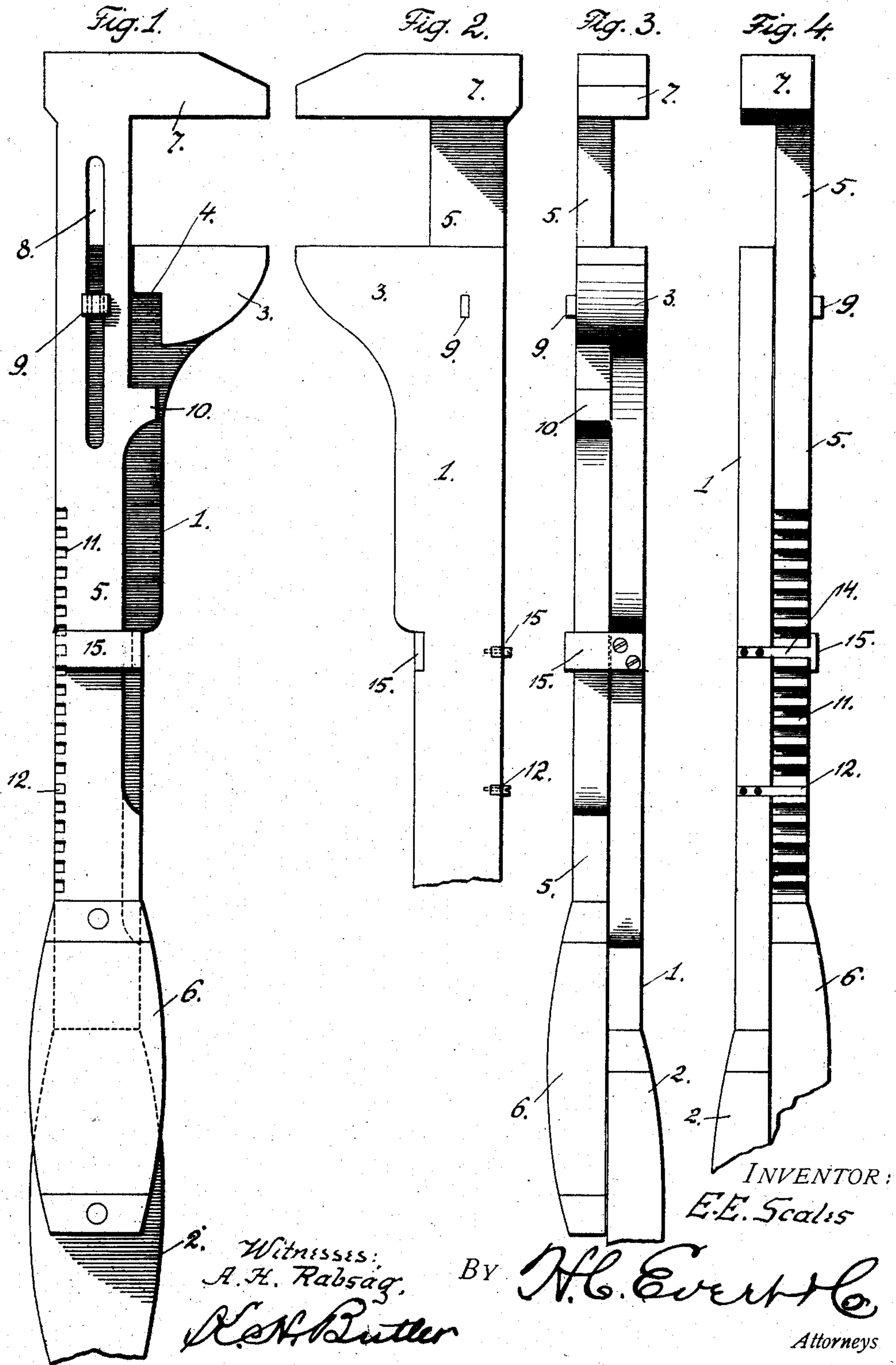


No. 865,127.

E. E. SCALES.
WRENCH.

PATENTED SEPT. 3, 1907.

APPLICATION FILED JUNE 24, 1907.



UNITED STATES PATENT OFFICE.

ELDRIDGE E. SCALES, OF BRADDOCK, PENNSYLVANIA.

WRENCH.

No. 865,127.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed June 24, 1907. Serial No. 380,466.

To all whom it may concern:

Be it known that I, ELDRIDGE E. SCALES, a citizen of the United States of America, residing at Braddock, 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 to provide a simple and inexpensive wrench that can be easily and quickly adjusted, the use of screw threads and nuts being entirely eliminated.

My improved wrench consists of two parts or members slidably connected together, each part or member carrying a jaw. One of the members is toothed and is adapted to be locked in engagement with the other of said members.

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

In the drawing, Figure 1 is a side elevation of the wrench, partly broken away. Fig. 2 is an elevation of the opposite side of the wrench. Fig. 3 is an elevation of the front edge of the wrench, and Fig. 4 is an elevation of the rear edge of the wrench.

The wrench consists of a metallic member 1, the lower end of which upon one side is provided with a handle 2, while the upper end of the member is enlarged to provide a jaw 3 upon the opposite side of the member from the handle 2. The jaw 3 is cut away to provide a shoulder 4, the object of which will presently appear.

Slidably mounted upon the member 1 is an adjustable member 5, the lower end of which upon the outer side is provided with a handle 6 adapted to cooperate with the handle 2, when the wrench is manipulated. The upper end of the member 5 is provided with a jaw 7 and with a longitudinally disposed slot 8. Extending through the slot 8 is a headed pin or guide 9 secured in the member 1. The member 5 is also provided with a lug or lip 10 adapted to engage the shoulder 4 and limit the upward movement of the member 5. Teeth 11 are formed on the rear edge of the member 5, and adapted to engage in said teeth is a bar 12 adjustably secured to the front edge of the member 1, and the side arm 14 of a yoke 15 detachably secured to the front and rear edges of the member 1.

The movement of the member 5 upon the member 1 is limited by the jaws 3 and 7 in connection with the lug or lip 10 carried by the member 5.

Since the pin or guide 9 loosely fits in the slot 8, the member 5 can be swung at an angle to the member 1, to disengage the teeth 11 from the bar 12 and the arm 14, whereby the member 5 can be adjusted upon the member 1 to position the jaw 7 at any desired distance with relation to the jaw 3.

The member 5 is placed in engagement with the member 1 prior to securing the pin or guide 9 and the yoke 15 in engagement with the member 1.

From the foregoing description taken in connection with the drawings, it will be apparent that my improved wrench consists of comparatively few parts not easily injured by roughly using the wrench.

The wrench is made of such a length to permit of considerable leverage being obtained, when it is desired to use the wrench for rotating a nut or similar object.

Having fully described my invention, what I claim and desire to secure by Letters Patent is:

1. A wrench embodying two metallic members slidably connected together, a handle carried by each member, a jaw carried by each member, one of said members having a slot formed therein, a headed pin carried by the other member and extending through said slot, said slotted member having teeth formed on its rear edge, a yoke carried by the other member and having a side arm for engaging said teeth, a bar carried by said member for engaging said teeth, and a lug carried by said slotted member for engaging the jaw of the other member.

2. A wrench embodying two members slidably connected together, handles carried by said members, jaws carried by said members, one of said members having a slot formed therein, a pin carried by the other member and extending through said slot, a yoke carried by the last mentioned member, and adapted to engage teeth formed in said slotted member, and a lug carried by said slotted member for limiting the movement thereof.

3. A wrench embodying two members slidably connected together, a jaw carried by each member, one of said members having a slot formed therein, a pin carried by the other member and protruding through said slot, said slotted member having teeth formed in one edge, and a yoke carried by the other member and adapted to engage the teeth of said slotted member.

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

ELDRIDGE E. SCALES.

Witnesses:

MAX H. SROLOVITZ,
H. C. EVERT.