No. 750,308. PATENTED JAN. 26, 1904.

M. N. SAWYER.

PIPE OR NUT WRENCH.

APPLICATION FILED APR. 24, 1903.

NO MODEL.

Fig. 1.

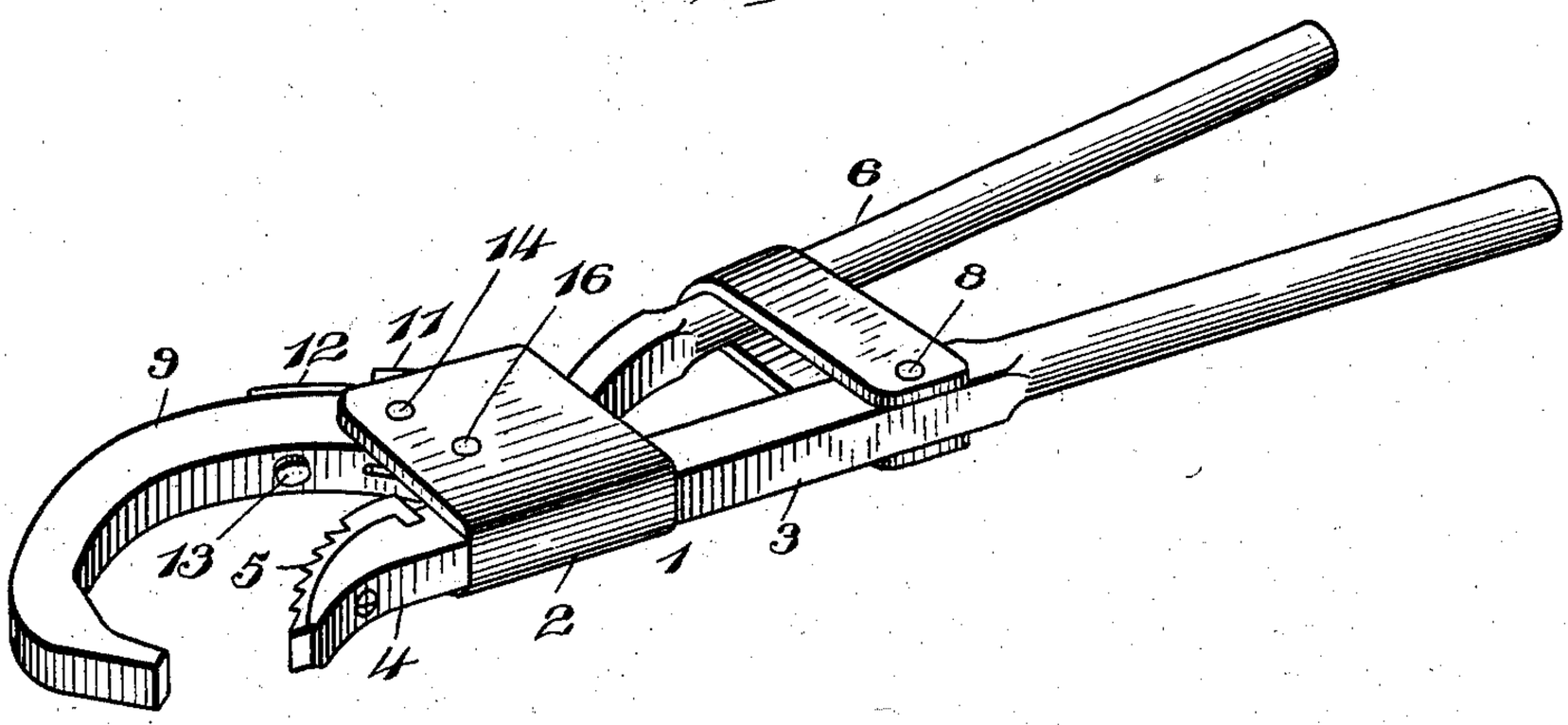


Fig. 2.

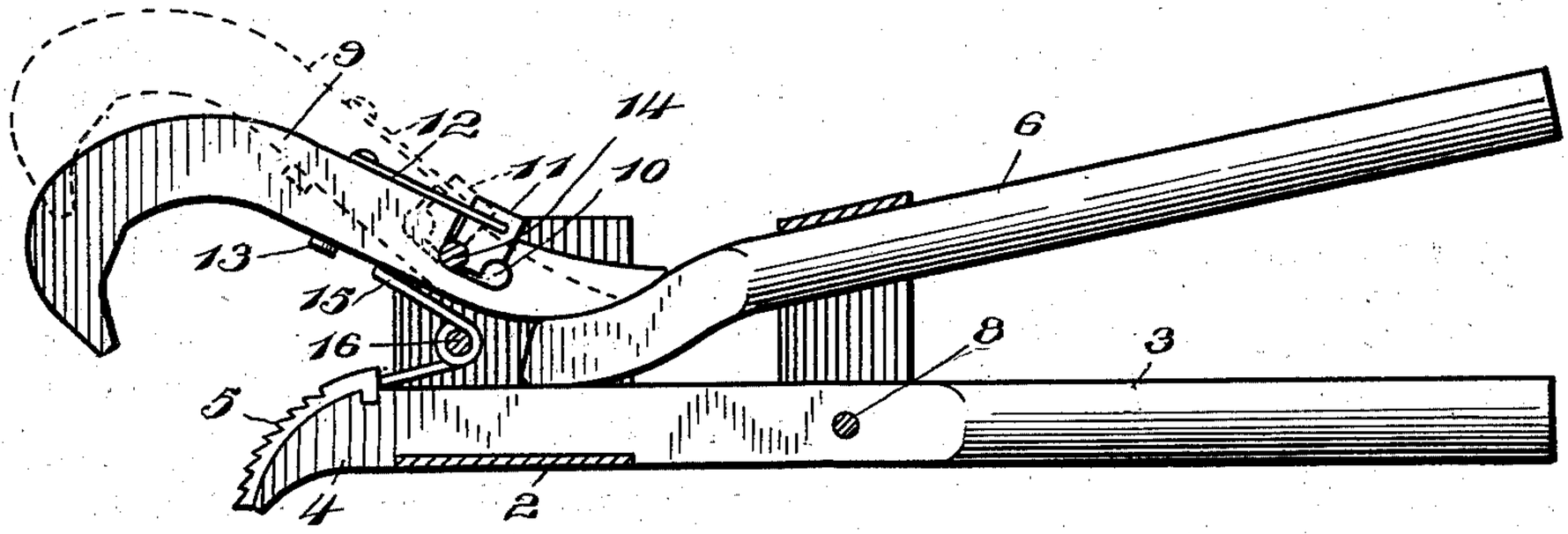
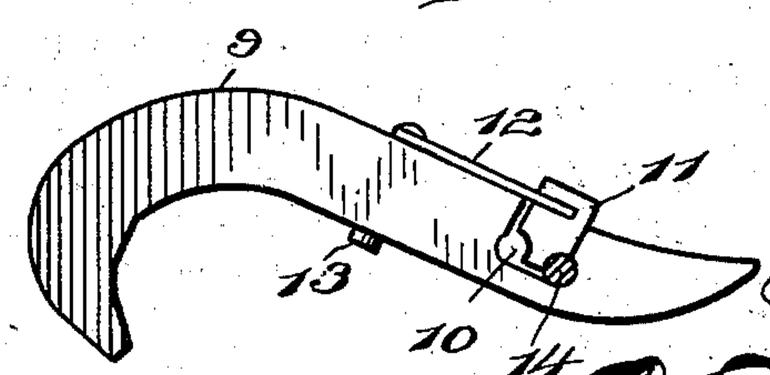


Fig. 3.



Witnesses

T. P. Britt

C. D. Leckie

Inventor

Mathews N. Sawyer,

By C. E. Duffey & Son

Attorneys

No. 750,308. Patented January 26, 1904.

UNITED STATES PATENT OFFICE.

MATHEWS N. SAWYER, OF RAPID CITY, SOUTH DAKOTA.

PIPE OR NUT WRENCH.

SPECIFICATION forming part of Letters Patent No. 750,308, dated January 26, 1904.

Application filed April 24, 1903. Serial No. 154,175. (No model.)

To all whom it may concern:

Be it known that I, MATHEWS N. SAWYER, a citizen of the United States, residing at Rapid City, in the county of Pennington and State of South Dakota, have invented certain new and useful Improvements in Pipe or Nut Wrenches; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to combined pipe and nut wrenches, and has for its object to provide a device which may be applied to a pipe as well as a nut.

A further object of my invention is to provide a novel adjustment for the wrench.

With these objects in view my invention consists in the construction of the pivoted jaw of my wrench and in the combination of parts, which will be first fully described and afterward specifically pointed out in the appended claim.

Referring to the accompanying drawings, Figure 1 is a perspective view of my wrench. Fig. 2 is a sectional view showing arrangement of parts, and Fig. 3 is a detail view of adjustable jaw.

Like numerals of reference indicate the same parts throughout the several figures, in which—

1 is the wrench, consisting of the body 2, which is preferably welded to the handle 3, which forms the stationary jaw 4, upon which is suitably secured the biting-plate 5.

6 indicates the movable handle, which is pivoted on handle 3 at 8.

9 indicates the pivotal jaw, which has a portion thereof cut out at 10.

11 indicates a metal piece adapted to set in said cut-out space, said piece having a kerf in its front, within which a flat spring 12 enters to hold said metal piece in position. Said spring is secured on the back of the jaw 9 by means of a rivet 13. A pin 14 passes through the body 2 and within the space 10 in the jaw 9, as shown in Figs. 2 and 3. A spring 15 is secured around the pin 16, the ends of said spring bearing against the stationary jaw 4 and the pivoted jaw 9 having a normal tendency to hold said jaw apart.

Having thus set forth the several parts of my invention, its operation is as follows: In order to grasp a nut or pipe, the same is inserted within the jaws in the usual manner and the handles are brought together. The forward end of the movable handle engages the tailpiece of the pivoted jaw and closes the jaw around the nut or pipe in the usual manner. When it is desired to adjust the wrench to a larger nut or pipe, the small metal piece 11 is raised out of engagement with the pivot-pin 14 and the pivoted jaw is drawn out. The metal piece then springs back into the space 10 and engages the pivot-pin 14, as shown in Fig. 3 and in dotted lines in Fig. 2, which dotted lines also show the jaw thus adjusted.

Having thus set forth my invention, I do not wish to be understood as limiting myself to the exact construction herein set forth, as various slight changes may be made therein which would fall within the limit and scope of my invention, and I consider myself clearly entitled to all such changes and modifications.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

In a wrench, the combination of a fixed jaw, a pivoted jaw and handles therefor, said pivoted jaw having a cut-out portion through which the pivotal pin of said jaw passes, a metal piece carried in said cut-out portion and adapted to engage said pivotal pin at different points on said metal piece, and a spring arranged to hold said metal piece in engagement with said pivotal pin.

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

MATHEWS N. SAWYER.

Witnesses:
O. L. COOPER,
THEO. A. CARLSON.