July 12, 1932. W. J. PENKA 1,867,468

GREASE GUN FILLER

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Fig. 1

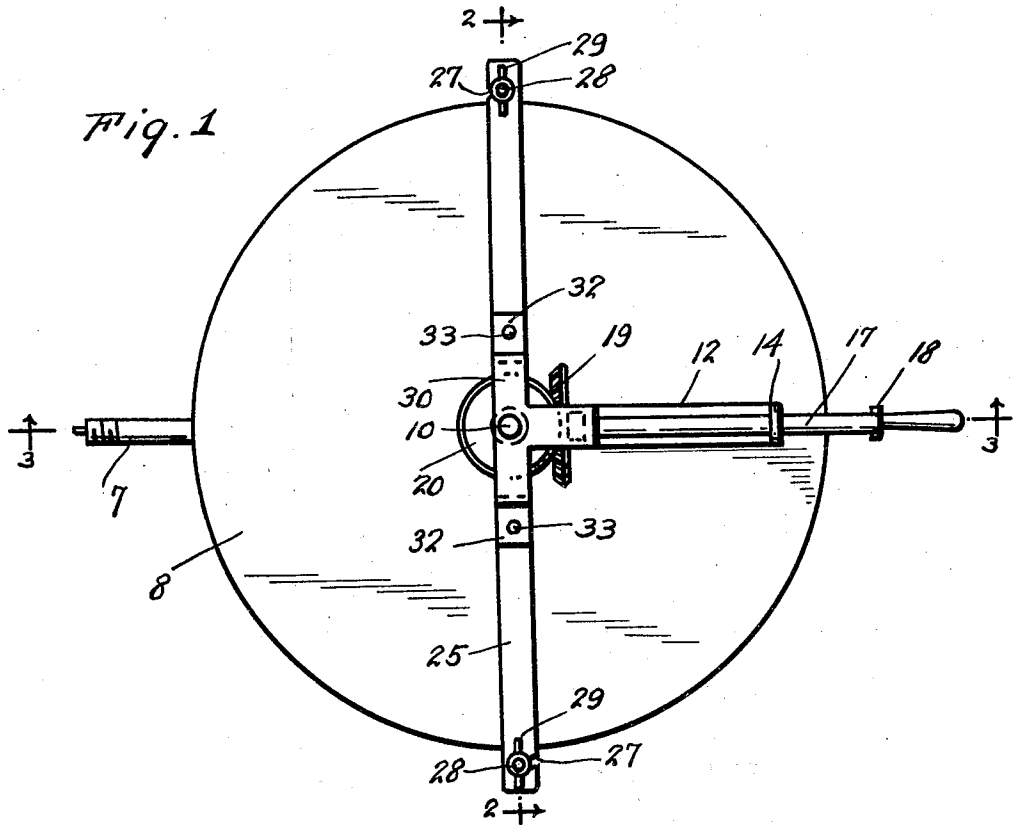
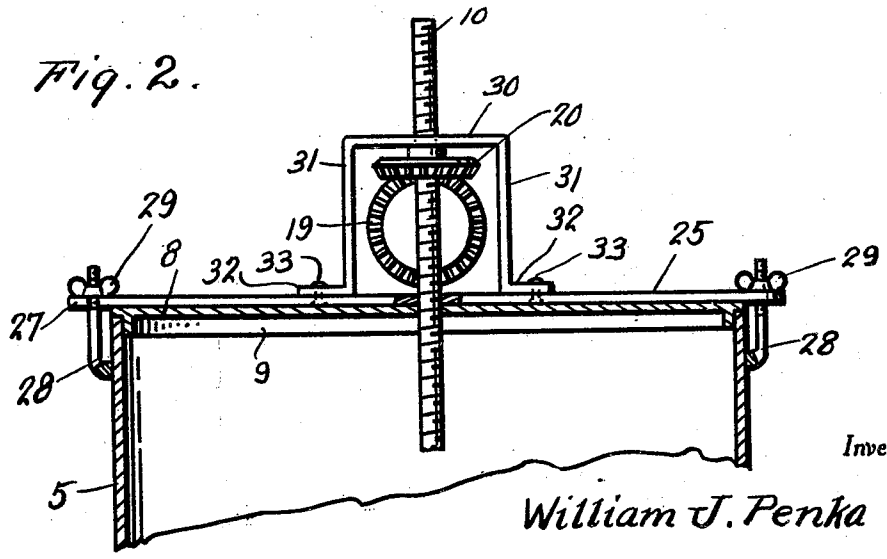


Fig. 2.



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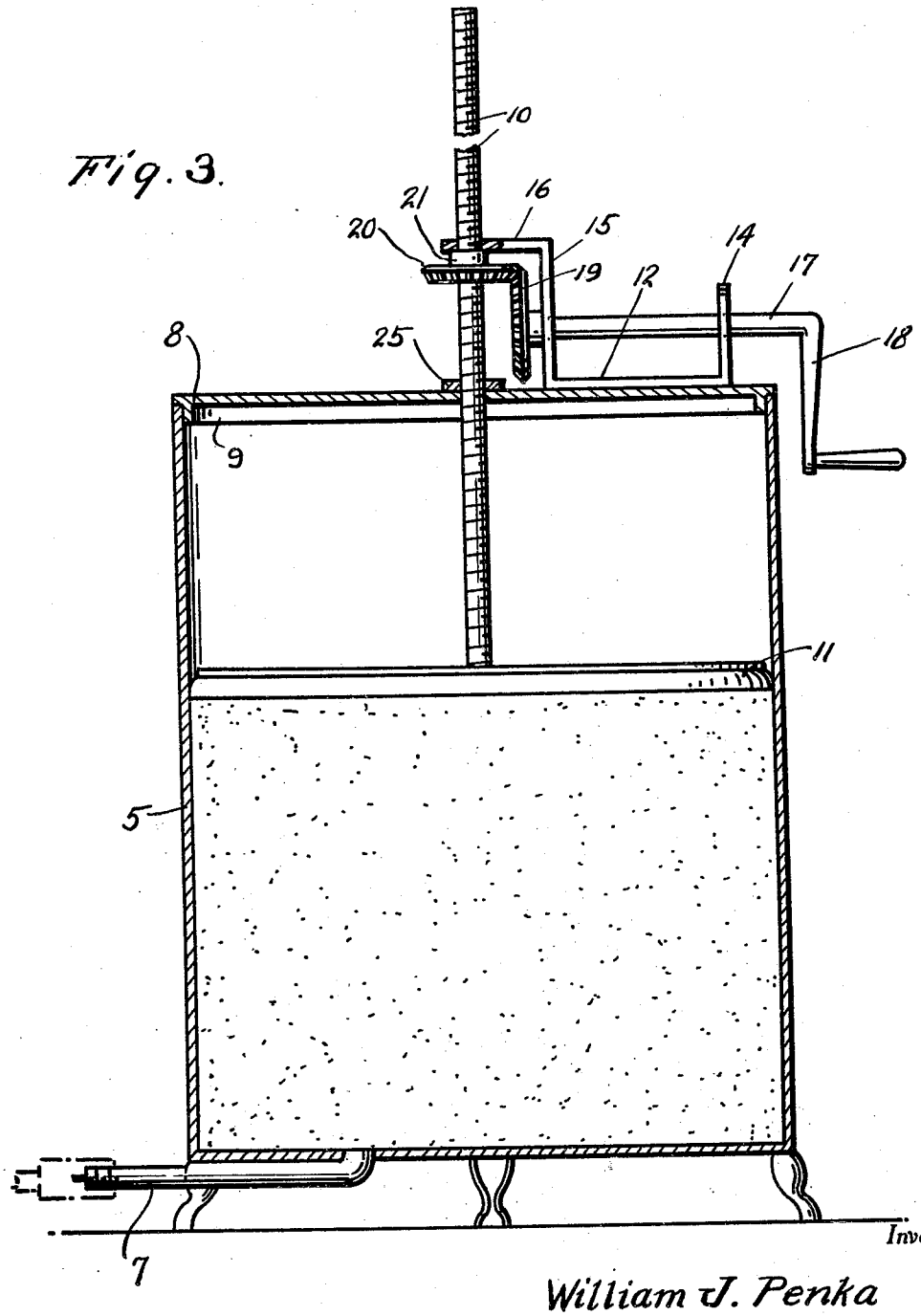
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Fig. 3.



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Patented July 12, 1932

1,867,468

UNITED STATES PATENT OFFICE

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GREASE GUN FILLER

Application filed October 2, 1931. Serial No. 566,557.

The present invention relates to a grease gun filler or packer and has for its prime object to provide means whereby grease guns may be filled with the grease solid and compact therein thus eliminating all air pockets.

Another very important object of the invention resides in the provision of a filler of this nature which saves time and eliminates greasy hands and waste of grease.

Another very important object of the invention resides in the provision of a grease gun filler of this nature which is exceedingly simple in its construction, inexpensive to manufacture, strong and durable, thoroughly efficient and reliable in use, easy to manipulate and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawings:

Figure 1 is a top plan view of the grease gun filler embodying the features of my invention.

Figure 2 is a fragmentary section taken substantially on the line 2—2 of Figure 1, and

Figure 3 is a vertical section taken substantially on the line 3—3 of Figure 1.

Referring to the drawings in detail it will be seen that the numeral 5 denotes a cylindrical container, the top of which is open. An outlet pipe 7 leads from an opening in the bottom of the container 5. Numeral 8 denotes a lid having an annular depending flange 9 telescoped inside the open upper end of the container 5.

A central opening is provided in the lid 8 through which projects a threaded shaft 10 on the bottom or inner end of which is a follower or piston 11 to force grease from the container through the outlet pipe 7. A U-shaped bracket 12 has its cross portion mounted radially on the lid 8 and has upstanding legs 14 and 15. The leg 15 is provided with an outwardly directed right angle extension 16 terminating in an opening through which the shaft 10 extends. A shaft 17 is journalled through the legs 14 and 15 and on its outer end is provided with a hand crank 18. On its inner end there is mounted a bevel gear 19 meshing with a bevel gear 20, the hub 21 of which is threaded on the shaft 19 and is adapted to bear against the extension 16.

Obviously by turning the crank the piston 11 may be forced downwardly to expel the grease from the container. A bar 25 is mounted diametrically across the lid 8 at right angles to the cross portion of the bracket 12 and has a central opening through which the shaft extends. The ends are notched as at 27 to receive bolts 28 swingable on the container to engage in the notches and having thumb nuts 29 threaded thereon. The extension 16 at its end is provided with oppositely disposed extensions 30 merging into depending extensions 31 which in turn merge into outwardly directed ears 32 riveted or otherwise secured as at 33 to the bar 25.

It is thought that the construction, operation, utility and advantages of this invention will now be quite apparent to those skilled in this art without a more detailed description thereof.

The present embodiment of the invention has been described in considerable detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

1. In combination, a container, a lid for the container, an apparatus on the lid comprising a diametrically extending bar with a central opening, a U-shaped bracket having a cross portion in the same plane with and at right angles to the bar and having upstanding legs, one of the legs having a right angular extension formed with an opening

and merging into extensions in the same plane therewith and at right angles thereto and merging into depending extensions fixed to the bar, the first mentioned extension having an opening registering with the opening in the bar, a threaded shaft extending through the openings, a beveled gear having a hub threaded on the shaft under the first mentioned extension, a shaft journalled through the legs and having a beveled gear on the inner end for meshing with the first mentioned beveled gear, and a follower on the inner or bottom end of the shaft, and means for engaging the ends of the bar with the container.

2. In combination, a container, a lid for the container, an apparatus on the lid comprising a diametrically extending bar with a central opening, a U-shaped bracket having a cross portion in the same plane with and at right angles to the bar and having upstanding legs, one of the legs having a right angular extension merging into extensions in the same plane therewith and at right angles thereto and merging into depending extensions fixed to the bars, the first mentioned extension having an opening registering with the opening in the bar, a threaded shaft extending through the openings, a beveled gear having a hub threaded on the shaft under the first mentioned extension, a shaft journalled through the legs and having a beveled gear on the inner end for meshing with the first mentioned beveled gear, and a follower on the inner or bottom end of the shaft, and means for engaging the ends of the bar with the container, bolts on the container extending through notches in the ends of the bar and nuts on the bolts.

In testimony whereof I affix my signature.

WILLIAM J. PENKA.