To all whom it may concern:

Be it known that I, ABRAM W. WHEATON, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Self-Closing Faucet and Wrench or Handle Therefor; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

The present invention relates, generally, to improvements in faucets, particularly adapted for use upon oil and gasoline tank wagons; and the invention relates, more particularly, to an improved self-closing faucet and wrench or handle for operating the same.

The object of the invention is to provide in connection with a self-closing faucet a novel wrench or handle for operating the same so constructed as to readily and easily cooperate with a novel means upon said faucet to hold the latter in opened position until the wrench or handle is removed therefrom, where such condition is desirable. In the use of tank wagons, used to deliver oil, gasoline, etc., to dealers, the fluid is carried in bulk in the tank and drawn off in desired quantities in portable cans and thus delivered. It frequently happens, however, that the dealer's storage tank is so located that it may be connected by hose directly to the faucet of the tank wagon, thus avoiding the toil of filling and carrying the portable cans. When such is the case the driver, after attaching the hose to the faucet, must stand and hold the handle or wrench in operated position against the pressure of the self-closing mechanism of the faucet, this is both troublesome and irksome. To avoid the necessity of such trouble is the object of the present invention, which provides a novel construction of handle or wrench and means on the faucet with which the handle or wrench cooperates to hold the faucet open against the pressure of the self-closing mechanism thereof.

Other objects of the present invention, not at this time more particularly enumerated, will be clearly understood from the following detailed description of the same.

With the objects of the invention in view, the same consists primarily in the novel self-closing faucet and operating wrench or handle therefor hereinafter set forth; and the invention consists, furthermore, in the novel arrangements and combinations of the various devices and parts as well as in the details of the construction of the said parts, all of which will be more fully described in the following specification, and then finally embodied in the claims which are appended to and which form an essential part of the said specification.

The invention is clearly illustrated in the accompanying drawings, in which:

Figure 1 is a part elevation and part vertical sectional view of the faucet showing the novel wrench or handle applied thereto in operative relation therewith.

Fig. 2 is a part plan or top view and part horizontal sectional view of the same.

Fig. 3 is a detail cross section taken on line 5—5 in said Fig. 1, looking in the direction of the arrow a.

Similar characters of reference are employed in all of the hereinabove described views, to indicate corresponding parts.

Referring now to the said drawings, the reference character 1 indicates the faucet-body providing the interior chamber 2. Connected with said faucet-body 1 is an internally screw-threaded extension 3, for the reception of the threaded end of the tank-wagon outlet pipe, (not shown). The upper portion of the faucet-body 1 is formed with an extension 4, serving as a casing for a spiral spring 5, surrounding the stem 6 of the valve 7, the body 8 of said valve being composed of rubber or some such resilient material. The upper portion of the faucet-body 1 is also provided with a horizontal laterally extending off-set portion 9, provided with suitable bearings and a short-shaft 10 which has its exterior end 11 100 squared, to receive the female engaging portion 12 of a wrench or handle-body 13, the details of which will be subsequently more fully described. Rigidly secured to the shaft 10, within the faucet-body 1, is an arm 14, which works in a transverse slot 15 in the stem 6 of the valve 7, so that when the shaft 10 is turned, in one direction,
valve 7 will be raised. Connected with said faucet-body 1 is a downwardly extending nozzle-portion 16, which is provided within said faucet-body 1 with a valve-seat portion 17 upon which the valve 7 seats itself when in closed position. The said nozzle-portion 16 is exteriorly screw-threaded at its lower end, as indicated at 18, for the reception of the internally threaded cap 19, which is provided at intervals, upon its periphery, with ears 20, having apertures 21 therein.

Extending from the front of the faucet-body 1 and integral therewith is a hook 22, upon which a bucket or can may be hung while the same is being filled. Pivoted to this hook near the faucet-body is a link 23 provided with an elongated aperture 24 near its lower end, which is adapted to embrace one or the other of the ears 20, and extends sufficiently over said ear to expose its aperture 21 for the reception of the hasp of a lock (not shown), whereby said cap is locked upon said nozzle-portion against surreptitious removal.

In operation, it is only necessary to manipulate the shaft 10, to open the valve 7 against the influence of the spring 5 to allow the fluid to pass through the faucet. This operation is effected by applying the female engaging-portion 12 of the wrench-body 13 to the squared portion 11 of the shaft 10. Said wrench-body 13 is provided with a pair of perforated horizontal ears 25 through which a pintle 26 is passed. Journalled upon said pintle 26 is a handle-portion 27, thus pivotally associated with said wrench-body 13 so as to swing in a horizontal plane. The inner end of said handle-portion 27 is provided with a stop-portion 28 which engages the outer end of said wrench-body 13 between the ears 25, so as to limit the movement of said handle-portion 27 in one direction. Connected rigidly with the pivot end of said handle-portion 27, on a side opposite to said stop-portion 28, is a laterally extending arm 29, preferably extending at right angles to said handle-portion. Located upon the exterior surface of said laterally extending offset portion 9 of said faucet-body 1 is a latch-nosing 30, the upper side of which is preferably chamfered. When said female engaging-portion 12 of the wrench-body 13 is applied to the squared end 11 of the shaft 10, the handle-portion 27 being so disposed that its stop-portion 28 is in operative engagement with said wrench-body 13, said handle-portion 27 is inclined upwardly, as indicated by the dotted representation thereof in Fig. 1 of the drawings. By pressing down on the handle-portion 27, the shaft 10 is rotated and the arm 14 is pressed into lifting engagement with the stem 6 to raise the valve 7. Now, if it is desired to hold the valve raised or open, without necessity of maintaining the downward pressure of the operator's hand upon the handle-portion 27, the latter is oscillated upon the pintle 26 to the left, thereby moving the free end of said laterally extending arm 29 beneath the latch-nosing 30, when upon removing the pressure of the hand upon the handle-portion, the tension of the spring 5 transmitted thereto through the intermediate parts, will keep the laterally extending arm 29 in such engagement with the latch-nosing 30 and will, by thus obstructing the upward return movement of the handle-portion and wrench-body, hold open the valve until the desired quantity of fluid has passed therethrough. To release the handle-portion the same is oscillated horizontally to the right, so as to swing away the free end of said laterally extending arm 29 from its engagement with the latch-nosing 30, as shown by the dotted representation of the same in Fig. 2 of the drawings, whereupon, by removing the pressure upon the handle-portion 27, the spring 5 will automatically close the valve 7, and thus shut off the passage of the fluid through the faucet.

Having thus described my invention, I claim:

1. The combination with a faucet having a self-closing valve, of means for raising said valve including a rotatable shaft having a wrench-receiving end, a detachable wrench-member to engage said shaft, a handle-portion pivoted to said wrench-member so as to swing in a horizontal plane, a laterally extending arm connected with the pivoted end of said handle-portion, and a latch-nosing projecting from the exterior surface of said faucet beneath which said laterally extending arm of said handle-member may be swung to hold said wrench-member in operated position against the operation of said self-closing valve.

2. The combination with a faucet having a self-closing valve, of means for raising said valve including a rotatable shaft having a wrench-receiving end, a detachable wrench-member to engage said shaft, a handle-portion pivoted to said wrench-member so as to swing in a horizontal plane, a laterally extending arm connected with the pivoted end of said handle-portion, a latch-nosing projecting from the exterior surface of said faucet beneath which said laterally extending arm of said handle-member may be swung to hold said wrench-member in operated position against the operation of said self-closing valve, and a stop-means connected with said handle-portion and adapted to engage said wrench-member to limit the swing of said handle-member in the opposite direction.

3. The combination with a faucet having a self-closing valve, of means for raising said valve including a rotatable shaft hav...
ing a squared portion at its exterior end, 
a detachable wrench-body having at one end 
a laterally directed squared opening adapted to fit over the squared portion of said 
shaft, a pair of vertically alined perforated 
lugs at the other end of said wrench-body, 
a pintle supported by said lugs, a handle-
portion journaled on said pintle between 
said lugs so as to swing in a horizontal 
plane, a laterally extending arm connected 
with the pivoted end of said handle-
portion, a latch-nosing projecting from the 
outside surface of said faucet beneath 
which said laterally extending arm of said 
handle-portion may be swung to hold said 
wrench-body in operated position against 
the operation of said self-closing valve. 

4. The combination with a faucet having 
a self-closing valve, of means for raising 
said valve including a rotatable shaft hav-
ing a squared portion at its exterior end, a 
detachable wrench-body having at one end 
a laterally directed squared opening adapted to fit over the squared portion of said 
shaft, a pair of vertically alined perforated 
lugs at the other end of said wrench-body, 
a pintle supported by said lugs, a handle-
portion journaled on said pintle between 
said lugs so as to swing in a horizontal 
plane, a laterally extending arm connected 
with the pivoted end of said handle-
portion, a latch-nosing projecting from the 
outside surface of said faucet beneath 
which said laterally extending arm of said 
handle-portion may be swung to hold said 
wrench-body in operated position against 
the operation of said self-closing valve. 

In testimony, that I claim the invention 
set forth above I have hereunto set my 
hand this 15 day of May, 1916. 

ABRAM W. WHEATON 
Witnesses: 

FREDK. C. FRAENTZEL, 
FREDK. H. W. FRAENTZEL.