

(No Model.)

E. BENSON.
COMBINED OIL TANK AND MEASURE.

No. 420,402.

Patented Jan. 28, 1890.

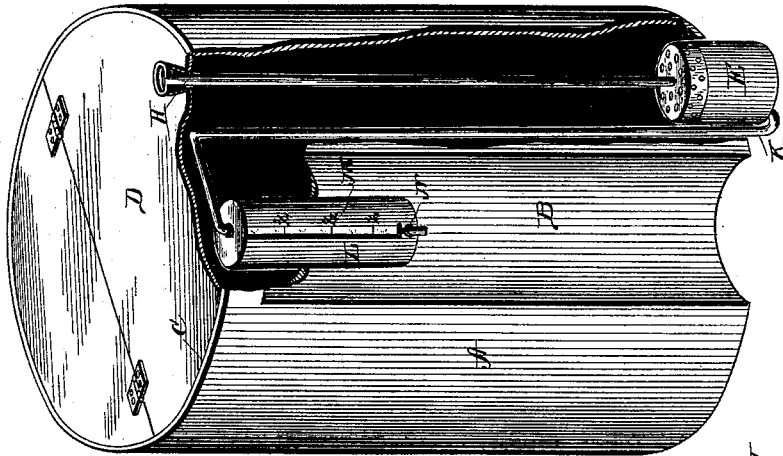


Fig. 2.

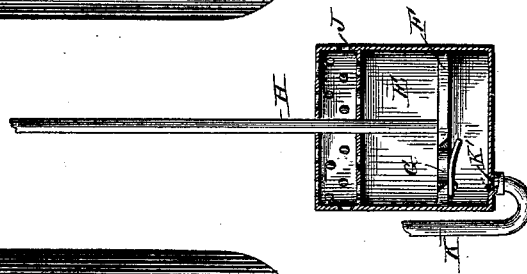


Fig. 3.

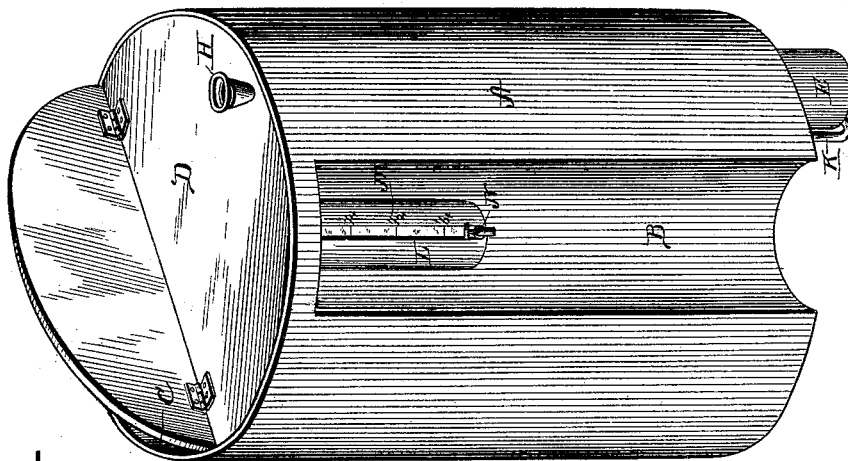


Fig. 1.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ELOF BENSON, OF WAHOO, NEBRASKA, ASSIGNOR OF ONE-HALF TO O. E. CARLSON, OF SAME PLACE.

COMBINED OIL TANK AND MEASURE.

SPECIFICATION forming part of Letters Patent No. 420,402, dated January 23, 1890.

Application filed August 16, 1889. Serial No. 320,926. (No model.)

To all whom it may concern:

Be it known that I, ELOF BENSON, a citizen of the United States, and a resident of Wahoo, in the county of Saunders and State of Nebraska, have invented certain new and useful Improvements in Oil-Tanks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in oil tanks or vessels, the object being the production of a tank which will purify and measure the oil, and which will be inexpensive and durable and efficient for the purpose intended.

The invention consists of a tank having a measuring-vessel communicating therewith; further, in a tank having a cylinder therein provided with a strainer for removing the impurities from the oil, a piston working in the cylinder, and a measuring-vessel communicating with the cylinder to receive and measure the oil, and, finally, the invention consists in the novel construction, combination, and adaptation of parts, substantially as hereinafter described and specifically claimed.

In the accompanying drawings, forming part of this specification and in which like letter of reference indicate corresponding parts, Figure 1 represents a perspective view of a tank embodying my invention. Fig. 2 represents a similar view thereof, partly broken away to disclose the interior construction and arrangement; and Figure 3 represents a sectional view of the pumping apparatus.

Referring by letter to the drawings, A designates the tank, which is constructed of suitable material, of cylindrical form, with a depression B on one side thereof. The top of the tank is formed with a depression C, and in said depression the hinged cover D is placed. The purpose for providing the depression C is to prevent oil from spilling over the outer surface of the tank.

Communicating with the bottom of the

tank is a cylinder E, in which works a piston or plunger F, having a valve G therein, and the handle or rod H of the piston extends upward through the top of the tank to be in reach of the attendant or user. In the cylinder is placed a strainer J for removing impurities or foreign matter from the oil before it enters the cylinder.

K designates a pipe leading from the cylinder to a vessel L, arranged in the depressed side of the tank, said vessel being provided with a graduated scale M and a discharge spout or cock N. In the pipe K is a valve K', which opens on the downstroke of the piston to allow the oil to pass into said pipe and closes on the upstroke of the piston to prevent the oil returning to the tank.

The operation of my invention will be readily understood from the foregoing description, taken in connection with the drawings, and is as follows: The oil is placed in the tank at the top thereof and flows into the cylinder at the bottom of the tank, the strainer in the cylinder removing foreign matter from the oil. The piston is elevated, the valve upon the elevation of the piston opens, and the oil descends to the bottom of the cylinder. The piston is then depressed, forcing the oil through the pipe to the measuring-vessel, in which the desired quantity of oil is measured and discharged by the spout or cock. The side depression in the tank receives the measuring-vessel, and the same is thereby prevented from contact with any outside object.

It is evident that I provide a simple and inexpensive tank in which any quantity of oil may be measured in a rapid and perfect manner, and by means of which the oil is rendered pure.

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

The herein-described oil-tank, consisting of the tank proper having a vertical depression in one side, the cylinder in the bottom of the tank, having its upper end perforated and a strainer in one end, a plunger in the

cylinder, having a valve therein, a pipe leading from the lower portion of the cylinder to a top of the tank, and the measuring-vessel arranged in the depression in the side of the tank and having said pipe entering it,
5 all substantially as described.

In testimony that I claim the foregoing as

my own I have hereunto affixed my signature in presence of two witnesses.

ELOF BENSON.

Witnesses:

R. S. DODD,

A. PEARSON.