(No Model.)

O. L. & G. T. DODGE.

WRENCH.

No. 458,337. Patented Aug. 25, 1891.

FIG 1.

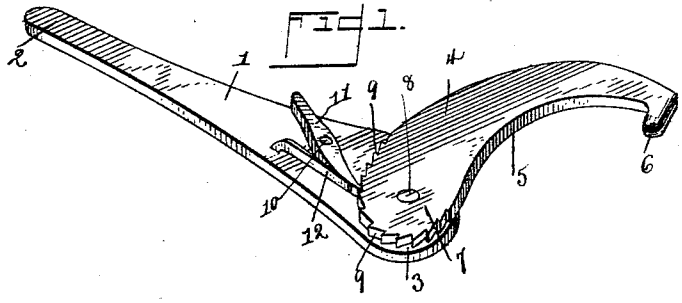


FIG 2.

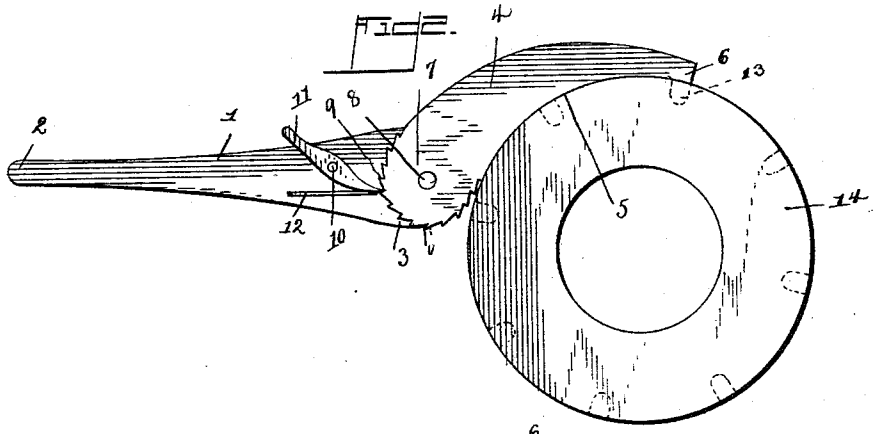
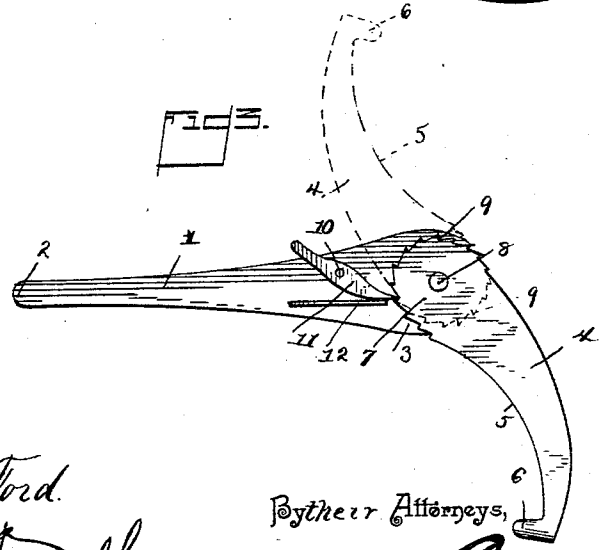


FIG 3.



Witnesses:

Chas. A. Ford.

W. S. Duvall.

Inventors

Oscar L. Dodge and
George T. Dodge.

By their Attorneys,

C. A. Snow & Co.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

OSCAR L. DODGE AND GEORGE T. DODGE, OF INWOOD, NEW YORK.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 458,337, dated August 25, 1891.

Application filed May 15, 1891. Serial No. 392,873. (No model.)

To all whom it may concern:

Be it known that we, OSCAR L. DODGE and GEORGE T. DODGE, citizens of the United States, residing at Inwood, in the county of Queens and State of New York, have invented a new and useful Wrench, of which the following is a specification.

This invention relates to improvements in wrenches; and the objects in view are to provide a cheap and simple construction of wrench especially adapted for use about marine engines or others employing glands located in inaccessible places.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claim.

Referring to the drawings, Figure 1 is a perspective of a wrench constructed in accordance with our invention. Fig. 2 is a plan of the same in position upon a gland. Fig. 3 is a plan of the wrench, illustrating by dotted lines some of the various positions of the same.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 denotes the stock or shank of the wrench, and the same is tapered and otherwise shaped at its inner end to form a handle 2, while its opposite end is broadened and rounded to form a head 3.

4 designates the jaw, the same being curved, as at 5, to conform to the shape of a gland, and terminating at its outer end in a cylindrical stud or lug 6. The inner end of the jaw is broadened and terminates in a rounded head 7, centrally pivoted by a bolt 8 to the head 3 of the stock and having its edge provided with a series of inclined ratchet-teeth 9.

Upon the shank 1 at one side of the head 7 of the jaw 4 there is pivoted at 10 a pawl 11, the front end of which is pressed into engagement with the teeth 9 by means of a flat spring 12, secured to the shank and terminating against the pawl. By pressing the tail end of the pawl the front end may be thrown out of engagement with the teeth of the head and said jaw may be swung forward so as to be thrown in various positions with relation to the handle or stock, or by swinging the jaw to the rear other positions may be secured, and in this manner the handle so disposed with relation to the jaw, or vice versa, as to readily adapt the wrench for use upon the glands inaccessibly located. Such glands are for the most part found upon marine engines, and hence the wrench is especially adapted for this class of engines; but it will be obvious that it may be used with the same facility and benefit upon any class of machines.

In use the cylindrical lug is fitted into one of the perforations 13 of a gland, as 14, and after being turned as far as the adjacent obstacles will permit, the pawl engaging with the teeth, the handle is swung back to its first position or starting-point, the pawl riding over the teeth. When the pawl has traveled as far as the teeth extend, the lug is inserted into another opening and the operation repeated.

Having described our invention, what we claim is—

In a wrench of the class described, the combination, with the stock 1, terminating in the handle 2 and head 3, of the jaw 4, having the curved shank 5, terminating at its free end in a lug 6 and at its rear end in the toothed or notched head 7, pivoted at 8 to the head 3, the pawl 11, pivoted between its ends at 10 to the head 3, and the spring 12, secured to the stock 1 and serving to press the pawl into engagement with the teeth or notches, substantially as specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

OSCAR L. DODGE.
GEORGE T. DODGE.

Witnesses:
JAMES W. SAFFORD,
H. S. HULL.