

J. C. Terry,

Wrench.

N^o 11,308.

Patented July 11, 1854.

Fig. 1.

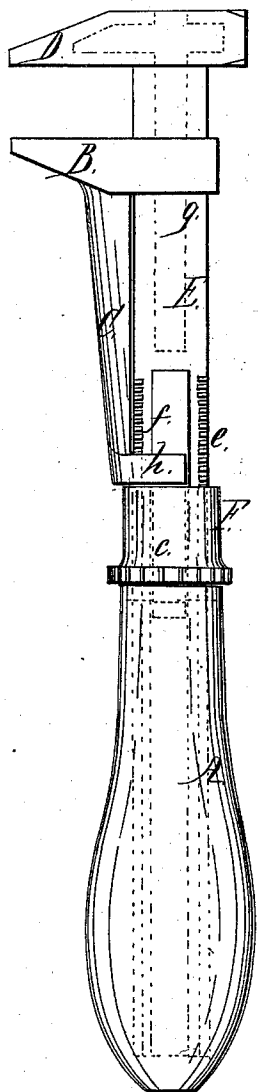


Fig. 2.

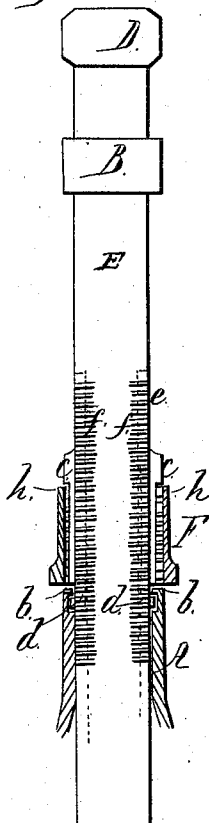


Fig. 3.

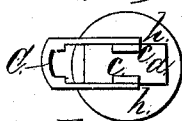
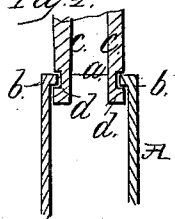


Fig. 4.



Witnesses:
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JABEZ C. TERRY, OF SPRINGFIELD, MASSACHUSETTS.

SCREW-WRENCH.

Specification of Letters Patent No. 11,308, dated July 11, 1854.

To all whom it may concern:

Be it known that I, J. C. TERRY, of Springfield, in the county of Hampden and State of Massachusetts, have invented a new and Improved Screw-Wrench; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1, is a side view of my improved screw wrench. Fig. 2, is a back view of ditto, the nut and the upper portion of the handle being bisected vertically through their centers. Fig. 3, is a top view of the handle, and the straps of the inner jaw. Fig. 4, is a vertical section of the upper part of the handle, showing the manner in which the inner jaw is secured to the handle.

Similar letters of reference indicate corresponding parts in the several figures.

The nature of my invention, consists in attaching the inner or stationary jaw and the handle together by straps which pass through the screw nut of the wrench and into the handle, said straps having recesses in them, in which projections in the handle fit, or by an equivalent attachment.

To enable others skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, represents the handle of the wrench, which is hollow and has an oblong opening, (a), in its top surface, as shown in Fig. 3, the longest sides of said opening forming projections, (b), (b), as shown in Fig. 4, over a portion of the inner diameter of the handle.

B, is the inner and stationary jaw, to the lower part of the shank, C, of which are attached straps, (c), (c), having grooves or recesses, (d), (d), near their lower ends and in their outer sides, as shown clearly in Figs. 2 and 4.

D, is the outer and movable jaw, the shank, E, of which has a screw thread, (e), cut in its edges, the shank being of the usual rectangular form, see Figs. 1 and 2. The shank passes through the back part of the inner and stationary jaw, B, and between the two straps, (c), (c), into the handle, as shown in Fig. 2.

F, is the screw nut which encompasses the straps, (c), (c), and shank, E, the female thread of the nut receiving the male thread cut on the edges of corners of the shank. The lower end of the screw nut rests upon

the upper end of the handle. Two of the sides of the shank have recesses, (f), in them, see Fig. 1 and dotted lines in Fig. 2. The inner sides of the straps, (c), (c), fit in these recesses. The upper part of the shank, E, above the recesses, (f), (f), is cast hollow, as shown by the dotted lines, (g), in Fig. 1.

The several parts of the wrench are put together by first placing the screw nut, F, over the straps, (c), (c), the upper end of the nut bearing against shoulders, (h), at the junction of the shank, C, and straps, (c), (c). The lower ends of the straps, (c), (c), are then inserted in the oblong opening, (a), in the top of the handle, A, lengthwise of the opening, and the handle or straps are turned until the projections, (b), (b), in the handle pass into the recesses or grooves, (d), (d), in the straps. The inner and stationary jaw is then secured to the handle and shank, E, of the movable jaw, D, is passed through the jaw, B, and between the two straps, (c), (c), and through the nut, F, and into the handle, A, the jaw, D, being operated by turning the nut, F.

By the above invention the operator can grasp the whole screw nut on his fingers and then are in contact with it at opposite points, and thus a greater purchase upon the nut is obtained than in ordinary wrenches where the nut is partially embedded in the handle or shank of one of the jaws. The outer jaw also, by this arrangement, is made movable instead of the inner one, which gives a greater amount of leverage, and by having the shank, E, and jaw, D, cast hollow and with recesses, (f), in said shank the jaw, D, and shank, E, will be equally and perfectly annealed.

What I claim as new, and desire to secure by Letters Patent, is:—

Attaching the shank, C, of the inner and stationary jaw, B, to the handle, A, by means of straps, (c), (c), or their equivalents, attached to the lower end of said shank, C, said straps passing through the screw nut, F, and into the handle, and having grooves or recesses, (d), (d), in them which, when the straps or handle are turned, receive projections, (b), (b), on the top of the handle, as herein shown and described.

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