

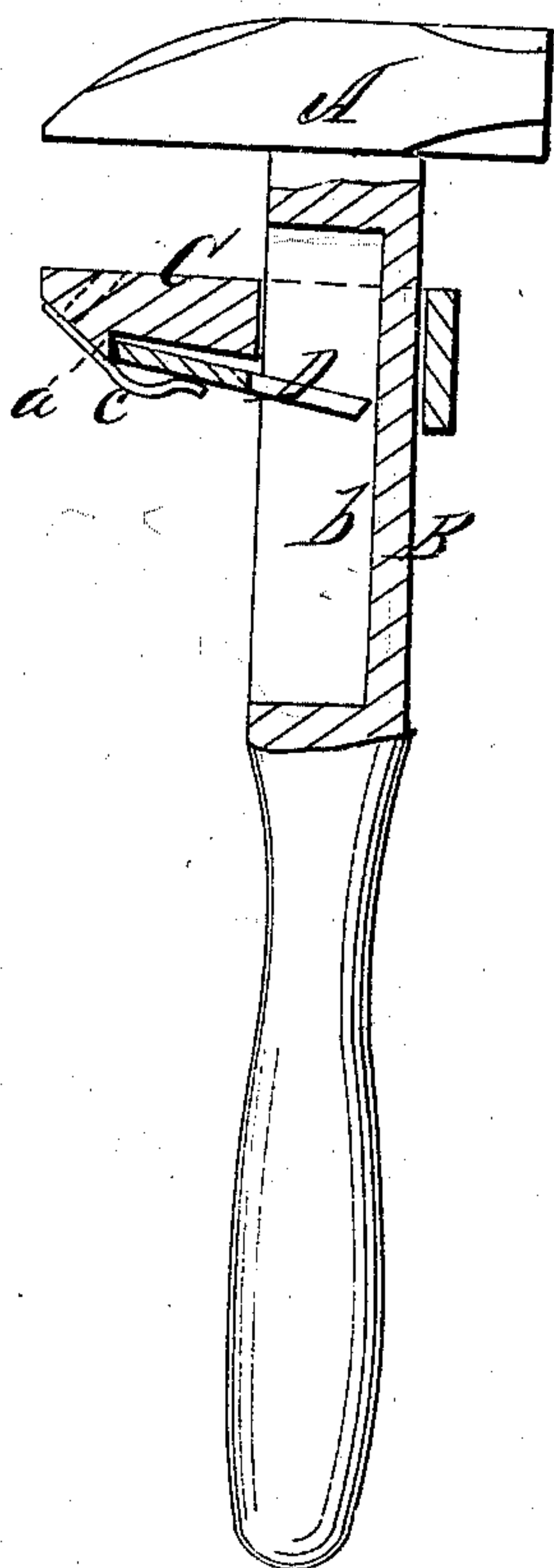
*A.M. Olds,*

*Wrench.*

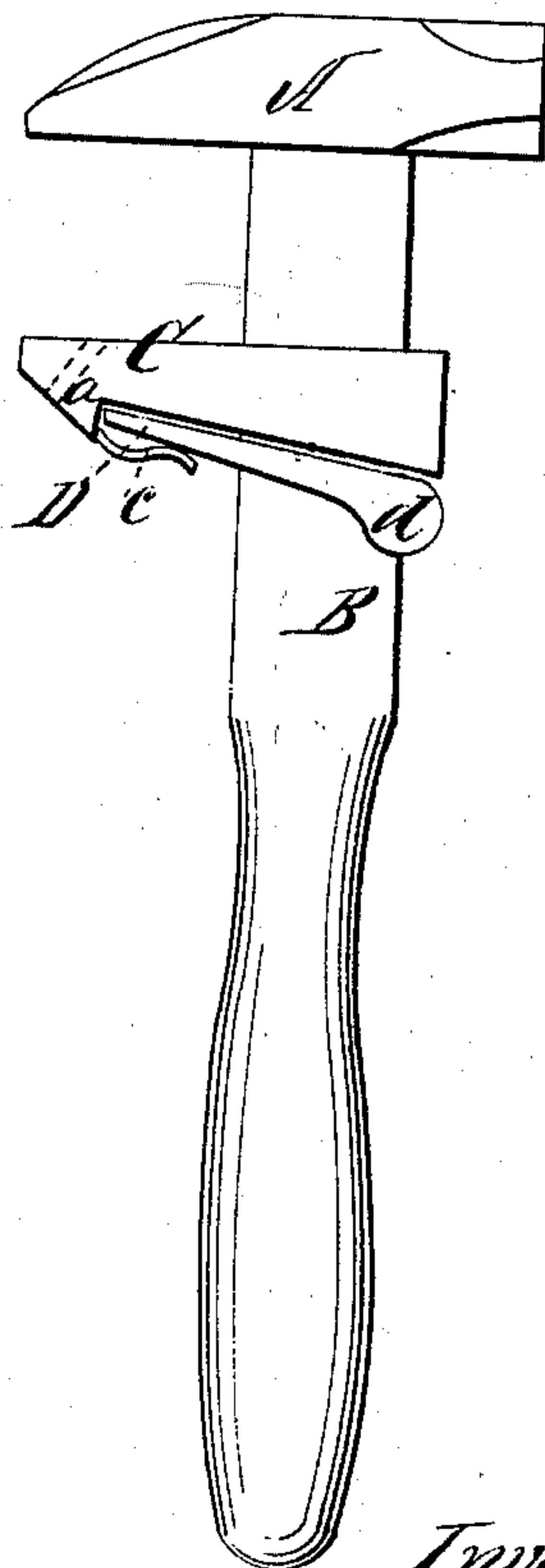
*N<sup>o</sup> 56,147.*

*Patented July 3, 1866.*

*Fig. 1.*



*Fig. 2.*



*Witnesses:*

*J. B. Carrington*  
*Wm. F. Fenn*

*Inventor:*

*A. M. Olds*  
*Per Munroe & Co.*  
*Attorneys.*

# UNITED STATES PATENT OFFICE.

A. M. OLDS, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND ALBERT MANVEL, OF ELIZABETHPORT, N. J.

## IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. 56,147, dated July 3, 1866.

*To all whom it may concern:*

Be it known that I, A. M. OLDS, of the city, county, and State of New York, have invented a new and Improved Screw-Wrench; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a vertical section of this invention. Fig. 2 is a side elevation of the same.

Similar letters of reference indicate like parts.

This invention consists in the arrangement of a spring-tooth bearing at one end against a shoulder of the movable jaw of a screw-wrench and at the opposite end against the shank of said wrench in such a manner that if an attempt is made to slide the movable jaw down said spring-tooth catches firmly between its bearing-points and the jaw is locked; but in moving said jaw toward the stationary jaw the spring-tooth is released and permits this motion without obstruction.

It consists, also, in combining with the spring-tooth a mortise in the edge of the shank of the wrench in such a manner that a guide is obtained for said tooth, and that the leverage of the tooth is increased.

A represents the stationary jaw of a screw-wrench, which is rigidly connected or made solid with the shank B. This shank forms the guide for the movable jaw C, which is held in position by a tooth, D. This tooth bears with one end against a shoulder, *a*, at the under side of the movable jaw, and with its other end it bears against the edge of the shank B or against the bottom surface of a mortise, *b*, which is made in the shank, and which forms

a guide for the tooth, and also serves to increase the gripe of the same. A spring, *c*, holds said tooth in the position shown in Fig. 1, and if an attempt is made to move the jaw C down or away from the jaw A the inner end of the tooth D bites in the edge of the shank and prevents the motion; but in moving the jaw C toward the jaw A the tooth D is released and offers no obstruction. From the tooth D extends a handle, *d*, (see Fig. 2,) and by pressing this handle off from the bottom edge of the jaw C the tooth is released and the jaw is free to move in either direction.

By this arrangement a very simple and effective screw-wrench is obtained which can be readily adjusted to nuts or other articles of any desired size and shape, and which takes a firm hold of said articles and is not liable to slip. All its parts, with the exception of the spring, can be cast of malleable iron, it requires no fitting and very little labor, and it can therefore be produced at a low price.

What I claim as new, and desire to secure by Letters Patent, is—

1. So combining and arranging the spring-tooth D, jaw C, and shank B that the tooth will gripe or bind against the bottom of the mortise of the shank and retain the said tooth in position without serrations in the shank, substantially as described.

2. The mortise *b*, in combination with the shank B, spring-tooth D, and jaw C, constructed and operating substantially as and for the purpose described.

The above specification of my invention signed by me this 2d day of January, 1865.

A. M. OLDS.

Witnesses:

M. M. LIVINGSTONE,  
W. HAUFF.