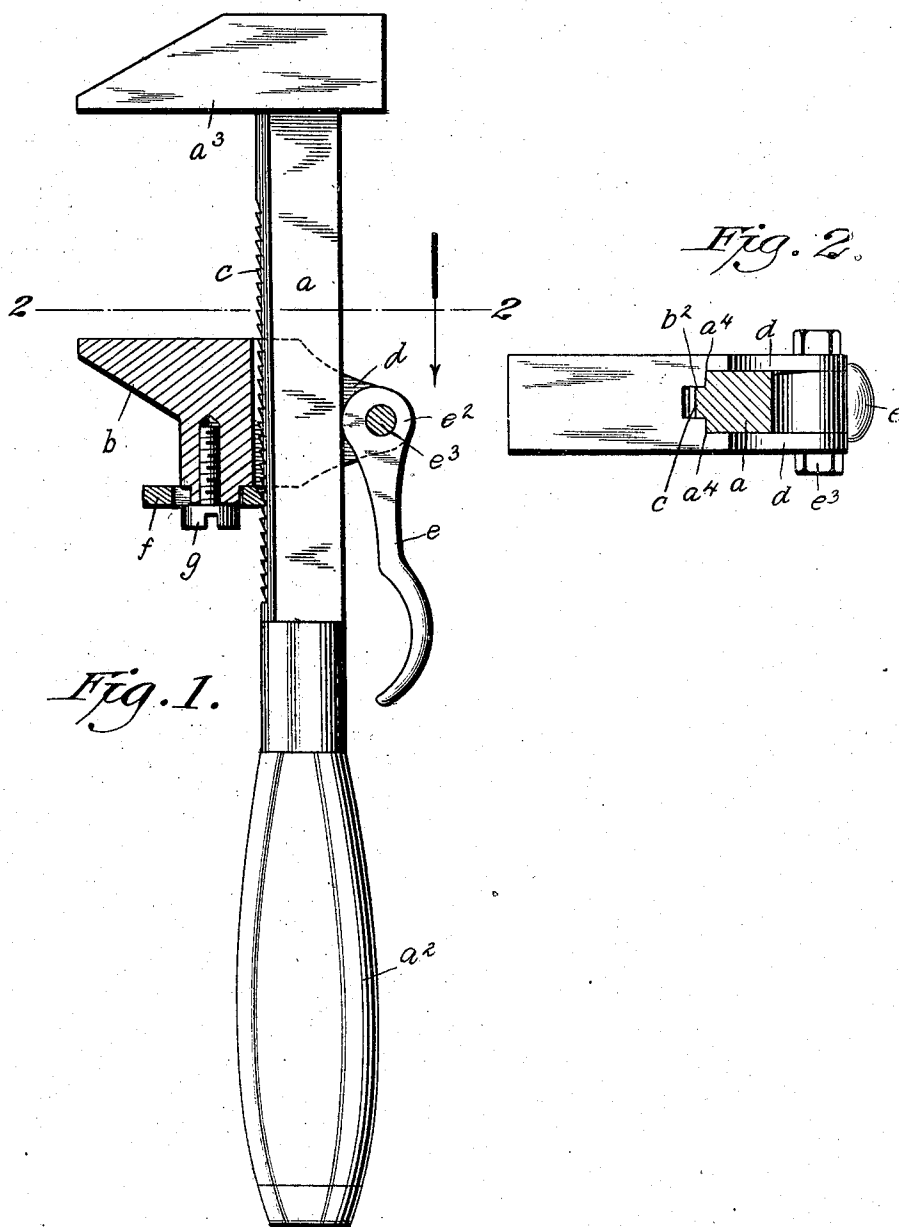


No. 873,191.

PATENTED DEC. 10, 1907.

C. & G. C. VAN HORN.
MONKEY WRENCH.

APPLICATION FILED APR. 25, 1907.



WITNESSES

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CHARLES VAN HORN, OF BETHLEHEM, PENNSYLVANIA, AND GEORGE C. VAN HORN, OF JERSEY CITY, NEW JERSEY.

MONKEY-WRENCH.

No. 873,191.

Specification of Letters Patent.

Patented Dec. 10, 1907.

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To all whom it may concern:

Be it known that we, CHARLES VAN HORN and GEORGE C. VAN HORN, citizens of the United States, residing, respectively, at Bethlehem, in the county of Northampton, State of Pennsylvania, and Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Monkey-Wrenches, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to monkey wrenches and the object thereof is to provide an improved device of this class with improved means for locking the movable jaw at any desired point of adjustment which involves a rack bar on the shank of the wrench, and an adjustable pawl or tang connected with the movable jaw and operating in connection with said rack bar, the jaw and rack bar being so formed as to prevent the said jaw from pressing on the teeth of the rack bar and thus wearing and rendering the same inoperative.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of our improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a sectional side view of my improved wrench, and Fig. 2 a section on the line 2—2 of Fig. 1.

In the practice of our invention we provide a wrench composed in the main of a shank member *a* provided at one side with a handle *a*² and at the opposite end with a stationary jaw *a*³ together with a movable jaw *b* which is mounted on the shank *a* and adapted to be adjusted thereon at any desired point.

The face side of the shank *a* is provided with a central longitudinal rack or ratchet bar *c* which is formed integrally therewith and at each side of which is a groove *a*⁴ formed in the shank *a*, and the movable jaw *b* is provided with longitudinally arranged ribs *b*² which fit in the grooves *a*⁴ and bear on the main part of the shank *a* and prevent the movable jaw from bearing on the top of the rack or ratchet bar *c*, this construction being clearly shown in Figs. 1 and 2.

The movable jaw *b* is provided with backwardly directed ears *d* between which is

pivoted a locking arm *e* having a cam head *e*², the pivot of the arm *e* being made by means of a rod or bolt *e*³ passed through the cam head *e*² and the ears *d* of the movable jaw *b* and by means of the arm *e* the jaw *b* may be locked at any desired point of adjustment on the shank *a*.

That side of the movable jaw *b* adjacent to the handle *a*² of the wrench is provided with a tang *f* consisting of a plate having a central longitudinal slot through which is passed a screw *g* by which said tang is connected with said jaw, and said tang is adapted to operate in connection with the teeth of the rack or ratchet bar *c* and this tang is movable as will be seen at right angles to the shank *a*, and said tang operates in connection with the arm *e* to prevent the movable jaw *b* from sliding on the shank of the wrench when said wrench is in use.

By means of our improvement it will be seen that the jaw *b* does not bear on the teeth of the rack or ratchet bar *c* and said teeth are thus preserved against wear in the use of the wrench. The arm *e* is shown in locking or partial locking position in Fig. 1 and whenever it is desired to adjust the jaw *b* on the shank *a* the said arm must be swung back toward the stationary jaw *a*³ of the wrench, and the movable jaw may then be moved freely on the shank *a* and adjusted to any desired point.

It will be observed that the tang or pawl *f* may also be adjusted but this adjustment of said tang or pawl is not necessary in the adjustment of the jaw *b* as said jaw is free to move laterally sufficiently to permit the tang or pawl *f* to slide over the teeth of the ratchet or rack bar *c* when the arm *e* is swung into its inoperative position.

Having fully described our invention, what we claim as new and desire to secure by Letters Patent, is:—

A monkey wrench provided with the usual movable jaw slidably mounted on the shank of the wrench, the shank of the wrench being provided on the face thereof with a rack or ratchet bar at the opposite sides of which are longitudinal grooves, the movable jaw being also provided with side ribs which fit in said grooves, the transverse depth or thickness of said ribs being greater than the transverse depth of said grooves whereby the said movable jaw is prevented from bearing on the teeth of the rack or ratchet bar, and means

for locking said jaw to the shank of the
wrench at any desired point, consisting of a
tang mounted on the face of the movable
jaw adjacent to the handle and adjustable
5 transversely of the shank of the wrench and
adapted to operate in connection with the
teeth of the rack or ratchet bar, and an arm
pivoted in the back portion of the movable
jaw and provided with a cam head adapted
10 to bear on the shank of the wrench.

In testimony that we claim the foregoing
as our invention we have signed our names in
presence of the subscribing witnesses this
20th day of April 1907.

CHARLES VAN HORN.
GEORGE C. VAN HORN.

Witnesses:

LOUIS BRENDL,
MARTIN V. SCHERRER.