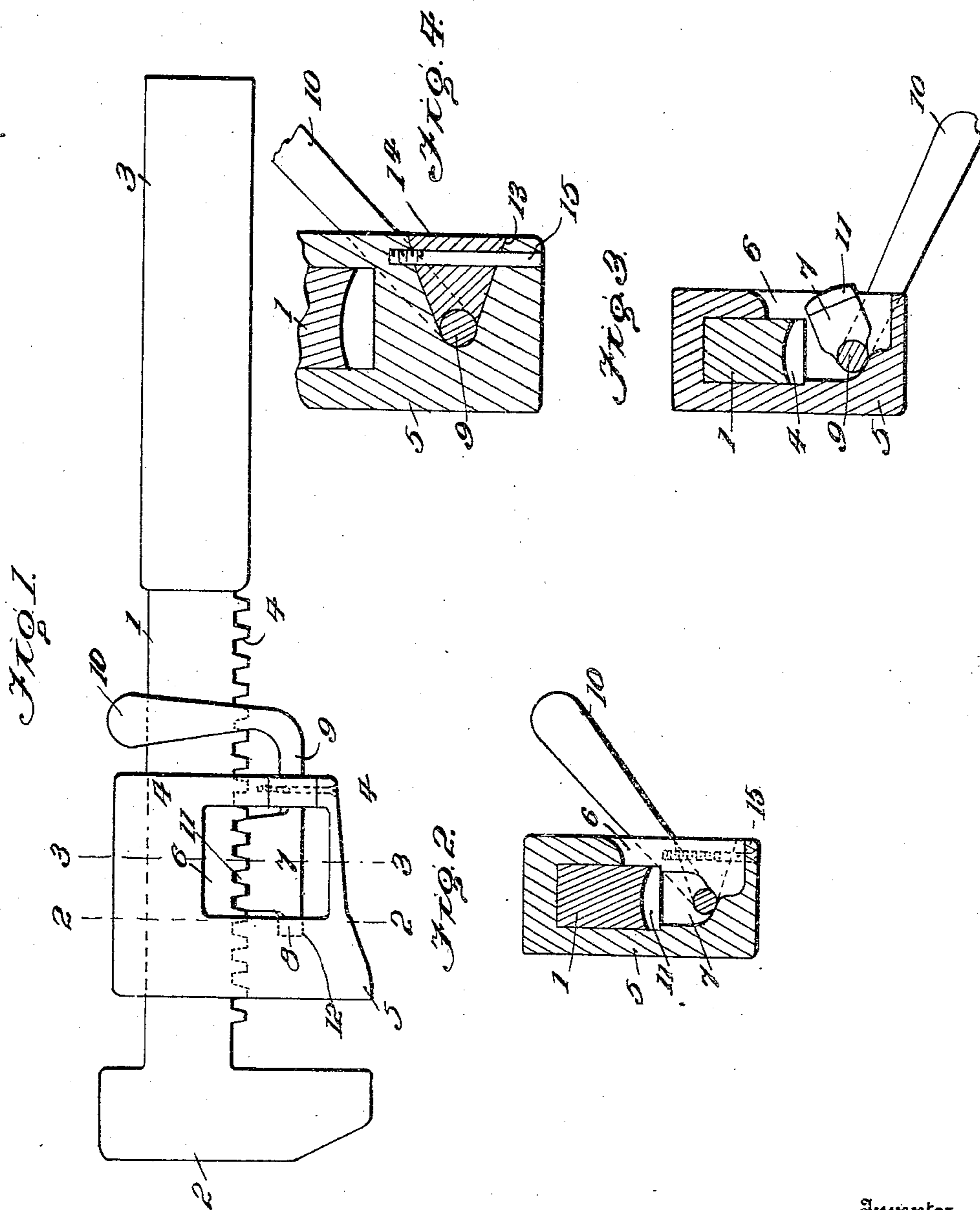


J. J. PARSONS.
WRENCH.

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931,640.

Patented Aug. 17, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH J. PARSONS, OF MOUNT IDA, ARKANSAS.

WRENCH.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH J. PARSONS, citizen of the United States, residing at Mount Ida, in the county of Montgomery and State of Arkansas, have invented certain new and useful Improvements in Wrenches, of which the following is a specification.

The purpose of the present invention is to provide a tool of the wrench type which may be quickly adjusted to the work and made secure in the located position of the movable part, so as to prevent possible slipping.

The invention has relation more particularly to means for securing the movable jaw of a wrench and to release said jaw to admit of easy and quick adjustment thereof when adapting the tool to the size of the article to be held between the jaws when the tool is in operation.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a side view of a wrench constructed in accordance with and embodying the essential features of the invention; Fig. 2 is a transverse section on the line 2—2 of Fig. 1; Fig. 3 is a cross section on the line 3—3 of Fig. 1; and, Fig. 4 is a cross section on the line 4—4 of Fig. 1.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The tool comprises a shank 1, a fixed jaw 2 at one end of the shank and a handle 3 at the opposite end thereof. The lower side of the shank 1 is toothed, as indicated at 4, so as to cooperate with a lock device to secure the movable jaw when set to the required position. The nature and formation of the teeth 4 may be such as commonly provided in tools of this type.

The movable jaw 5 is slidable upon the shank 1 and is provided in a side with a recess 6 to admit of the lock device having free movement, and also being placed in position or removed when required. The jaw 5 cooperates with the fixed jaw 2 in the manner well understood in tools of this variety.

The lock device consists of a block 7 having journals 8 and 9 at opposite ends, one of the journals being extended and deflected laterally to form a finger-piece 10. The

block 7 is toothed at one edge, as indicated at 11, the teeth being of such form as to match the teeth 4 to cooperate therewith and secure the jaw 5 in the located position. A recess 12 is formed in an end wall of the recess 6 to receive the journal 8, and the opposite wall of said recess is formed with a notch or opening 13, which is closed by means of a block 14 of wedge form, said block being held in place by means of a pin or screw 15 passed through openings formed in the block 14 and in the walls of the recess 13. The inner end of the block 14 is made concave to fit around the journal 9. When the block 14 is removed the lock device may be readily placed in position or removed from the jaw 5. When placing the lock device in position the journal 8 is fitted in the recess 12 and the journal 9 is passed through the notch or opening 13 after which the block 14 is placed in position to close said opening and is made secure by the pin or screw 15. The lock device is adapted to turn freely about the journals 8 and 9 and is operatable by means of the finger-piece 10. When the jaw 5 is released by moving the lock device to disengage its toothed portion 11 from the toothed portion 4 of the shank 1, as indicated in Fig. 3, the said jaw may be moved easily upon the shank 1 by a sliding action and when in the required position the said jaw is secured by moving the lock device to engage the teeth 11 of the block 7 with the teeth 4, as indicated most clearly in Fig. 2.

The construction is such as to admit of the lock device being easily placed in position and quickly removed, as occasion may require, with the result that repairs may be cheaply made and the parts quickly assembled, thereby enabling the tool to be manufactured economically, so as to be placed upon the market at a comparatively low cost. It is also observed that the construction is such as to admit of the several parts being cast or drop-forged.

Having thus described the invention what is claimed as new is:

1. In a tool of the character described the combination of a shank, a jaw movable upon the shank and having a recess in a side thereof, and having openings in the walls of said recess, one of the openings being outwardly flared and extended through a side of the jaw, a lock device comprising a block having journals at opposite ends and having

one of the journals extended and laterally deflected to form a finger-piece, the block fitting within the recess and its journals mounted in the openings formed in the walls thereof, a wedge shaped block closing said flared opening, and a pin for securing said block in position.

2. A wrench comprising a shank having a jaw and having a side toothed in its length, a movable jaw mounted upon the shank and provided in a side with a recess, and having openings in the walls of the recess, one of the openings being outwardly flared and extended through a side of the block, a lock device fitted in said recess and comprising

a block having an edge portion toothed to match the teeth of the shank and having journals at its ends, one of the journals being extended and deflected laterally to form a finger-piece, said journals being mounted in the openings formed in the walls of said recess, a wedge shaped block closing the flared opening, and a pin for securing the wedge shaped block in position.

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

JOSEPH J. PARSONS. [L. s.]

Witnesses:

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