(Model.)

J. K. COLLINS.

Combined Wrench and Screw Driver.

No. 234,540. **Patented Nov. 16, 1880.**

Fig. 1.

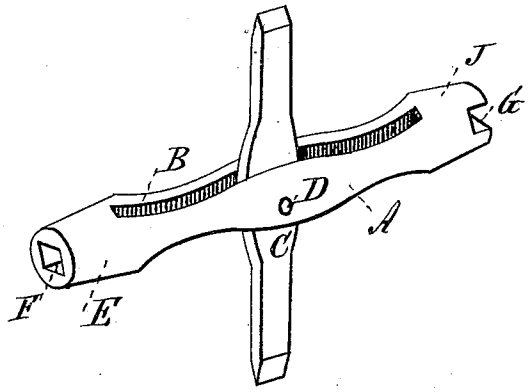
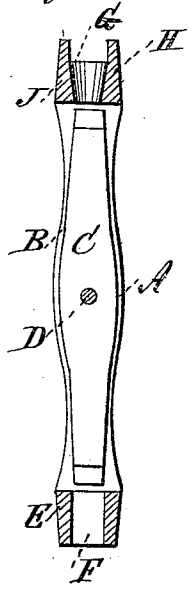


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN K. COLLINS, OF LEBANON, NEW HAMPSHIRE.

COMBINED WRENCH AND SCREW-DRIVER.

SPECIFICATION forming part of Letters Patent No. 234,540, dated November 16, 1880.

Application filed September 24, 1880. (Model.)

To all whom it may concern:

Be it known that I, JOHN K. COLLINS, of Lebanon, Grafton county, New Hampshire, have invented a new and Improved Combined Wrench and Screw-Driver, of which the following is a specification.

The object of my invention is to provide a new and improved combined wrench and screw-driver which is simple in construction and can be conveniently folded to be carried in a pocket.

In the accompanying drawings, Figure 1 is a perspective view of my improved combined wrench and screw-driver, showing the latter turned outward for use; and Fig. 2 is a longitudinal sectional elevation of the same, showing the screw-driver resting in the slot.

A short rod or bar, A, is provided with a longitudinal slot, B, which extends almost throughout the entire length of the rod. A screw-driver, C, provided with a sharpened edge at each end, one of which may be for coarse and the other for fine screws, is pivoted within this slot B by means of a screw or pin, D, which passes through the center of the bar A and of the screw-driver C.

The screw-driver remains in the slot parallel to the same when not in use, but is rotated on its pivot, so as to be at right angles to the rod A, which thus forms the handle of the same. One end, E, of the rod or handle A is provided with a squared aperture or recess, F, which serves as a wrench, whereas the other end is provided with a transverse groove, G, and with an inwardly-beveled aperture, H, which serves to loosen and tighten the nipples of guns or pistols.

As the instrument can be folded so as to occupy very little space, it can be carried very conveniently in the vest-pocket.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The double-ended screw-driver E, centrally arranged in slot B of the wrench A, and pivoted on a pin, D, fixed centrally in said wrench, as shown and described.

JOHN K. COLLINS.

Witnesses:
WILLIAM B. WEEKS,
WILLIAM L. HUTCHINS.