

(No Model.)

F. W. EHLMANN.

COMBINATION TOOL.

No. 379,773.

Patented Mar. 20, 1888.

Fig. 1.

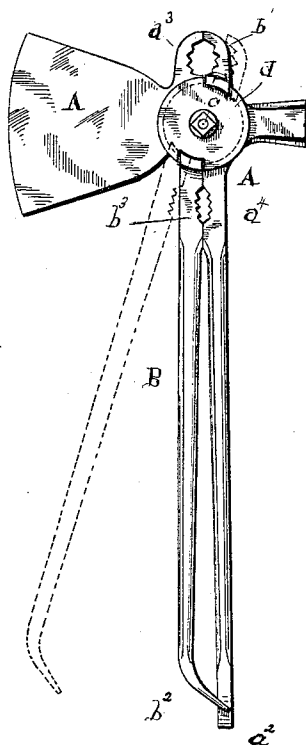


Fig. 2.

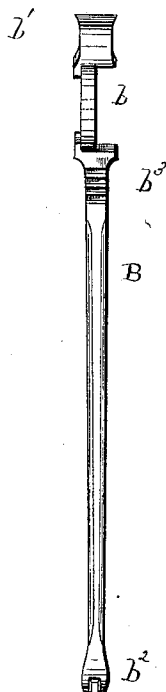


Fig. 3.

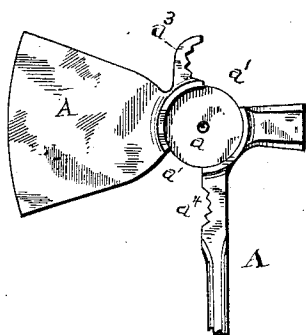
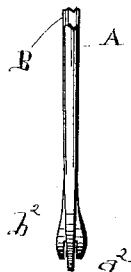


Fig. 4.



Attest
Hiram H. Males.
Mary E. Murray

Inventor
Frederick William Ehlmann,
by Joseph Murray his Atty.

UNITED STATES PATENT OFFICE.

FRIEDRICH WILLIAM EHLMANN, OF COVINGTON, KENTUCKY.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 379,773, dated March 20, 1888.

Application filed January 12, 1887. Serial No. 224,107. (No model.)

To all whom it may concern:

Be it known that I, FRIEDRICH WILLIAM EHLMANN, a citizen of the United States, and a resident of Covington, in the county of Kenton and State of Kentucky, have invented certain new and useful Improvements in Combination-Tools, of which the following is a specification.

The object of my invention is to combine several tools of general utility in a single implement of but few parts.

The invention will be first fully described in connection with the accompanying drawings, and then particularly referred to and pointed out in the claims.

In the drawings, in which like parts are represented by similar reference-letters wherever they occur throughout the various views, Figure 1 is a side elevation of my combination-tool. Fig. 2 is an inside elevation of one of the pivoted members detached. Fig. 3 is a side elevation of the opposite member, and Fig. 4 is an edge elevation of the end of the handle.

The combination-tool, comprising a hatchet, pipe-tongs, pinchers, tack-drawer, and screw-driver, is composed of two members, A and B, made, preferably, of cast-steel and pivoted together by a bolt or rivet, *c*, either with or without washers *d* interposed between the nut and head of the bolt and the sides of the pivoted members. The member A is a hatchet, the side of which is countersunk at *a*, and the wall of the countersunk portion cut away at *a'* to receive the opposite member, B. The handle of the part A terminates at the end *a''* in a screw-driver. The head of the hatchet has also projecting from it a hooked and serrated projection, *a'''*, which forms one jaw of a pinchers, and also a pipe-tongs, and near the opposite edge the handle of the part A is recessed and serrated at *a'* to provide one-half of a smaller tongs for the purpose of removing and replacing gas tips. The part B, which has a circular part, *b*, to fit into countersunk portion of part A, forming a joint with said part, has also a hooked and serrated end, *b'*, which forms the opposite jaw of the pinchers and

pipe-tongs, and the opposite end of the handle is bent and forked to form a nail-puller, *b''*. When the two parts A and B are closed, the beveled end of the part A, which forms the screw-driver, passes into the forked end *b''*, so that the two handles of the pinchers form a firm handle for the hatchet. The part B is also recessed and serrated at *b* opposite to the part *a'*, forming the opposite member of the nipple-tongs. It will thus be seen that the parts A and B may be cast just as shown, and the only fitting required is passing the bolt-pivot *c* through the parts *a* and *b* and tightening the nut, or riveting the bolt-pivot *c*, if the parts are not to be detachably connected.

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

1. The combination-tool consisting of two pivoted members, one member comprising a hatchet-head, hammer, screw-driver, and one of the jaws of a pinchers and pipe-tongs, the other member comprising a nail-puller and the opposite jaws of the pinchers and pipe-tongs, the said screw-driver having its narrow edge in the direction of the nail-puller and the said nail-puller being curved in the direction of the screw driver, so that the screw-driver will enter the claw of the nail-puller when the jaws are closed, and thus furnish a firm handle for the hammer and hatchet, substantially as specified.

2. The combination of the two members A and B and the pivot-bolt uniting them, the said part A comprising a hatchet and hammer head and a screw driver, which has its edge in the same plane as the edge of the hatchet, and the part B comprising a tack-puller having its bifurcated end curved in the direction of the screw-driver, so as to embrace it and with it furnish a firm handle for the combined tool, the said parts A and B having formed integral with each the opposite members of pinchers, substantially as shown and described.

FRIEDRICH WILLIAM EHLMANN.

Witnesses:

GEO. J. MURRAY,
MARY L. MURRAY.