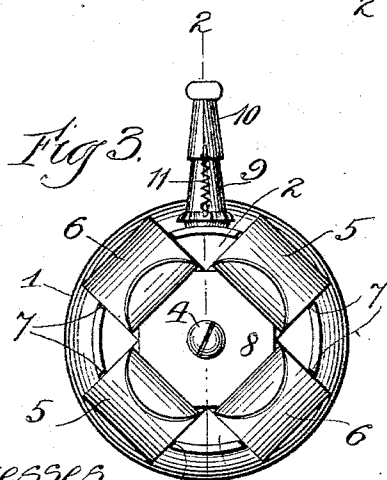
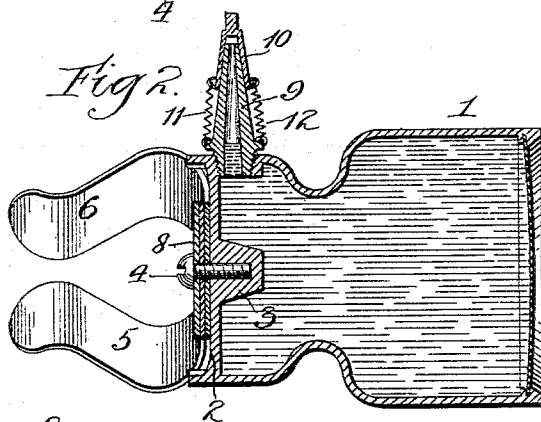
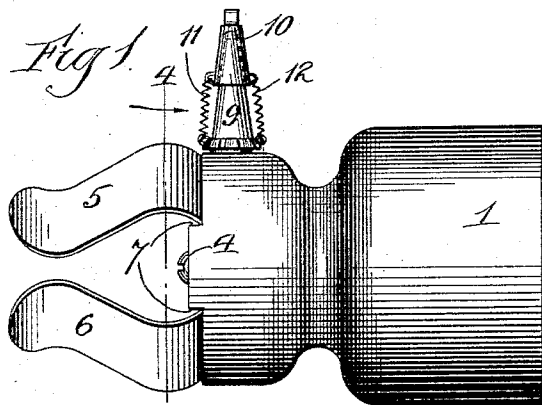


(No Model.)

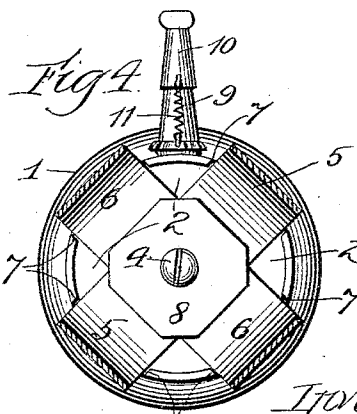
G. W. DUNSWORTH.
COMBINATION WRENCH.

No. 532,041.

Patented Jan. 8, 1895.



Witnesses
Wm. J. Fleming
Wm. M. S. Pheasant



Inventor
George W. Dunsworth
by Brown and Darby Attys.

UNITED STATES PATENT OFFICE.

GEORGE W. DUNSWORTH, OF CHICAGO, ILLINOIS.

COMBINATION-WRENCH.

SPECIFICATION forming part of Letters Patent No. 532,041, dated January 8, 1895.

Application filed March 15, 1894. Serial No. 503,704. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. DUNSWORTH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Tool, of which the following is a specification.

It is the object of this invention to produce a nut or tap wrench and holder of improved construction.

A further object is to produce a tool which combines in the same structure a nut or tap wrench and holder and an oil can.

A further object is to produce a tool, simple in construction, economical in manufacture, and efficient in use for accomplishing the purposes for which it is intended.

With these objects in view the invention consists in the construction, location and relative arrangements hereinafter more particularly described, as shown in the accompanying drawings and as finally pointed out in the appended claims.

Reference is had to the accompanying drawings forming a part hereof and to the various views and reference signs appearing thereon, and wherein—

Figure 1 is a view in side elevation of my improved tool. Fig. 2 is a central longitudinal section of the same on the line 2, 2, Fig. 3. Fig. 3 is an end view of the same. Fig. 4 is a sectional view taken on the line 4, 4, Fig. 1, looking in the direction of the arrows.

The same reference sign indicates the same part wherever it occurs throughout the several views.

The reference sign 1, designates the handle or main body part of my combined tool. This handle or body part may be constructed of any suitable or desirable shape or size and out of any desirable material. Preferably, and in the form shown it is made hollow to form an oil can and is made of metal.

The end of the handle or body portion 1 is cup-shaped and slightly concaved as shown at 2 and cast or formed therewith is a hub or boss 3 provided with a central screw-threaded socket adapted to receive a securing screw or bolt 4. Seated in the cup shaped end of the handle and secured thereto by means of screw or bolt 4 are two crosswise arranged flat stirrup shaped strips of strong spring metal, 5,

6, centrally perforated to receive said screw or bolt. The flange forming the cup portion 2, of the end of handle 1 is cut away as at 7, 7, to receive the flat stirrup shaped strips and hold the same firmly against lateral movement. A washer 8 may, if desired, be interposed between the head of the securing screw or bolt and the top surface of the upper flat strip, as shown.

When the body or handle portion is formed into an oil cup I provide a nozzle 9, therefor which is screwed into a screw-threaded socket formed in said handle. A cap 10 is provided for said nozzle and is secured by means of springs 11, 12 to the base flange of said nozzle, as shown. By reason of the concavity given the seat for the stirrup shaped strips and the bearing of the grooved or cutaway portion of the flange of said seat against the curved sides of said strips, it will be evident that by turning securing bolt or screw 4 the square opening formed by the outer free ends of said strips can be regulated in size.

The outer ends of strips 5, 6, are somewhat bent or flared outwardly to permit the tool to be easily and expeditiously sprung onto the tap or nut to be screwed or held. By making strips 5, 6, of steel the opening formed by the outer ends thereof may be made small and thus adapt the tool, when used as a nut wrench and holder, to a wide range of size of nuts or taps to be screwed or held.

While my combined nut wrench and holder and oil can is particularly adapted for use in screwing or unscrewing and holding the axle nuts of vehicles and greasing the axles, it is obvious that it is adapted for many other purposes and uses and therefore forms a handy and convenient tool for the workman's tool chest.

It will be seen that when my tool is used as a nut holder, it can be stood on end, thus preventing the nut from falling into the dirt. It will also be seen that when used as an axle nut wrench and holder and for oiling vehicle axles, it is unnecessary to remove the tool from the hand, but after the nut is unscrewed it is firmly held between the spring ends of the strips and the axle can be oiled from the can, the nut replaced and screwed on the end of the axle again.

While I have shown and described in de-

tail a specific form of my invention it is obvious that many changes in size or proportion or mechanical details of construction would readily suggest themselves to any one skilled in the art without departing from the spirit or scope of my invention. I do not desire, therefore, to be limited to the details, sizes and proportions shown and described; but,

Having now fully described my invention and its mode of application, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a tool a handle or body portion forming an oil can and having a depressed slightly concaved cup-shaped end a cut-away rim surrounding said cup in combination with stirrup-shaped strips of spring metal adapted to be received in said cut-away portion of said rim and means for securing said strips to said cup-shaped end, as and for the purpose set forth.

2. A tool comprising a handle or body portion, flat, bent-up strips of spring material arranged crosswise with relation to each other, and means for securing said strips upon the end of said handle or body portion to resist lateral strain; as and for the purpose set forth.

3. A tool comprising a handle or body portion, a pair of flat-stirrup shaped centrally perforated strips of spring material arranged crosswise relative to each other, means for

securing said strips upon the end of said handle or body portion, and means for supporting said strips against lateral displacement; as and for the purpose set forth.

4. In a tool, the combination with a handle or body portion, forming an oil can, and provided with a seat on the end thereof stirrup-shaped strips of spring material arranged crosswise with relation to each, the outer free ends of each strip forming a pair of clamping jaws, and securing devices for securing said strips to the seat on the end of the handle or body portion; as and for the purpose set forth.

5. In a tool, the handle or body portion having a cup-shaped end, formed by a peripheral flanged portion, said flange cut away on the outer edge thereof to form seats, in combination with flat, stirrup-shaped strips of spring material adapted to be received in said seats, and to be secured to said handle, the outer ends of each strip comprising co-operating clamping jaws; as and for the purpose set forth.

In testimony whereof I have hereunto set my hand, this the 13th day of March, 1894, in the presence of two subscribing witnesses.

GEORGE W. DUNSWORTH.

Witnesses:

E. FORTWAUGH,
JOSEPH DOWNEY.