L. W. GREIN.

GREASE CUP TOOL.

APPLICATION FILED JULY 18, 1921.

1,415,440. Patented May 9, 1922.

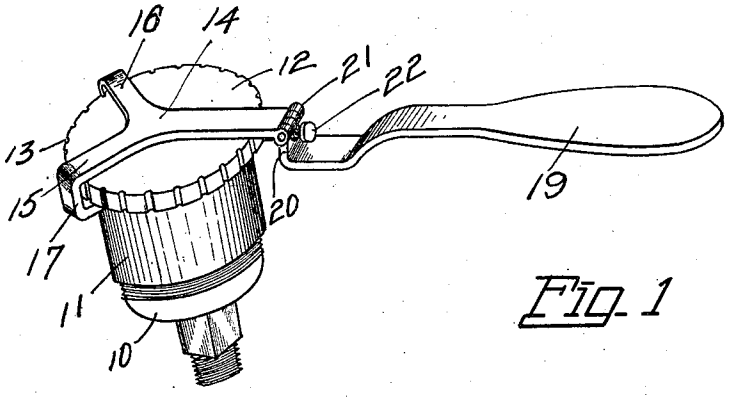


Fig. 1

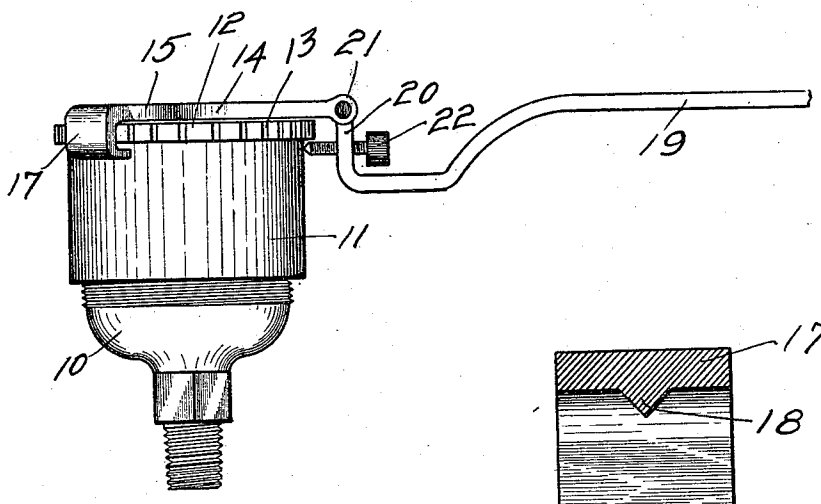


Fig. 2

Fig. 3

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GREASE-CUP TOOL.

1,415,440. Specification of Letters Patent. Patented May 9, 1922.

Application filed July 18, 1921. Serial No. 485,573.

To all whom it may concern:

Be it known that I, LEONARD W. GREIN, a citizen of the United States, residing at Cheney, in the county of Spokane and State of Washington, have invented certain new and useful Improvements in Grease-Cup Tools, of which the following is a full, clear, and exact description.

This invention relates to a tool for tightening up grease cups for forcing the grease into the bearings, the tool being particularly designed to be used in connection with farming machinery.

The machines of this class are generally equipped with grease cups of rather large diameter, which, however, are often inaccessible, due to their being placed on some inner part of the machine, as for instance, the inner tread bearing of a tractor. While they may be reached, they are of such size that it is frequently impossible to turn them up to drive the grease from the cup, and it is for this purpose, therefore, that the tool herein described has been invented.

Other objects and advantages of the device will become apparent from the following description, reference being had to the accompanying drawings, wherein

Fig. 1 is a view in perspective of a grease cup with the tool applied thereto.

Fig. 2 is a side elevation of the applied tool and grease cup, and

Fig. 3 is a cross section through one of the hooks that engages the rim of the grease cup cap.

In the drawing, 10 designates the grease cup and 11, the grease cup cap, which engages over the threads of the cup when turned to expel grease therefrom. The cap is provided with a flange or rim 12 which is knurled or notched about the edge as shown at 13.

The tool for turning the cap consists of a wrench portion for engaging the cap and a handle for positioning the wrench in place preparatory to turning the cap. The wrench is embodied in a flat body portion or shank 14 adapted to be placed across the top of the cap and terminating at one end in the verging arms 15 and 16. Each arm has a hook 17 provided at its outer terminal to engage over the rim of cap 11. On an inner face of each hook suitable gripping means are provided, which may be a sharp pointed lug or spur 18 so disposed as to enter a notch or knurled portion on the edge of rim 12 and thus enable the wrench to firmly grip the cap.

The wrench is adapted to be conveniently placed over or hooked on to the cap by means of the handle 19, which is provided with an upturned end 20 hingedly connected to shank of the wrench as shown at 21 and providing a bearing for an adjustable set screw 22. The point of the screw is adapted to bear against the side of cap 11, when the handle is lowered as shown in Fig. 2 and serves as a fulcrum for the handle when the latter is pressed downwardly to draw the hooks 17 tight against the rim 12. The said screw is centered against the cap by the engagement of the hooks with the rim and may be readily adjusted to attain the desired gripping pressure. To facilitate placing the tool in position with one hand the hinge is made stiff and the handle will, when used, have a downward pressure placed thereon so that the tool will tightly grip the cap to turn it.

Having thus described the invention, what I claim is:

1. A wrench comprising diverging arms and L-shaped hooks at the ends of said arms to engage under a flange, a handle having a hinge joint extending transversely of the longitudinal axis of the wrench, said handle having a bent portion adjacent the hinge-joint, and a screw passed through said bent portion adapted to form a fulcrum point for co-action with said L-shaped hooks.

2. A wrench comprising a body portion and spaced arms, hooks at the ends of said arms to engage a flange, a handle having a bend therein and hinged to said body portion, and a fulcrum screw adjustable in said bend and in normal operative position lying in the plane of the body portion of the wrench.

3. A wrench comprising a body portion and diverging arms having L-shaped end hooks, lugs on said hooks adapted to engage a notched surface, a handle having a bend therein and hinged to said body portion, and a fulcrum screw adjustable in said bend and adapted to lie in a plane parallel with said body portion for co-action with said hooks.

In testimony whereof I affix my signature.

LEONARD W. GREIN.