

E. K. HOLLEY.
CARRIAGE-WRENCH.

No. 191,761.

Patented June 12, 1877.

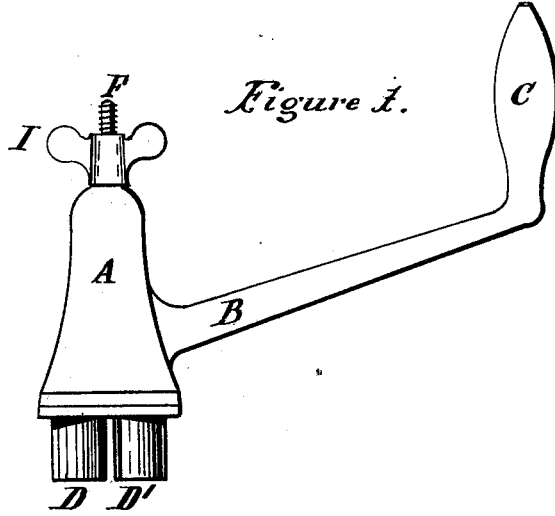


Figure 1.

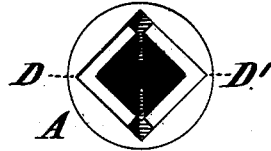


Figure 2.

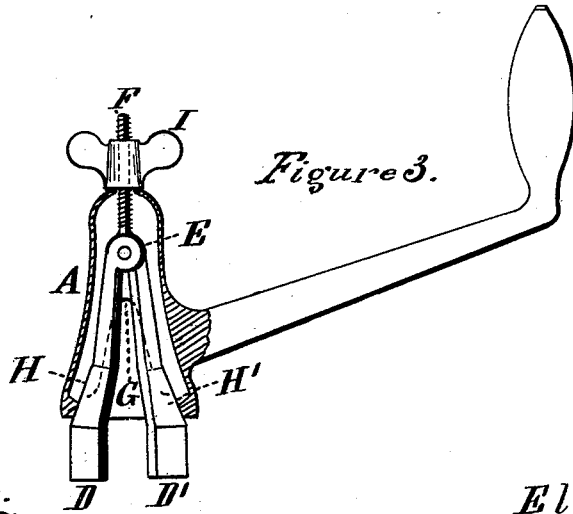


Figure 3.

Witnesses.
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Inventor.
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Att'y.

UNITED STATES PATENT OFFICE.

ELI K. HOLLEY, OF LOCKPORT, ASSIGNOR OF ONE-HALF HIS RIGHT TO
JOHN B. HOLLEY, OF SALEM, NEW YORK.

IMPROVEMENT IN CARRIAGE-WRENCHES.

Specification forming part of Letters Patent No. **191,761**, dated June 12, 1877; application filed
May 7, 1877.

To all whom it may concern:

Be it known that I, ELI K. HOLLEY, of Lockport, in the county of Niagara and State of New York, have invented certain new and useful Improvements in Carriage-Wrenches, which improvements are fully set forth in the following specification and accompanying drawing, in which—

Figure 1 is a side elevation; Fig. 2, a bottom view, and Fig. 3 represents a partial section through the outer casing of the wrench, showing the interior arrangement.

The object of this invention is to furnish a cheap adjustable socket-wrench for carriages or other similar purposes; and it consists of a tapering or bell-shaped hollow casing, a crank and handle for turning it, and two jaws of the proper shape for forming a socket-wrench when combined, the upper part of the same being jointed together and provided with a screw which projects through the top of the casing to receive a thumb-nut, by which the wrench is operated, as will more clearly hereinafter appear by reference to the drawing, in which—

A is the outer casing; B C, the crank and handle. D D' represent the wrench-jaws.

They are angular at the bottom, so as to form a square socket when put together, as shown in Fig. 2. E is a joint at the top by which they are connected. (See Fig. 3.) F represents a screw, connected with the jaws at the joint E. A spring, G, is placed between them to keep them apart.

The sides of the jaws are made to taper, as shown at H H', Fig. 3, so that they are drawn up by turning the thumb-nut I in one direction, and forced together so as to tightly gripe the nut, as will be readily understood by reference to Fig. 3, and so that by a reverse movement of the thumb-nut the spring G will expand or open them.

I claim as my invention—

A carriage-wrench consisting of the hollow casing A, provided with the handle B C, in combination with the wrench-jaws D D', having the tapering or inclined sides H H', and provided with a joint, E, screw F, thumb-nut I, and spring G, as specified.

E. K. HOLLEY.

Witnesses:

WM. S. GROSVENOR,
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