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H. J. MURPHY

DETACHABLE HANDLE FOR LUBRICATING APPARATUS

Filed Nov. 18, 1924

Fig. 1.

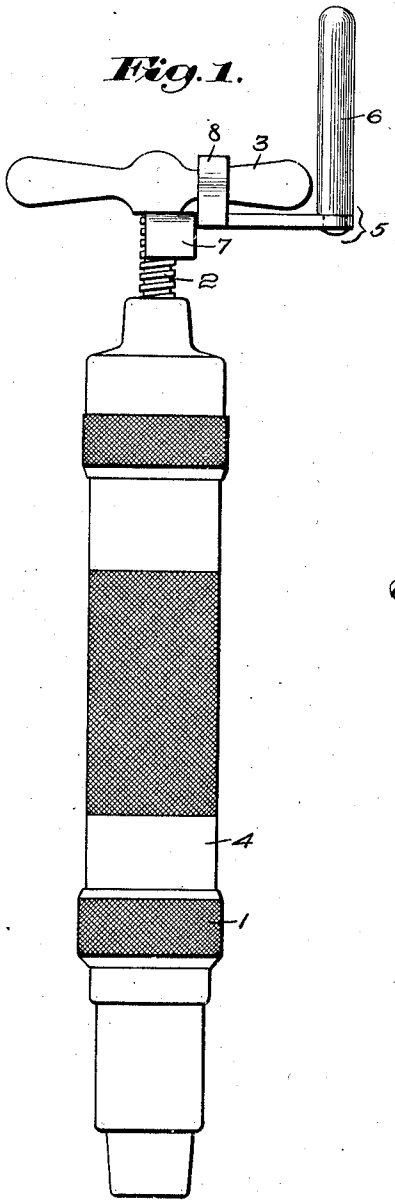



Fig. 2.

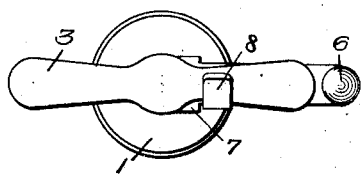
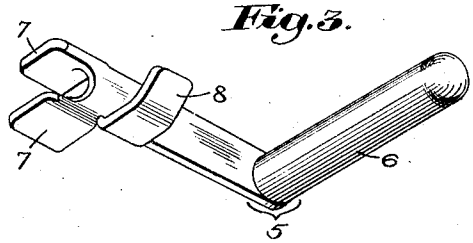



Fig. 3.

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# UNITED STATES PATENT OFFICE.

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## DETACHABLE HANDLE FOR LUBRICATING APPARATUS.

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This invention aims to provide an improved detachable handle for use with lubricant-expelling devices.

In the drawings, which illustrate a preferred embodiment of my invention:—

Figure 1 is a plan view of a lubricant-expelling gun showing the detachable handle attached thereto;

Fig. 2 is an end elevation of the parts shown in Fig. 1; and

Fig. 3 is a perspective view of the handle detached from the lubricant-expelling gun.

Referring to the drawings, I have shown a lubricant-expelling gun 1 having a screw threaded stem 2 and the usual handle attached to the stem for rotating the stem relative to the barrel 4 of the gun, thereby to move a piston (not shown) forward or backward in the barrel. With this type of handle, retraction in a direction to retract the piston is a somewhat slow intermittent process and, inasmuch as it must be retracted to permit refilling of the gun, it is advantageous to provide means whereby the stem and piston may be quickly and easily retracted. To this end, I have provided a simple inexpensive detachable handle 5, which may cooperate with the stem and handle of the gun in such a manner that the stem may be continuously and quickly rotated to withdraw the piston, the detachable handle removable during the lubricant-expelling operation.

The handle, as illustrated, is provided with a yoke 7 which fits over the stem 2 of the gun to provide a bearing for the detachable handle and a slightly inclined finger 8 for engagement with the handle 3 of the gun, as best illustrated in Figs. 1 and 2. Both the yoke 7 and the finger 8 are pressed from a single sheet of metal which extends in the form of an arm 9 beyond the handle 3 of the gun, so as to provide a bearing for the grip 6 of the detachable handle, which is rotatably mounted thereon so that it may turn relative to the rest of the handle.

In use the yoke 7 of the handle 5 is slipped over the stem 2 of the gun adjacent the handle 3 so that, when the grip 6 of the detachable handle is turned in a contraclockwise direction relative to the gun, the finger 8 will engage the handle 3 of the gun and cause it to rotate in a contraclockwise direction, thereby turning the stem 2 and retracting the piston. Thus, as illustrated in Fig. 1, the grip 6 of the detachable handle 5 is located at a right angle relative to the handle 3 of the gun and may therefore be turned continuously in a path concentric with the axis of the stem 2 without releasing the hold on the grip 6.

While I have shown and described a preferred embodiment of my invention, it will be understood that my invention is best defined in the following claims.

1. A supplemental handle for a lubricant-expelling gun including quick detachable means comprising a portion for engagement with the handle and a portion for engagement with the stem of the gun between the handle and barrel thereof, said quick detachable means also including a hand grip generally parallel with the portion for engagement with the handle whereby the stem and handle of the gun may be continuously rotated in a direction to retract the piston of the gun.

2. A quick detachable handle for a lubricating gun including a yoke for quick detachable engagement with the stem of the gun beneath the permanent handle of the gun, a finger for engagement with the permanent handle of the gun and a grip operatively connected to said yoke and finger for rotating the stem and handle of the gun.

3. A quick detachable handle comprising an arm portion having a hand grip secured to one end thereof, a U-shaped slot in the other end for receiving the stem of a lubricant-expelling gun and a finger extending from one side of said arm for engagement with the handle of a lubricant-expelling gun whereby the stem and handle may be rotated at a relatively higher rate of speed.

4. A quick detachable handle comprising a flat arm portion having a rotatable hand grip secured to one end thereof, a U-shaped slot at the other end for receiving the stem, an ear at each side of said slot for providing relatively wide bearing surfaces for engagement with the stem, and a hook-like finger extending from one side of said arm portion between the hand grip and said ears for engagement with the handle of the lubricant-expelling gun whereby the handle and stem may be rotated by rotation of said hand grip about the axis of the stem.

5. A quick detachable handle for a lubri-

cant expelling gun comprising an armed portion having a hand grip secured to one end thereof, a yoke at the other end of the arm for receiving the stem of the lubricant expelling gun and a finger extending from one side of said arm for engagement with the handle carried by the stem of said lubricant expelling gun whereby the stem and handle may be rotated continuously at a relatively higher rate of speed, said finger being bent to partially over-lie the handle to further secure the arm in place when in use.

In testimony whereof, I have signed my name to this specification.

HOWARD J. MURPHY.