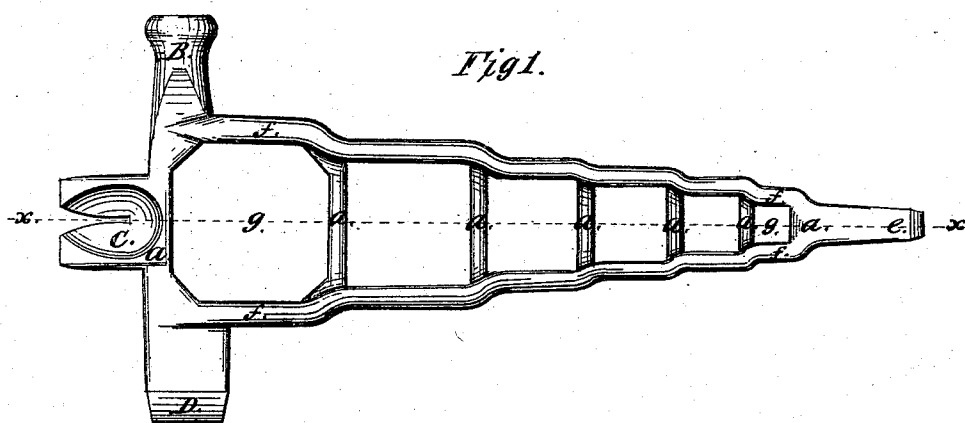


D. W. NORRIS.

TOOL.

No. 172,277.

Patented Jan. 18, 1876.



Witnesses:
F. Leman
R. Vasey

Inventor,
D. W. Norris.

UNITED STATES PATENT OFFICE.

DANIEL W. NORRIS, OF ELGIN, ILLINOIS.

IMPROVEMENT IN TOOLS.

Specification forming part of Letters Patent No. 172,277, dated January 18, 1876; application filed April 5, 1875.

To all whom it may concern:

Be it known that I, DANIEL W. NORRIS, of Elgin, county of Kane and State of Illinois, have invented an Improvement in Tools; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings and specification, in which—

Figure 1 is a plan of the upper side, and Fig. 2 is a section of the same through the line *x x*.

Similar letters of reference in the accompanying drawings denote the same parts.

Numerous devices have been invented for the purpose of combining several tools in one. My invention is designed to give a fuller and more complete combination of this kind, which shall be substantial, durable, and simple in its construction, and supply a better and cheaper tool to the public, and is an improvement upon the tool for which Letters Patent No. 147,113 were granted to N. K. Ellsworth, bearing date February 3, 1874.

To this end the invention consists of a single piece of metal, preferably cast-steel or malleable iron, so constructed as to combine in a convenient shape the parts used.

In the accompanying drawings, B is a hammer or hatchet head. C is a claw for drawing nails, and may be used as a wedge for opening boxes. D is a hatchet-blade or cold-chisel, and may be used as a wedge for opening boxes. *ff* are the sides which form the handle of the tool. *e* is a screw-driver, and *aa* are cross-bars, so arranged, connected with the sides *ff*, which may project below or beyond the same, as to form a series of wrenches,

gg, varying in size, while one of them, at the end of the tool, shall form a fulcrum, over which to pry in using the claw C.

As a box-opener this tool may be used either by inserting the claw C between the box and cover and prying with the head B, or the blade D, or both; or by inserting the blade D in place of the claw C, as before, and prying with the handle *ff*, in which last case the nails holding the cover on may be cut by the edge of the blade D.

As a wrench this tool may be used in turning nuts which are sunk more or less, as is frequently the case with those which hold the wheels on the axle-trees of wagons and carriages, by placing the side of the wrench on which the cross-bars *aa* project next to the nut, so that the projecting part of the cross-bars shall enter the cavity in which the nut is sunk and beside the same.

As a hammer, hatchet, and nail-drawer it may be used by grasping its handle, near the small end of the same, and as a screw-driver it is changed or turned around, so that its larger end becomes the handle by which it is held.

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

As a new article of manufacture, the tool, substantially as described, and for the purposes set forth.

DANIEL W. NORRIS.

Witnesses:

WILLIAM H. WILCOX,
NEWELL E. WOODS.