

(No Model.)

R. H. SEYMOUR.
MONKEY WRENCH.

No. 273,899.

Patented Mar. 13, 1883.

Fig. 1.

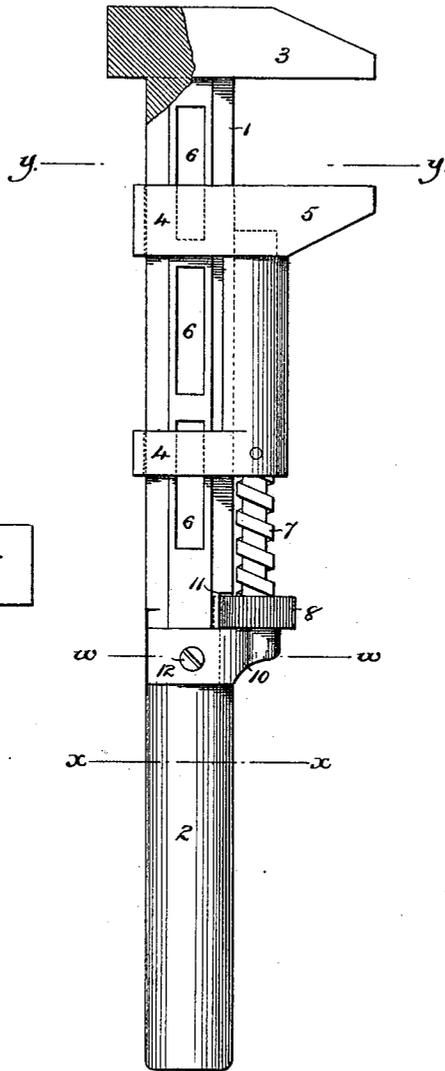


Fig. 3.

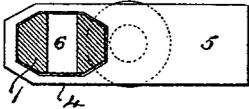
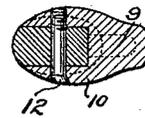


Fig. 2.



Fig. 4.



Attest;
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UNITED STATES PATENT OFFICE.

ROBERT H. SEYMOUR, OF HOLYOKE, MASSACHUSETTS.

MONKEY-WRENCH.

SPECIFICATION forming part of Letters Patent No. 273,899, dated March 13, 1883.

Application filed July 26, 1882. (No model.)

To all whom it may concern:

Be it known that I, ROBERT H. SEYMOUR, a citizen of the United States, residing in the city of Holyoke, county of Hampden, and State of Massachusetts, have invented certain new and useful Improvements in Monkey-Wrenches, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

It is the object of the present invention to produce a wrench of this class which shall be light, strong, durable, simple in construction, and comparatively inexpensive, and in which the shank and handle shall be made in a single piece, the former being of such size as to permit the bearings of the movable jaw to pass readily over the latter.

To this end the invention consists in various features of construction, singly and in combination, as will be hereinafter fully explained and particularly pointed out.

In said drawings, Figure 1 is a side elevation of a wrench embodying my invention. Figs. 2, 3, and 4 are cross-sections taken upon the lines *x x*, *y y*, and *w w*, respectively, of Fig. 1.

The shank 1, handle 2, and stationary jaw 3 are made of steel, malleable iron, or any of the materials usually employed for such purposes, and are cast or wrought in a single piece. The shank 1 should be made octagonal or oval in form, in order to prevent the movable jaw from turning, while the handle may be of the same form, or round; but the oval form, as shown, is to be preferred. The shank 1, it will be observed, is in diameter as large as or a trifle larger than the handle 2, which permits the bearings 4 of the movable jaw 5 to be passed over the handle when the parts are assembled, or when, on account of breakage or for any other reason, it is desired to remove the jaw.

To prevent the tool from being unduly heavy by reason of the extra size of the shank 1, said shank is provided with a series of openings, 6, passing either laterally, as shown, or vertically through it, by which a considerable portion of the metal, and consequently of the weight, is

removed without detracting from the strength to any appreciable extent.

The movable jaw 5 is provided with the usual adjusting-screw, 7, having a milled wheel, 8, by which it can be operated to move the jaw to any desired position. This wheel is of such size that it extends into a recess, 11, formed in the shank 1, so that the forward wall of said recess serves as an abutment to hold the jaw in its open position. The rear face of the wheel 8 rests against the bearing-block 10, the rearwardly-extending end of the screw 7 entering a recess, 9, (see dotted lines in Fig. 4.) in the same, which forms a support to hold the jaw in position when the wrench is in use.

The block 10 is bifurcated, so as to straddle the shank 1, which latter, in order to hold the block firmly in position, is at that point provided with recesses, into which the two members of the bifurcated block extend, all as clearly shown in Fig. 4. The block 10 is secured to the shank by means of the screw or rivet 12, which can be readily withdrawn, so as to allow of the removal of the block whenever it is desired, for any reason, to remove the jaw 5 or screw 7.

What I claim is—

1. In a monkey-wrench, the combination, with the recessed shank, of the removable bifurcated bearing-block 10, and means for securing said block in position, substantially as described.

2. The combination, with the shank and handle, made in one piece and recessed to receive the bearing-block, of the movable jaw having bearings of sufficient size to pass over the handle, the removable bifurcated bearing-block 10, means for securing said block in position, and the adjusting-screw 7, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ROBERT H. SEYMOUR.

Witnesses:

FRITZ CELCE,
JOSEPH PARKER.