No. 874,081. PATENTED DEC. 17, 1907.

G. W. JESSOP.

WRENCH.

APPLICATION FILED AUG. 17, 1907.

Fig. 1.

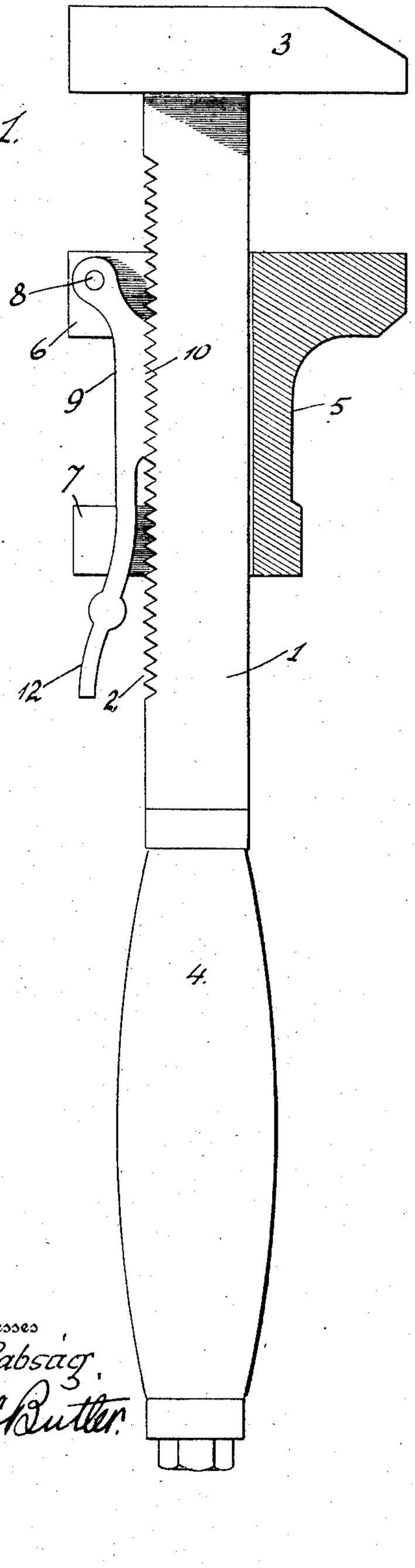
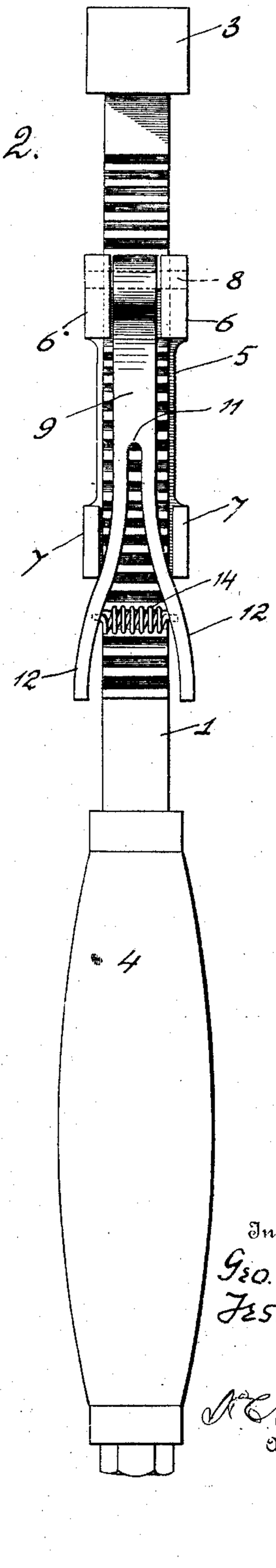


Fig. 2.



Witnesses
A. H. Rabsag.
R. S. C. Butler.

Inventor
Geo. W. Jessop

By Wm. C. Everett & Co.
Attorneys

UNITED STATES PATENT OFFICE.

GEORGE W. JESSOP, OF PITTSBURG, PENNSYLVANIA.

WRENCH.

No. 874,081. Specification of Letters Patent. Patented Dec. 17, 1907.

Application filed August 17, 1907. Serial No. 388,989.

To all whom it may concern:

Be it known that I, GEORGE W. JESSOP, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to improvements in wrenches, and the invention has for its object the provision of positive and reliable means for easily and quickly adjusting the movable jaw of a wrench.

My invention aims to dispense with the use of screw threads and nuts for adjusting the movable jaw of a wrench, and I employ a novel gripping member for engaging the shank of a wrench and firmly holding the movable jaw thereof in the position to which it is adjusted.

To this end I have devised a wrench of that type commonly known as a quick acting monkey wrench, and I have constructed the same of comparatively few parts, whereby the wrench can be easily and quickly assembled, manipulated and manufactured at a comparatively small cost.

The detail construction entering into my invention will be presently described and then specifically pointed out in the appended claims.

In the drawings, Figure 1 is an elevation of a wrench illustrating the movable jaw thereof in section, and Fig. 2 is an edge view of a wrench.

In the drawings, 1 designates a shank having a toothed edge 2, a fixed jaw 3, and a detachable handle 4. Slidably mounted upon the shank 1 is a movable jaw 5 having straps 6 and 7 for embracing the sides of the shank 1, said straps projecting beyond the toothed edge of said shank. Pivotally mounted between the straps 6 and 7 by a pin 8 is a gripping member 9, having teeth 10 for meshing with the toothed edge 2 of the shank 1. The free end of the member 9 is bifurcated, as at 11, providing two resilient arms 12, between which is interposed a coil spring 14, said spring normally holding the arms 12 in frictional engagement with the inner sides of the strap 7.

The member 9 is pivotally mounted in the strap 6, whereby when said member is elevated or disengaged from the shank 1, all of the teeth 10 of said member will move in unison from engagement with the toothed shank 1, the teeth of the member 10 and the shank 1 being of a pitch conducive to such free engagement of said member.

To elevate the member 9 it is only necessary to squeeze or press the arms 12 together, freeing said arms from engagement with the strap 7, at which time the member can be easily elevated and the jaw 5 adjusted upon the shank 1.

It will thus be observed that my wrench consists of practically four parts that are easily and quickly assembled, and are free from danger of injury by ordinary use, the parts being constructed of light and durable metal.

I do not care to limit myself to the size, proportion or minor details of construction, and such changes as are permissible by the appended claims can be resorted to without departing from the spirit and scope of the invention.

Having now described my invention what I claim as new, is:—

1. A wrench embodying a toothed shank, a detachable handle carried by said shank, a jaw slidably mounted upon said shank and having two sets of straps embracing the sides of said shank, a member pivotally mounted between one set of straps, teeth carried by said member for engaging said toothed shank, said member being bifurcated to provide resilient arms for frictionally engaging the other set of straps, and a coil spring interposed between said resilient arms, substantially as and for the purpose described.

2. A wrench embodying a toothed shank, a fixed jaw carried thereby, a jaw slidably mounted upon said shank, straps carried by said jaw, a pivoted toothed member carried by said straps for engaging said toothed shank, resilient arms carried by said member for frictionally engaging a pair of said straps, and means interposed between said arms for holding said arms in engagement with said pair of straps.

3. A wrench embodying a toothed shank, a handle carried thereby, a slidable jaw carried by said shank, two pairs of straps carried by said movable jaw and adapted to ex-

tend beyond the toothed edge of the shank, a gripping member pivotally connected to one pair of said straps, the free end of said gripping member being bifurcated, and means interposed between said bifurcations for holding said arms in frictional engagement with the other pair of said straps.

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

GEORGE W. JESSOP.

Witnesses:
MAX H. SROLOVITZ,
A. J. TRIGG.