(Model.)

G. TELFER.

Tool Handle.

No. 235,043. Patented Nov. 30, 1880.

Fig: 1.

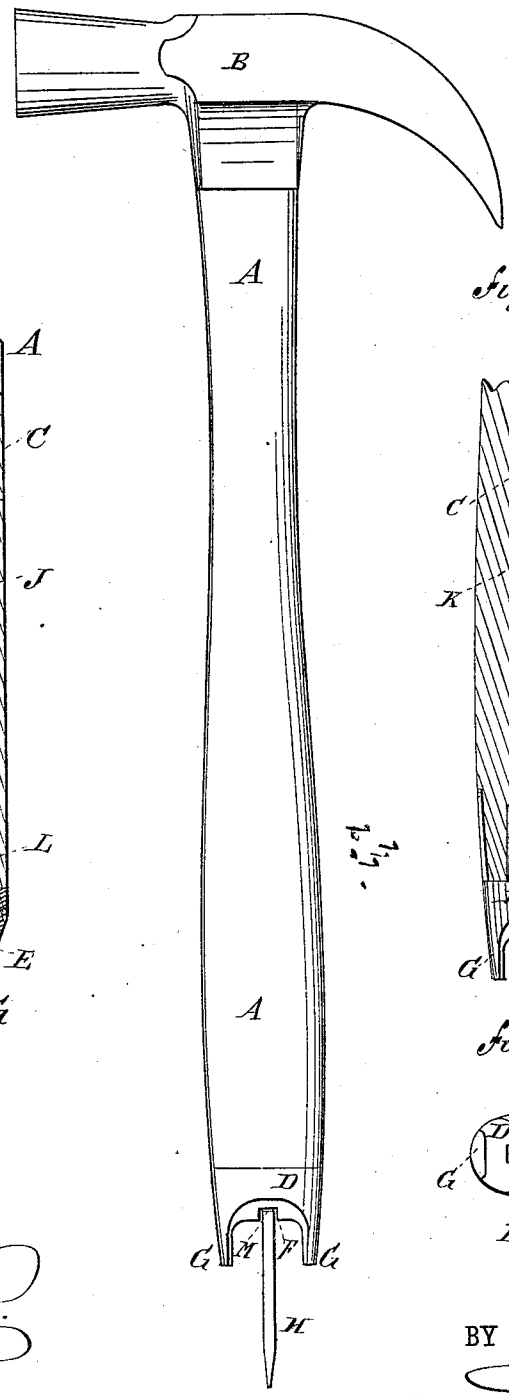


Fig: 2.

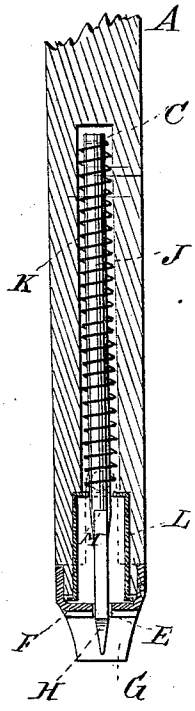


Fig: 3.

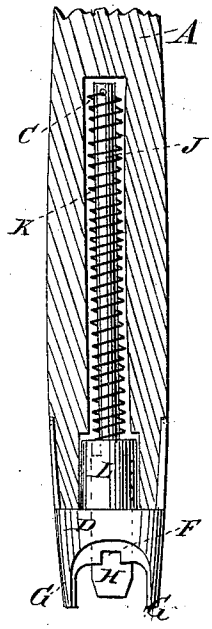
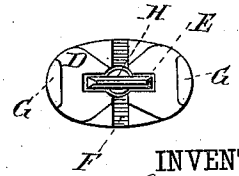


Fig: 4.



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UNITED STATES PATENT OFFICE.

GAVIN TELFER, OF DETROIT, MICHIGAN.

TOOL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 235,043, dated November 30, 1880.

Application filed September 16, 1880. (Model.)

To all whom it may concern:

Be it known that I, GAVIN TELFER, of Detroit, Wayne county, Michigan, have invented a new and Improved Combined Hammer and Screw-Driver, of which the following is a specification.

The object of my invention is to provide a new and improved combined hammer and screw-driver which is simple in construction and convenient in use.

The invention consists of a hammer containing an adjustable screw-driver in the lower end of its hollow handle.

In the accompanying drawings, Figure 1 is a side elevation of my improved combined hammer and screw-driver, showing the latter drawn out for use. Fig. 2 is a cross-sectional elevation of the lower end of the hammer-handle. Fig. 3 is a longitudinal sectional elevation of the same, and Fig. 4 is a plan view of the lower end of the hammer-handle.

Similar letters of reference indicate corresponding parts.

The handle A of the hammer B is provided with a longitudinal aperture, C, in the lower end, which aperture is slightly enlarged at the outer end. The lower end of the handle is protected by a ferrule, D, provided with a longitudinal slot, E, and a transverse groove, F. The middle of the ferrule is recessed, so as to form two projections, G G, at the ends, for a purpose set forth hereinafter.

A screw-driver, H, provided with a cylindrical stem, J, is contained in the aperture C. A spiral spring, K, is attached to the inner end of the stem J, and rests against a tubular metal casing, L, which is contained within the ferrule D, and is of sufficient size to receive the screw-driver H.

The operation is as follows: Ordinarily the screw-driver H is contained in the casing L, the sharp edge of the screw-driver projecting out through the slot E a short distance. The projections G G protect the hand and prevent it from being cut by the sharp edge of the screw-driver; but if the screw-driver is to be used it is drawn out and turned ninety degrees on its longitudinal axis, and is then released. The spring K draws it inward until the shoulders M M, formed at the rear end of the flat part of the screw-driver, rest in the transverse groove F, whereby the screw-driver is prevented from turning. When not required it is drawn back, turned ninety degrees, and released, and is drawn into the casing L by the spring K.

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

1. The combination, with the hammer-handle A, of the screw-driver H, and of the ferrule D, provided with a longitudinal slot, E, and the transverse groove F, substantially as herein shown and described, and for the purpose set forth.

2. The combination, with the hammer-handle A, of the screw-driver H, of the ferrule D, having a longitudinal slot, E, and a transverse groove, F, of the spring K, and casing L, substantially as herein shown and described, and for the purpose set forth.

3. The ferrule D for the end of a hammer-handle, constructed, substantially as herein shown and described, with a longitudinal slot, E, a transverse groove, F, and end projections, G G, as and for the purpose set forth.

GAVIN TELFER.

Witnesses:

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