May 13, 1924. 1,493,727

T. B. BENNETT

GREASE DISPENSING APPLIANCE

Filed Oct. 9, 1920

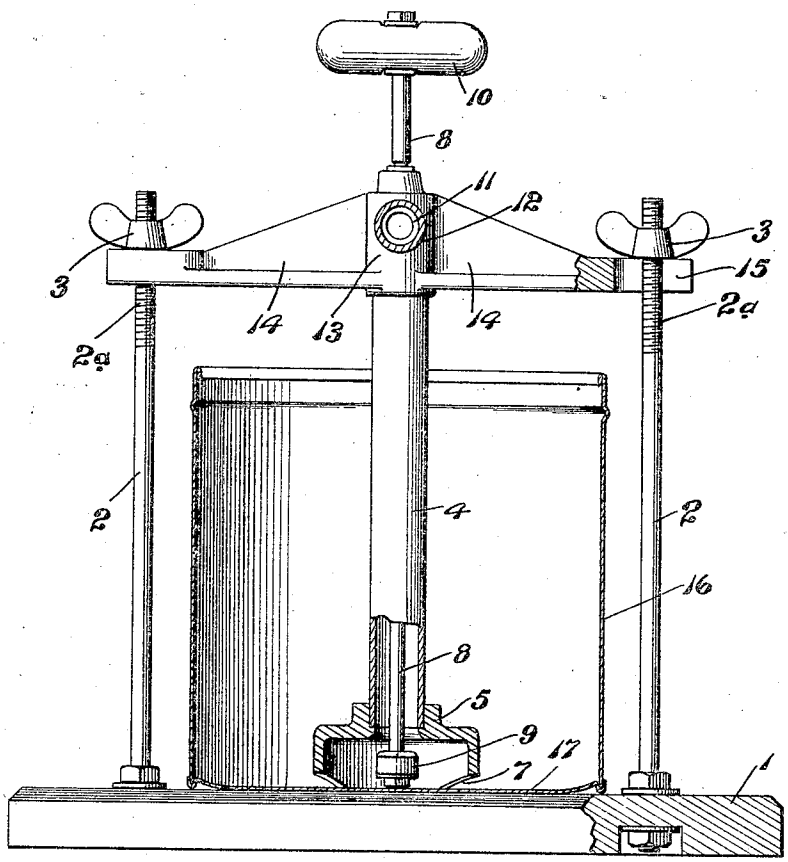


Fig. 1.

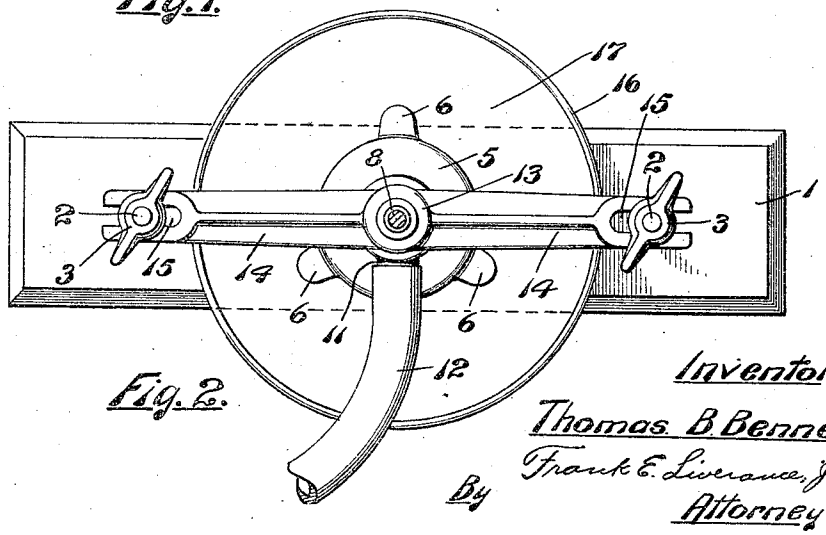


Fig. 2.

Inventor

Thomas B. Bennett

Frank E. Liverance, Jr.

By Attorney

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UNITED STATES PATENT OFFICE.

THOMAS B. BENNETT, OF MUSKEGON, MICHIGAN, ASSIGNOR TO THE BENNETT INJECTOR COMPANY, OF MUSKEGON, MICHIGAN, A CORPORATION OF DELAWARE.

GREASE-DISPENSING APPLIANCE.

Application filed October 9, 1920. Serial No. 415,855.

To all whom it may concern:

Be it known that I, THOMAS B. BENNETT, a citizen of the United States of America, residing at Muskegon, in the county of Muskegon and State of Michigan, have invented certain new and useful Improvements in Grease-Dispensing Appliance; 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 grease dispensing appliances. Grease, in many cases, is shipped in cans or similar receptacles which hold a limited amount, varying from five to fifty pounds in a can usually, and my invention is directed to an appliance which may be applied to the can, irrespective of the size thereof or the amount of grease therein, and used to withdraw the grease and dispense it to any desired place of usage. It is a primary object and purpose of the present invention to construct an appliance of this character which will attain the above described ends in a simple and effective manner. A further object of the invention is to construct the appliance so that it will hold the can or similar receptacle containing grease and secure it against movement with respect to the appliance when in association therewith, but have means whereby it may be readily detached from the can when the grease therein has been withdrawn so that it may be used with another can or similar receptacle. Many other objects and purposes than those specifically enumerated will appear as understanding of the invention is had from the following description, taken in connection with the accompanying drawing, in which.

Fig. 1 is an elevation of the appliance, parts thereof being shown in section, the same being shown applied to a grease holding can which appears in vertical section, and

Fig. 2 is a plan thereof, the handle of the grease dispensing appliance being removed.

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

In the construction of the appliance, a base 1 of rectangular outline and of wood, preferably, is used, from which, adjacent each end a rod 2 projects upwardly, the same being securely fastened at their lower ends to the base. At the upper parts, the rods are threaded, as indicated at 2^a so as to receive wing nuts 3.

Included in the construction of the grease dispensing appliance is a barrel 4 to which an inverted cup-like member 5 is secured at its lower end, the inner diameter of the member 5 being larger than the inner diameter of the barrel. Member 5 is of cast metal, and is formed at its lower edges with a plurality of outstanding feet 6, the lower sides of which are in the same horizontal plane. Between the feet 6, recesses 7 are cut in the sides of the member 5 as shown.

A rod 8 extends through the barrel and above the upper end thereof. A valveless piston 9 is attached to the lower end of rod 8 and an operating handle 10 at the upper end whereby said rod and attached piston may be moved up and down in the barrel. In the lowermost position of the piston it comes below the lower end of the barrel and into the space within the member 5, leaving a space for the passage of grease into the barrel at the lower end and by the piston.

A casting 13 is secured to the barrel adjacent its upper end from which two arms 14 extend in opposite directions, each at its outer end being slotted as indicated at 15. The arms are of such length that the rods 2 may pass upwardly through the slots 15, and the slots 15 are cut deep enough into the ends of the arms that the barrel with attached member 13 may be readily applied to the rods 2 without entirely removing the nuts 3 which are adapted to be turned downwardly against the ends of arms 14.

A can or similar receptacle 16 having a bottom 17 is placed on the base 1, in the use of the appliance, said can being filled wholly or partly with grease. These cans as they come from the manufacturer or distributer are filled with grease and in such case the top is removed and the barrel with attached member 5 forced downwardly through the grease until the feet 6 bear against the bottom 17 of the can. The arms 14 are then engaged with rods 2, after which nuts 3 are tightened against said arms clamping the bottom 17 of the can between the member 5 and the base 1. In forcing the barrel into the grease, the piston 9 may be held in lowermost position and grease carried and forced into the barrel as is evident. On the upstroke of the piston, this grease is carried

upwardly and forced out through the outlet neck 11 formed at the upper end of the barrel and into a flexible conduit 12, usually rubber tubing. With succeeding strokes of the piston, the grease is drawn through the passages 7 made in the sides of member 5 past the piston 9 when it is in its lowermost position and into the barrel by suction, the dispensing pump consisting of the barrel, piston and attached parts working on the principle shown in Patent No. 1,337,629, issued April 20, 1920.

The construction shown and described is very practical as it may be used with substantially all of the smaller containers for grease to remove the same therefrom without the one using the appliance coming into contact with the grease and without waste thereof. Cans containing from five to fifty pounds of grease can be readily emptied with this appliance and this without in any way injuring or altering the can. The invention is simple of embodiment and may be made and sold at comparatively low cost. The appended claims define the invention and I consider myself entitled to all forms of structure coming within the scope of such claims.

I claim:

1. An appliance of the character described, comprising a base adapted to support a grease containing receptacle, a rod attached to the base adjacent each end thereof and extending upwardly therefrom, said rods being threaded at their upper ends, a barrel adapted to enter the receptacle from above, a member attached substantially at its middle to the barrel at its upper end and having oppositely extending arms slotted at their outer ends for the passage of the upper portions of said rods, nuts threaded on to the rods against the upper sides of said arms, an inverted cup-like member attached to the lower end of the barrel and having recesses cut in the sides thereof and adapted to engage the bottom of the receptacle, a rod located lengthwise of the barrel and extending above the barrel, a valveless piston on the lower end of the rod adapted to come below the barrel in lowermost position, an operating handle on the upper end of the rod, an outlet neck at the upper end of the barrel, and a flexible conduit attached to said neck, substantially as described.

2. An appliance of the character described, comprising a base, a rod attached to the base adjacent each end thereof and extending upwardly therefrom, a grease dispensing barrel adapted to be located vertically between the rods, a member attached substantially at its middle to the barrel adjacent the upper end thereof and having oppositely extending arms slotted at their outer ends for the passage of the rods, means on the rods engaging against the ends of the arms and adjustable to bear against the arms and force the lower end of the barrel against the bottom of the receptacle to clamp it to the base, and means mounted on the barrel for withdrawing grease from a receptacle carried on the base and into which the lower portion of the barrel inserts, and for discharging said grease from the upper end of the barrel.

3. An appliance of the character described, comprising a support on which a grease containing receptacle may be placed, a grease dispenser adapted to enter the receptacle from above and operable to remove the grease from the receptacle, and means for detachably connecting said dispenser to the support and for forcing said dispenser against the bottom of the receptacle, substantially as described.

4. An appliance of the character described comprising a base to support a grease containing receptacle, a grease dispenser having an inverted cup-like lower end adapted to enter the receptacle, and means for detachably connecting said dispenser to the base and for forcing the cup-like lower end against the bottom of the receptacle to clamp the receptacle to the base.

In testimony whereof I affix my signature.

THOMAS B. BENNETT.