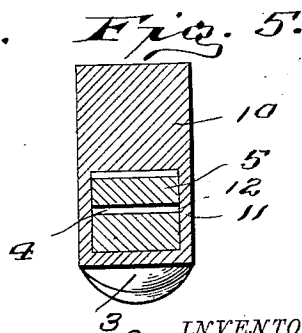
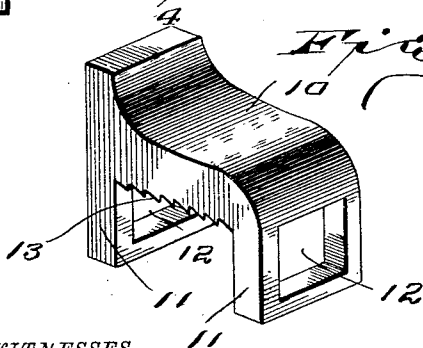
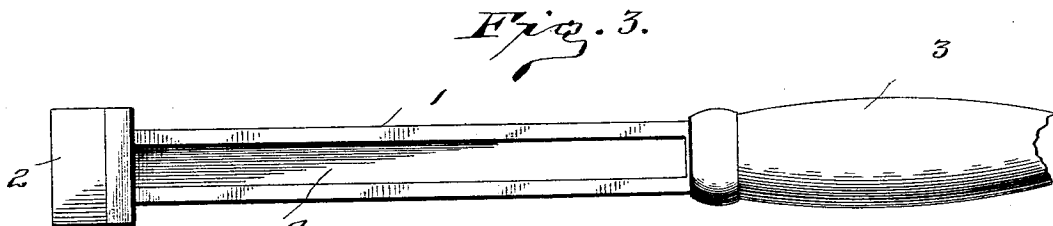
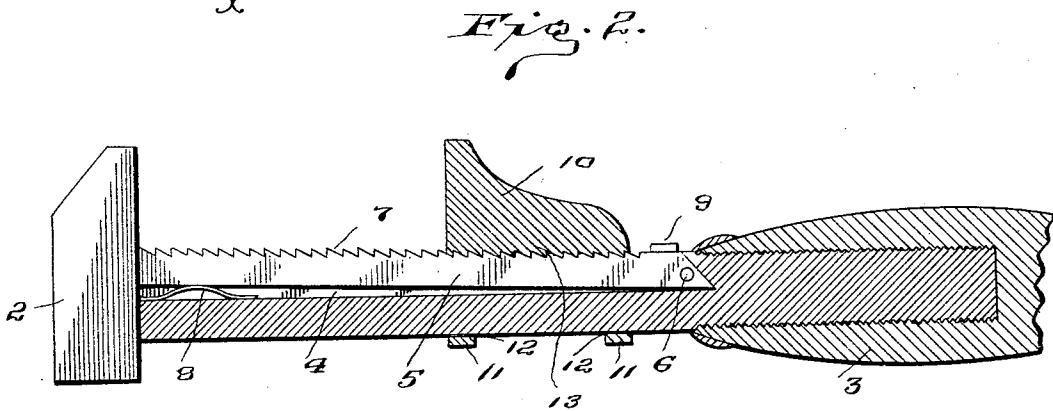
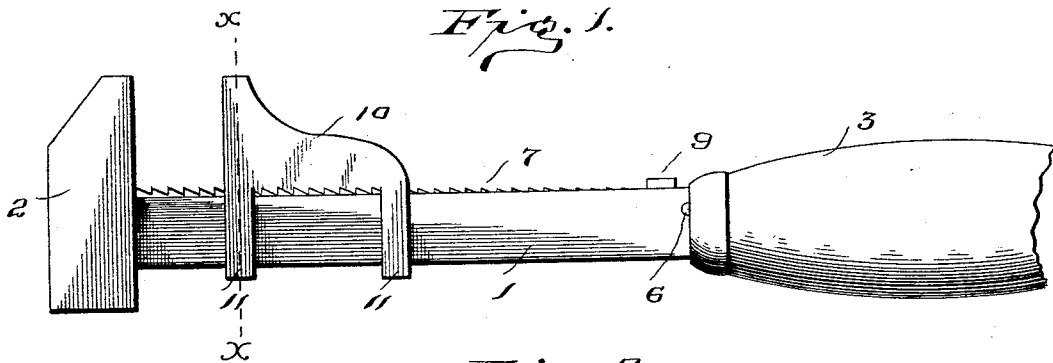


(No Model.)

# J. F. JANSOHN & E. R. MINHINNICK. WRENCH.

No. 587,529.

Patented Aug. 3, 1897.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOSEPH F. JANSOHN AND EDWIN R. MINHINNICK, OF CLEVELAND, OHIO.

## WRENCH.

SPECIFICATION forming part of Letters Patent No. 587,529, dated August 3, 1897.

Application filed November 6, 1896. Serial No. 611,204. (No model.)

*To all whom it may concern:*

Be it known that we, JOSEPH F. JANSOHN and EDWIN R. MINHINNICK, citizens of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Wrenches; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to wrenches, the object of the same being to provide a simple and cheaply-constructed monkey-wrench in which the movable jaw may be readily and quickly adjusted back and forth to accommodate the wrench to different-sized nuts or taps and which when once adjusted cannot become accidentally displaced.

The invention consists of a rectangular bar having a stationary jaw rigidly secured to or formed integral with one end thereof, a handle formed upon its opposite end and provided with a longitudinal groove or recess therein, a locking-plate having teeth upon its upper edge fitting within said groove or recess and pivoted to said bar at one end, a spring for normally urging the free end of said plate outwardly, a button for forcing said plate inwardly against the pressure of said spring, and a movable jaw having lugs or ears formed thereon, provided with slots and embracing said rod or bar, the inner surface of said movable jaw being provided with notches or teeth adapted to engage the teeth on said locking-plate.

The invention also consists in other details of construction and combinations of parts, which will be hereinafter more fully described and claimed.

In the drawings forming part of this specification, Figure 1 represents a side elevation of a wrench constructed according to our invention. Fig. 2 is a longitudinal section through the same. Fig. 3 is a top plan view with the locking-plate and movable jaw removed. Fig. 4 is a detail perspective view of the movable jaw, and Fig. 5 is a cross-section on the line *xx* of Fig. 1.

Like reference-numerals indicate like parts in the different views.

Our improved wrench is made up of a rec-

tangular rod or bar 1, having a stationary jaw 2 secured to or formed integral with one end thereof, and having a handle 3 upon its opposite end. Said rod or bar has formed in the upper side thereof a longitudinal groove or recess 4, in which fits a locking-plate 5, pivoted at its rear end, as shown at 6, and provided with teeth 7 upon its upper edge. The free end of said locking-plate is normally urged outwardly by means of a spring 8, located upon the inside of the groove or recess 4, as clearly shown in the drawings. Connected to the locking-plate 5 at a point adjacent to the handle 3 is a lug or button 9, by means of which said plate may be forced inwardly against the pressure of the spring 8. The movable jaw 10 is provided with lugs or ears 11 11 at opposite ends thereof, which are provided with slots 12 12, through which the rod or bar 1 passes. The inner surface of the movable jaw 10 has notches or teeth 13 formed upon it which are adapted to be engaged by the teeth 7 on the locking-plate 5.

As thus constructed, it will be seen that with the lugs 11 11 on the movable jaw 10 embracing the bar or handle 1 said movable jaw is held against backward movement in any position to which it may be adjusted by means of the engagement of the teeth 7 on the locking-plate 5 with the teeth 13 on said movable jaw. If it be desired to disconnect the wrench from the nut or tap to which it has been applied, it is merely necessary to press upon the lug or button 9, which action will throw inwardly the locking-plate 5 and permit of the rearward movement of said movable jaw. The said jaw may be moved automatically either to open or close the wrench by forcing inwardly the locking-plate 5 in the manner described and holding the handle 3 upwardly or downwardly, according to whether the wrench is to be opened or closed, and permitting the movable jaw 10 to slide in either direction.

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

1. In a wrench, the combination with a rod or bar having a stationary jaw at one end and a handle at the opposite end, of a straight flat locking-plate pivoted at one end thereto, a spring for normally urging the free end of

said locking-plate outwardly, and a movable jaw engaging said rod or bar and adapted to be engaged by said locking-plate, substantially as and for the purpose described.

5 2. In a wrench, the combination with a rod or bar having a stationary jaw at one end and a handle at the opposite end, of a straight flat locking-plate pivoted at one end thereto having teeth upon its outer edge, a spring for  
10 normally urging the free end of said locking-plate outwardly, and a movable jaw embracing said rod or bar and provided with teeth upon its inner surface which are engaged by the teeth on said locking-plate, substantially  
15 as and for the purpose described.

3. In a wrench, the combination with a rod or bar having a longitudinal groove or recess in one face thereof and provided with a stationary jaw at one end and with a handle at  
20 its opposite end, of a straight flat locking-plate fitting within said groove or recess, pivoted to said bar, and provided with teeth upon its outer edge, a spring also located in said recess beneath said locking-plate for normally urging the free end of said locking-  
25 plate outwardly, and a movable jaw embracing said rod or bar and provided with teeth upon its inner surface which are adapted to be engaged by the teeth on said locking-plate, substantially as and for the purpose described.  
30

4. In a wrench, the combination with a rod or bar having a longitudinal groove or recess in one face thereof and provided with a stationary jaw at one end and a handle at its  
35 opposite end, of a straight flat locking-plate fitting within said groove or recess provided

with teeth upon its outer edge and pivoted at its lower end to said rod or bar, a spring for normally urging the free end of said locking-  
40 plate outwardly, and a movable jaw having lugs upon the under side thereof provided with alined openings through which said rod or bar fits and having teeth upon its inner surface which are adapted to be engaged by  
45 the teeth on said locking-plate, substantially as and for the purpose described.

5. In a wrench, the combination with a rod or bar having a longitudinal groove or recess in one face thereof and provided with a stationary jaw at one end and a handle at its  
50 opposite end, of a locking-plate fitting within said groove or recess provided with teeth upon its outer edge and pivoted at its lower end to said rod or bar, a spring for normally urging  
55 the free end of said locking-plate outwardly, a lug or button on said plate whereby the same may be forced inwardly against the pressure of said spring, and a movable jaw having  
60 lugs upon the under side thereof provided with alined openings through which said rod or bar fits and having teeth upon its inner surface which are adapted to be engaged by the teeth on said locking-plate, substantially  
65 as and for the purpose described.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

JOSEPH F. JANSOHN.  
EDWIN R. MINHINNICK.

Witnesses:

EDWARD H. WINKES,  
O. BYERS.