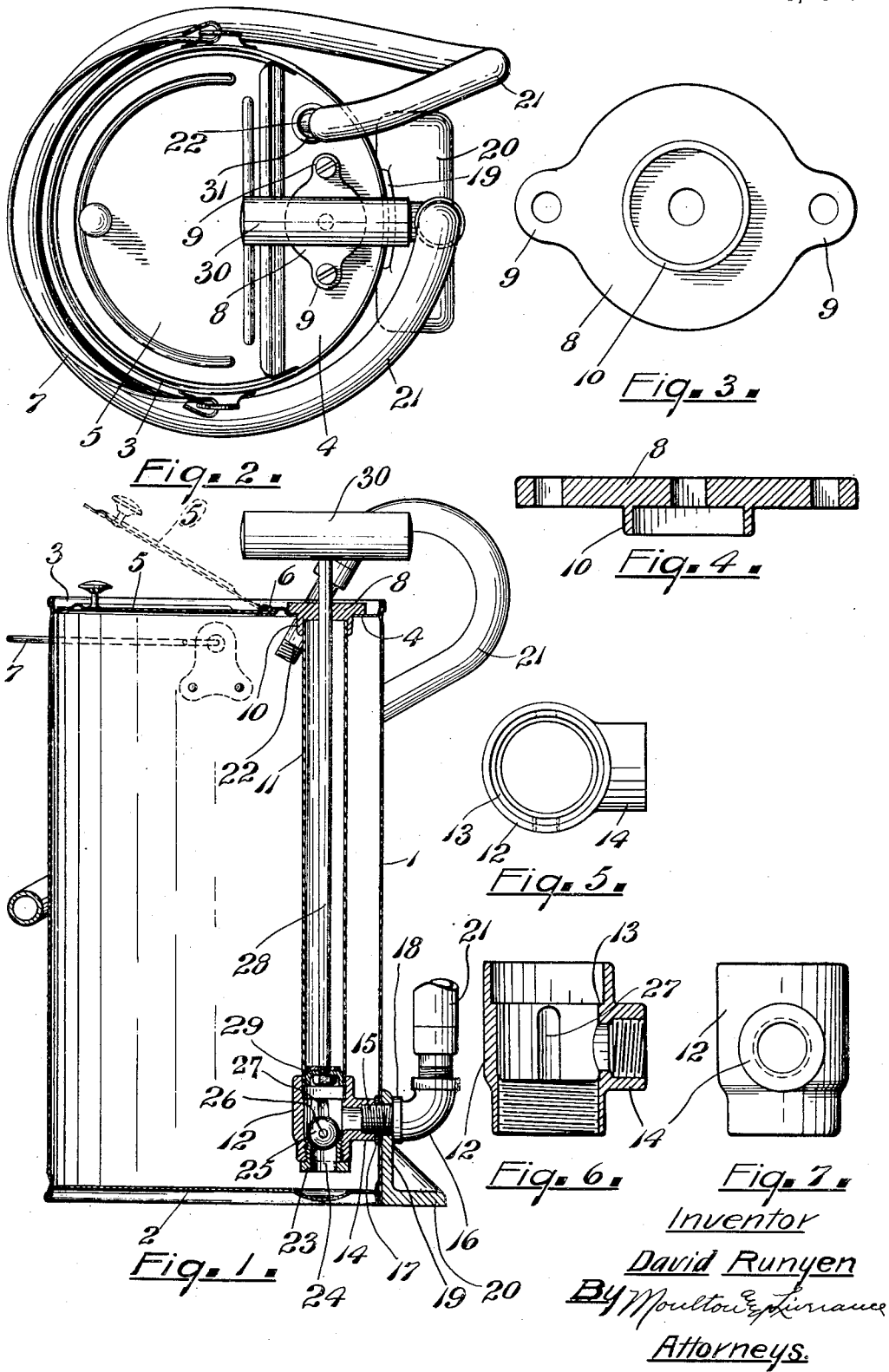


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GREASE CONTAINER AND DISPENSER.
APPLICATION FILED MAR. 31, 1917.

1,330,987.

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GREASE CONTAINER AND DISPENSER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DAVID RUNYEN, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Grease Containers and Dispensers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a grease container and dispenser for use in handling greases of more or less heavy consistency and introducing the same into grease cups or gear casings without the necessity of coming into physical contact therewith. And the invention consists in many novel features of structure and arrangement of parts whereby the container and dispenser of this character may be produced at an exceptionally low cost of manufacture, and one which is very efficient in operation and of great durability; while substantially the entire mechanism of the dispensing part of the apparatus is inclosed within the grease container.

For an understanding of the construction in which I have embodied my invention reference may be had to the accompanying drawing in which;

Figure 1 is a vertical section taken through the device.

Fig. 2 is a plan view thereof.

Fig. 3 is an under plan view and Fig. 4 is a vertical section through a detail of construction for mounting the upper end of a barrel forming one element of the dispenser.

Fig. 5 is a plan view, Fig. 6 is a vertical section, and Fig. 7 is a side view of a detail of structure at the lower end of said barrel.

Like reference characters refer to like parts throughout the several views of the drawing.

The container for the grease is preferably a cylindrical can having sides 1 and a bottom 2. A ring 3 of sheet metal is fixed to the upper edges of the can integral with which is formed a segment 4 which partly covers the upper end of the can. A cover 5 is hingedly connected at 6 to the edge of

the segment and serves to entirely close the upper end of the can, it being readily opened, as indicated in dotted outline in Fig. 1, for the entrance of grease therein. A bail 7 is connected adjacent the upper end of the can for carrying the same. A member 8 preferably formed of cast metal has oppositely extending ears 9 through which bolts or the like pass for securing it to the segment 4 there being an annular ring 10 depending from this member which passes through an opening in the segment 4 as shown. A barrel 11 seats at its upper end within the ring 10. At the lower end of the barrel a member 12 is located substantially of the construction of a T-union the upper end of which, as shown in Figs. 1 and 6, having an interior diameter slightly larger than the rest of the union whereby a shoulder is formed at 13 against which the lower end of the barrel seats. The barrel at its ends is merely entered within the ring 10 of the member 8 and in the upper end of union 12; and in practice this makes a practical and efficient connection. A projection 14 extends laterally from the member 12 and has a passageway therethrough as shown into which one end 15 of an elbow 16 threads, said elbow being located outside the can with its threaded portion 15 passing through an opening in the side thereof. A gasket 17 is located between the projection 14 and the inner side of the can and on the elbow a collar 18 is formed which bears against a vertical extension 19 of a foot member 20 located alongside and at the lower end of the can whereby by threading the part 15 into the extension 14 a complete assembly of all of these members is effected. A flexible hose 21 is attached to the outer end of the elbow and is of considerable length, terminating at its end in any suitable nozzle 22.

A plug 23 centrally bored to make a passage 24 threads into the lower end of the member 12 and serves to hold a ball valve 25 within the member. A pin 26 passes through the ball and at its ends seats in grooves 27 in opposite sides of said member 12, these grooves being closed at the upper ends to control the upward movement of the ball.

A rod 28 is located within and lengthwise of the barrel 11 at its lower end carrying a

valveless piston 29 and at its upper end passing through the casting 8 and having an operating handle 30 attached thereto.

When the device is not in use the nozzle 22 is passed through the opening 31 in the segment 4 as shown. For dispensing the grease the end of the nozzle is entered into a grease cup or through an opening in a gear casing and the pump operated by reciprocating rod 28 and attached piston 29. On the upward stroke ball 25 is raised and grease enters the barrel around the ball. On the downward stroke, the ball seats against the upper end of the plug 23 closing the passage 24 therein, whereby the grease is compelled to pass outwardly through the hose 21. By reason of the relatively small diameter of the hose and its comparatively great length any grease which is in the hose will not be drawn into the barrel on the upward stroke of the piston.

I claim:

1. In combination, a container comprising a can having sides and a bottom, a ring secured at the upper edges of the can, a segment attached to the ring and partially closing the upper end of the can, a cover hinged to said segment to complete the closure of said can, a casting secured to the segment, an annular ring on the casting extending through and below the segment, a barrel having its upper end seated within the ring, a coupling having a vertical passage therethrough in which the lower end of the barrel seats, an interiorly bored plug in the lower end of said coupling, a ball seated against the upper end of the plug, means to limit the upward movement of the ball, a lateral extension to the coupling having a passage communicating with the vertical passage in the coupling, an elbow on the outside of the can, a threaded extension thereto passing through the can and into the extension on the coupling, a foot member, a collar on the coupling bearing against said foot member and securing it against the side of the can, a flexible conduit connected to the elbow, said conduit being of comparatively small cross section and long length and a piston reciprocable in the barrel.

2. In combination, a container comprising a can, a segment partially closing the upper end of the can, a cover hinged to the seg-

ment, a casting secured to the segment, a ring depending from the casting through the segment, a barrel seating at its upper end within the ring, a coupling adjacent the lower end of the can having a vertical passage therethrough, the lower end of the barrel seating in the upper end of the coupling, a valve movably mounted in the coupling below the barrel, means to limit the upward movement of the valve, a lateral extension to the coupling having a passage therethrough communicating with the vertical passage in the coupling, a member outside the can threading into the coupling for attaching the same to the can, a flexible conduit secured to the other end of said member, a piston in the barrel, and means for operating the piston.

3. In combination, a container comprising a can, a member permanently secured to the can at its upper end, a ring depending from the member within the can, a movable cover for the can, a barrel having its upper end seated within the ring, a member located adjacent the lower end of the can in which the lower end of the barrel seats, said member having a vertical passage therethrough, a valve normally closing said passage at the lower end thereof, means to permanently connect said member to the can, said means including a member on the outside of the can passing through and having a passage-way communicating with the passage in the coupling, a flexible conduit connecting with the last mentioned member, a piston in the barrel, and means above the can for operating the piston.

4. In combination, a can, a member provided with a seat on its under side located at the upper end and within the side of the can, a barrel having its upper end received in said seat, a T-coupling secured on the inside and at the lower end of the can, the lower end of the barrel seating in the upper end of the coupling, a valve normally closing the lower end of the coupling, a piston in the barrel, means for operating the piston, and a flexible conduit on the outside of the can communicating with the coupling between the ends thereof, substantially as described.

In testimony whereof I affix my signature.
DAVID RUNYEN.