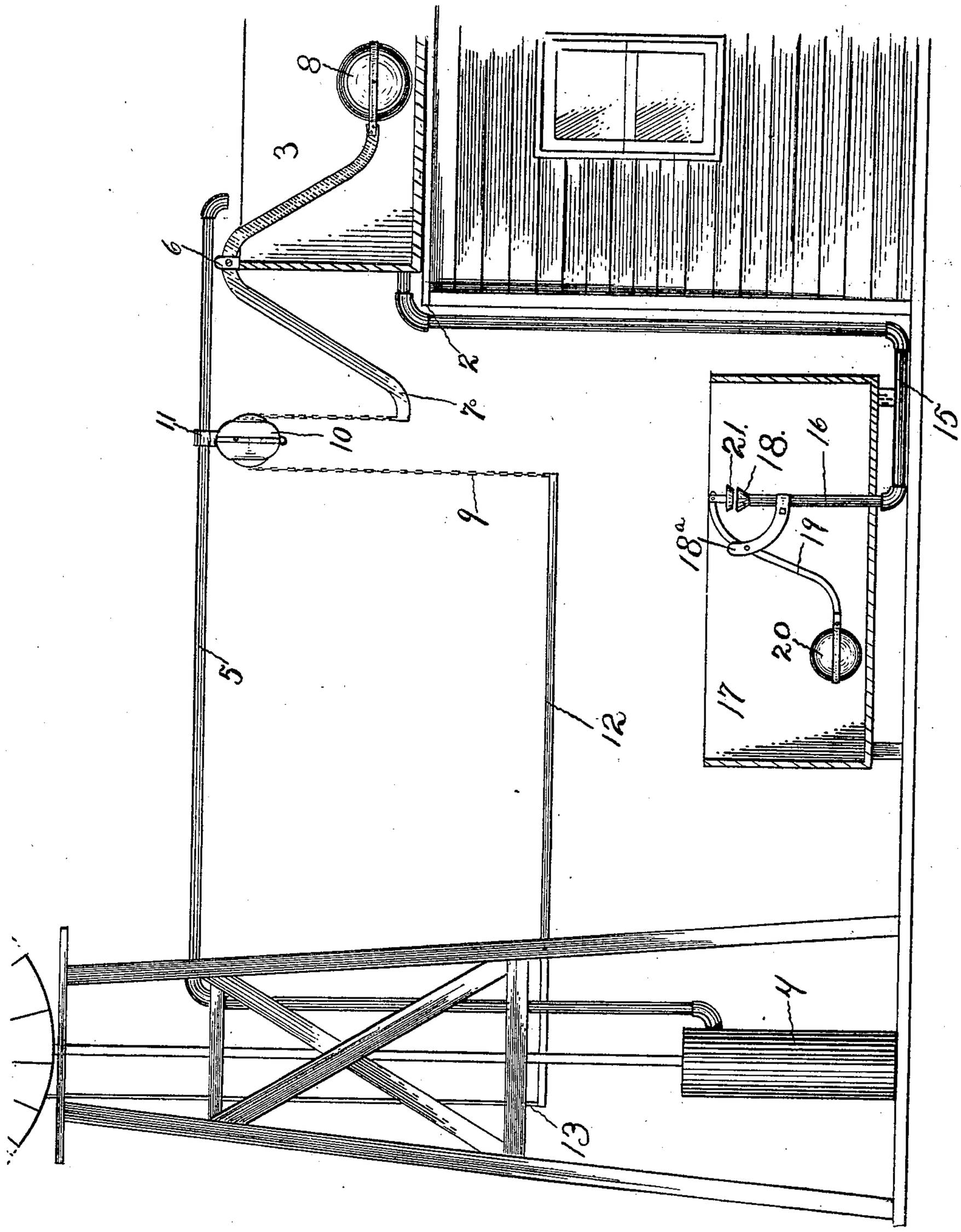
No. 658,401. Patented Sept. 25, 1900.

C. H. ROHLF.

WINDMILL REGULATOR.

(Application filed July 10, 1900.)

(No Model.)



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UNITED STATES PATENT OFFICE.

CLAUS H. ROHLF, OF NEW FOUNTAIN, TEXAS.

WINDMILL-REGULATOR.

SPECIFICATION forming part of Letters Patent No. 658,401, dated September 25, 1900.

Application filed July 10, 1900. Serial No. 23,141. (No model.)

To all whom it may concern:

Be it known that I, CLAUS H. ROHLF, a citizen of the United States, residing at New Fountain, in the county of Medina, State of Texas, have invented certain new and useful Improvements in Windmill-Brakes; and I do hereby 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.

My invention relates to windmill-regulators; and its object is to provide a device of this nature which will be automatic in its action, as well as simple of construction, and with this idea in view I have constructed a device of this nature, such as is described in this specification and shown in the accompanying drawing, in which like letters of reference indicate similar parts, and in which I have shown a windmill-tower and my controlling mechanism.

My invention is to be used in connection with a windmill placed upon a tower in the usual manner and having the controlling-wire depending therefrom to be drawn upon for stopping the pumping mechanism and to be released for allowing it to resume its operation.

In connection with a windmill-tower, as shown at 1, I employ an elevated platform 2, upon which is placed a tank 3, connected with a pump 4 by means of a pipe 5. Secured to the edge of the tank 3 is a yoke 6, to which is pivoted a lever 7, having a float 8 connected to one of its ends and adapted to lie within the tank. To the other end of the lever is attached one end of a chain 9, which passes over a pulley 10, attached to the pipe 5 by means of a clip 11. The other end of the chain is attached to one extremity of a second lever 12, pivoted to the windmill-tower, so that its other extremity will project within the inclosure of the tower, and to this end is secured the lower end of the controlling-wire 13. Passing downwardly from the tank 3 is a pipe 14, having an elbow 15, to one end of which is attached a vertical pipe 16. The pipe 16 passes upwardly through the bottom of and into a drinking-trough 17, and upon the upper end of this pipe is a valve-seat 18 and an arm 18^a, to which is pivoted a lever 19. Upon one end of this lever is a float 20, and upon its other end is a valve 21, adapted to lie upon the seat 18 when the float 20 is raised.

From the foregoing description it will be seen that when the tank 3 is empty the float 8 will fall and slacken the chain 7, and as a result the controlling-wire 2. The mill may then operate the pump, which will force a stream of water through the pipe 5 and into the tank 4. The water will also pass through the pipe 14 and into the trough 17. When this trough has become filled, the float 20 will raise, and thereby seat the valve 21. The water will then cease to pass through the pipe 14, and hence its level will be raised in the tank 3. When the water has reached the float 8, the latter will raise and rock the lever 7. This will draw upon the chain 9, which will in turn rock the lever 12 and cause it to pull downwardly upon the wire 2, stopping the pumping mechanism. The parts will then remain at rest until a sufficient amount of water has been taken from the trough 17 to open the valve 21, and thereby reduce the amount of water in the tank 4 to such an extent as to allow the elements to resume their original position. The operation of the parts will then be repeated.

Having now fully shown and described my invention, what I claim, and desire to secure by Letters Patent, is—

Means for controlling a windmill comprising a tank, a lever pivoted to the tank, a float mounted upon one end of the lever, a pipe connecting the tank and a pump operated by the windmill, a pulley mounted upon the pipe, a chain passing over the pulley having one end attached to the lever and its other end attached to a second-named lever, said second-named lever being pivoted to the windmill-tower and having the controlling-wire of the mill attached to one of its ends, a second pipe passing downwardly from the tank having its end turned upwardly to pass within a drinking-trough, a drinking-trough to receive the said end, a lever pivoted to the upturned portion of the second-named pipe, a float attached to one end of the lever and a valve attached to the other end of the said lever and adapted to close the open end of the upturned portion of the second-named pipe when said float is raised.

In testimony whereof I sign my name in the presence of two witnesses.

CLAUS H. ROHLF.

Witnesses:
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