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GREASE DISPENSER

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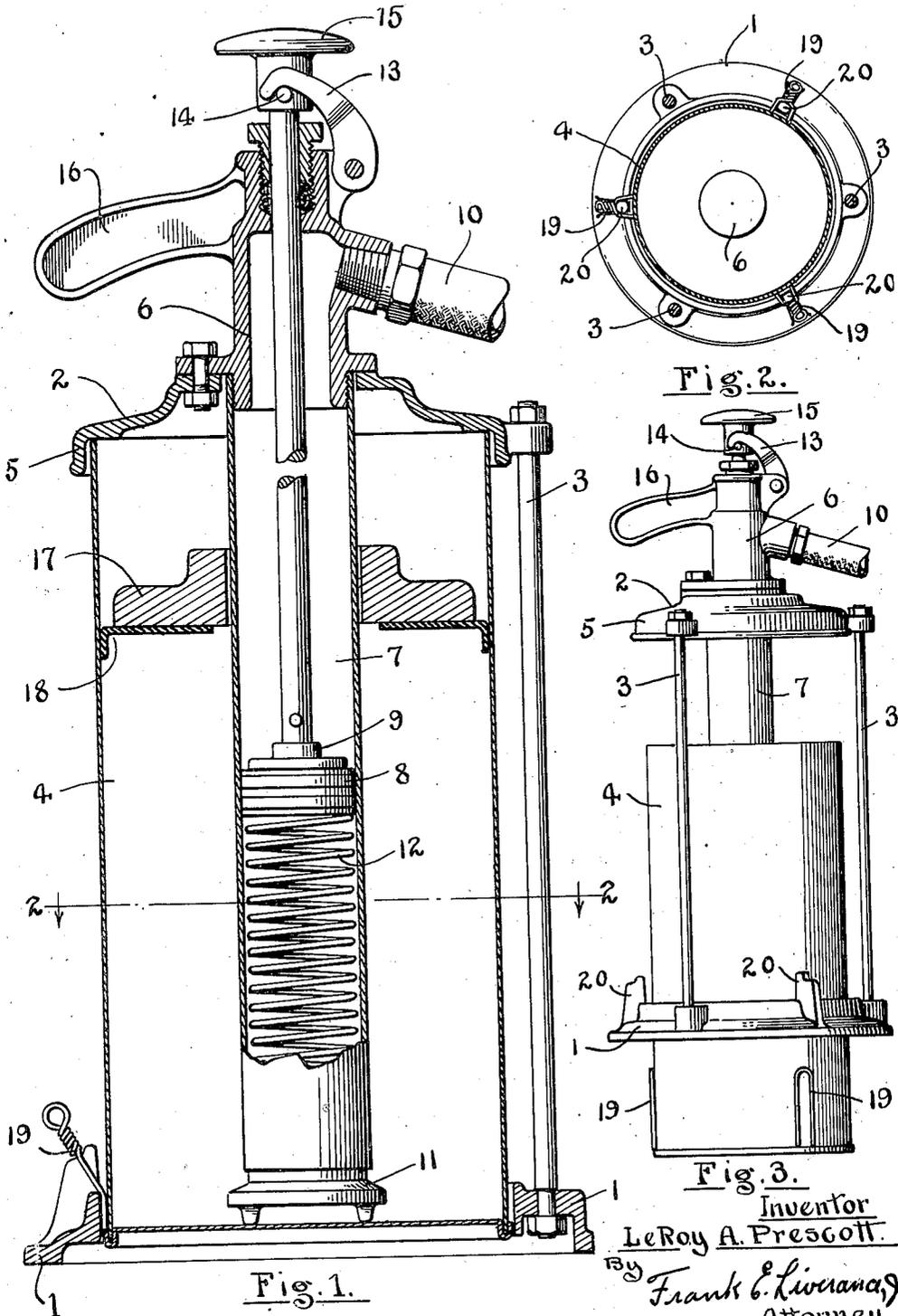


Fig. 1.

Fig. 2.

Fig. 3.

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GREASE DISPENSER.

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This invention relates to grease dispensing devices and it is more particularly directed to holders for grease containers from which the grease is dispensed in small quantities, said holder preferably including a dispensing pump by means of which the grease is drawn from the container at will.

The manufacturers of lubricants and greases desire that their particular brand of grease be sold under the name which they have given it and under which it is advertised. It is customary for the manufacturers to sell their grease to the users, principally garage operators, in cans or containers on which the label showing the trade-name of the grease and its manufacturer is prominently displayed. The manufacturers do not desire that the user shall buy from them one of their containers filled with grease and, after using its contents, refill it with other grease of a different make, thereby creating the impression that the grease they are selling is that indicated by the label on the container.

To prevent an occurrence of this kind this invention provides a holder for a special style of grease container, this holder being provided with a pump for drawing the grease from the container and the container is so secured in the holder that it may not be refilled without removing from the holder, and the means for attaching the container in the holder are such that, after the container has been once removed from the holder it is impractical and practically impossible to reattach it therein. By means of this invention it is wholly impractical to refill a container which has once been emptied to grease and use it again in the dispensing device, the only practical method being to insert and attach a fresh container of grease.

The device embodying this invention is provided with various novel features of construction and arrangement as hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawing, in which,

Fig. 1 is a vertical sectional elevation of a grease dispenser embodying this invention, showing a grease container inserted and attached thereto.

Fig. 2 is a reduced sectional plan of the same on the line 2—2 of Fig. 1, and

Fig. 3 is an elevation of the dispenser showing a grease container partially inserted therein.

Like numbers refer to like parts in the different figures of the drawing.

The holder for the grease container comprises a base 1, a cap 2 and spacing rods 3. The base 1 is of annular form, its central opening being of the proper diameter to snugly receive the grease container 4. The cap 2 is spaced above the base and supported by the rods 3 the proper distance to be engaged by the top edge of the grease container when it is inserted in the holder and its bottom preferably slightly raised above the bottom surface of the base. The cap 2 has a downturned flange 5 which surrounds the top of the grease container forming an inverted cup-like member to fit over the top of the container. The cap 2 is provided with a central aperture through which a grease dispensing pump 6 extends, said pump being permanently attached to the cap. The pump 6 comprises the usual barrel 7 and piston 8 on which is mounted a valve 9 which permits grease to pass through the piston on its down stroke and closes on the up stroke to raise the grease in the pump barrel from which it is ejected through the flexible hose 10. A foot 11 is provided at the lower end of the pump barrel on which is mounted a check valve (not shown) of ordinary suitable type which permits ingress of grease into the barrel and prevents egress therefrom. A spring 12 is preferably arranged within the pump barrel beneath the piston to automatically raise the piston, after it has been manually depressed, whereby grease will be automatically ejected through the hose 10 until the piston has reached the top of its stroke. A hook 13 is located at the top of the pump structure which will engage a pin 14 on the knob 15 to retain the piston in lowered position when it is not desired to eject grease from the device. A handle 16 is provided for the purpose of convenience in carrying the device from place to place.

For the purpose of scraping the grease from the sides of the container and insuring

the flow of the grease, which may be semi-fluid or in a plastic condition, to the bottom of the container, a false head or plunger 17 is provided surrounding the pump barrel 7 and snugly fitting the interior of the retainer. This plunger loosely surrounds the pump barrel and is preferably provided with a flexible rim 18 to engage the inner walls of the container and it may be made sufficiently heavy to move downward by gravity to carry the grease below it or a spring (not shown) may be provided above it to press it downward. The lower end of the foot 11 of the pump is preferably flanged outwardly larger than the central opening of the plunger so that it will be permanently held upon the pump barrel and will not inadvertently drop out of place when the container is removed.

The grease container is especially made of proper diameter to slip through the opening in the annular base 1 and at its lower end it is provided with a plurality of wire loops 19, three being shown, which are soldered or otherwise attached at their respective ends to the outside surface of the container, the greater portion of the loop being left unattached and normally lying closely against the surface of the container but being adapted to be bent away from the same. The base 1 is provided with a plurality of connectors 20 corresponding in number to the number of loops 19 upon the container and spaced to correspond with said loops. The upper end of the container 4 is removable so that it will receive the pump 7 and the plunger 17 when it is inserted in the dispenser.

In using this device the head or cover of the container of grease is first removed and the container is then inserted in the holder, this being most conveniently accomplished by setting the container upon the floor and lowering the holder over it, the container passing through the opening in the base 1. This opening is just large enough to permit passage of the lower end of the container when the loops 19 lie closely against the surface of the container. The container is drawn into the holder until its upper edge engages the cap 2 and the loops 19 are then bent outwardly from the container to straddle the respective connectors 20 and they are then twisted until they bear tightly against the connectors and hold the container snugly in place. The device is then ready for operation and grease is drawn therefrom by the pump 7 until the container is emptied. The container is removed by cutting the wires 19 below the portion which has been twisted and the cut ends are bent against the surface of the container and it is then permitted to drop out of the holder. It is not practical to untwist the loops for the purpose of removing the container from the holder because the wire, after having once been twisted, will be so bent and kinked out of shape that it will

not readily pass through the opening in the base 1.

It will be seen that after the loops 19 have been cut to permit removal of the container it cannot again be replaced in the holder and attached thereto. It is, therefore, impractical to refill the container with other grease and again use it in the dispenser and the only practical method of again using the dispenser is to place in it a fresh container of grease which has the proper loops for holding it in place.

Although the grease container and the dispenser have been described as being round it is obvious that the same invention equally applied to containers of other shapes, such as square or polygonal, and any limitation in terminology relating to circular or annular shape is intended to include other shapes as above mentioned.

I claim:

1. In combination, a grease container, loops on the container, a grease dispenser having an annular base and a closed cap and a grease dispensing pump, said base being adapted to receive the grease container, and connectors upon said base engaged by the loops upon the container to hold the container in the dispenser.
2. In combination, a grease container, loops on the container, a grease dispenser comprising an annular base adapted to surround a grease container, a closed cap spaced away from said base and covering the top of the grease container, a dispensing pump mounted on said cap and extending into said grease container, and connectors upon the base engaged by the loops on said container to hold the container in the dispenser.
3. In combination, a grease container having attaching loops normally lying close to its surface, a grease dispenser having an opening only large enough to receive the container when the loops lie close to the surface thereof, and connectors upon the dispenser engaged by the said loops when they are bent away from the surface of the container to hold the container in the dispenser.
4. In combination, a grease container, loops secured to said grease container at the outer sides thereof, a grease dispenser within which said container is adapted to be placed, and connectors on the dispenser engaged by the loops upon said container to retain the container in said dispenser.
5. In combination, a grease container, a grease dispenser removably received within the grease container, means on the container which may be used only once for attaching the container to the dispenser, a dispensing pump mounted on the dispenser and extending into the grease container, and a plunger surrounding said pump and slidable thereon, said plunger fitting inside of the said grease container.

6. In combination, a grease container, a grease dispenser removably received within the grease container, means on the container which may be used only once for attaching the container to the dispenser, a dispensing pump mounted on the dispenser to extend into the grease container, a plunger surrounding said pump and slidable thereon, said plunger fitting inside of said grease container, and means at the lower end of the pump to prevent removal of the plunger therefrom when the container is removed.

In testimony whereof I affix my signature.

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