

No. 783,263.

PATENTED FEB. 21, 1905.

E. J. J. GREGERSON.

WRENCH.

APPLICATION FILED APR. 22, 1904.

Fig. 1.

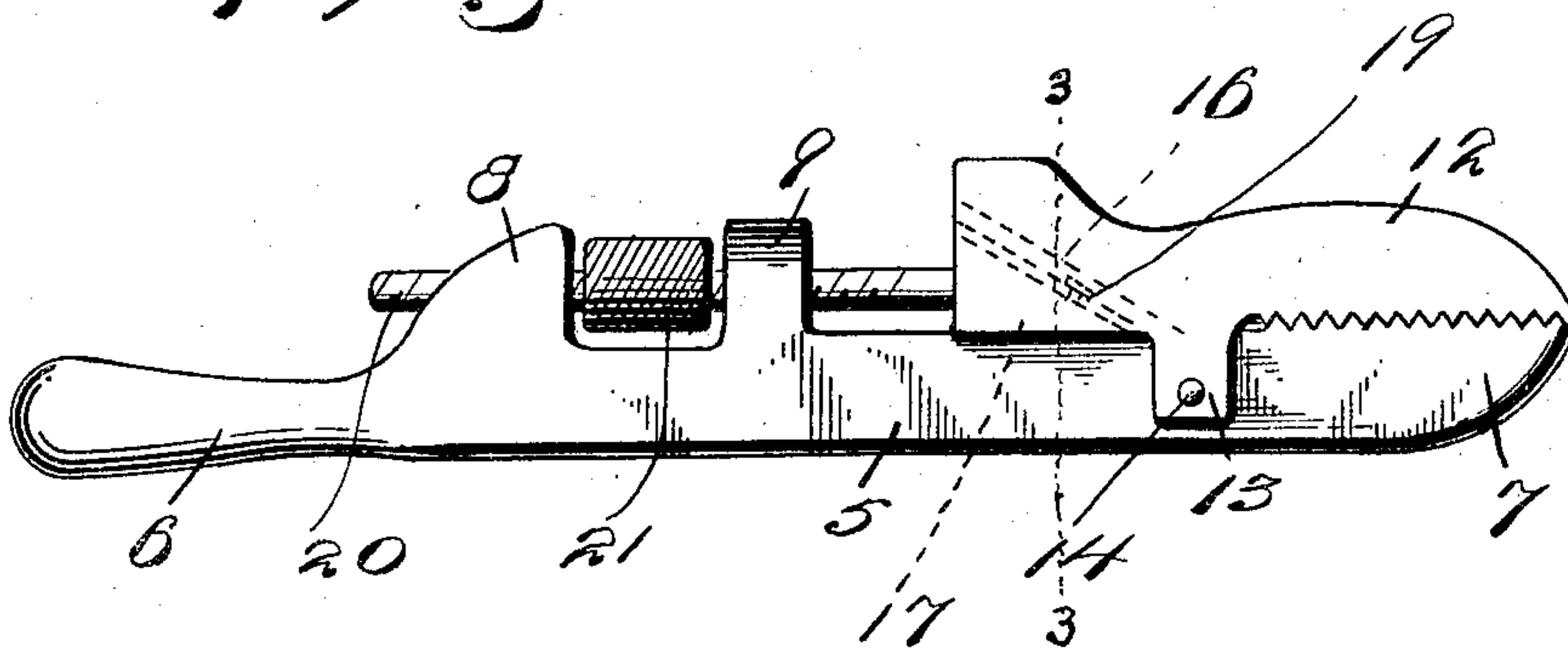


Fig. 2.

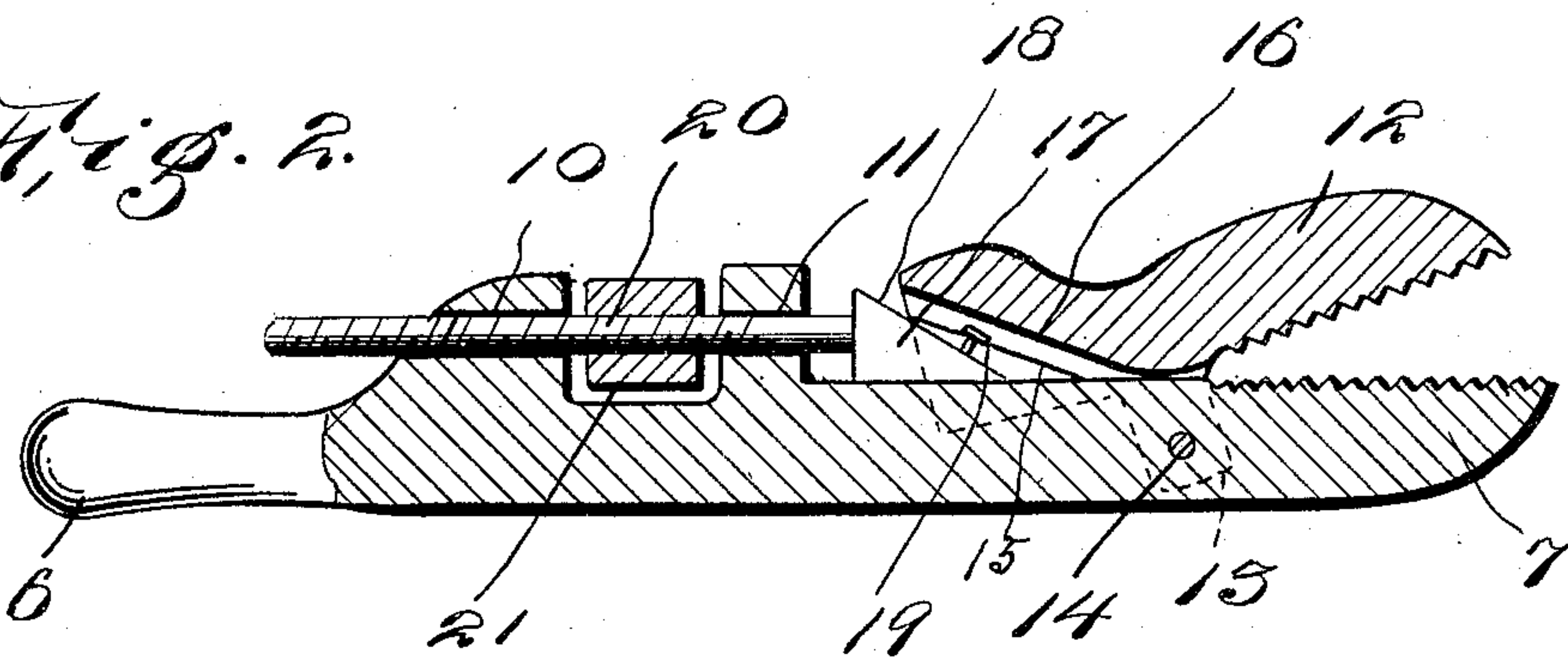
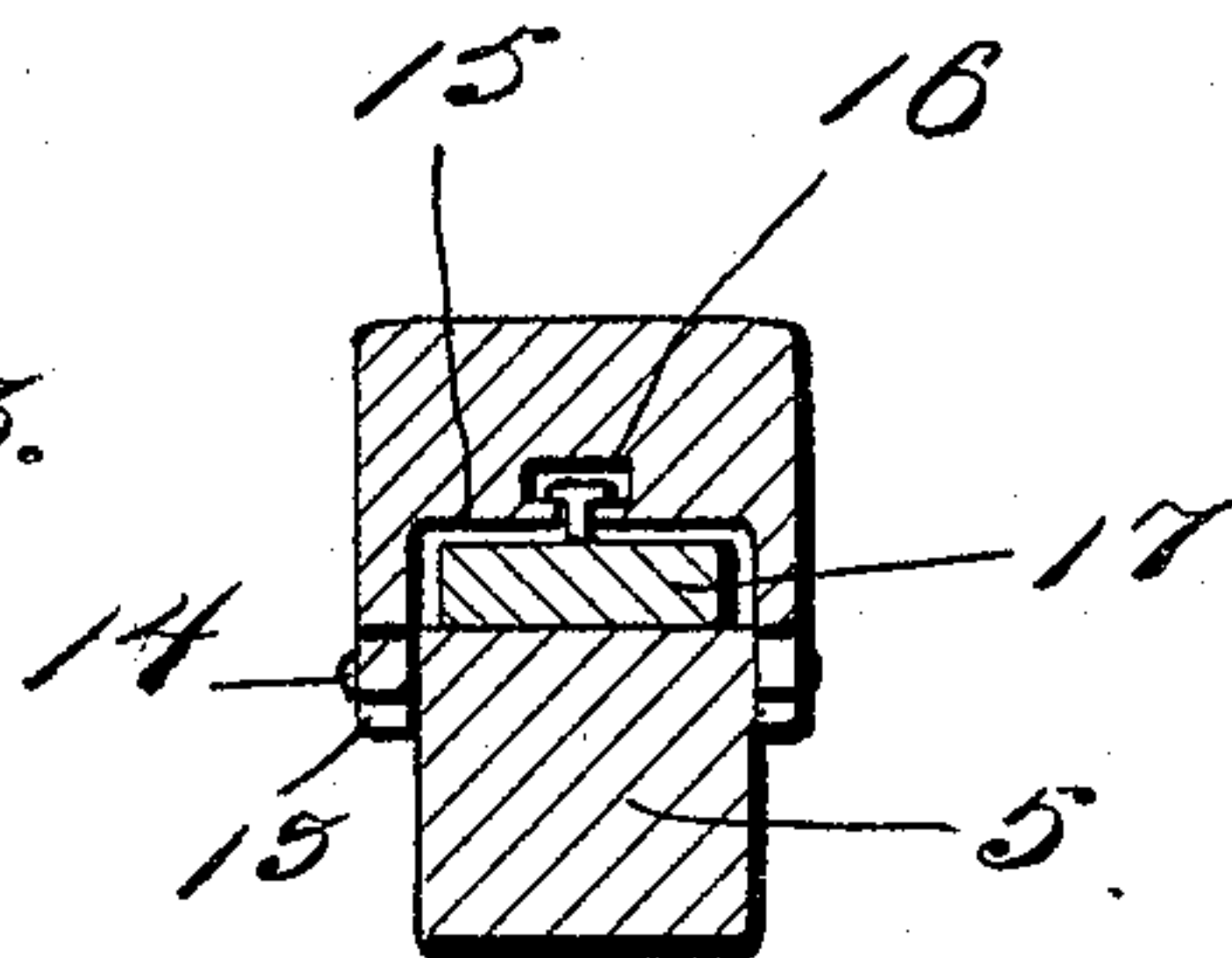


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

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WRENCH.

SPECIFICATION forming part of Letters Patent No. 783,263, dated February 21, 1905.

Application filed April 22, 1904. Serial No. 204,437.

To all whom it may concern:

Be it known that I, EDWIN J. J. GREGERSON, a citizen of the United States, residing at Woodville, in the county of St. Croix, State of Wisconsin, have invented certain new and useful Improvements in Wrenches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to wrenches, and more particularly to that class known as "alligator-wrenches," and has for its object to provide a wrench of this kind designed to grasp round or curved surfaces which will be adjustable for use in connection with different-sized bodies.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation of the complete wrench. Fig. 2 is a longitudinal section of Fig. 1. Fig. 3 is a section on line 3 3 of Fig. 1.

Referring now to the drawings, the present invention comprises a portion 5, having a handle 6 at one end and having its opposite end formed into a jaw 7. From the upper side of the portion or member 5 and adjacent to the base of the handle 6 there extend spaced lugs 8 and 9, having alining perforations 10 and 11 therethrough.

A movable jaw 12 is provided having a serrated face for coöperation with the serrated face of the jaw 7 and which is pivoted to the member 5 through the medium of lugs 13, which project from the jaw 12 and lie at opposite sides of the member 5, the lugs and the member being connected by means of a pivot-pin 14. In the rearward face of the jaw 12 there is formed a triangular recess 15, having a T-shaped slot 16 communicating therewith along its edge, this triangular recess also communicating with the lower face of the jaw.

A sliding wedge 17 is disposed on the upper face of the member 5 and is movable into and out of the recess 15, and engaged with the diagonal face 18 of the wedge and projecting therefrom there is a headed pin 19, which lies with its head in the slot 16 of the jaw.

Projecting from the rearward face of the wedge 17 is a threaded stem 20, which is slidably disposed in the perforations 10 and 11, and engaged with this stem is a thumb-nut 21, which is disposed between the lugs 8 and 9 and which may be rotated to move the wedge longitudinally of the wrench. When the wedge is moved forwardly, it enters the triangular recess 15 and moves the jaw 12 upon its pivot to bring the serrated faces of the jaws closer together, and when the wedge is moved rearwardly the headed pin engages the lower face of the slot 16 and moves the serrated face of the jaw 12 away from that of the jaw 7.

In practice modifications of the specific construction shown may be made and any suitable materials and proportions may be used for the various parts without departing from the spirit of the invention.

What is claimed is—

As an article of manufacture, a wrench comprising a member having a jaw at one end and a handle at the other, and having spaced projections at one side, said projections having alining passages therethrough, a movable jaw having corresponding depending lugs at opposite side thereof between which the member is engaged, a pivot-pin engaged in the lugs and the member, said movable jaw being disposed for coöperation with the jaw of the member, said movable jaw having a triangular recess formed therein opening through its under and rearward faces, a wedge-shaped block slidably disposed upon the member and movable in one direction into engagement with the face of the triangular recess to move the movable jaw upon its pivot, connections between the jaw and block for movement of the jaw when the block is moved in the opposite direction, a threaded stem connected with the block and slidably engaged in the passages of the projections, and a thumb-nut engaged with the threaded stem between the projections.

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

EDWIN J. J. GREGERSON.

Witnesses:

LLOYD TOMBLESON,
JOHN INERSON.