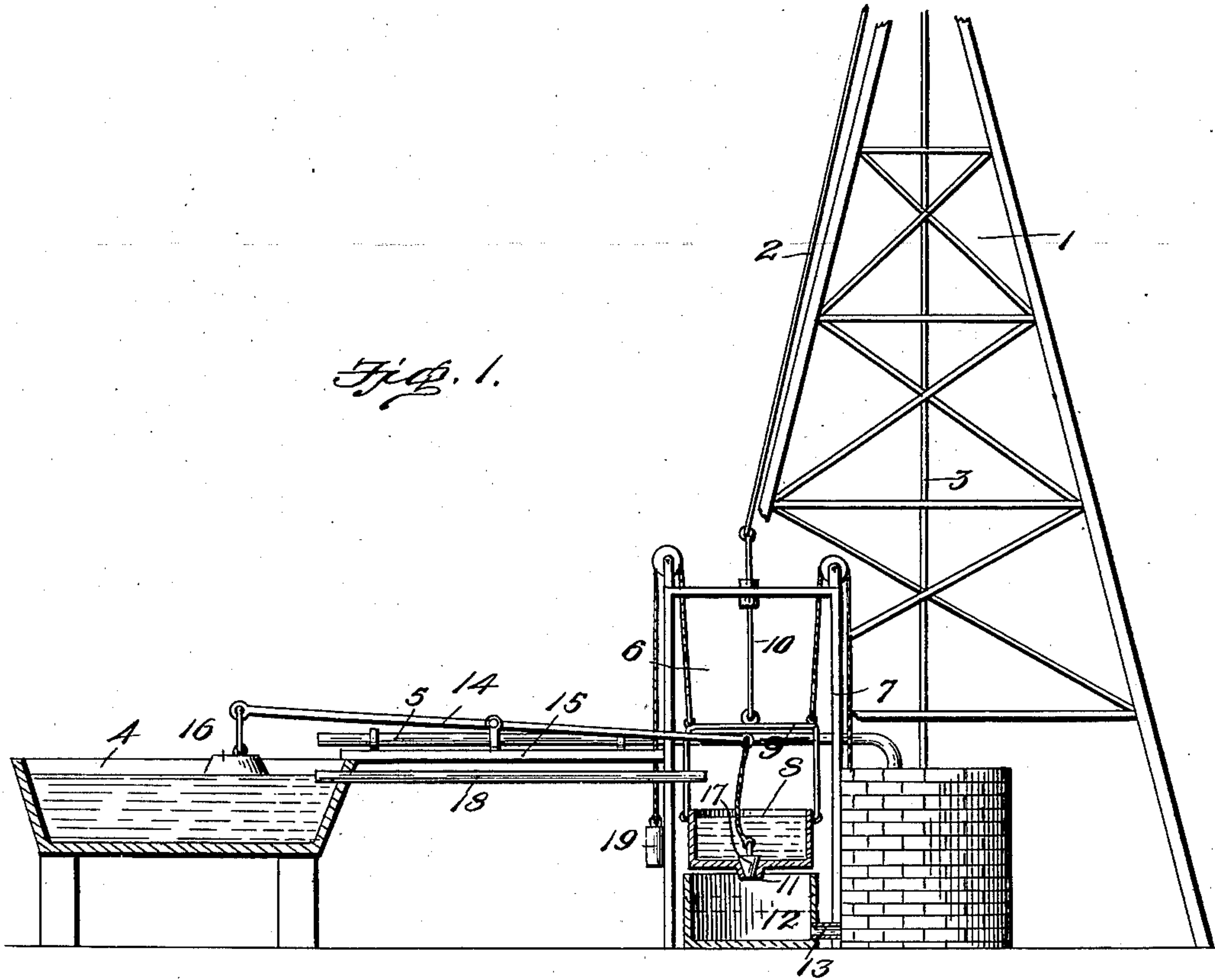


No. 655,122.

Patented July 31, 1900.

H. E. SCHULTZ.  
WINDMILL REGULATOR.  
(Application filed Jan. 11, 1900.)

(No Model.)



Witnesses

*E. Hunt.*  
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Attorneys



# UNITED STATES PATENT OFFICE.

HENRY E. SCHULTZ, OF WHARTON, TEXAS.

## WINDMILL-REGULATOR.

SPECIFICATION forming part of Letters Patent No. 655,122, dated July 31, 1900.

Application filed January 11, 1900. Serial No. 1,126. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY E. SCHULTZ, a citizen of the United States, residing at Wharton, in the county of Wharton and State of Texas, have invented certain new and useful Improvements in Watering-Troughs; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to watering-troughs.

The object of the invention is to provide an attachment for a windmill and stock-watering trough whereby the supply of water to said trough will be automatically checked and the mill thrown out of operation when the trough is filled and when the water lowers in the trough, due to its consumption by the stock, the windmill will be automatically thrown into operation to permit of the refilling of the trough.

To this end the invention consists in certain features of construction and combination of parts, which will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a conventional representation of a windmill-tower, a well, a watering-trough, and the regulating mechanism, said regulating mechanism being in the position it assumes when in the act of cutting off the flow of water to the trough and stopping the windmill. Fig. 2 is an enlarged view of the trough and regulating mechanism, showing the parts in the position they assume when the water is being supplied to the trough and the windmill is in operation.

In the drawings the same reference characters indicate the same parts of the invention.

In said drawings, 1 denotes the windmill-tower; 2, the rod for forcing the mill into and out of operation; 3, the pump-rod; 4, the watering-trough, and 5 the inlet-pipe to said trough.

6 denotes the regulating device, which consists of an upright frame 7, suitably connected to the windmill-tower. Movable within this frame is a bucket 8, having a bail 9 connected to the rod 2 by a link 10. The bottom of this bucket is provided with a funnel-shaped discharge-orifice 11, which is adapted to discharge into a tub 12 placed beneath it,

and which, if desired, may discharge back into the well through the pipe 13.

14 denotes a lever pivoted intermediate its ends to a bar 15 and having connected to one end a float 16 and suspended from its other end a valve 17, which is adapted to close the discharge-orifice in the bucket 8.

18 denotes a discharge-pipe leading from the upper end of the trough 4 to the bucket 8.

Assuming the trough to be filled to the desired height with water, a further supply of water will escape through the pipe 18 into the bucket 8, filling said bucket, which will now begin to descend, carrying with it the valve 17 to the position shown in Fig. 1. This movement will draw upon the rod 2 and throw the windmill out of operation. The parts now remain in the position shown in Fig. 1 until the water-level in the trough has been lowered by the stock, and the float being unsupported by the water will lower and withdraw the valve 17 from its seat in the bucket and allow the water to escape from the bucket into the tub 12, from which point it will be conducted back to the well through the pipe 13, if desired. The weight of the water in the bucket 8 now being removed from the rod 2, the mill and pump will begin working again, and counterbalance-weights 19 may be used to return the bucket 8 to its normal position, but are not necessary.

From the foregoing description, taken in connection with the accompanying drawings, the construction, operation, and advantages of my improved watering-trough will be readily apparent without requiring an extended explanation.

It will be seen that the device is simple of construction, that said construction permits of its manufacture at small cost, and that it is exceedingly well adapted for the purpose for which it is designed.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

In a device of the character described, the combination, with a watering-trough, a well,



a windmill, and its controlling-rod, of a framework arranged in close proximity to the windmill and well, a bucket mounted to move vertically in the framework and provided in its  
5 bottom with a discharge-opening, a bail connected to the bucket, a link mounted in a guide in said framework and connecting the bail with the windmill-rod, a tub arranged beneath the bucket to receive the discharge  
10 therefrom, a pipe connecting the tub with the well to allow the discharge to flow back into the latter, ropes connected with the bail and rove around pulleys in the framework and carrying counterbalancing-weights, an inlet-  
15 pipe leading from the well to the watering-trough, an overflow-pipe leading from the watering-trough to and discharging into the

bucket, a lever pivoted intermediate its ends and having one end projecting over the watering-trough and the other end over the  
20 bucket, a valve for closing the discharge-opening in the bucket, a flexible connection between one end of the lever and the valve, and a float connected to the other end of the lever and arranged within the trough, sub-  
25 stantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

H. E. SCHULTZ.

Witnesses:

R. M. BROWN,  
W. F. SCHULTZ.