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SWIVELED WRENCH ATTACHMENT FOR NOZZLES

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Fig. 1.

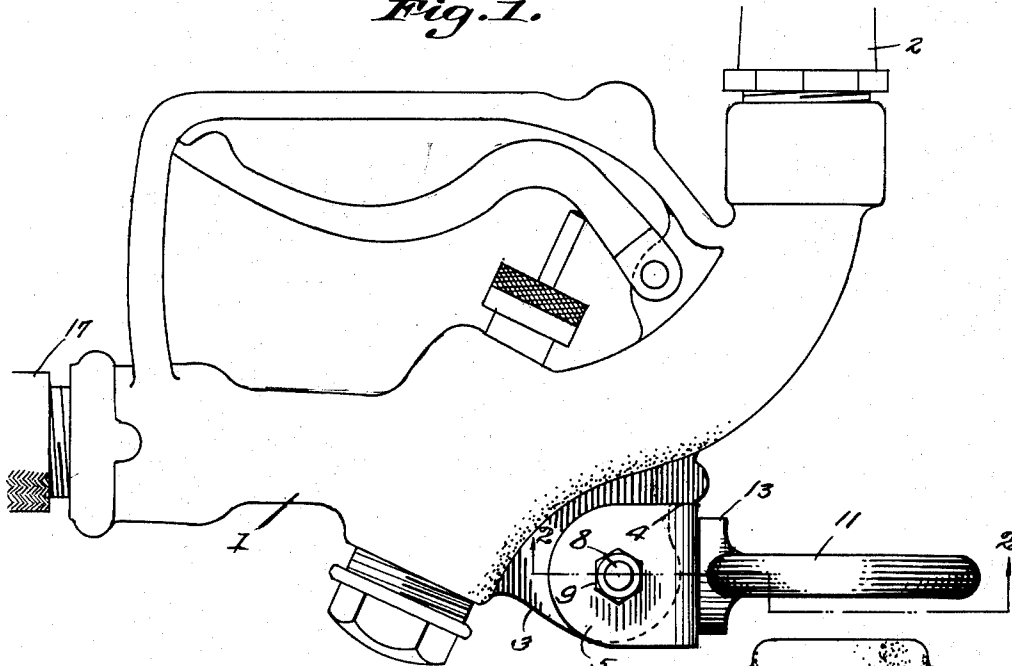
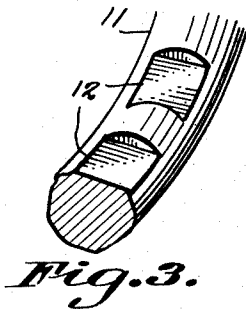
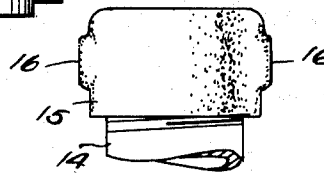
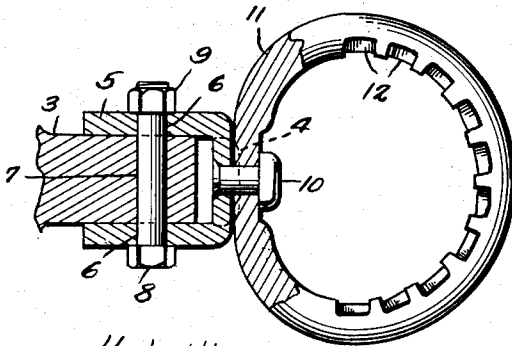


Fig. 2.



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SWIVELED WRENCH ATTACHMENT FOR
NOZZLES

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1 Claim. (Cl. 137—560)

1

2

This invention relates to a wrench attachment for hose nozzles such as are used in making deliveries of fuel oil to domestic consumers.

In this connection, the invention constitutes an improved construction of the wrench attachment shown in my co-pending patent application Serial No. 36,770, filed July 2, 1948.

The present invention aims to provide a swiveled construction for a wrench attachment of the general type illustrated in my co-pending application, thereby to permit application of the wrench to the cap of a filler pipe when holding the nozzle in any position.

Another important object is to provide a swiveled wrench attachment which can be used as a handle for carrying the nozzle and the hose to which the nozzle is connected, the swivel being so designed as to take kinks out of the hose while the hose is being reeled in.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts, hereinafter more fully described and pointed out in the claim, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawings,

Fig. 1 is a side elevation of a swivelled wrench attachment formed in accordance with the present invention, as it appears when applied to a hose nozzle, the wrench attachment being elevated slightly above a cap of a filler pipe.

Fig. 2 is a section on line 2—2 of Fig. 1.

Fig. 3 is an enlarged fragmentary perspective view of the gripping ring.

Referring to the drawings in detail, 1 designates the handle of a hose nozzle having the nozzle portion 2. These parts are thoroughly conventional per se, and individually constitute no part of the present invention.

However, in accordance with the present invention, I weld to the outer surface of the handle 1, or otherwise fixedly secure thereto, an outwardly projecting tongue 3, that stands outwardly from the handle 1 and is fixedly secured to the back of the handle intermediate opposite ends of the handle. The tongue 3 is formed adjacent one end with a projection 4 defining a stop shoulder.

Intermediate its opposite ends, the tongue 3 is straddled by a yoke 5, the yoke 5 being U-shaped and having arms overlying opposite side surfaces of the tongue, said arms being formed

with registering openings 6, these openings being adapted to be brought into register with a transverse opening 7 formed in the tongue 3, for receiving a pivot bolt 8 provided with a nut 9. The pivot bolt 8 pivotally mounts upon the tongue the yoke 5, so that said yoke is mounted for swinging movement in the plane of the handle, that is, on an axis extending transversely of said handle 1.

When swung in one direction, the yoke 5 is engaged by the stop shoulder 4, limiting swinging movement of said yoke in one direction.

Intermediate its opposite ends, the yoke is provided with a rivet 10 projecting outwardly from the yoke and disposed perpendicularly to the axis on which the yoke pivots. A gripping ring 11, having a series of transverse notches 12 extending across its inner wall along a substantial part of its circumference, is formed integrally with a flat base 13 apertured for mounting of the ring upon the rivet 10 whereby to swivelly mount the ring upon the yoke for rotation upon an axis extending radially of the ring.

A conventional filler pipe is designated 14 and is provided with one or more exterior projections 16, two diametrically opposed projections being illustrated in the present instance. These are adapted to be received in any of the notches 12, so that when the ring 11 is fitted downwardly over the cap 15, lateral pressure exerted by the user against the handle 1 of the hose nozzle will rotate the cap 15 for the purpose of either removing the cap or tightening it upon the filler pipe, as the case may be.

It will be seen that when the user desires to pull the hose from a delivery truck to a filler pipe 14 disposed some distance away, it is necessary merely that he grasp the ring 11, and drag the hose in a manner to unreel it from the reel on which it is usually mounted upon a truck.

Since the ring 11 is swivelled relative to the handle 1 and hose 17 coupled to the handle, it will be obvious that should the hose become twisted or kinked during the operation, the user need simply grasp the ring 11 in one hand, and turn the hose nozzle thereabout with the other, to untwist the hose during the reeling in or unreeling thereof.

It will be further apparent that the pivoting of the yoke 5 permits the yoke to swing upwardly off the shoulder 4 when the hose and hose nozzle are being brought to a filler pipe or are being returned to the truck, so that the hose nozzle 1 can depend from the yoke and be conveniently carried.

3

When, however, the ring is to be used as a wrench, it is necessary merely that the user swing the hose nozzle upwardly to the position illustrated in Fig. 1, whereupon the yoke 5 is engaged by the stop shoulder 4, positioning the ring 11 in a horizontal plane immediately above a filler cap 15. Thereafter, the ring 11 is brought downwardly over the filler cap, and bodily rotated for the purpose of removing said cap from the filler pipe.

The arrangement has been found to be unusually convenient in the handling of the heavy hose nozzles 1 and hoses 17, and speeds up operations considerably, considering the fact that a large number of deliveries has to be made during a single day, each requiring the unreeling of a considerable length of hose from a truck, and the subsequent reeling in of said hose when the oil delivery has been completed.

What is claimed is:

In a liquid dispensing nozzle of the type comprising an elongated body having a curved discharge spout adjacent one end thereof, and an ear carried by the body and projecting outwardly therefrom in a direction opposite the discharge spout, means for loosening the filler cap of a vessel to be filled, said means comprising a yoke mounted on the ear to move about an axis which

4

lies perpendicular to a plane common to the ear and the body, a filler cap embracing ring carried by the yoke for rotation about an axis which lies perpendicular to the axis about which the yoke moves, said ring projecting outwardly from the yoke for movement therewith in an arcuate path from an inactive position in which it lies perpendicular to said plane, to an active position in which it lies parallel with said plane, and said ring having an annular series of peripherally spaced notches opening through its inner periphery for engaging outwardly extending lugs on the filler cap.

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