G. F. HARRIS.

COMBINATION PETCOCK WRENCH AND CLEANING TOOL.

APPLICATION FILED APR. 20, 1917.

1,239,688. Patented Sept. 11, 1917.

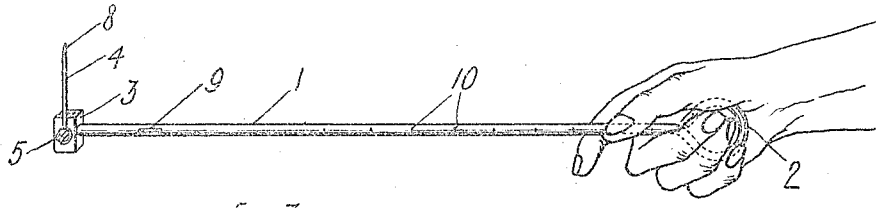


FIG. 1

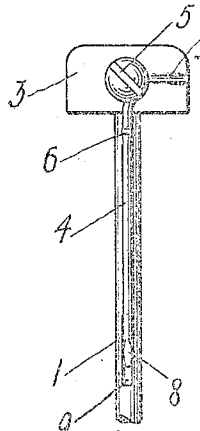


FIG. 4

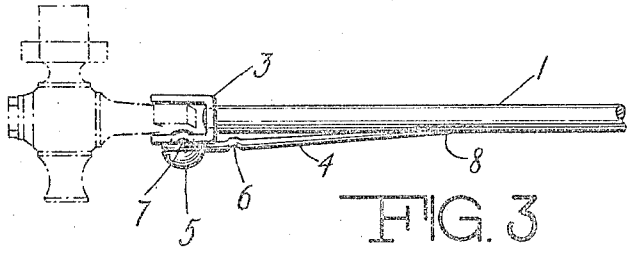
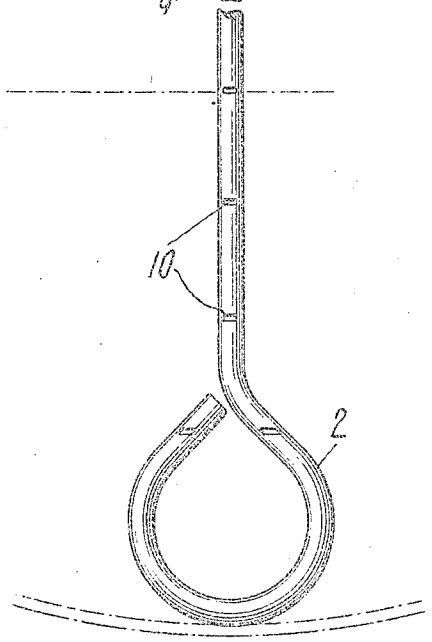


FIG. 3



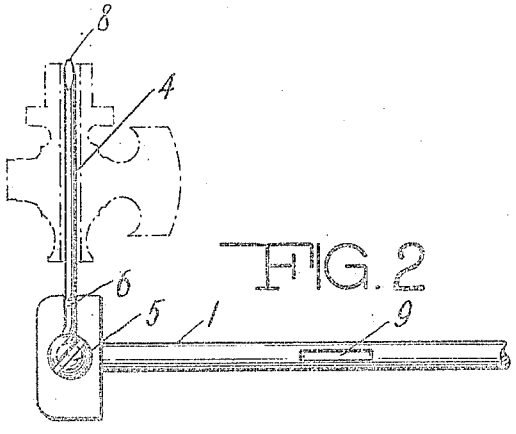


FIG. 2

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COMBINATION PETCOCK WRENCH AND CLEANING TOOL.

1,239,688. Specification of Letters Patent. Patented Sept. 11, 1917.

Application filed April 30, 1917. Serial No. 163,379.

To all whom it may concern:

Be it known that I, GEORGE F. HARRIS, a citizen of the United States, residing in the borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Combination Petcock Wrenches and Cleaning Tools, of which the following, taken in connection with the accompanying drawings, is a full, clear, and concise description.

My invention relates to devices for cleaning and manipulating oil pet-cocks of internal combustion engines, and has for its object the provision of a cleaning pin upon the end of a wrench having an elongated handle designed for cleaning and manipulating oil pet-cocks which are located at points that are not conveniently accessible, such as those provided upon the under side of crank cases of internal combustion engines used on automobiles.

A further object of the present invention is to provide the elongated handle of the tool with suitable spaced indentations in the form of a graduated gage, which will find useful application in the measurement of the gasolene fuel supply carried in the tank of the automobile.

In the accompanying drawings, I have illustrated by way of example one preferred form of my invention, in which—

Figure 1 is a view in perspective of an oil pet-cock wrench provided with a cleaning pin and gage graduations, the cleaning pin being shown in operative position.

Fig. 2 is a view in elevation of a fragmentary portion of the device showing the cleaning pin in operation, the pet-cock being shown in dotted outline.

Fig. 3 is a similar view showing the device used as a wrench for manipulating the pet-cock, which is shown in dotted outline.

Fig. 4 is a view in side elevation of the device showing the gage portion in use, measuring the quantity of fuel in a tank, a portion of the latter being illustrated in dotted outline.

In detail, the wrench comprises an elongated handle portion 1, preferably made of wire, having one extremity terminating in a loop 2 by means of which the tool may be hung up in a convenient place, the other extremity of the elongated handle being provided with a U-shaped wrench member 3 adapted to receive the handle portion of a pet-cock which may be thereby manipulated. The handle portion 1 and the head 3 are riveted together in a substantial manner so as to be firmly connected.

On one side of the head 3 is pivotally mounted a cleaning pin 4 by means of a screw 5. This cleaning pin is provided for the purpose of cleaning out the outlet orifice of the pet-cock (see Fig. 2) should the same be obstructed by an accumulation of congealed oil or mud. The pin 4 is made of springy material and is provided with a protuberance 6, so that when it is swung around its pivot into a position at right angles to the handle portion 1, it may be sprung into a groove 7 in the head portion 3, thus firmly seating itself so as to be held in position to be used. The extremity of the pin 4 is chamfered off at 8, so that when the pin is moved to its inoperative position longitudinally with the handle portion 1, no sharp edge will be present to catch in any of the upholstery of the car should it be carried, as for instance, beneath the seat thereof. In order to hold the pin in this inoperative position, a groove 9 is provided in the handle portion 1, so that the pin may, owing to its springy nature, be sprung thereinto and thus be held against accidental lateral displacement.

To further the usefulness of the tool, I provide suitable marked-off graduations 10, which may be useful in ascertaining the amount of available fuel in the gasolene supply tank of the automobile (see Fig. 4).

While I have illustrated one preferred form in which my invention may find embodiment, I do this by way of example only and do not wish to be limited to the precise details of construction shown as these may be altered without departing from the spirit and scope of my invention as defined by the appended claims.

Having thus described my invention, what I claim as new herein and desire to secure by Letters Patent is:

1. In a tool of the character described, the combination of an elongated handle, a substantially rectangular U-shaped grooved head-piece fastened at one extremity thereof, a pet-cock cleaning pin mounted upon said head-piece adapted to coöperate with the groove thereof to hold the pin in its operative position at a right angle to the elongated handle.

2. In a tool of the character described, the combination of an elongated handle, a substantially rectangular metal head-piece fastened upon one extremity thereof, a pet-cock cleaning pin pivotally mounted upon said head-piece, and means for retaining the cleaning pin in inoperative position longitudinally of and in contact with the elongated handle and in operative position in engagement with the head-piece at a right angle to the elongated handle.

3. In a tool of the character described, the combination of a grooved elongated wire handle, a grooved head-piece riveted thereto at one extremity, a cleaning pin pivotally mounted upon the head-piece and adapted to coöperate with the groove in the wire handle in its inoperative position and the groove in the head-piece in its operative position.

4. In a tool of the character described, the combination of an elongated wire handle, a grooved U-shaped head-piece riveted to one extremity thereof, a pin of springy material pivotally mounted thereon, said pin being provided with a protuberance adapted to coöperate with the groove of the head-piece to firmly seat the pin in its operative position.

GEORGE F. HARRIS.