(No Model.)

J. L. WHITEHEAD.

MONKEY WRENCH.

No. 598,588. Patented Feb. 8, 1898.

Fig. 1.

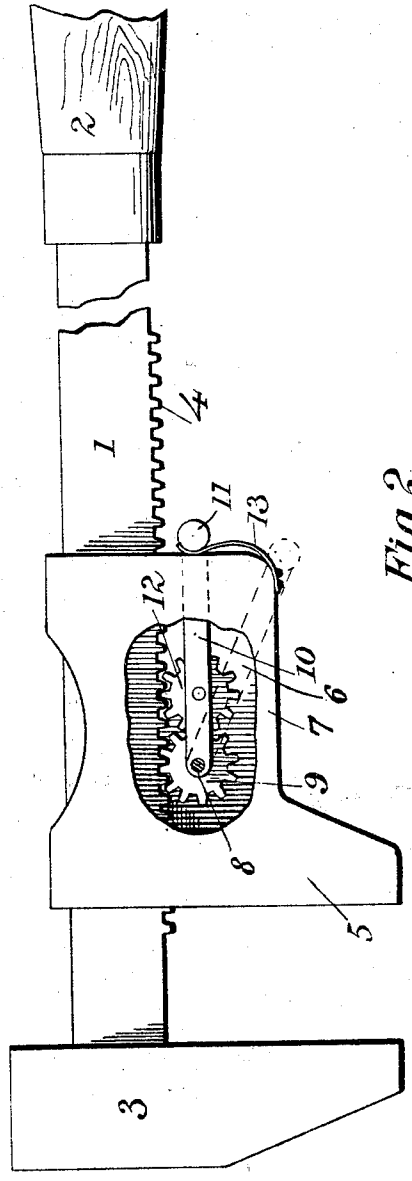
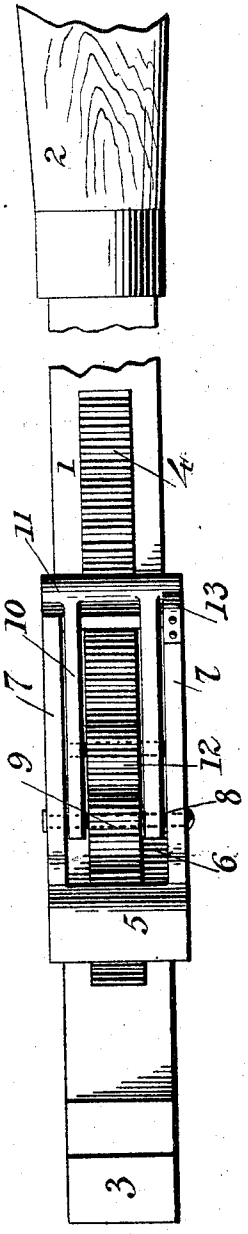


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN L. WHITEHEAD, OF WILLIAMSBURG, KENTUCKY.

MONKEY-WRENCH.

SPECIFICATION forming part of Letters Patent No. 598,588, dated February 8, 1898.

Application filed June 8, 1897. Serial No. 639,877. (No model.)

To all whom it may concern:

Be it known that I, JOHN L. WHITEHEAD, a citizen of the United States, residing at Williamsburg, in the county of Whitley and State of Kentucky, have invented certain new and useful Improvements in Monkey-Wrenches; and I do 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.

My invention relates to an improved monkey-wrench; and the object is to provide a simple, effective, and durable tool of this class.

To this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a side elevation of my improved monkey-wrench, and Fig. 2 is a front view of the same.

1 represents the rectangular shank of the wrench, 2 the handle, and 3 the usual solid head. The shank is provided with rack-teeth 4. A movable jaw 5 snugly encompasses said shank, so as to slide freely thereon, and it is formed with a transverse orifice 6, in the parallel walls 7 7 of which is journaled a shaft 8, on which is pivoted a pinion 9, meshing with the rack-teeth 4 on the shank. A rectangular frame 10 is pivoted at its inner end to said shaft 8, and its outer end is formed with a handle 11, arranged to swing clear of the lower end of the movable jaw 5. In this rectangular frame is pivoted a second pinion 12, which is always in mesh with the pinion 9, and when the frame is in the position shown by the dotted lines it will be seen that the jaw 5 can be freely adjusted along the shank; but when the frame is in the position shown in full lines the pinion 9 locks the movable jaw 5 to the shank through the meshing of the pinion 12 with the teeth 4 on said shank.

13 represents a retaining-spring fixed to the outer end of the sliding jaw 5, and it is adapted to bear with sufficient force against the inner surface of the end of the handle 11 to hold the frame 10 in either a locked or unlocked position.

By referring to Fig. 1 it will be seen that the free end of the spring 13 bears against the handle 11, as shown by the full lines, with sufficient frictional force to retain the pinion 12 in mesh with the rack 4, and when said handle 11 is thrown outwardly from the shank 1 it is forced over the convex portion of the spring, which retains it on the opposite side, as shown by dotted lines in Fig. 1.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

1. A monkey-wrench comprising the shank 1, a head 3, and the teeth 4 formed integral with said shank, in combination with the movable jaw 5, encompassing said shank, the transverse shaft 8 pivoted in said movable jaw, the pinion 9, mounted on said shaft and meshing with the teeth in said shank, a rectangular frame pivoted on said shaft 8, the pinion 12, pivoted in said frame so as to mesh with the pinion 9, and means substantially as described for engaging said pinion 12 with the teeth 4 on the shank 1, substantially as shown and described.

2. A monkey-wrench comprising the shank 1, provided with the integral head 3 and teeth 4, in combination with the sliding jaw 5 encompassing said shank, the transverse shaft 8 pivoted in said sliding jaw, the pinion 9 mounted on said shaft and in mesh with the teeth 4, the frame 10 pivoted on said shaft, the pinion 12 journaled in said frame so as to mesh with the pinion 9, and means substantially as described for holding said pinion 12 in or out of engagement with the teeth 4 on the shank 1, substantially as shown and described.

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

JOHN L. WHITEHEAD.

Witnesses:
JAS. K. WATKINS,
BEN WATKINS.