

(No Model.)

J. T. THATCHER.
AUTOMATIC VALVE MECHANISM FOR TANKS.

No. 600,972.

Patented Mar. 22, 1898.

Fig. 1.

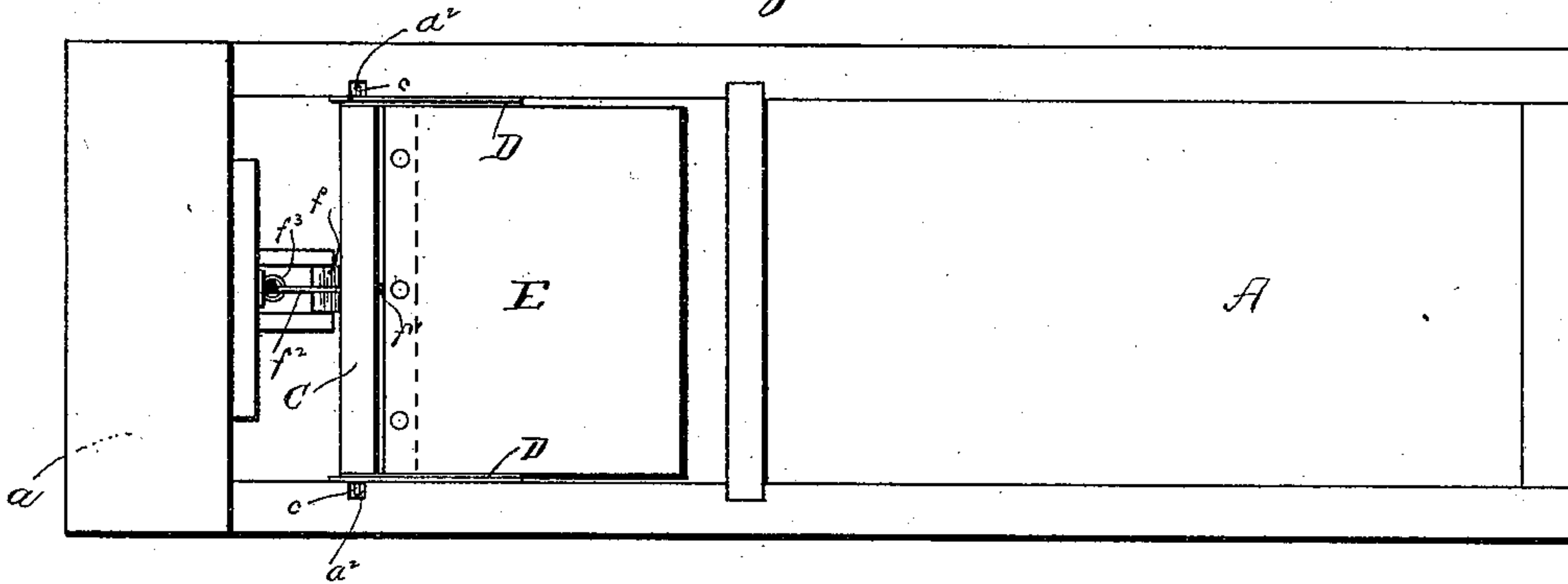


Fig. 2.

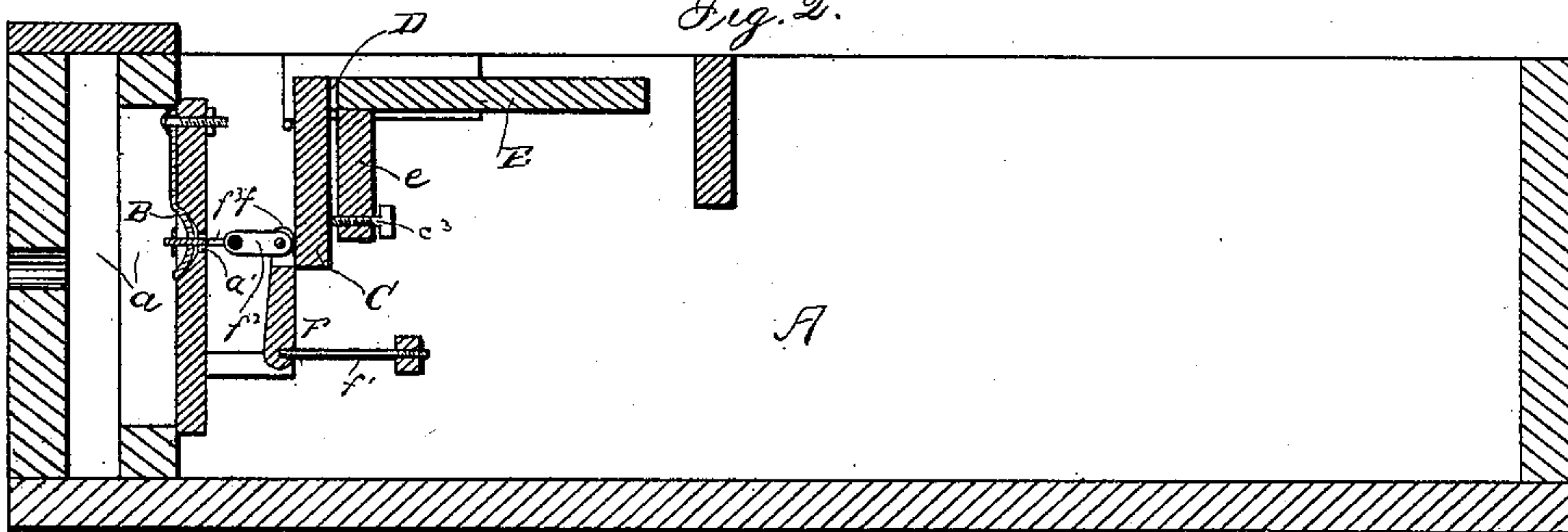
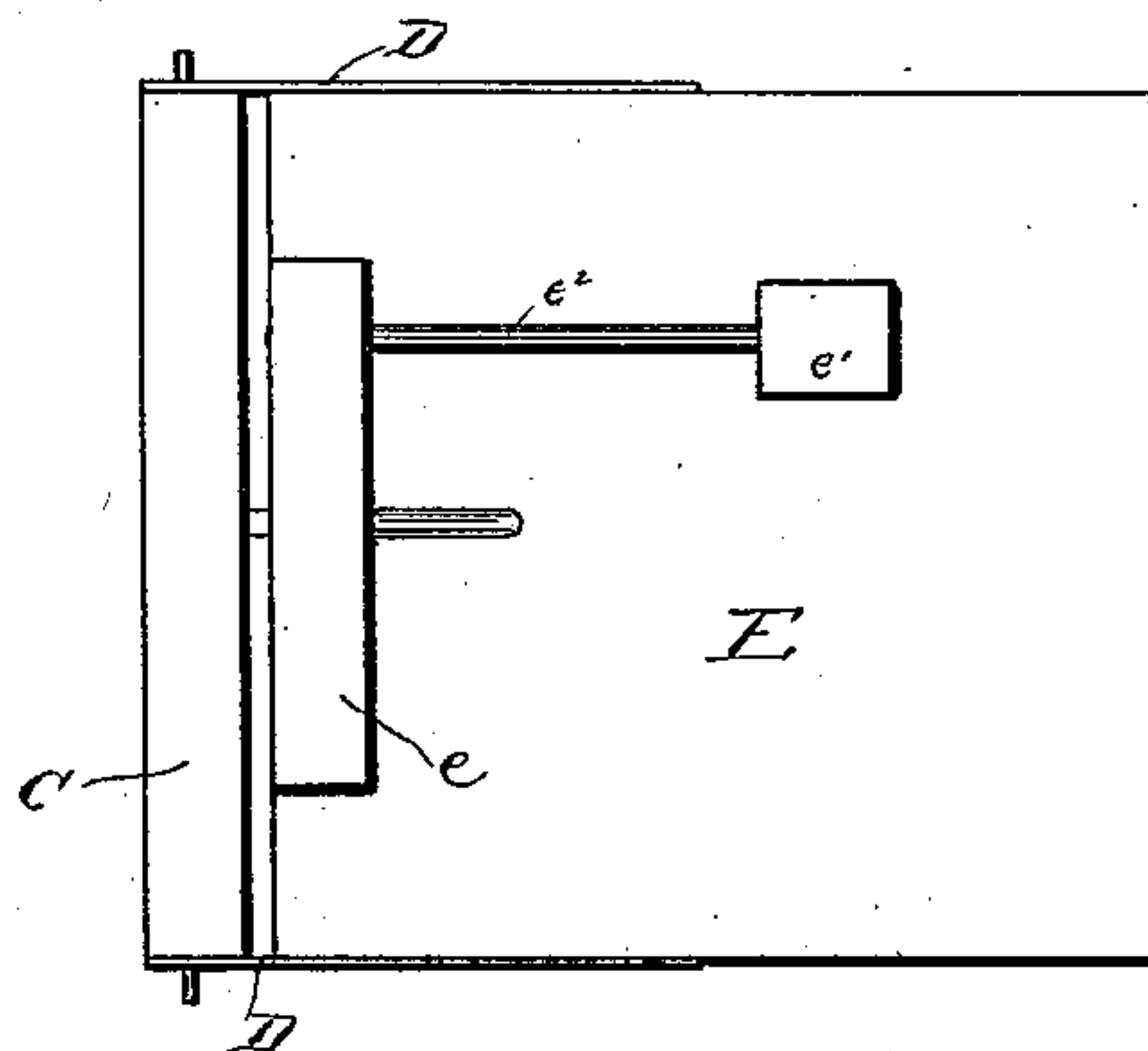


Fig. 3.



WITNESSES:

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AUTOMATIC VALVE MECHANISM FOR TANKS.

SPECIFICATION forming part of Letters Patent No. 600,972, dated March 22, 1898.

Application filed June 22, 1897. Serial No. 641,746. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. THATCHER, a citizen of the United States, residing at Frankfort, in the county of Clinton and State of Indiana, have invented certain new and useful Improvements in Automatic Valve Mechanism for Tanks; 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention relates generally to tanks, troughs, or watering devices where the desired level of the water is maintained automatically by a float connected by suitable mechanism with the valve.

The special object of my invention is to make an improvement in the valve mechanism, as hereinafter described, and pointed out in the claim.

Figure 1 of the drawings is a plan view; Fig. 2, a vertical longitudinal section; Fig. 3, a bottom view of the float.

In the drawings, A represents a tank or trough having the valve-chamber a , the hole a' , about which on the inner side is a seat for the valve B, and the recesses a^2 a^2 for the bearings of the journals c c on the flap C. These journals pass through projecting plates D D on the rear end of the float E and serve

as pivots therefor. The float has a plate e at right angles thereto, with a screw e^3 to rest against the flap C, which bears loosely on the vertical arm f of the elbow-lever F. The lever F has an adjustable weight on its horizontal arm f' , the function of this lever being simply to close the valve B, which is connected with its vertical arm f by means of a horizontal rod f^2 and loop-bolt f^3 , pivotally attached to one another. The float E may have beneath it an adjustable weight e' on a rod e^2 , or the heft of the float may be made changeable in any preferred way. When unresisted, the elbow-lever F will always keep the valve closed, while the flap C will rest loosely against the arm f , but when the water gets below the desired level the float-plate e will press against the lever-arm f and open the valve.

What I claim as new, and desire to protect by Letters Patent, is—

In automatic valve mechanism for tanks, a pivoted float having the plate e at right angles thereto, a pivoted flap C and a weighted elbow-lever F connected with the valve, all constructed, arranged and combined substantially as shown and described, for the purpose set forth.

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

JOHN T. THATCHER.

Witnesses:

H. M. HUMFELD,
WILL E. CLARK.