

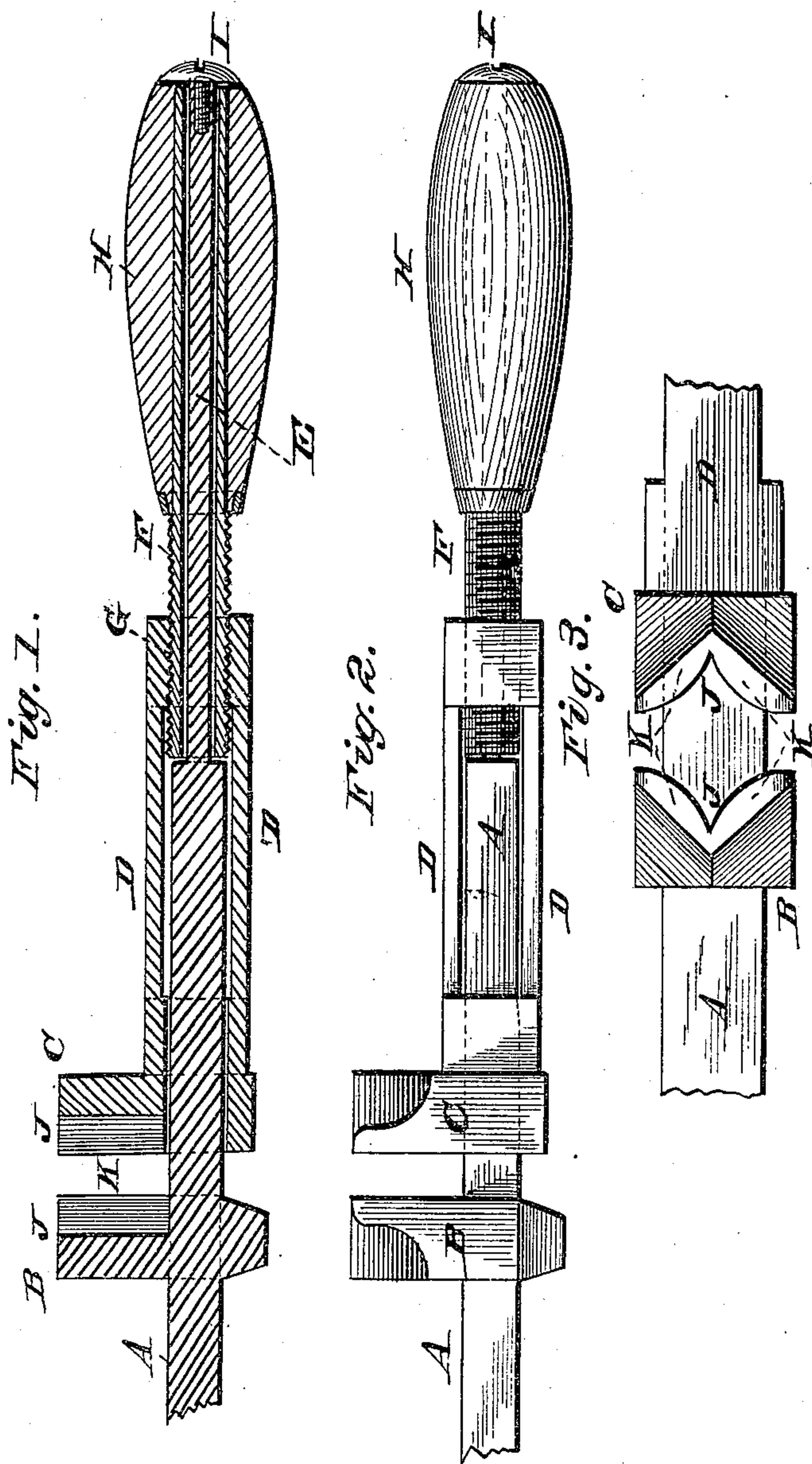
(No Model.)

J. E. PRESTON.

WRENCH.

No. 258,673.

Patented May 30, 1882.



WITNESSES:  
*Wm. L. Dietrich*  
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# UNITED STATES PATENT OFFICE.

JOHN E. PRESTON, OF BRUNSWICK, MAINE.

## WRENCH.

SPECIFICATION forming part of Letters Patent No. 258,673, dated May 30, 1882.

Application filed April 6, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN E. PRESTON, of Brunswick, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a longitudinal sectional view of my improved wrench. Fig. 2 is a side view; and Fig. 3 is a detail view, illustrating the construction of the jaws.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to wrenches; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A represents a rod or bar, upon which one of the jaws, B, of my improved wrench is rigidly secured. The other jaw, C, is secured upon the end of a sleeve, D, sliding longitudinally upon the rod or bar A. The end of the rod A is turned down, as at E, and carries a tube, F, screw-threaded at one end, as shown, so as to engage a female thread, G, in the sleeve D. A handle, H, is secured firmly upon the outer unthreaded end of the tube F, and both are held in position upon the rod or bar A by a nut, I. The faces of the jaws B C have V-shaped recesses

J, the sides of which are convex, as shown at K. By this construction square and hexagonal nuts may be clamped equally well with my improved wrench, and the nuts being clamped at the corners instead of the sides, greater leverage may be exercised.

The end of the rod or bar A may extend beyond the jaw B, as shown in broken lines in the drawings, and a double-handled wrench may thus be constructed without deviating from the spirit of my invention. Such construction will be especially advantageous when the device is to be used as a carriage-wrench.

The operation of my invention will be readily understood. By turning the handle H and tube F (which, as stated, are secured rigidly together) the sleeve D, carrying jaw C, may be adjusted longitudinally upon the rod or bar A in relation to the jaw B, fixed rigidly upon said rod or bar.

The device, it will be seen, is exceedingly simple, convenient, and easily manipulated.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a wrench, the jaws B C, having V-shaped recesses J, with convex inner sides, K, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN ELMER PRESTON.

Witnesses:

FRANK O. PURINGTON,  
WILLIAM H. W. NEWELL.