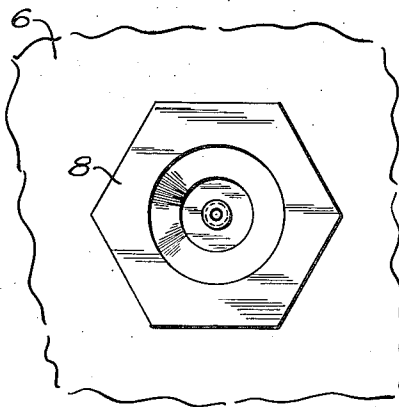
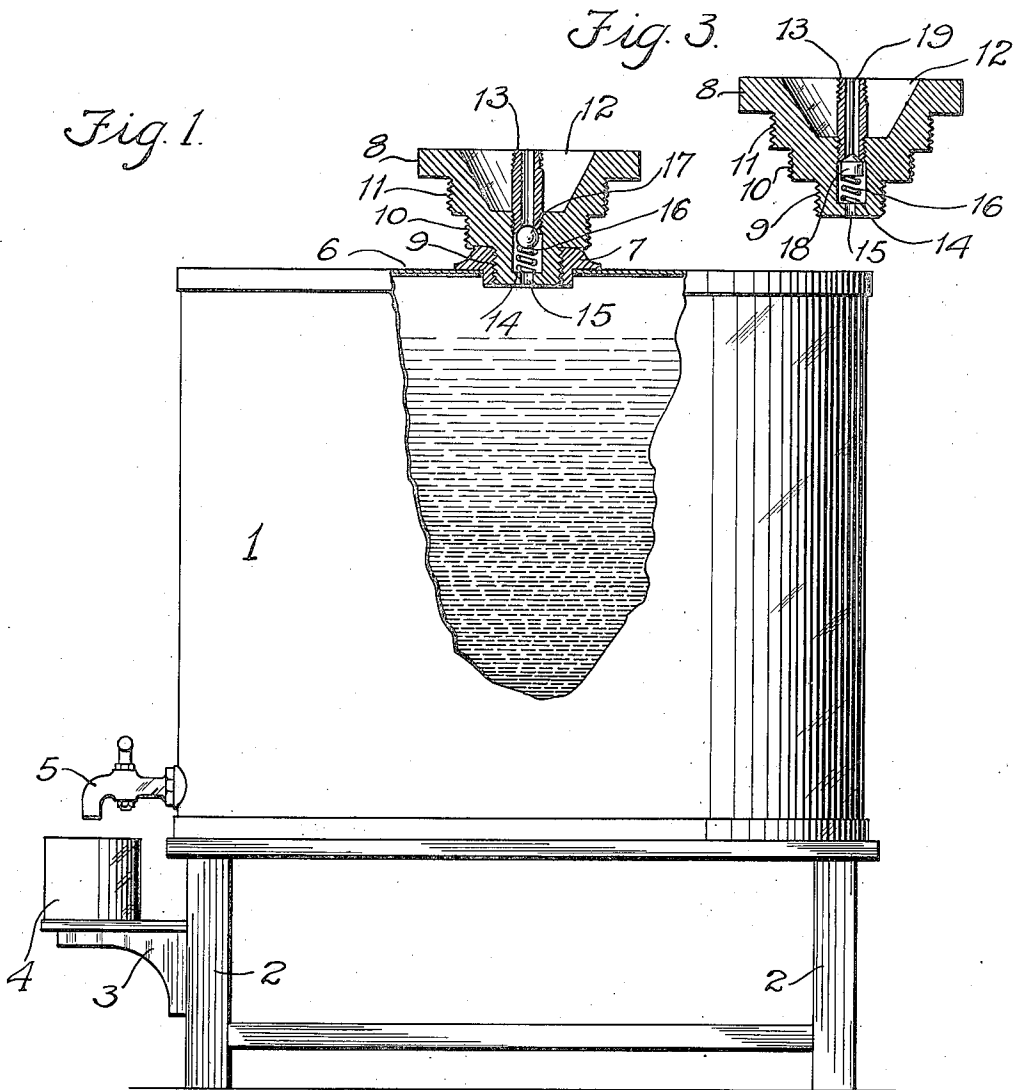


B. H. CARLILE.
VALVE OR PLUG FOR OIL CONTAINERS.
APPLICATION FILED MAY 18, 1921.

1,429,566.

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Inventor,
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UNITED STATES PATENT OFFICE.

BENNER H. CARLILE, OF INDEPENDENCE, KANSAS.

VALVE OR PLUG FOR OIL CONTAINERS.

Application filed May 18, 1921. Serial No. 470,708.

To all whom it may concern:

Be it known that I, BENNER H. CARLILE, citizen of the United States, residing at Independence, in the county of Montgomery and State of Kansas, have invented certain new and useful Improvements in Valves or Plugs for Oil Containers, of which the following is a specification.

This invention relates to plugs or valves for oil containers, and is especially designed to be fitted within openings of different diameters formed in the covers of said containers.

The prime object of the invention is to provide simple, durable, economical and efficient means provided with a plurality of diameters adapted to be fitted within openings of varying diameters formed in the covering of oil containers, to which an air pump may be readily attached for forcing air therethrough and into the container, so that air pressure is utilized in forcing the oil out of a faucet fitted to said container at the bottom portion thereof and into a suitable measuring vessel.

The foregoing and such other objects as may appear from the ensuing description are attained by the construction, arrangement, location and combination of the parts hereinafter more fully described, illustrated by the accompanying drawings and particularly set forth in the claims appended hereto, it being understood that slight changes in the precise form, proportions and minor details of the construction of the parts may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings forming a part of this specification it will be seen that:—

Figure 1 is a view showing partly in side elevation and partly in section the means embodying my invention,

Fig. 2 is a plan showing the container broken away, and

Fig. 3 is a sectional elevation showing a slightly modified form of the plug or valve removed from the container.

Similar numerals of reference are employed to designate like parts throughout the several figures of the drawings.

In carrying out my invention as illustrated the numeral 1 indicates a suitable tank or container for oil, 2 a frame or support for said tank or container, 3 a bracket

fixedly secured to the frame, 4 a measuring vessel seated upon said bracket, and 5 a suitable faucet fixedly secured to the lower or bottom portion of the container, through which the oil is adapted to flow into said measuring vessel.

To the central portion of the top or cover 6 of the container in openings of varying diameters formed therethrough is preferably fitted an internally screw-threaded collar 7, for the reception of a plug or valve 8 formed with a plurality of different diameters 9, 10 and 11, each being externally screw-threaded and adapted to be fitted to the varying diameters of the openings in the container within which the collar 7 is seated, the smallest diameter 9, being shown in Fig. 1, as fitted to the said collar.

The upper inner wall of the plug or valve is inclined downwardly and inwardly to form a chamber 12, while the upper portion of the lower inner vertical wall is screw-threaded for the reception of a small tube 13 which is also screw-threaded at its lower end for fixedly securing it to the said screw-threaded inner wall, and the upper end portion of said tube 13 is screw-threaded for detachably securing thereto a suitable air pressure hose connected to an air pump (not shown), whereby a suitable volume of air may be forced through the plug or valve and into the container above the oil surface therein, said air being utilized to exert its pressure upon the surface of the oil and thereby force the oil out of the faucet at the bottom of the container and discharge it into the measuring vessel 4, as will be readily understood.

The lower portion of the plug or valve is formed with a seat 14, having an air opening 15 therethrough, and seated upon the upper surface of said seat is one end of a coiled spring 16, the other end of said spring resting in contact with a ball valve 17, the latter being adapted to contact with a valve seat formed at the lower end of the tube 13, within the lower vertical wall of said plug or valve, so that the pressure of the air being forced by the pump through the tube 13 will unseat the ball valve and allow it to pass through the opening 15 and into the container for the purpose hereinbefore described.

As shown in the slight modification Fig. 3, the inner valve member 18 is seated in contact with the valve seat formed at the

lower end of the tube 13, and is provided with an upright stem 19 in connection with which a valve gauge may be used, if desired, to indicate the volume of air within the container.

5 It will be understood that the top portion of my improved plug or valve may be formed hexagonal, square, round or of any other desirable shape or contour adapted to
10 serve the purpose for which it is intended.

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

15 A plug or valve for oil containers, comprising a structure provided with a plurality of different diameters radially ar-

20 ranged above each other adapted to be fitted to openings of varying diameters formed in the top of the container, said structure having a seat formed at its inner lower end 20 portion with an opening therethrough, a spring resting on the upper surface of said seat, an inner vertical wall formed within said structure screw-threaded at its upper end, a tube fixedly secured to said inner wall provided with screw-threads at each end thereof, and a ball valve resting in contact with said spring and adapted to be seated in contact with the lower end of said tube.

BENNER H. CARLILE.