

A. FINK.  
CISTERN CUT-OFF.  
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910,519.

Patented Jan. 26, 1909.

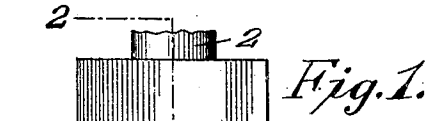


Fig. 2.

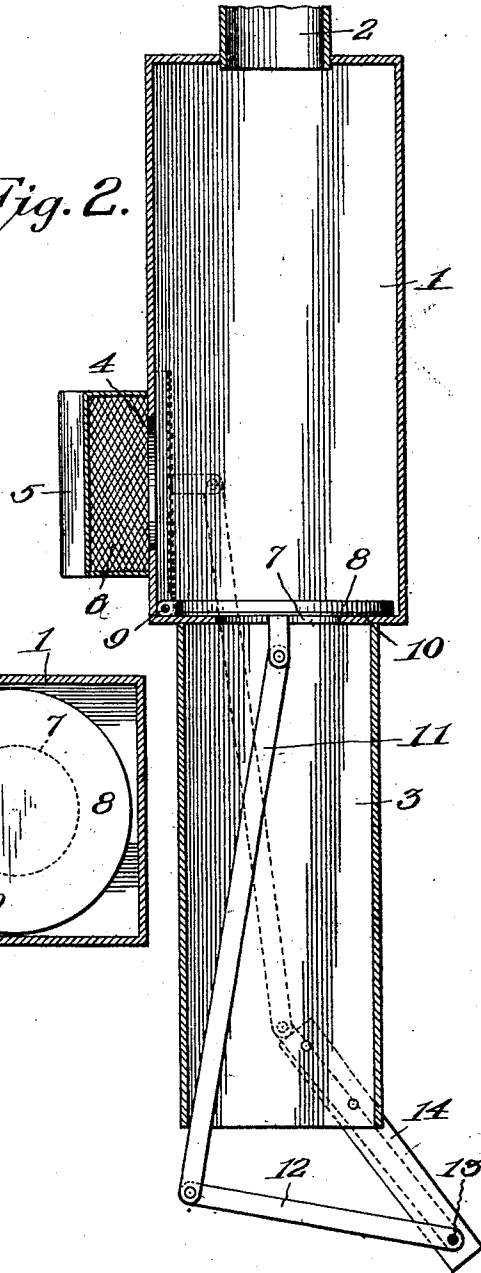
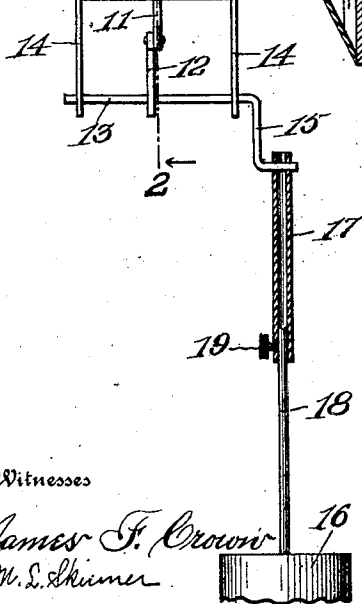
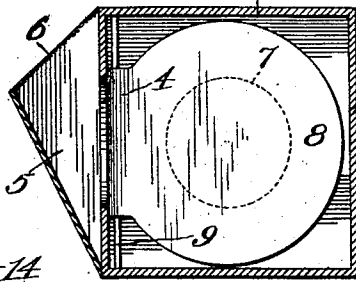


Fig. 3.



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Witnesses

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# UNITED STATES PATENT OFFICE.

ADAM FINK, OF PARKSTON, SOUTH DAKOTA.

## CISTERN CUT-OFF.

No. 910,519.

Specification of Letters Patent.

Patented Jan. 26, 1909.

Application filed June 1, 1908. Serial No. 435,984.

*To all whom it may concern:*

Be it known that I, ADAM FINK, a citizen of the United States, residing at Parkston, in the county of Hutchinson and State of South Dakota, have invented certain new and useful Improvements in Cistern Cut-Offs, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in devices for cutting off the supply to a cistern or the like when the water or other liquid reaches a predetermined height.

The object of the invention is to provide a cistern cut off which will be simple, strong, durable and comparatively inexpensive in construction, and reliable and efficient in operation.

With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of my improved cistern cut off; Fig. 2 is a vertical sectional view; and Fig. 3 is a horizontal section.

My improved cistern cut off comprises a body 1 having an inlet pipe 2 at its upper end, an outlet pipe 3 at its lower end and an outlet 4 upon one side, the latter being adapted to discharge into the cistern. The outlet 4 is in the form of a circular opening over which is arranged a three sided deflector or hood 5, the open portion of which is covered by wire netting 6 or any other screening material that will prevent solid matter from passing into the cistern. The waste pipe 3 is arranged beneath a circular opening 7 in the bottom of the body 1; and said opening, which forms a valve seat, is adapted to be closed by a hinged or flat valve 8 mounted upon the bottom of the body 1. Said valve consists of a metal plate of substantially circular form which is hinged or pivoted, as at 9, and has its lower face covered with leather or the like 10 which, when the valve is closed, will effectively prevent water from passing through the outlet 7. The cistern outlet opening 4 is also so disposed that when said valve is raised to expose the outlet opening 7 it will close the opening 4, as will be readily seen upon reference to Fig. 2.

The valve is operated by a link 11 pivoted

at its upper end to the bottom face of the valve and extending through the opening 7 and the pipe 3 and having its lower end pivoted to an arm 12 on a rock shaft 13 journaled in bearing brackets 14 depending from the bottom of the pipe 3. Upon one end of the rock shaft or pivot 13 is a crank arm 15 to which is pivotally connected the stem of a float 16. The float 16 which is arranged within the cistern, may be of any suitable form and construction, but I preferably make its stem adjustable and of two slidably engaged sections 17, 18 one of which is shown tubular to telescopically receive the other, which latter is held in an adjusted position within it by a set screw or any other suitable means 19.

In operation, it will be seen that the weight of the float will hold the valve 8 in its closed position over the seat or opening 7 and that when the water in the cistern rises to a predetermined point and moves the float upwardly it will swing the valve to its open position to open the outlet opening 7 and pipe 3 and to close the outlet opening 4. By adjusting the stem of the float it will be seen that the valve may be operated to shut off the water when the latter is at any desired height or level in the cistern.

Having thus described my invention what I claim is:

1. A device of the character described comprising a body having an inlet and two outlet openings, one being disposed in its bottom and the other in its side, a valve hinged at one edge in the body at the point of intersection of its bottom and said side whereby said valve may be swung to a horizontal position to close the opening in the bottom of the body or to a vertical position to close the opening in the side of the same, bearings beneath the body, a shaft in said bearings and having two arms, a link connecting one arm of the shaft to the bottom of said valve, and a float connected to the other arm of said shaft.

2. A device of the character described comprising a body having an inlet and two outlet openings, one being disposed in its bottom and the other in its side, a valve hinged at one edge in the body at the point of intersection of its bottom and said side whereby said valve may be swung to a horizontal position to close the opening in the bottom of the body or to a vertical position to close the opening in the side of the same, bearings be-

neath the body, a shaft in said bearings and having two arms, a link connecting one arm of the shaft to the bottom of said valve, a float, and a stem for the float connected to the  
5 other arm on the shaft and consisting of slidably engaged and adjustably connected sections.

3. A device of the character described comprising a body having an inlet and two  
10 outlet openings, one of the latter being disposed in its bottom and the other in its side, a hinged valve adapted to alternately open and close said outlet openings, a deflecting hood arranged over the outlet opening in the  
15 side of the body, a screen in said hood, a pipe depending from the body, bearings carried by said pipe, a shaft in said bearings, an arm upon said shaft, a link connecting said arm to the valve and extending through said pipe  
20 and the outlet opening in the bottom of the body, a second arm on said shaft, a float, and a stem connecting said float to said second arm.

4. A device of the character described  
25 comprising a body having an inlet and two outlet openings, one disposed in its bottom

and the other in its side, a hinged valve adapted to alternately open and close said outlet openings, a deflecting hood arranged  
30 outside of the body over the outlet opening in its side, a screen over the open portion of the hood, a pipe depending from the bottom of the body and arranged over the outlet  
opening in the latter, bearing brackets upon  
35 said pipe, a rock shaft in said bearing brackets, an arm upon said shaft, a link connecting said arm to the valve and extending through  
said pipe and the outlet opening in the bottom of the body, a crank arm upon one end  
40 of said shaft, a float, a stem for the latter having one of its ends pivotally connected to the crank arm, said stem consisting of two sections, one being tubular to slidably receive the other, and a set screw for holding  
45 said sections in an adjusted position.

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

ADAM FINK.

Witnesses:

WILHELM MAAS,  
JOHN DOERING.