M. BELCHER.

WRENCH.

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1,386,229. Patented Aug. 2, 1921.

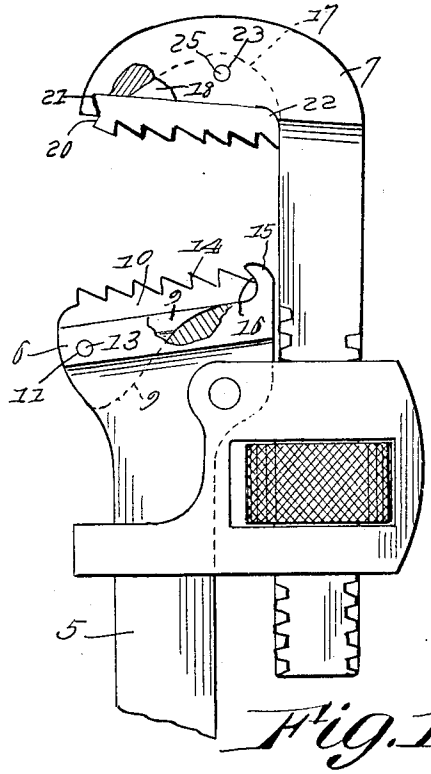


Fig. 1.

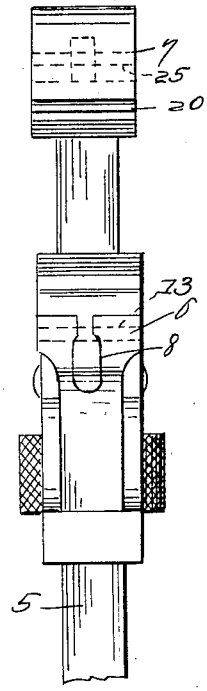


Fig. 2.

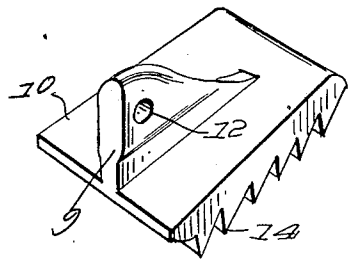


Fig. 3.

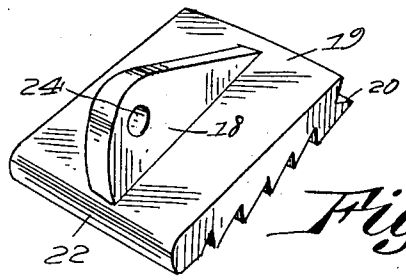


Fig. 4.

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WRENCH.

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To all whom it may concern:

Be it known that I, MARK BELCHER, a citizen of the United States of America, and resident of Goose Creek, in the county of Harris and State of Texas, have invented certain new and useful Improvements in Wrenches, of which the following is a specification.

This invention relates to tools and particularly to wrenches, the said invention having for its object the provision of novel means whereby the engaging faces of the jaws may be renewed or changed for the purpose of substituting those of different contours in order that a wrench may be made convertible from a nut to a pipe wrench or the like; the said invention having for its further object the provision of novel means whereby the faces of the jaws may be securely held in place without liability of developing lost motion.

A still further object of this invention is to produce a wrench having changeable jaw faces which faces may be readily applied to or removed from the jaws, making it possible to prolong the utility of a wrench by reason of the fact that worn or impaired faces may be displaced and renewed, a condition which will result in economical maintenance of such an equipment.

With the foregoing and other objects in view, the invention consists in the details of construction, and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this application wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 illustrates a view in elevation of a fragment of a wrench showing jaw faces embodying the invention applied thereto;

Fig. 2 illustrates a front elevation thereof;

Fig. 3 illustrates a perspective view of the lower jaw face; and

Fig. 4 illustrates a perspective view of the upper jaw face.

In these drawings 5 denotes a fragment of a handle having a jaw 6 integral therewith, and 7 denotes a movable jaw which may be adjustably connected to the handle in any appropriate manner. As the details by which these parts are assembled or associated are immaterial, they will not be described in detail.

For the purpose of carrying the invention into effect, the jaw 6 has a seat or groove 8 formed in it, preferably of the configuration shown in Fig. 2 and it is intended to receive the rib 9 formed preferably integral with the face plate 10. The jaw has a transversely disposed aperture 11 and the rib has an aperture 12 which is adapted to aline therewith for the purpose of receiving a fastening 13 which may be in the nature of a pin or rivet. The teeth 14 of the face plate may be of any appropriate configuration. The jaw 6 has an end lug 15 recessed to form a seat 16 in which the inner edge of the face plate is seated and preferably the joint between these elements is quite close to prevent any liability of lost motion.

The upper jaw is recessed as at 17 to form a seat for a fin 18 formed on the face plate 19, the said face plate having its outer edge beveled to form a projection 20 which enters a recess 21 formed in the inner edge of the jaw at the outer end. The inner edge of the face plate is curved as at 22 and serves to force the projection 20 into the seat to insure a tight fitting of the parts when the fin 18 of the face plate is inserted in the seat or recess 17 of the jaw. The jaw 7 also has a transversely disposed aperture 23 with which an aperture 24 in the fin 18 alines for receiving a fastening 25 such as a pin or rivet by which the face plate is secured to the jaw.

As has been stated, these face plates are removable although when properly seated and secured, they will withstand wear to which these elements are usually subjected.

The construction and operation of the device will, it is thought, be understood from the foregoing description without a résumé of the operation, as a description of the functions and relations of parts have been given in connection with a description of the elements themselves.

I claim:

1. In a wrench, a stationary jaw and a movable jaw, the said stationary jaw having a recess extending from its outer edge to the inner edge, the said groove having a restricted opening at its point of merger with the outer face of the jaw, a face plate having a rib conforming to the contour of the recess, the said rib fitting in the recess, a lug at the inner edge of the jaw having a

recess in its outer face in which the edge of the face plate is seated, and means for securing the face plate to the jaw.

2. In a wrench, a stationary jaw and a movable jaw, the said movable jaw having a recess in its inner face and its inner surface at the outer end of the jaw, a face plate having a projection extending from its inner surface seated in the first mentioned recess of the movable jaw, and a projection on its outer edge fitting in the second mentioned recess of the movable jaw, the said face plate having a curved inner edge fitting to the contour of the jaw, and means for securing the projections of the face plate to the said movable jaw.

3. In a wrench, a stationary jaw and a movable jaw, the said stationary jaw having a recess extending from its outer edge to the inner edge, the said groove having a restricted opening at its point of merger with the outer face of the jaw, a face plate having a rib conforming to the contour of the recess, the said rib fitting in the recess, a lug at the inner edge of the jaw having a recess in its outer face in which the edge of the face plate is seated, means for securing the face plate to the jaw, the said movable jaw having a recess in its inner face and its inner surface at the outer end of the jaw, a face plate having a projection extending from its inner surface seated in the first mentioned recess of the movable jaw and a projection on its outer edge fitting in the second mentioned recess of the movable jaw, the said face plate having a curved inner edge fitting to the contour of the jaw, and means for securing the projections of the face plate to the said movable jaw.

MARK BELCHER.