

UNITED STATES PATENT OFFICE.

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CUT-OFF FOR TANKS AND THE LIKE.

No. 889,912.

Specification of Letters Patent.

Patented June 9, 1908.

Application filed June 18, 1907. Serial No. 379,626.

To all whom it may concern:

Be it known that I, JAMES M. DAVIS, citizen of the United States, residing at Nocona, in the county of Montague and State of Texas, have invented certain new and useful Improvements in Cut-Offs for Tanks and the Like, of which the following is a specification.

The present invention relates to certain new and useful improvements in valves, and more particularly to that type which are designed to be used as cut offs in connection with tanks and the like.

The object of the invention is to provide a simple and inexpensive valve mechanism of this character which is peculiarly designed so as to be readily applied to the bottom or sides of a tank and which operates in an effective manner to shut off the discharge from the tank.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a longitudinal sectional view through a cut off embodying the invention. Fig. 2 is a transverse sectional view on the line 2—2 of Fig. 1. Fig. 3 is a similar view on the line 3—3 of Fig. 1.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the invention the numerals 1—1 designate a pair of plates which are designed to be applied to opposite faces of the bottom or sides of the tank upon which the device is mounted. Corresponding openings 2 are formed in the plates 1—1, the said openings receiving a sleeve or tubular member 3. One end of the sleeve 3 is provided with the head or enlargement 4 while the opposite end is threaded and receives a nut 5 which coöperates with the said head to clamp the plates 1—1 securely in position against the bottom or side of the tank. In this connection it may be noted that in order to prevent leakage packing rings 6 are preferably interposed between the head 4 and nut 5 and the respective plates 1. The outer portions or corners of the plates 1—1 may also be connected by bolts 7 or similar fastening members.

An outwardly projecting standard 8 is car-

ried by one of the plates 1 and serves as a fulcrum member upon which the lever 9 is pivotally mounted. The valve 10 is loosely connected to the lever 9 and normally rests upon the head 4 which constitutes the valve seat. Applied to the outer face of the valve 10 is a U-shaped clip 11 the two arms of which embrace the lever 9 and are connected by a pivot pin or bolt 12 engaging the said lever. In the specific construction of the standard 8 it will be observed that the same also is of U formation, the cross bar being secured to the plate 1 while the two arms are connected by a pin or pivot bolt 13. A strap 14 is secured to the upper face of the lever 9 and is formed with the crimped portions 15—15 receiving respectively the pivot pin 12 of the clip 11 and the pivot pin 13 of the standard 8.

One end of the lever 9 is extended outwardly and formed with a perforation designed to engage a cord or like member for operating the valve from the exterior of the tank. The opposite end portion of the lever 9 is formed with a laterally elongated slot 17 receiving an arm 18 projecting from the plate 1. Mounted upon the said arm 18 and interposed between the lever and the plate 1 is a coil spring 19, the said spring normally acting to hold the valve upon its seat.

From the foregoing description it will be readily apparent that the valve is normally held upon its seat by means of the spring 19, thereby shutting off the outflow or discharge from the tank. By pulling upwardly however upon the cord engaging the perforation 16 the lever 9 can be moved to lift the valve from its seat and the contents of the tank thereby permitted to flow through the sleeve 3.

Having thus described the invention, what is claimed as new is:

1. In a device of the character described, the combination of a plate having an opening therein, a sleeve received by the opening in the plate, a standard projecting from the plate, a lever pivotally mounted upon the standard at a point between its ends, one end of the lever having an opening therein, an operating cable applied to the opposite end of the lever, a valve loosely connected to the lever and coöperating with an end of the sleeve, an arm projecting through the opening in the lever, and a spring carried by the arm and engaging the lever to hold the valve normally upon its seat.

2. In a tank valve, the combination of a pair of plates provided with corresponding openings and adapted to fit against opposite sides of the tank bottom, a sleeve extending
5 through the corresponding openings in the plates, means cooperating with the sleeve to clamp the plates in position, a standard projecting from the inner plate, a lever pivoted
10 at a point between its ends upon the standard, a valve cooperating with an end of the sleeve, a clip carried by the valve and loosely connected to the lever, and means mounted
upon the inner plate and cooperating with the lever, to hold the valve normally upon its
15 seat.

3. In a device of the character described, the combination of a pair of plates formed with corresponding openings, a sleeve received within the openings, one end of the

sleeve constituting a valve seat, a U-shaped 20 standard applied to one of the plates and carrying a pivot pin, a valve cooperating with the valve seat, a clip applied to the valve and carrying a pivot pin, a lever, a strap applied to the lever and formed with 25 crimped portions designed to receive the before mentioned pivot pins, one end of the lever being formed with an elongated opening, an arm projecting within the opening, and a spring carried by the arm and engaging 30 the lever to hold the valve normally upon its seat.

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

JAMES M. DAVIS. [L. s.]

Witnesses:

L. C. DARROW,
D. T. HERRING.