

No. 762,935.

PATENTED JUNE 21, 1904.

C. DE W. O'NEIL.

WRENCH.

APPLICATION FILED AUG. 21, 1903.

NO MODEL.

FIG. 1

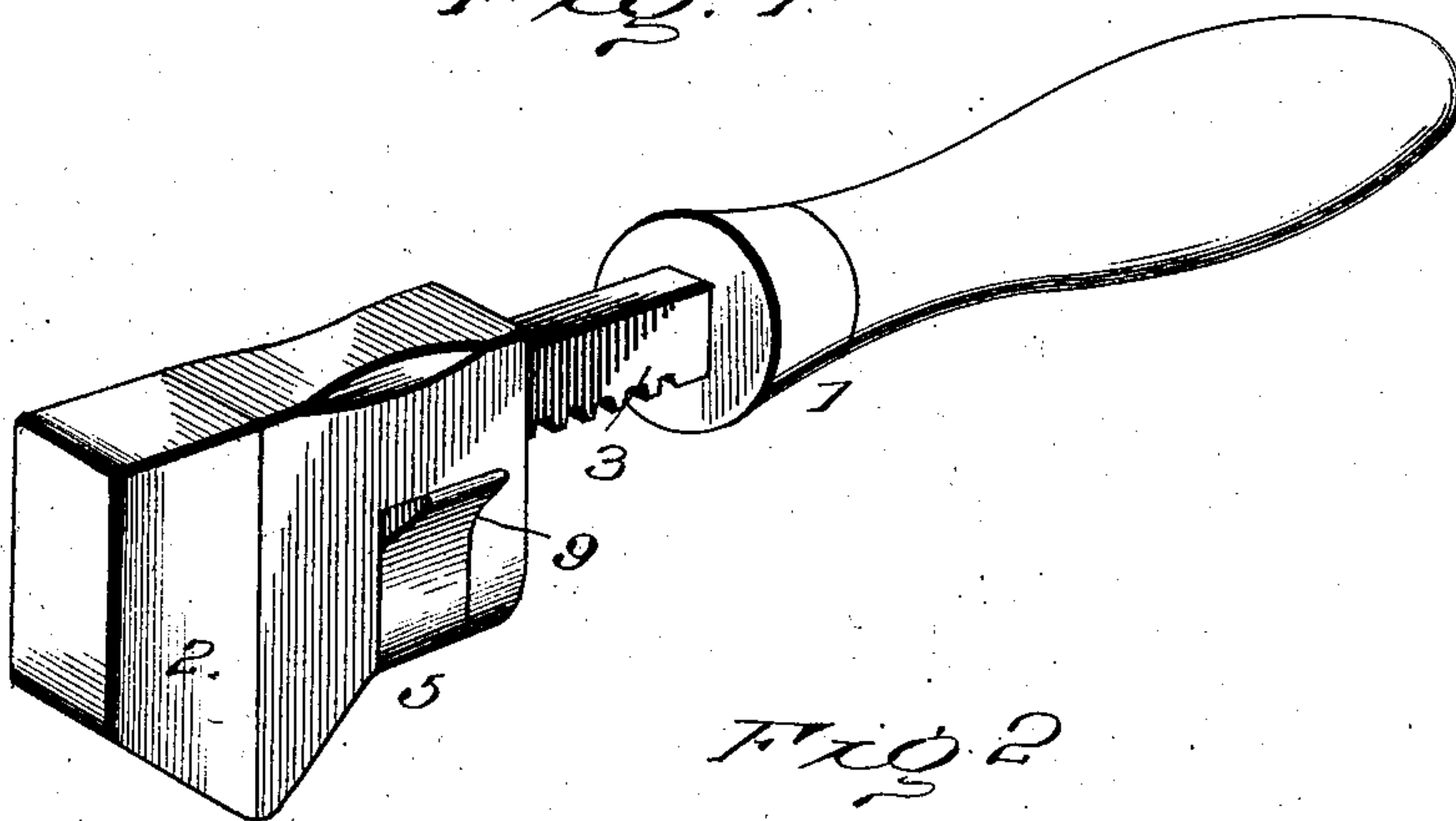


FIG. 2

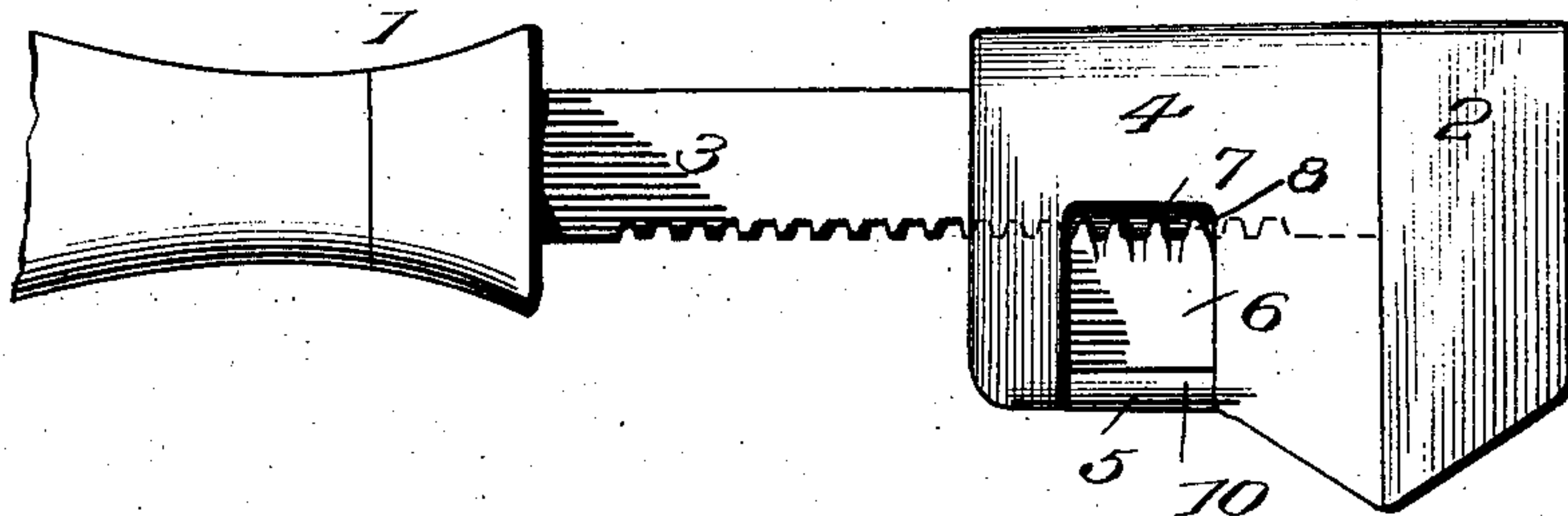


FIG. 3

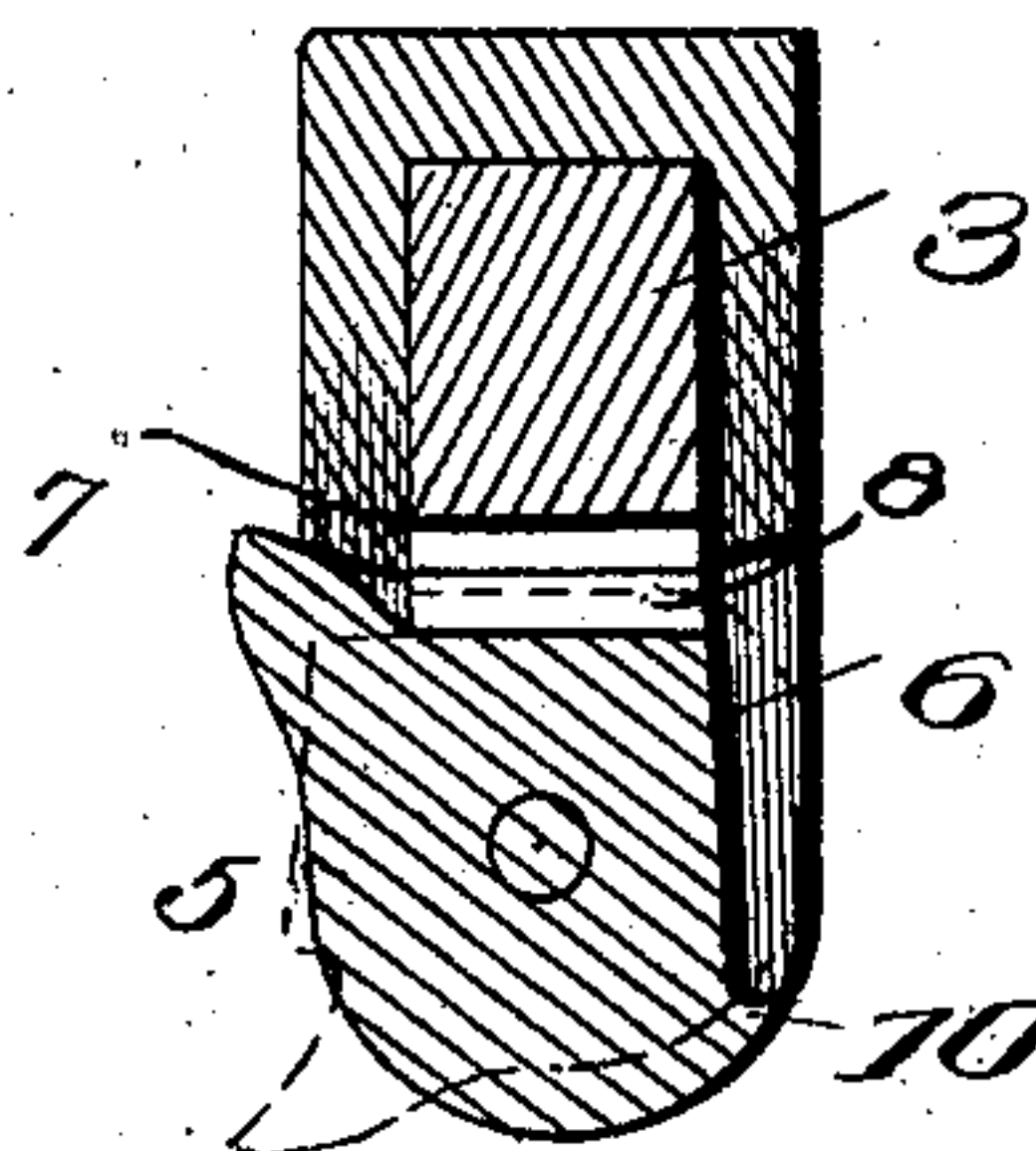
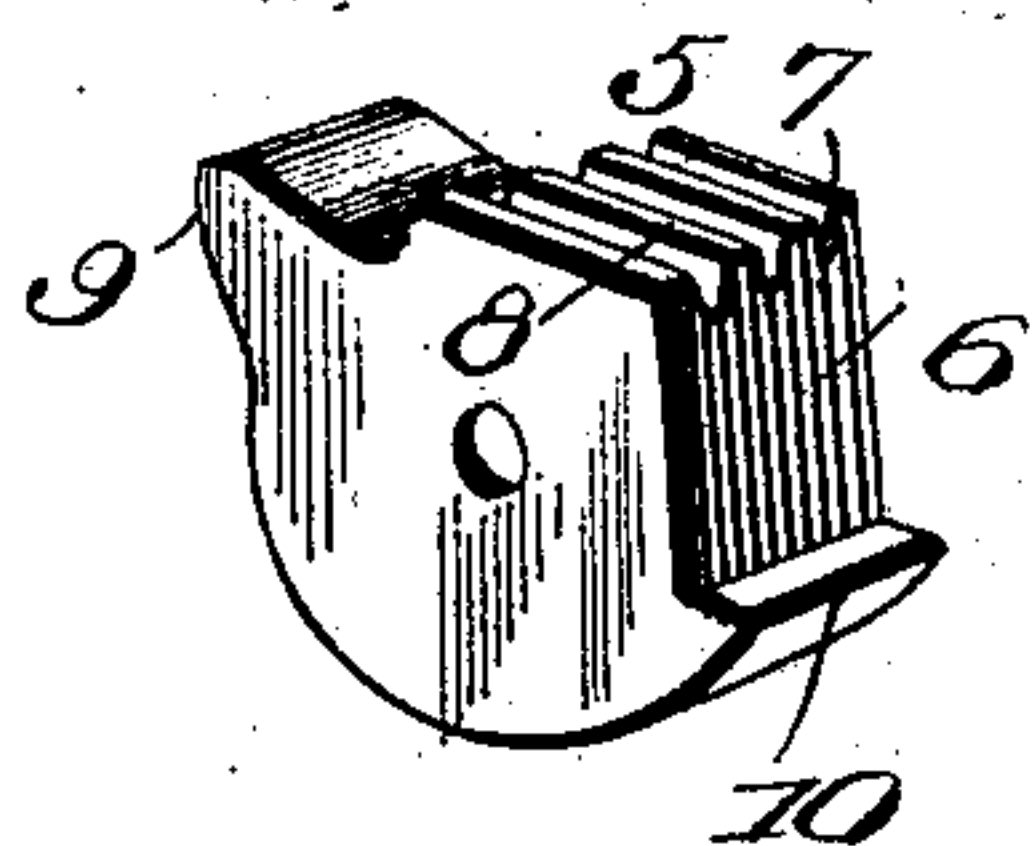


FIG. 4



Inventor

Witnesses

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WRENCH.

SPECIFICATION forming part of Letters Patent No. 762,935, dated June 21, 1904.

Application filed August 21, 1903. Serial No. 170,325. (No model.)

To all whom it may concern:

Be it known that I, CHARLES DE WITT O'NEIL, a citizen of the United States, residing at Harlan, in the county of Shelby and State of Iowa, have invented certain new and useful Improvements in Wrenches, of which the following is a specification.

This invention relates to the class of wrenches of the type embodying the use of a nut provided with an interrupted thread by which a movable jaw carried by the wrench may be quickly adjusted, so as to clamp an article, and locked at the desired adjustment without necessitating the revolution of the nut a greater or less number of times, dependent upon the extent of movement of the movable jaw.

I am aware that it is not new to provide quick-acting wrenches having distorted threads and have as my object to improve upon the structures heretofore patented in this art by providing a locking element which by a minimum degree of movement in either direction will either lock the movable jaw at an ascertained adjustment or permit movement of the jaw along the shank of the wrench.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a wrench embodying my invention. Fig. 2 is a side elevation showing the lock element in engaging relation with the shank of the wrench to fix the jaw at an ascertained adjustment. Fig. 3 is a vertical sectional view through the wrench. Fig. 4 is a detail perspective view of my lock element.

Corresponding and like parts are referred

to in the following description and indicated in all the views of the drawings by the same reference characters.

The wrench as regards the general structure thereof is of ordinary type embodying the use of a handle 1, a fixed jaw 2, carried by the toothed shank 3, and a movable jaw 4. The lock element which constitutes my invention is disposed upon the movable jaw 4 and consists of a nut 5, provided with right-angul- 50
larly-disposed faces 6 and 7. The face 6 is smooth, so that when the lock element is manipulated so as to bring this face adjacent the toothed shank the movable jaw will be free for slidable movement upon the said shank. 60
The adjacent face 7, however, is provided with longitudinal teeth 8, which are adapted for coöperation with the toothed shank 3 to lock the movable jaw at a relative adjustment 65
as regards the fixed jaw. The nut 5 is rotatably mounted upon the jaw 4, and either of the faces 6 or 7 may be brought adjacent the toothed shank by giving the nut a quarter-turn by manipulation of the finger-piece 70
9, disposed upon the nut. The finger-piece is formed by an offset portion upon the nut. Adjacent the smooth face 6 of the nut 5 is provided a stop 10, which limits the move- 75
ment of the nut when throwing the smooth face into a position adjacent the toothed shank.

The locking device, as before described, provides a construction of wrench in which the movable jaw is adapted for a quicker locking engagement with the toothed shank and 80
likewise more readily adapted to be thrown into a position permitting free movement of the movable jaw than are the structures of wrench embodying the nut element having the interrupted-thread form. 85

Having thus described the invention, what is claimed as new is—

In a wrench, the combination, with a shank having a fixed jaw thereon, a movable jaw slidably mounted upon the shank, teeth dis- 90
posed upon the shank, a lock element carried by the movable jaw and comprising a nut hav-

ing right-angularly-disposed straight faces,
one of said faces being smooth, longitudinal
teeth disposed upon the opposite face for en-
gaging coöperation with the teeth upon the
5 shank to fix the movable jaw at a relative ad-
justment, an integral stop projected from the
nut adjacent the smooth face thereof, and an
integral finger-piece also extended from the
nut at a point adjacent the toothed face there-

of for manipulation of the nut and constitut- 10
ing a stop.

In testimony whereof I affix my signature in
presence of two witnesses.

CHARLES DE WITT O'NEIL. [L. s.]

Witnesses:

JOSEPH STILES,
J. H. KOOLBECK.