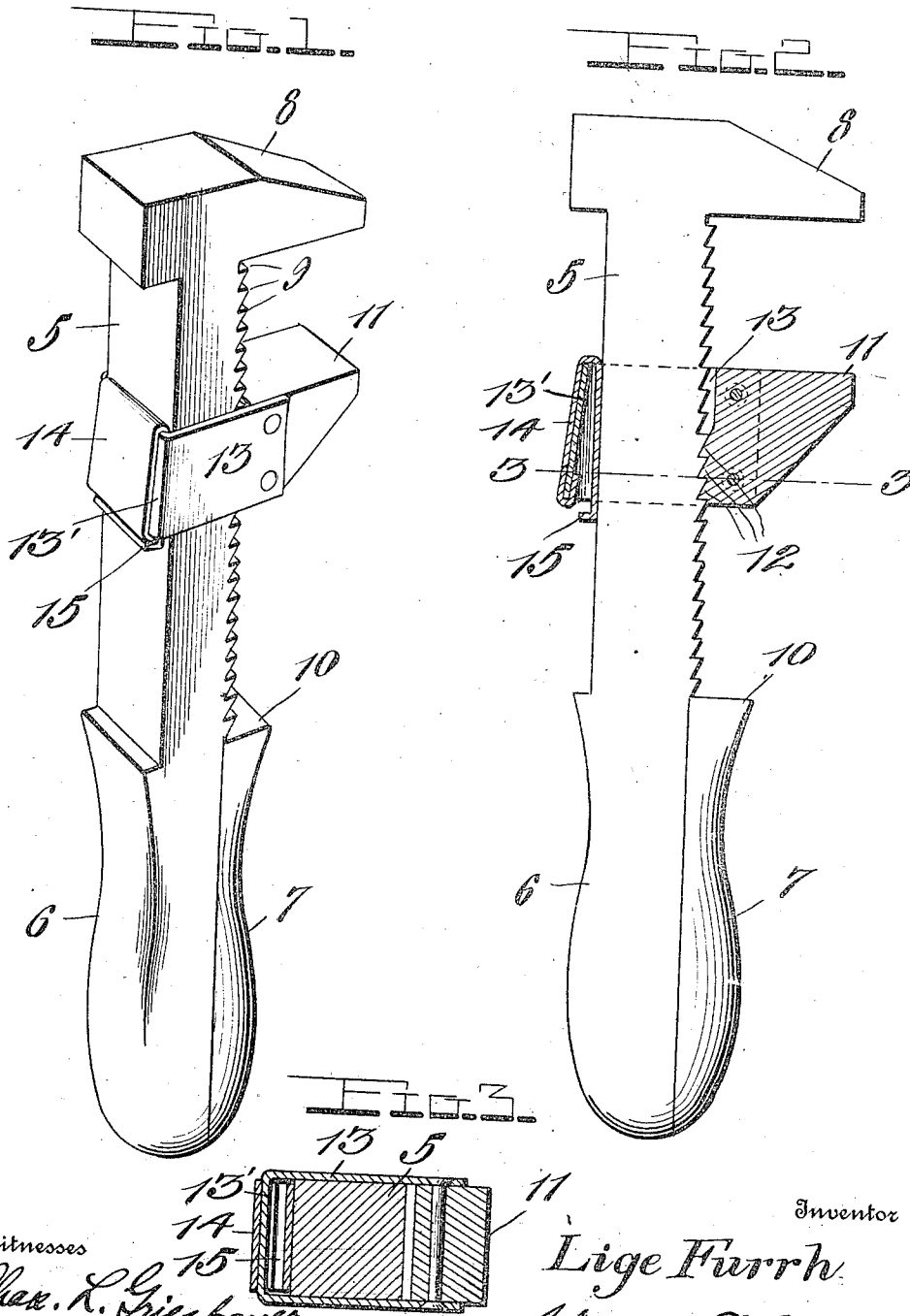


E. FURRH.  
WRENCH.

APPLICATION FILED JAN. 19, 1911.

995,668.

Patented June 20, 1911.



Witnesses

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# UNITED STATES PATENT OFFICE.

ELIJAH FURRH, OF GRAND SALINE, TEXAS.

## WRENCH.

995,668.

Specification of Letters Patent. Patented June 20, 1911.

Application filed January 19, 1911. Serial No. 603,532.

*To all whom it may concern:*

Be it known that I, ELIJAH FURRH, a citizen of the United States, residing at Grand Saline, in the county of Van Zandt and State of Texas, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to improvements in quick adjusting wrenches and has for its object to provide a device of this character of extreme simplicity, and one which is very efficient in practical use and may be produced at a low cost.

A further object of my invention is to provide a wrench comprising a shank and stationary jaw, a movable jaw adjustable on the shank, and means for rigidly locking the movable jaw in its adjusted position.

20 With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a wrench embodying my improvements; Fig. 2 is a longitudinal section of the same; and Fig. 30 3 is a section taken on the line 3—3 of Fig. 2.

Referring in detail to the drawing 5 designates the shank of the wrench which is preferably of rectangular form and is provided upon one end with a handle portion 6. This handle portion, however, comprises but one-half of the entire handle of the wrench, the other portion thereof being a separate element 7 which is suitably fixed to the handle portion 6 by means of nails, screws, 40 or similar fastening devices.

The shank 5 is formed upon its upper end with the usual stationary wrench head 8 and upon one edge of the shank the same is formed with the rack teeth 9 which extend 45 between the under side of the head 8 and the end of the handle section 7 which provides a stop shoulder 10 to limit the downward movement of the adjustable jaw 11. The jaw 11 is formed upon one edge with a number of teeth 12 for engagement with the teeth 9 upon the wrench shank 5. A U-shaped yoke plate 13 is secured at its ends to the adjustable jaw 11 and embraces the shank 5. Upon the intermediate transverse 50 portion 13' of the yoke plate, a resilient locking plate 14 is arranged. This plate is

formed from a single piece of resilient sheet metal and is bent, as clearly shown in Fig. 2. One end of this plate is engaged upon the lower edge of the yoke plate and extended upon the exterior thereof and bent 60 over said yoke plate between the parallel portions thereof and is disposed between said plate and the edge of the shank 5 opposite to the teeth 9. The lower end of this last named portion of the plate is slightly bent or flanged, as indicated at 15. The bearing engagement of the free end of the plate upon the wrench shank normally tends to force the lower end of the intermediate portion of the yoke plate outwardly 70 away from the shank and dispose the teeth of the adjustable jaw into locking engagement with the teeth 9 on the shank. The jaw 11 may be instantly released by simply pressing upon the lower end of the spring 75 plate 14 to force the same away from the shank. The jaw may thus be easily and quickly adjusted longitudinally upon the shank and when pressure is released the spring plate 14 forces the jaw into locking 80 engagement with the shank.

From the foregoing description, it will be understood that the device may be operated with the use of but one hand, the operator 85 grasping the handle and simply pressing upon the spring element with his thumb and then moving the yoke and the jaw 11 which is carried thereby with the same digit.

While I have described a preferable form 90 of my improved wrench, it will be obvious that it may also be manufactured in many other desired forms without departing from the essential feature involved therein. Many other minor modifications in the form 95 and proportion of the various parts may also be resorted to without sacrificing any of the advantages of the invention.

Having thus described the invention what is claimed is: 100

The herein described wrench comprising a shank having a stationary jaw formed on one end thereof and a handle on its other end, said shank also having rack teeth 105 formed upon one of its faces, a movable jaw on said shank including a yoke member embracing the wrench shank, said jaw having teeth formed thereon for engagement with the teeth of the shank, the intermediate portion of said yoke member being inclined 110 with relation to the opposed face of the wrench shank, and a resilient locking plate

having one end bent around one edge of the intermediate portion of the yoke member and rigidly secured thereto, said plate extending upon the outer face of said yoke member and engaging closely thereon, and bent over the other edge of said yoke member and disposed between the intermediate portion of the same and said wrench shank, said last named portion of the locking plate normally engaging closely with the wrench shank and spacing the intermediate inclined

portion of the yoke member therefrom, said resilient locking plate yieldingly holding the teeth of the movable jaw in engagement with the teeth of said shank.

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

LIGE FURRH.

Witnesses:

LEE ROY WILHITE,  
JNO. M. DEAN.