

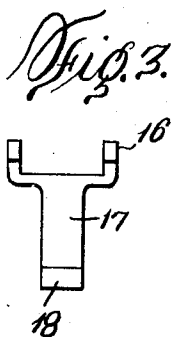
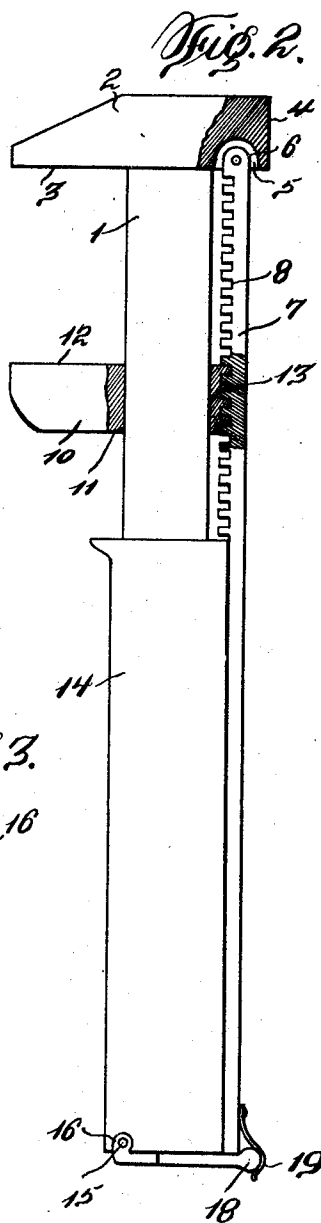
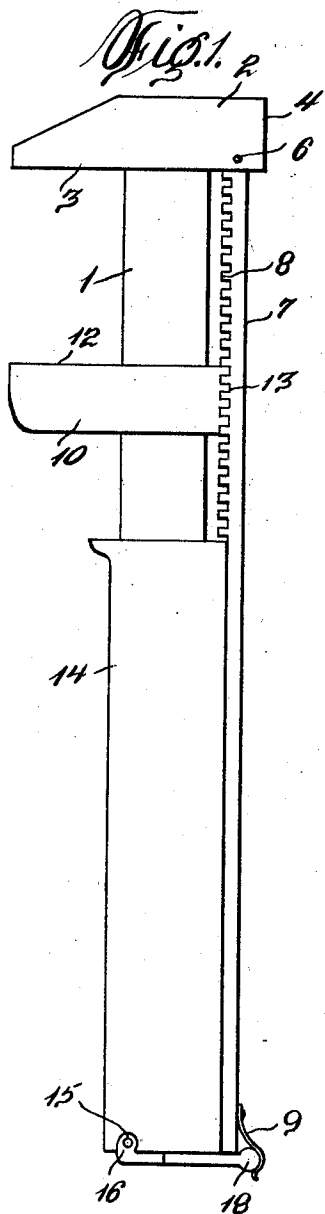
K. LINERTH.

WRENCH.

APPLICATION FILED DEC. 7, 1910.

1,059,173.

Patented Apr. 15, 1913.



WITNESSES

Handwritten signatures of witnesses: David Turner and K. H. Butler

INVENTOR

Handwritten signature of inventor: Karoly Linerth

By

Handwritten signature of attorney: J. C. Everett & Co.

Attorneys

UNITED STATES PATENT OFFICE.

KAROLY LINERTH, OF GRANITE CITY, ILLINOIS.

WRENCH.

1,059,173.

Specification of Letters Patent.

Patented Apr. 15, 1913.

Application filed December 7, 1910. Serial No. 596,099.

To all whom it may concern:

Be it known that I, KAROLY LINERTH, a subject of the King of Hungary, residing at Granite City, in the county of Madison and State of Illinois, 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 wrenches, and the objects of my invention are to furnish a wrench with a novel gripping mechanism for holding the adjustable jaw thereof; to provide a nut wrench that can be easily and quickly adjusted; to provide a wrench that can be advantageously used by machinists and other artisans, and to accomplish the above results by a wrench that is simple in construction, durable, inexpensive to manufacture, and efficient for the purposes for which it is intended.

I attain the above objects by a mechanical construction that will be hereinafter specifically described and then claimed, and reference will now be had to the drawing, wherein:

Figure 1 is a side elevation of the wrench. Fig. 2 is a similar view partly broken away and partly in section, and Fig. 3 is a plan of a detached strap adapted to form part of the wrench.

A wrench in accordance with this invention comprises a shank 1 rectangular in cross section and having smooth sides. One end of the shank 1 is provided with an integral jaw 2 having a gripping surface 3. The jaw 2 has the inner face thereof adjacent to the hammer end 4 provided with a recess 5 and pivotally mounted in said recess by a transverse pin 6 is one end of a locking bar 7 which is of a length as to extend to the outer end of the handle 14 with which the shank 1 is connected. The bar 7 is adapted to extend in parallelism with respect to the shank 1 and handle 14 and that portion of the bar 7 which opposes the shank 1 is of greater width than the portion which opposes the handle 14. The wider portion of the bar 7 is toothed as at 8, the teeth projecting toward the shank 1 and extending over the handle 14 when the bar 7 is positioned parallel with the shank 1 and handle 14. The bar 7 is adapted to abut against the handle 14 and when in such position the free end of said bar is flush with the outer end of the handle. The free end

of the bar 7 is provided with a resilient clip 9 for a purpose to be presently referred to.

The shank 1 is of less thickness than the handle 14 and is disposed centrally with respect to the inner end of the handle whereby the said inner end of the handle will constitute a stop for a movable jaw to be presently referred to.

The side of the bar 7 confronting the shank 1 is provided with teeth 8 and attached to the outer side of said bar at the lower end thereof is a spring or resilient clip 9 for a purpose that will presently appear.

Slidably mounted upon the shank 1 is a movable jaw 10 having an opening 11 for said shank, said jaw having a gripping surface 12 adapted to coöperate with the gripping surface 3 for gripping the facets of a nut. The rear side of the jaw 10 is provided with transverse teeth 13 adapted to mesh with the teeth of the locking bar 7, and when said bar is swung into engagement with the jaw 10, said jaw is firmly held upon the shank 1. The walls of the opening 11 snugly engage the sides of the shank 1 whereby the jaw 10 cannot wobble or sag when stresses and strains are brought to bear upon said jaw by rotating a nut.

Pivotally connected to the sides of the handle 14 at the outer end thereof by a transverse pin 15 are apertured lugs 16 of a strap 17, said strap having the outer end thereof provided with a barrel or cylindrical lug 18 adapted to be engaged by the clip 9, whereby the lower end of the locking bar 7 will be held in engagement with the handle 14 and prevented from becoming accidentally disengaged from the jaw 10 after having been placed in engagement therewith.

It is thought that the operation and utility of the wrench will be apparent without further description, and while in the drawings there is illustrated a preferred embodiment of the invention, I desire it to be understood that the structural elements thereof are susceptible to such changes as fall within the scope of the appended claim.

What I claim is:

1. A wrench comprising a relatively smooth shank having an integral jaw at one end and a handle at the opposite end, both jaw and handle projecting beyond the edge planes of the shank, a jaw loosely fitting and

slidably mounted on the shank and movable longitudinally thereof and having its rear face toothed, a locking bar having one end pivotally mounted within a recess on the inner face of the fixed jaw, said bar having a length to extend substantially flush with the free end of the handle and having its inner face toothed between the fixed jaw and the handle and having that portion of its inner face opposing the handle formed complementary to the rear face of the handle to lie in facial contact therewith when the bar is in jaw-locking position, the teeth of the bar and movable jaw being complementally formed to provide a holding engagement and retain the facial contact of bar and handle, without strain on the bar the movable jaw in rear of the shank projecting a length from the face of said shank to not exceed the distance between the shank and bar, and disengageable means at the free end of the handle and rod to retain said facial contact.

2. A wrench comprising a relatively smooth shank having an integral jaw at one end and a handle at the opposite end, both jaw and handle projecting beyond the edge planes of the shank, a jaw loosely fitting and slidably mounted on the shank and movable longitudinally thereof and having its rear face toothed, a locking bar having one end pivotally mounted within a recess on the inner face of the fixed jaw, said bar

having a length to extend substantially flush with the free end of the handle and having its inner face toothed between the fixed jaw and the handle and having that portion of its inner face opposing the handle formed complementary to the rear face of the handle to lie in facial contact therewith when the bar is in jaw-locking position, the teeth of the bar and movable jaw being complementally formed to provide a holding engagement and retain the facial contact of bar and handle, without strain on the bar the movable jaw in rear of the shank projecting a length from the face of said shank to not exceed the distance between the shank and bar, and disengageable means at the free end of the handle and bar to retain said facial contact, said means embodying a lever having ears at one end pivoted to the sides of the handle and having a length to project beyond the bar when the latter is in closed position, the free end of the lever being enlarged, and a spring member carried by the bar and co-acting with the enlargement to cause the latter to retain the bar against movement.

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

KAROLY LINERTH.

Witnesses:

PAT CREILLEY,
HENRY FECHTE.