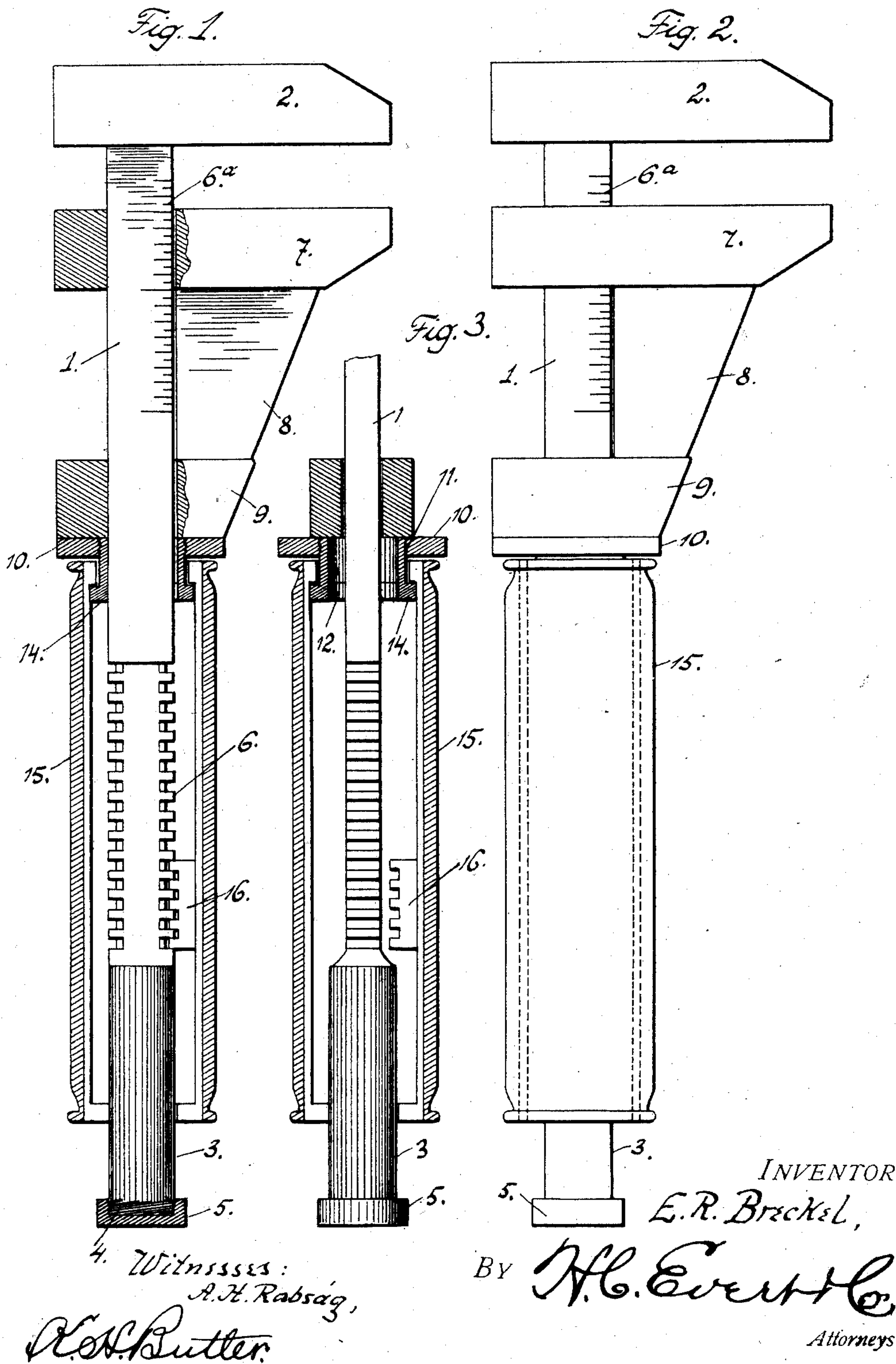


No. 864,607.

PATENTED AUG. 27, 1907.

E. R. BRECKEL.
WRENCH.

APPLICATION FILED JUNE 28, 1907.



UNITED STATES PATENT OFFICE.

ERNEST RICHARD BRECKEL, OF ETNA, PENNSYLVANIA.

WRENCH.

No. 864,607.

Specification of Letters Patent.

Patented Aug. 27, 1907.

Application filed June 28, 1907. Serial No. 381,313.

To all whom it may concern:

Be it known that I, ERNEST RICHARD BRECKEL, a citizen of the United States of America, residing at Etna, 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 novel wrench wherein a novel locking means is employed for retaining the movable jaw of the wrench in a fixed position.

My wrench is constructed upon the principle of a monkey wrench, with the exception that the slow adjustment is dispensed with and novel means employed for easily and quickly adjusting the wrench. To this end, I have devised a wrench wherein the locking mechanism is located in the handle thereof and protected from injury that it might receive where the mechanism is exposed, as in an ordinary monkey wrench.

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 vertical sectional view of the wrench. Fig. 2 is an elevation of the same, and Fig. 3 is a vertical sectional view of the wrench.

To put my invention into practice, I construct my wrench of a shank 1 having a fixed jaw 2. The greater part of the shank is rectangular in cross section, while the lower end of the shank is cylindrical, as at 3, and is threaded, as at 4, to receive a detachable cap 5. The shank 1 adjacent to the cylindrical portion 3 thereof has its edges provided with teeth 6, the object of which will presently appear. The upper part of the shank is graduated, as at 6^a, whereby the jaw 7 can be moved

to a prescribed distance from the fixed jaw 2. Slidably mounted upon shank 1 is a movable jaw 7 having a web portion 8 supporting a strap 9, which embraces the shank 1. Suitably secured to the strap 9 is a plate 10 having a threaded opening 11 to receive a collar 12, the lower end of said collar carrying a peripheral flange 14. Revolvably mounted upon the collar 12 and retained thereon by the flange 14 is a handle or sleeve 15 carrying an inwardly projecting toothed lock 16 adapted to mesh with the teeth 6 of the shank 1.

In assembling the wrench, the jaw 7 and strap 9 are placed upon the shank prior to placing the cap 5 in position. The flanged collar 12 is then placed in the handle or sleeve 15, held therein by a suitable instrument and rotated into engagement with the plate 10. The cap 5 is then placed in position. This construction permits of a free rotation of the handle or sleeve 15, the moving of the block 16 into mesh with the teeth 6 of the shank 1, and a rapid adjustment of the jaw 7 thereby.

The wrench in its entirety is constructed of strong and durable metal, and can be made any desired size.

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

A wrench embodying a shank having diametrically opposed edges provided with teeth, a fixed jaw carried by said shank, a movable jaw mounted upon said shank, a strap carried thereby and surrounding said shank, a plate carried by said strap, a flanged collar threaded into said plate, a handle or sleeve revolvably mounted upon said collar and surrounding said shank, and an inwardly projecting toothed block carried by said sleeve for meshing with the teeth of said shank, and a cap carried by the lower end of said shank.

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

ERNEST RICHARD BRECKEL.

Witnesses:

MAX H. SROLOVITZ,
C. V. BROOKS.