

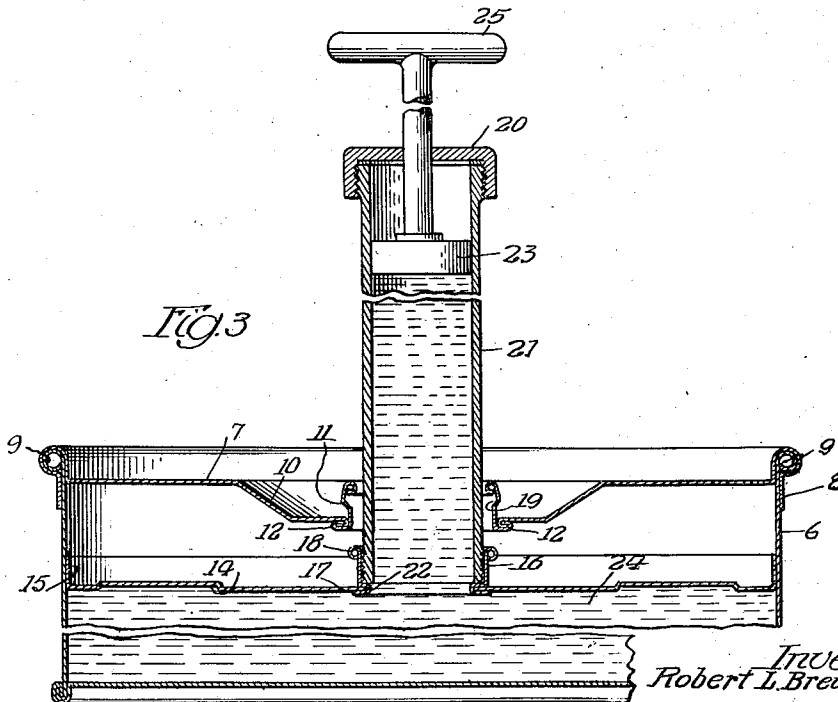
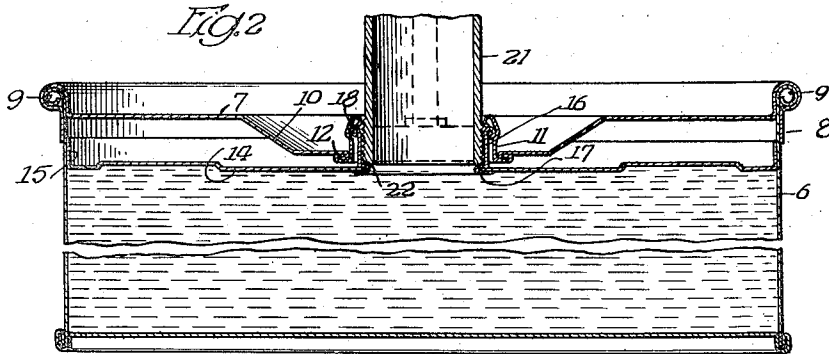
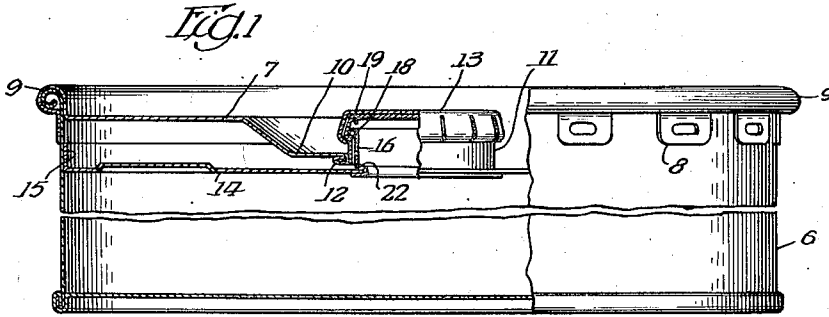
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GREASE CONTAINER

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GREASE CONTAINER

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2 Claims. (Cl. 226—125)

This invention relates to grease containers or pails particularly intended for filling grease guns.

The objects of this invention are to provide a container with simple and efficient means for forcing the grease from the container into the barrel of a grease gun; to provide a container having a follower disc or diaphragm adapted to rest on the grease and having a nozzle for receiving the end of a grease gun, whereby the gun may be used to force the follower down and to cause the grease to be discharged from the nozzle into the gun; to provide a grease pail having means for filling a grease gun, or the like, and having means for protecting the contents when the pail is not being used for filling purposes; to provide a pail having a full opening head or cover; and to provide a pail having such other advantages and improvements as will appear more fully from the following description.

In the accompanying drawing illustrating this invention,

Fig. 1 is a side view of the container with parts broken away or shown in section for convenience in illustration;

Fig. 2 is a vertical sectional view showing the pail filled with grease or the like preparatory for filling the gun; and

Fig. 3 is a longitudinal sectional view showing the grease gun in position and partly filled.

The can or container 6 is preferably made of sheet steel, and is provided with a removable top or cover 7 which may be secured in any well known manner, but preferably by means of lugs 8 which coast with the bead 9 in the usual manner. Such pails are in common use and are provided with full detachable tops of various kinds. The cover 7 has a central depression 10 in which is located a nozzle 11, which also serves in the nature of a bearing for the grease gun. This nozzle may be secured to the cover in any well known way as by double seam 12. The nozzle is provided with a cap or closure 13 preferably of the "U-Press-It" or spring type which may be protected by any well known form of seal, not shown, if desired.

A slidable disc or diaphragm 14 is mounted in the pail and is stiffened and guided by means of a peripheral flange 15 which fits closely within the inner walls of the pail. This diaphragm has a central nozzle or socket 16 which may be secured thereto in any convenient manner as by means of the seam 17, and which is provided at its upper end with a bead 18. The nozzle is of suitable length so that when the follower diaphragm 14 is in its uppermost position, it will extend up into

the first named nozzle or bearing 11 with the bead 18 fitting in the inner peripheral groove 19 in the bearing or nozzle 11. This provides a frictional or a readily separable connection between the cover and the disc or follower 14 whereby these parts may be held together. With this arrangement, the follower is held at the top of the pail when the cover is attached so that the pail may be filled through the telescoping or connected nozzles 11 and 16; or the pail may first be filled and the cover with the connected follower then placed in position and fastened.

When a grease gun as shown at 20 is to be filled, the cap or nozzle is removed from its discharge end, and the barrel 21 is inserted through the nozzle 11 into the nozzle 16 with its lower end resting on an annular ledge or abutment 22 formed by the seam 17. When the gun is thus inserted for filling, it will be seen that the upwardly projecting neck or nozzle 11 serves as a guide or bearing for directing the open end into the socket 16 and will tend to hold the gun normal to the disc. This will prevent the inadvertent tipping of the gun and will insure a sufficiently tight closure between the end and the ledge so that all of the grease will pass into the gun. Inasmuch as there are no threaded parts, the filling operation may be done rapidly, and it is not necessary to have a close fit, thus permitting considerable variation in the sizes of the barrels which may be filled from a single socket. The piston 23 of the gun is preferably moved down to its lowermost position when the barrel is inserted in filling position. The operator then pushes down on the gun which causes the diaphragm 14 to press against the grease as shown at 24, and thereupon the grease will be forced out through the nozzle 16 into the grease gun as clearly shown in Fig. 3.

During this operation, the piston 23 may be drawn upwardly by means of the handle 25 which will tend to create a vacuum in the gun and thus assist in drawing the grease into the same. After the gun has been filled, it is merely drawn out of the can and used in the regular manner. The cap 13 may then be replaced which will keep the contents of the can clean and free from dust, or the like. Ordinarily, all the grease may be withdrawn in this manner, but if any remains, or if the pail is to be used for other purposes, the cover 7 is readily removed by releasing the lugs, and the pail then provides a full open top container adapted for various uses.

Having thus described my invention, what I claim is:

1. A grease container having a cover with a cy-

lindrical bearing therein provided with an inner peripheral groove, a follower slidably mounted in the container, a nozzle extending upwardly from the follower in axial alignment with the bearing and having a peripheral bead at the upper end thereof which engages with said groove when the nozzle is in engagement with the bearing, thus providing a frictional connection between the cover and the follower.

2. A container for grease, or the like, having a cover, a nozzle projecting upwardly from the cover, a cap for said nozzle, a follower slidably

5 mounted in the container and fitting closely therein, a follower nozzle having a smooth bore and extending upwardly from the follower in axial alignment with the cover nozzle and adapted to frictionally and telescopically engage therewith to hold the follower adjacent to the cover, and an inwardly extending projection at the lower end of the follower nozzle, adapted to be engaged by the barrel of a grease gun when inserted through the cover nozzle for filling the same.

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