A. M. YOCOM.

IMPLEMENT FOR MOTORISTS.

APPLICATION FILED NOV. 14, 1921.

1,437,211. Patented Nov. 28, 1922.

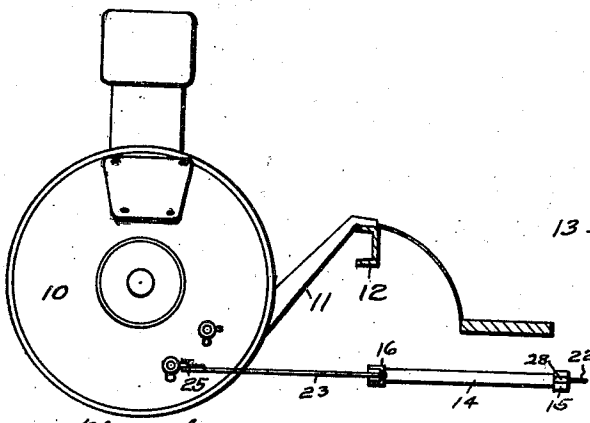


Fig. 1.

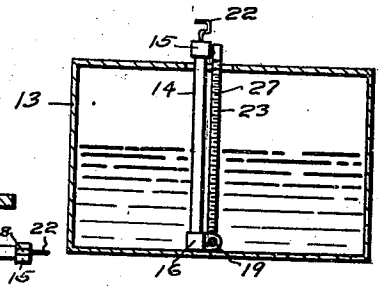


Fig. 2.

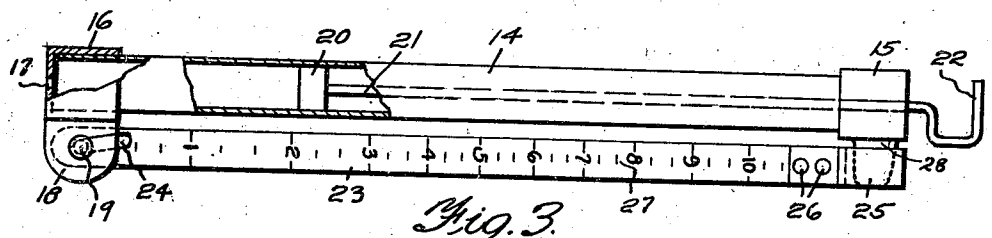


Fig. 3.

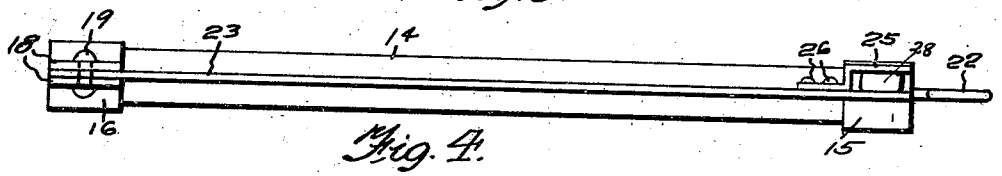


Fig. 4.

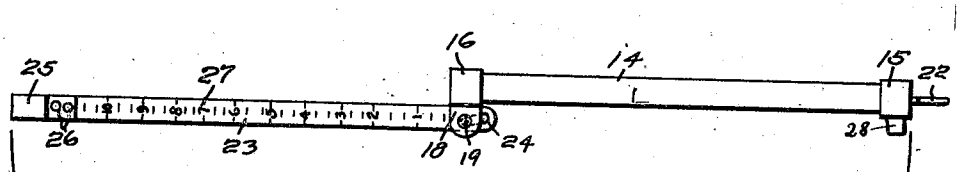


Fig. 5.

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Patented Nov. 28, 1922. 1,437,211

UNITED STATES PATENT OFFICE.

ALVIN M. YOCOM, OF POTTSTOWN, PENNSYLVANIA.

IMPLEMENT FOR MOTORISTS.

Application filed November 14, 1921. Serial No. 514,983.

To all whom it may concern:

Be it known that I, ALVIN M. YOCOM, a citizen of the United States, residing at Pottstown, in the county of Montgomery and State of Pennsylvania, have invented new and useful Improvements in an Implement for Motorists, of which the following is a specification.

This invention relates to automobile accessories, and consists in a combination implement for the use of motorists by which the amount of gasolene in the tank can be measured, a small quantity of gasolene or other liquid be withdrawn from the tank or other receptacle, and the oil petcocks on the crank-case (where such are provided) be actuated conveniently without the necessity of reaching the hand under the car.

More particularly stated, the invention consists in the combination of a pump cylinder, graduated if desired, with a gage rod pivoted to said cylinder so as to fold up alongside the same or be extended in substantial alinement therewith, in which latter position it is locked so as to form a rigid extension of the cylinder and serve as a wrench or key for actuating the crank-case petcocks, the free end of said rod carrying a jaw for that purpose.

A practical embodiment of the invention will now be described in connection with the accompanying drawing, in which,

Figure 1 is a view illustrating the use of the implement as a wrench or key for actuating the crank-case petcocks;

Fig. 2 is a cross-section of a gasolene tank, or other liquid receptacle, showing the implement in position as a depth gage, as well as for removing a portion of the liquid;

Fig. 3 is a side view of the implement in position for use as in Fig. 2 or folded for transportation;

Fig. 4 is a plan view of Fig. 3; and

Fig. 5 is a view of the implement in extended position for use as in Fig. 1.

In these views, 10 represents the crank case of an automobile engine, equipped with petcocks above and below the normal level of the oil therein, 11 one of the hangers, and 12 a frame member of the chassis. 13 represents the gasolene tank (or any other liquid receptacle) of the automobile.

The implement, constituting the present invention, comprises a pump cylinder or barrel 14, closed at one end by a cap 15 and at the other end by a cap 16. The cap 16 is provided with a small port 17 for the ingress and egress of liquid. The cap 16 has also a pair of ears 18 formed integral therewith, through which is passed a pivot pin 19. A piston or plunger 20 slides within the cylinder and carries a piston rod 21, which passes through an opening in the cap 15. The rod 21 is bent to form a handle 22, by which the piston is moved up or down in the cylinder.

23 represents a depth gage rod, which is mounted on the pivot pin 19 by means of an inclined slot 24. When said pin is at one end of said slot, said rod can be swung from the closed position, shown in Figs. 2, 3 and 4, to the open or extended position, shown in Figs. 1 and 5, in which it extends in substantial alinement with the cylinder. In this position, the pivot pin 19 occupies the other end of the slot 24, whereby the rod is locked, so to speak, to the cylinder, that is, forms a rigid extension thereof and cannot swing on its pivot. The free end of the rod has secured to it, as by screws 26, a jaw member 25, which forms, with the end of the rod, a socket or wrench by which the petcocks aforesaid can be actuated from the side of the car, without the necessity of the operator stooping or crawling under the same. Furthermore, the socket, formed by the end of the rod 23 and the jaw member 25, is adapted to frictionally engage, when said rod is in the folded position, a lug 28 projecting from the cap 15, whereby the rod is retained in said position. The provision of the said lug 28 is also of advantage in enabling a firmer grip of the implement to be had when it is used as a wrench to turn the petcocks.

The manner of use of the implement will now be readily understood. To measure the amount of gasolene in the tank, the gage rod is folded up parallel to the cylinder, as shown in Fig. 2 for example, and the implement is inserted into the tank in the usual manner. At this time, the piston may be operated to draw up a small quantity of gasolene into the cylinder, if desired, and, upon removal of the implement from the tank, the depth of the liquid will show upon the gage rod which, as usual, will conveniently be graduated to indicate gallons, as represented at 27. If desired, the cylinder may be similarly graduated or may be graduated to indicate the amount of liquid withdrawn by it. When the implement is to be used as a wrench, it is opened up and

locked as in Fig. 5 for example, and the socket or wrench end applied to the thumb nut of the petcock. Obviously, the depth of a liquid can be tested with the rod when it is in its extended position, and the other side of the rod from that shown in Fig. 5 may be suitably graduated inversely, so that the amount in gallons will be indicated from either end. Other minor changes in detail can be made without departing from the inventive idea, as expressed in the appended claims.

Having thus described my invention, what I claim is:

1. An implement for motorists, comprising a hollow cylindrical handle, adapted to be used as a suction pump and having projecting ears on one end, a bar pivoted between said ears by means of a pin and inclined slot, and jaws on the free end of said bar, whereby it can be folded up alongside said handle or be extended in substantial alinement therewith and be locked in that position when used as a wrench.

2. An implement for motorists, comprising a hollow cylindrical handle member, adapted to serve as a suction pump and carrying a pivot pin on one end, and a flat bar having an inclined slot in one end, through which said pin passes, and wrench jaws on its other end, whereby said bar can be locked to said handle when extended in substantial alinement therewith to act as a wrench, or be folded up alongside said handle member when not in use.

3. A key wrench for motorists, comprising a handle member having parallel spaced ears on one end, a pivot secured in said ears, a flat bar having an inclined slot in one end engaged on said pin and a wrench jaw on the other end, whereby said bar can be folded up alongside said handle member or be extended in substantial alinement therewith, and be locked in the latter position by a push which moves said pin into the inner end of said slot.

4. A key wrench for motorists, comprising a circular rod constituting a handle, a flat bar pivoted at one end to one end of said rod, the pivotal connection being such that said bar is rigidly locked to said rod when in alinement therewith, but can swing on its pivot so as to fold up.

In testimony whereof I have hereunto set my hand.

ALVIN M. YOCOM.