Jan. 9, 1923. 1,441,934.

G. KUHNS.

WRENCH.

FILED JUNE 22, 1921.

Fig. 1.

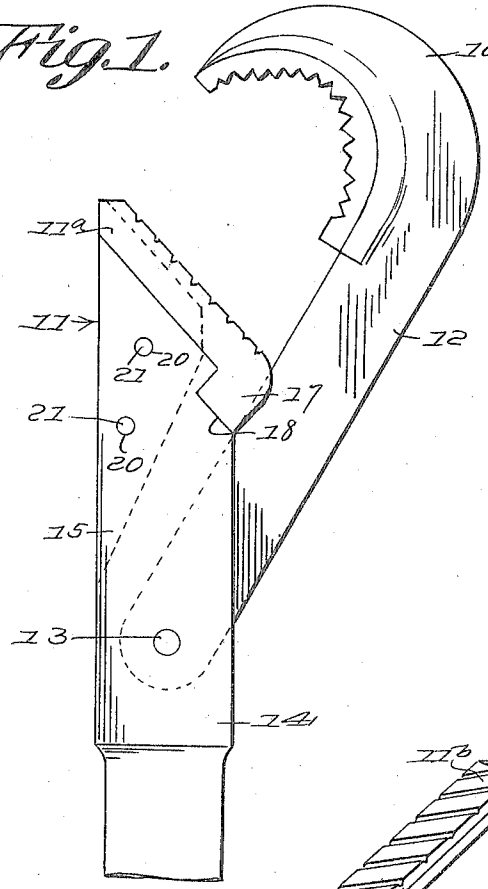
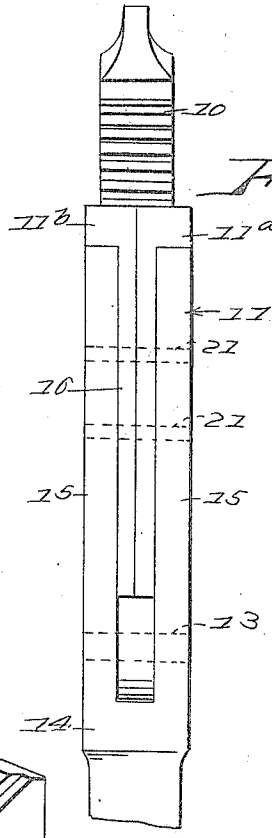


Fig. 2.



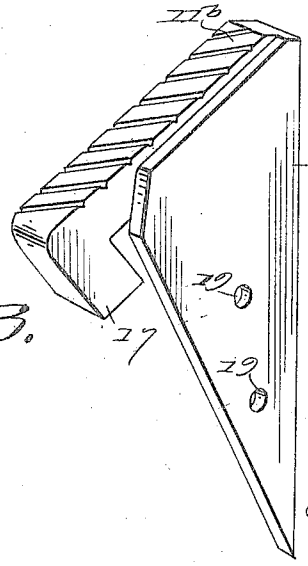


Fig. 3.

Inventor

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By

Attorney

Patented Jan. 9, 1923. 1,441,934

UNITED STATES PATENT OFFICE.

GEORGE KUHNS, OF DUNCAN, OKLAHOMA.

WRENCH.

Application filed June 22, 1921. Serial No. 479,596.

To all whom it may concern:

Be it known that GEORGE KUHNS, a citizen of the United States of America, residing at Duncan, in the county of Stephens and State of Oklahoma, has invented new and useful Improvements in Wrenches, of which the following is a specification.

The object of the invention is to provide a simple and efficient pipe or rod wrench wherein the inner or shank carrying jaw may readily be replaced or removed for repair or interchange to suit the character of the work to be performed without necessitating the modification or reorganization of the tool in other respects; and with this object in view the invention consists in a construction and combination of parts of which a preferred embodiment is shown in the accompanying drawings, wherein:—

Figure 1 is a side view of a wrench head embodying the invention.

Figure 2 is a face view of the same.

Figure 3 is a detail view in perspective of one of the interchangeable or removable jaw members.

The wrench consists essentially of outer and inner jaws 10 and 11 of which the former is movable relative to the latter and is carried by a swinging arm 12 pivotally mounted as at 13 to the shank 14 which carries the inner jaw.

The shank is bifurcated at the end adjacent to the jaws to form parallel cheeks 15 between which the pivotal end of the arm carrying the swinging jaw is arranged, and the inner or fixed jaw consists of complemental members 11^a and 11^b having ears 16 in the form of flat plates of substantially triangular form adapted to fit between the cheeks 15 and completely occupy the space or interval between the facing surfaces thereof as indicated in Figure 2, the bars constituting the faces of the inner jaw members being deflected at their inner ends to form tongues 17 for engagement with offset seats 18 in the shank, said seats being disposed transversely in relation to the path of swinging movement of the arm 12.

The ears 16 and the cheeks 15 are provided with registering openings 19 and 20 for the reception of transverse pins 21 to lock the inner or fixed jaw members in place.

Obviously when the inner jaw members become worn or enlarged in any way they may be replaced or have special work jaws of different constructions or having different contours or forms of serrations may be substituted merely by the displacement of the pins 21.

Having described the invention, what is claimed as new and useful is:—

A pipe wrench having a shank bifurcated at one end and carrying a swinging jaw of which the arm is pivotally mounted in the space between the cheeks of the bifurcation, complemental jaw members having ears disposed in the interval between said cheeks, the rear ends of said jaw members having downwardly deflected tongues and the shank having a transverse seat for interlocking engagement with said tongues, and means for preventing endwise movement of said ears.

In testimony whereof he affixes his signature.

GEORGE KUHNS.