I. A. WEAVER.

LIQUID DISPENSING APPLIANCE.

APPLICATION FILED AUG. 3, 1918.

**1,332,276.** Patented Mar. 2, 1920.

Fig. 2.

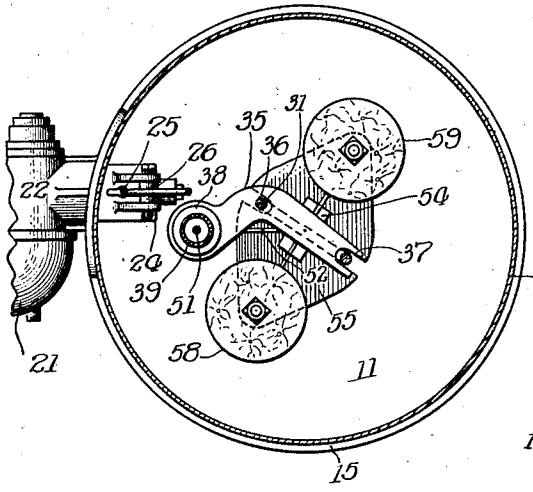



Fig. 1.

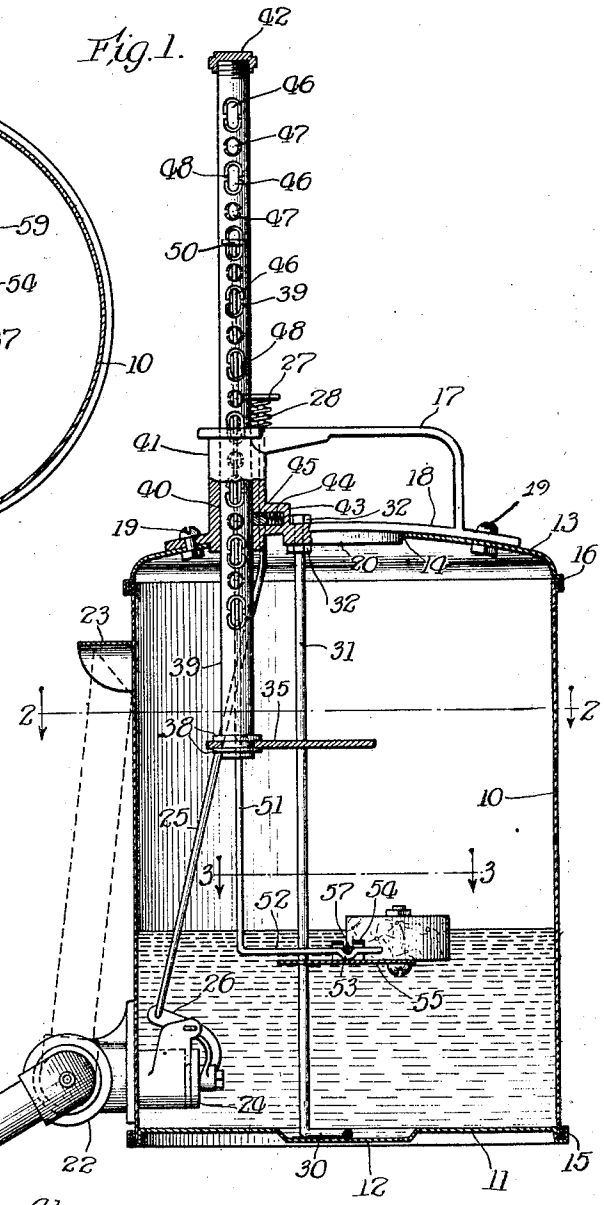



Fig. 3.

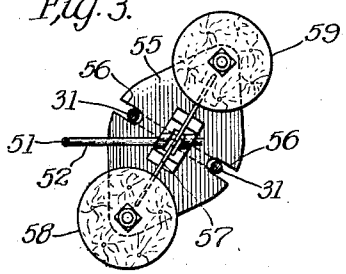
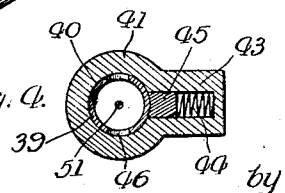



Fig. 4.




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# UNITED STATES PATENT OFFICE.

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## LIQUID-DISPENSING APPLIANCE.

1,332,276. Specification of Letters Patent. Patented Mar. 2, 1920.

Application filed August 3, 1918. Serial No. 248,181.

*To all whom it may concern:*

Be it known that I, IRA A. WEAVER, a citizen of the United States, residing at Springfield, in the county of Sangamon and State of Illinois, have invented certain new and useful Improvements in Liquid-Dispensing Appliances, of which the following is a specification.

My invention relates to certain structural and operating advantages in a novel style of liquid dispensing appliance, such as one adapted for the delivery of lubricating oil, for instance, to permit it to flow into the oil reservoir of an internal-combustion engine of an automobile. The improved apparatus combines in a single conveniently-handled unit the services of an ordinary funnel, an oil receptacle or container, and a measuring device which permits the operator to deliver directly into the engine or motor from the tank either a predetermined quantity of oil or an unknown amount easily ascertained accurately after its delivery by reason of a scale or graduated part of the apparatus. The appliance is also so constructed that the quantity of liquid remaining in the container can be readily determined. A further feature of the invention resides in various elements of novelty and improvement in the compensating float structure and its associated parts whereby a moderate tipping or tilting of the can will not appreciably or materially affect the accuracy of the device, the construction being such that the parts of the apparatus are well protected from injury. An additional object of the invention is the provision of an appliance of this character and capable of performing the beneficial functions specified which shall at the same time be simple in structure, economical to produce, effective and reliable in results, and unlikely to become damaged in ordinary service.

In order that those skilled in this art may have a full and complete understanding of the invention and its various advantages, I have illustrated in the accompanying drawings forming a part of this specification, and throughout the various views of which like reference characters refer to the same parts, a preferred and desirable embodiment of the invention:

In the drawings:

Figure 1 is a substantially-central vertical section through the apparatus;

Fig. 2 is a horizontal section on line 2—2 of Fig. 1, the parts being viewed in the direction indicated by the arrows;

Fig. 3 is a horizontal section on line 3—3 of Fig. 1; and

Fig. 4 is an enlarged, horizontal section showing the friction means coöperating with the gage-tube.

The sheet-metal container or can comprises a cylindrical body 10, a flat bottom 11, with a central circular depression 12, and an upwardly-curved top 13 having a central aperture 14 of irregular shape, the three parts being secured together in the usual way by suitable seams or joints 15 and 16. A cast-metal handle member is provided for the top composed of a handle 17 and a base 18 fastened to the top of the container 13 by small bolts 19, 19, a central round boss 20 on the bottom of the base being accommodated in the aperture 14.

At its lower portion the container or oil receptacle is equipped with a pivoted spout 21 having a valve connection (not shown in detail) with and inside of its tubular support 22 communicating with the interior of the can, whereby when the spout is turned down, as shown in full lines in Fig. 1, the valve is open, and when the spout is swung up into vertical position against the wall 10 of the can the valve is closed. A canopy or hood 23 secured to the outer face of wall 10 covers the open end of the spout when swung up into inoperative position thus shielding it from the entrance of foreign substances.

The end of member 22 inside of the can is fitted with a pivoted or hinged valve 24 adapted to establish and break communication between the interior of the receptacle and the spout, in other words, to control the discharge of the oil. Such valve is manipulated by the thumb of the person holding the can by its handle by means of a spring pressed rod 25 connected to an arm 26 of the valve and extending up through a hole in the handle base 18 and terminating in a button or head 27 on which the operator may press to open the valve, the latter closing automatically upon release of such pressure by reason of the lifting action of a coil expansion spring 28 positioned between the handle and the head of the rod.

A U-shaped wire member 30 rests on the bottom 11 in depression 12, its two, upright, parallel legs 31, 31, extending up through

and advantages. This particular embodiment of the invention is only one of many of which the invention is susceptible and should be considered merely as one desirable example of the invention put into practical form.

I claim:

1. In an appliance of the character described, the combination of a liquid container, a graduated gage-member slidingly adjustable with relation to the container, an index co-acting with said gage-member, and a liquid level control for said index, substantially as described.

2. In an appliance of the character described, the combination of a liquid container, a graduated gage-member slidingly adjustable with relation to said container, a float in said container, and an index actuated by said float adapted to travel with relation to and coöperate with the graduations of said gage-member, substantially as described.

3. In an appliance of the character described, the combination of a liquid container, a graduated tube provided with gage apertures and slidingly adjustable with relation to said container, a float in said container, and an index slidable in said tube and connected to and actuated by said float, substantially as described.

4. In an appliance of the character described, the combination of a liquid container, a graduated gage member slidingly and rotatably adjustable with relation to said container, a float in said container, and an index actuated by said float adapted to travel with relation to and coöperate with the graduations of said gage member, substantially as described.

5. In an appliance of the character described, the combination of a liquid container, an upright gage-tube provided with graduated apertures and slidingly and rotatably adjustable with relation to said container, a float in said container, and an index slidable in said tube and connected to and actuated by said float, substantially as described.

6. In an appliance of the character described, the combination of a liquid container, a graduated member, an index adapted to slide relatively to said member and coöperate with its graduations, a float in said container, and a connection between said float and index permitting the former to rock relatively to the latter, substantially as described.

7. In an appliance of the character described, the combination of a liquid container, upright guiding means in said container, a graduated member slidable relatively to said container and guided by said means, a slidable index coöperating with said member, and a float actuating said index and also guided by said means, substantially as described.

8. In an appliance of the character described, the combination of a liquid container, guiding means in said container, a support slidable on and guided by said means, a graduated member mounted on said means and rotatable relatively thereto, a slidable index coöperating with said member, and a float in said container actuating said index, substantially as described.

9. In an appliance of the character described, the combination of a liquid container, guiding means in said container, a support slidable on and guided by said means, a gage-tube provided with graduated apertures mounted on said means and rotatable relatively thereto, a slidable index cooperating with said tube, and a float actuating said index and also guided by said means, substantially as described.

10. In an appliance of the character described, the combination of a liquid container, a handle member secured to the top thereof, guiding means mounted on and depending from said member into said container, an index, and a float in said container operating said index and guided by said guiding means, substantially as described.

11. In an appliance of the character described, the combination of a liquid container, a handle member secured to the top thereof, guiding means mounted on and depending from said member into said container, a graduated gage-member slidingly adjustable with relation to said container and guided by said means, an index adapted to travel with relation to and coöperate with the graduations of said gage-member, and a float in said container operating said index and guided by said guiding means, substantially as described.

12. In an appliance of the character described, the combination of a liquid container, a handle secured to the top thereof, an index, and a float in said container operating said index and disposed diagonally of the length of said handle, substantially as described.

13. In an appliance of the character described, the combination of a liquid container, a handle secured to the top thereof, a gage-member, an index coöperating with said gage-member, a float in said container operating said index and disposed diagonally of the length of said handle, and a rocking connection between said float and index permitting the former to float on the liquid even though the container is tilted, substantially as described.

14. In an appliance of the character described, the combination of a liquid container, a pair of guide rods therein, a float in said container guided by said rods, an index actuated by said float, and a pivotal con-

nection between said index and float in the plane of said guide rods, substantially as described.

15. In an appliance of the character described, the combination of a liquid container, an apertured handle member at the top thereof, a graduated gage-tube extended through and slidably adjustable in the aperture of said handle member, an index slidable in said tube, and a float in said container actuating said index, substantially as described.

16. In an appliance of the character described, the combination of a liquid container, an apertured handle member at the top thereof, guiding means secured to said handle member and depending into said container, a support slidable on said guiding means, an adjustable graduated gage-member mounted on said support and slidable through the aperture of said handle member, an index coöperating with said gage-member, and a float in said container actuating said index, substantially as described.

17. In an appliance of the character described, the combination of a liquid container, an apertured handle member at the top thereof, guiding means secured to said handle member and depending into said container, a support slidable on said guiding means, an adjustable graduated gage-member mounted on said support and slidable through the aperture of said handle member, an index coöperating with said gage-member, and a float in said container slidable on said guiding-means and actuating said index, substantially as described.

18. In an appliance of the character described, the combination of a liquid container, an apertured handle member at the top thereof, guiding means secured to said handle member and depending into said container, a support slidable on said guiding-means, an adjustable graduated gage-member rotatably mounted on said support and slidable through the aperture of said handle member, an index coöperating with said gage-member, and a float in said container slidable on said guiding means and having a pivotal connection with the index to compensate for the tilting of the container, substantially as described.

IRA A. WEAVER.