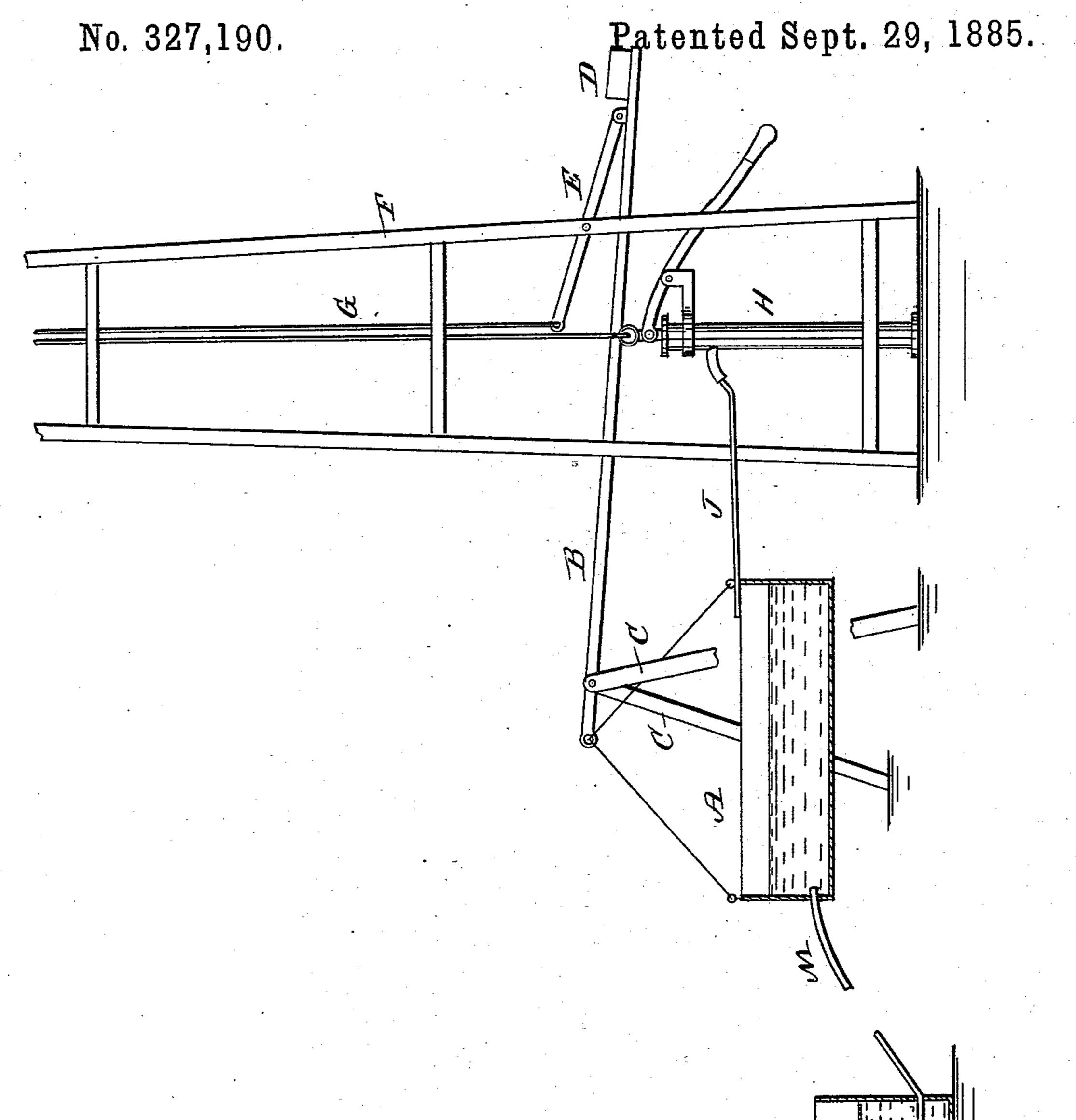
A. M. OTIS.

WATER REGULATOR FOR WINDMILLS.



WITHMEGGEG.

Reo. J. Hoster. C.

BY Munn +Co

ATTORNEYS.

United States Patent Office.

ANSON MELVIN OTIS, OF YORK, NEBRASKA.

WATER-REGULATOR FOR WINDMILLS.

SPECIFICATION forming part of Letters Patent No. 327,190, dated September 29, 1885.

Application filed August 5, 1885. (No model.)

To all whom it may concern:

Be it known that I, ANSON MELVIN OTIS, of York, in the county of York and State of Nebraska, have invented a new and Improved 5 Water-Regulator, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved water-regulator for automatically stopping the flow of water into a 10 tank or throwing a windmill out of gear when the tank contains the desired quantity of water.

The invention consists in the construction and combination of parts and details, as will 15 be fully described and set forth hereinafter.

Reference is to be had to the accompanying drawings, forming part of this specification, in which a longitudinal sectional elevation of my improved water-regulator is shown.

The tank A is suitably suspended from one end of a lever, B, pivoted on standards C, which lever carries a weight, D, on the other end, which weight is greater than that of the empty tank, but less than that of the filled 25 tank.

The lever B is connected by a lever, E, pivoted to the said lever and to the upright frame F with a rod, G, serving to throw the pump out of gear with the windmill or other 30 motor.

The pump H is operated from the said motor and delivers its water through the pipe J into the tank A, which gradually descends as it fills, whereby the weighted end of the lever B 35 is raised and the rod G pulled down by the lever E and the windmill or motor is thrown out of gear.

The pipe M conducts the water from the tank A to a tank, N, some distance from the 40 tank A and lower than the same. The pipe M projects into the tank N, and is provided on its open end with a seat, O, for a valve, P, secured on the lower end of an angle-lever, Q, pivoted on the top edge or other part of the 45 tank N, and carrying on its free end a small tank or box, R, having an air-outlet tube, S, which tank or box R is connected with the bottom of the tank N by a flexible tube, T.

flows through the pipe M into the tank N and 50 rises in the same, and by means of the pipe T also passes into the box R, in which it has the same level as in the tank N. The weight of the water in the box R swings the box downward, whereby the lever Q presses the valve 55 P against the seat O, thus closing the pipe M and preventing the water from flowing into the tank N, and thereby preventing the overflowing of said tank N. As soon as the pipe M is closed the water must accumulate in the 50 tank A, and the tank A descends, as described above, and stops the running-gear. As the water is removed from the tank N, by some cause or other, the level descends, and the water runs out of the box R, which is swung up, and 65 the valve P is swung from the seat O, thus permitting the water to flow through the pipe M from the tank A, whereby the tank A is lightened, the weighted end of the lever D descends, and the pump is thrown in gear, and so 70 on.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with a pivoted lever, 75 of a tank suspended from one end of the same, a weight on the other end, a rod on said lever for throwing the pumping mechanism (such for example, as a windmill) out of gear, a tube for conducting water into the suspended 80 tank, a stationary tank, a tube for conducting the water from the suspended tank into the stationary tank, and an automatically-operating valve for closing the end of the tube within the stationary tank when said tank is 85 filled, substantially as herein shown and described.

2. The combination, with a pump and a pivoted lever having one end weighted, of a tank suspended from the other end of the 90 lever mechanism, connected with the lever for throwing the pumping device out of gear, a stationary tank, a tube for conducting the water from the suspended tank into the stationary tank, which tube projects into the 95 stationary tank, an angle-lever pivoted on the stationary tank, a valve on the end of said The water that is pumped into the tank A | lever for closing the end of the tube in the

stationary tank, a box or small tank on the upper end of the angle-lever, and a flexible tube connecting said box or small tank with the bottom of the stationary tank, substantially as herein shown and described.

3. The combination, with the tank N, of an inlet-pipe, a valve for closing it, an angle-lever to which the valve is secured, a tank, R,

on the outer end of the lever, and a flexible tube connecting the tanks N and R, substanto tially as herein shown and described.

ANSON MELVIN OTIS.

Witnesses:

N. P. LUNDEEN, CH. HALLSTROM.