Oct. 9, 1928. 1,687,014

F. D. GATCHELL

APPARATUS FOR DISPENSING LUBRICANTS

Filed June 16, 1926 2 Sheets-Sheet 1

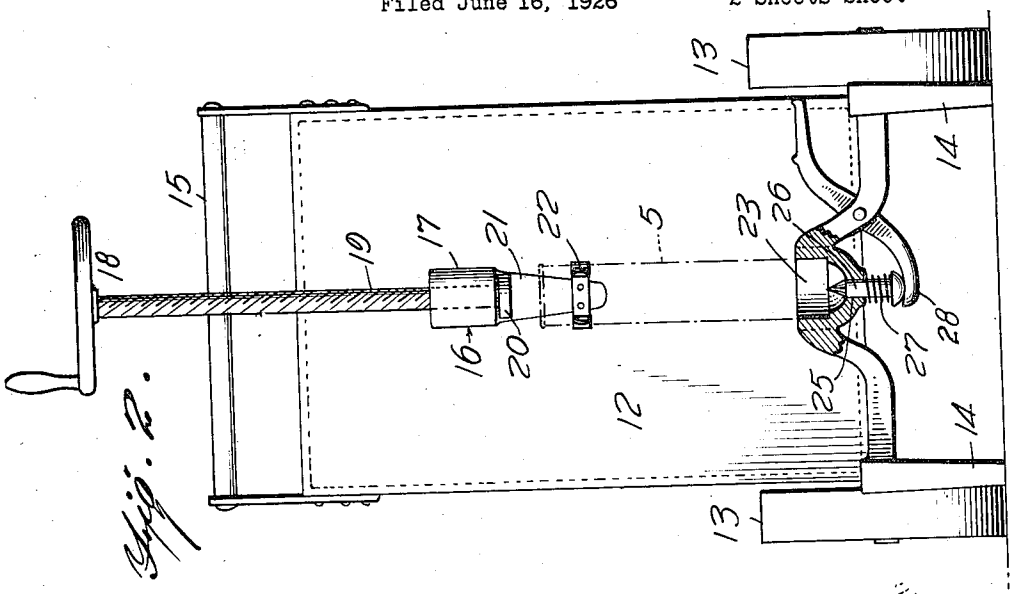


Fig. 2.

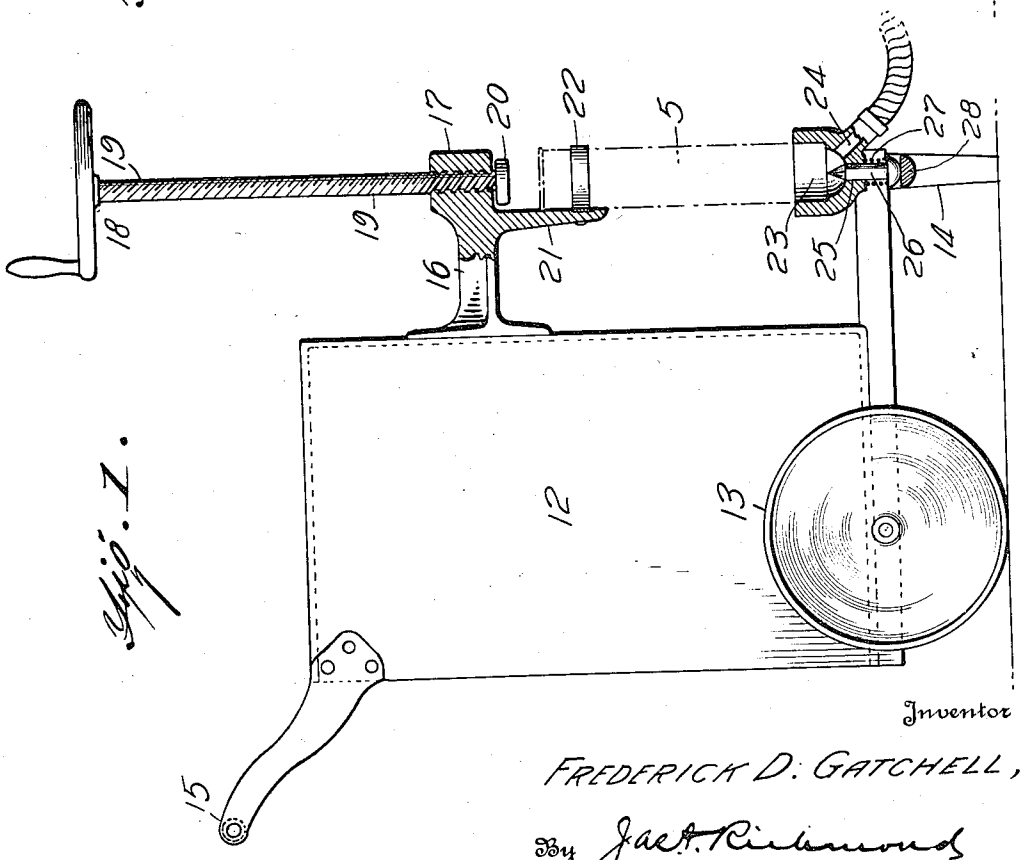


Fig. 1.

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Fig. 3.

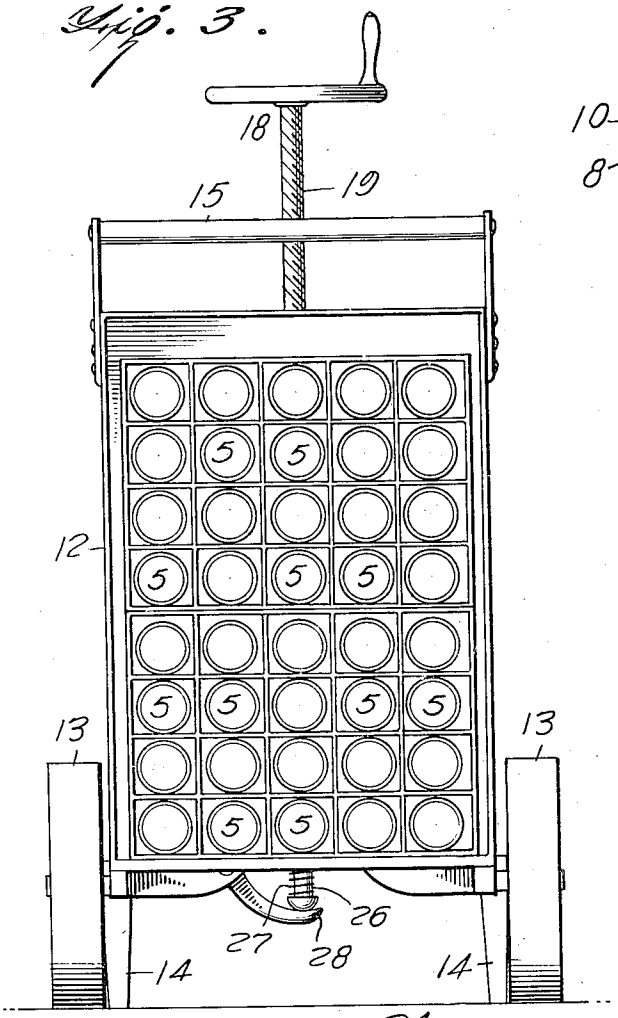
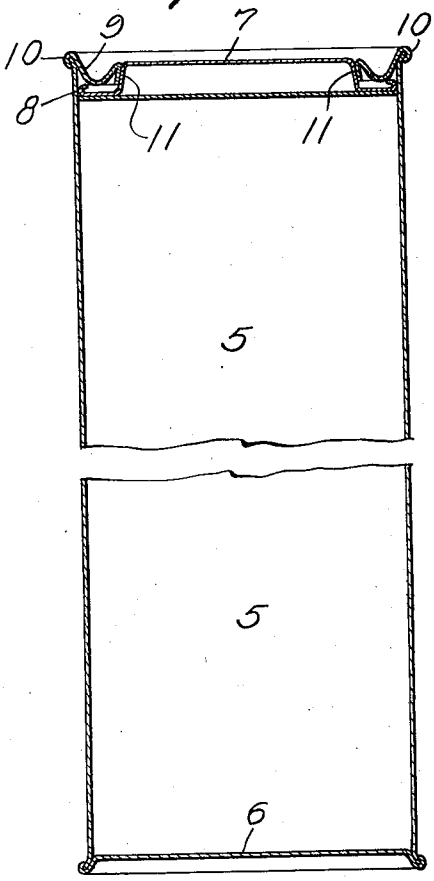


Fig. 5.



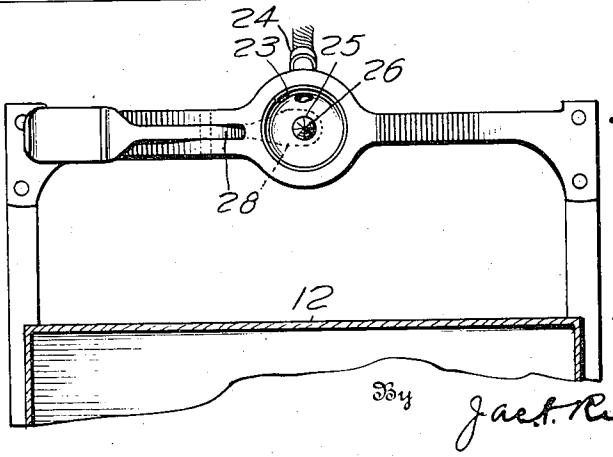


Fig. 4.

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Patented Oct. 9, 1928. 1,687,014

UNITED STATES PATENT OFFICE.

FREDERICK D. GATCHELL, OF NEW YORK, N. Y.

APPARATUS FOR DISPENSING LUBRICANTS.

Application filed June 16, 1926. Serial No. 116,433.

Objects of the invention are to provide a simple and efficient apparatus for dispensing lubricant; to provide an apparatus which shall be low in first cost and in cost of maintenance; to provide an apparatus adapted and arranged for dispensing grease or lubricant from original packages; to provide a mobile truck or portable element adapted and arranged for the carriage of a plurality of original packages, and also for the support and carriage of means for cooperation with individual packages to dispense the contents thereof; and to provide a special form of package for cooperation with the dispensing means.

The nature, characteristic features and scope of the invention will more readily be understood from the following description taken in connection with the accompanying drawings, forming part hereof, wherein

Figure 1 is a side elevational view, partly in section, of apparatus embodying my improvements.

Fig. 2 is a front view thereof.

Fig. 3 is a rear view thereof.

Fig. 4 is a detail of the piercing element.

Fig. 5 is a longitudinal sectional view of an original package or cartridge.

According to my invention, I provide original packages or cartridges of lubricant each in the form of a cylindrical container or can 5, having a fixed bottom 6, and a friction seal or closure. The latter embodies an inverted cupped plug 7 whose rolled flange 8 snugly fits the inner wall of the container; and a ring or collar 9 whereof the outer wall 10 has beaded engagement with the end wall of the container and whereof the inner wall 11 frictionally engages the cup of the plug.

In further accordance with my invention, I provide a cabinet 12 having ground supports comprising wheels 13 and legs 14. Through the medium of the handle bar 15, the cabinet may be tilted to raise the legs and so be moved from place to place.

The front wall of the cabinet is provided with a bracket 16, having a boss extension 17 wherein is mounted a cranked spindle 18 having a quick acting thread 19, and terminating in a pusher 20. The bracket has a depending arm 21 equipped with a clip 22.

The bottom frame of the cabinet is formed or provided with a socket 23 to support the package of lubricant in upright position. The socket has a nozzle extension 24 for attachment of a lubricating line or hose, and a central aperture 25 wherein is mounted a piercing element 26, which may be operated against the resistance of a spring 27 by a pivotal foot lever 28.

In practice, a cartridge 5 is removed from the cabinet and centered by means of the socket 23 and clip 22. Depression of the lever 28 causes the element 26 to puncture the bottom of the can and open the latter to the line. Proper rotation of the spindle 18 advances the pusher 20 and causes the latter to engage and shift the plug 7, which, functioning like a piston, operates to discharge the lubricant into the line connection.

Having described my invention, I claim—

Apparatus for dispensing grease from original containers, comprising, in combination, a main support, auxiliary supports for receiving a grease container and centering it with relation to devices for operating on it, one of said auxiliary supports being a cup shape element constituting a discharge nozzle for the container, a spring retracted device operatively mounted in said cup shape element for piercing the container, means for operating said device, and means operatively mounted in the other auxiliary support for forcing the grease towards the nozzle.

In testimony whereof I affix my signature.

FREDERICK D. GATCHELL.