

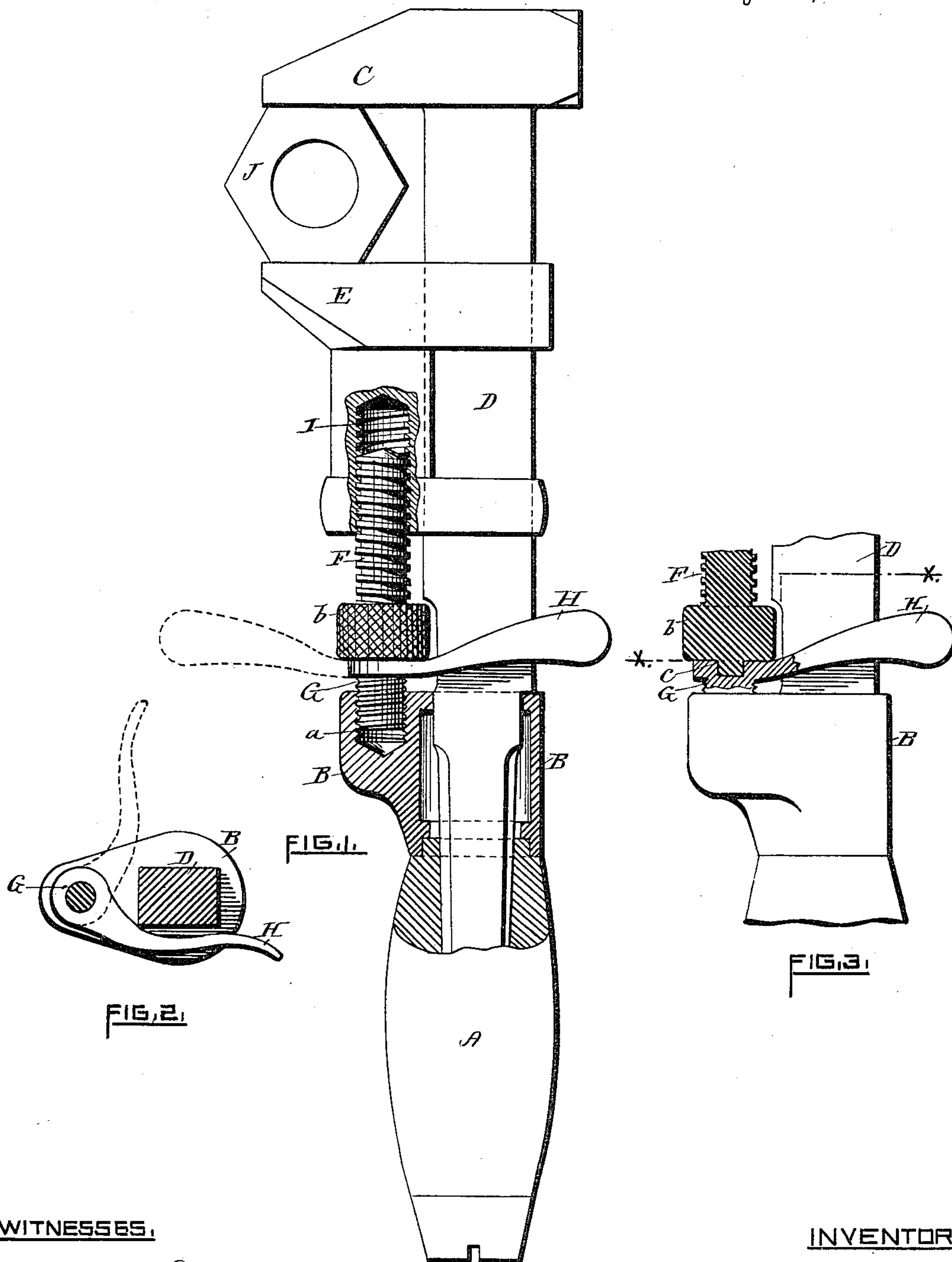
(No Model.)

W. E. TAFT.

WRENCH.

No. 362,908.

Patented May 10, 1887.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

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## WRENCH.

SPECIFICATION forming part of Letters Patent No. 362,908, dated May 10, 1887.

Application filed January 17, 1887. Serial No. 224,630. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER E. TAFT, a citizen of the United States, residing at Providence, in the State of Rhode Island, have invented  
5 a new and useful Improvement in Wrenches, of which the following is a specification.

My invention relates to that class of wrenches the jaws of which are made adjustable by means of a screw; and it consists in the improved combination of the jaw-operating  
10 screw with a supplemental screw and lever and the ferrule of the wrench, as hereinafter fully set forth.

Figure 1 is a side view of the wrench provided with my improvement, a portion of the ferrule being broken away to show the supplemental screw for tightening the jaws upon the  
15 nut. Fig. 2 represents a cross-section taken in the line *xx* of Fig. 3. Fig. 3 is a detail view showing the socket in the supplemental screw.

In the accompanying drawings, A is the handle of the wrench; B, the ferrule; C, the stationary jaw; D, the shank; E, the movable jaw  
25 having a screw-threaded socket, I; and F, the operating-screw, which is provided with the milled collar *b* for turning the same, and enters the socket I of the movable jaw. The supplemental screw G, provided with an integral  
30 handle or lever, H, is recessed or chambered to form a bearing-socket, *c*, for the rear end of the screw F, and is screwed into the threaded chamber *a* or socket in the ferrule B, so that when the handle or lever H is turned  
35 up against the side of the shank D, as shown in Fig. 2, the screw F and movable jaw E will be pressed forward.

In operating with the wrench, the lever H of the supplemental screw is first turned downward to the position shown by the broken lines  
40 in Fig. 1, and the jaws of the wrench then brought against the sides of the nut by means of the fingers operating upon the milled collar *b* of the screw F, to revolve the same. Then, by bringing the lever H back to the position at  
45 the side of the shank D, as shown by the full lines, the screw F and jaw E will be pressed forward in a powerful manner to tightly grip the nut J between the jaws C and E.

My improvement, as above described, can  
50 be readily applied to the screw-wrenches in common use by simply removing the ferrule of the same and substituting therefor a new ferrule having a screw-threaded socket, *a*, adapted to receive the supplemental screw,  
55 thus effecting a desirable improvement in wrenches which have already been manufactured and are now in use.

I claim as my invention—

In combination, the stationary jaw C, movable jaw E, provided with a screw-threaded  
60 socket, I, operating-screw F, having a milled collar, *b*, the supplemental screw G, provided with the integral lever H, and the screw-holding socket *c*, and the ferrule B, provided with  
65 the screw-threaded socket *a*, adapted to receive the supplemental screw, substantially as described.

WALTER E. TAFT.

Witnesses:

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