

No. 736,435.

PATENTED AUG. 18, 1903.

J. PARBEL.
COMBINATION TOOL.
APPLICATION FILED MAY 29, 1902

NO MODEL.

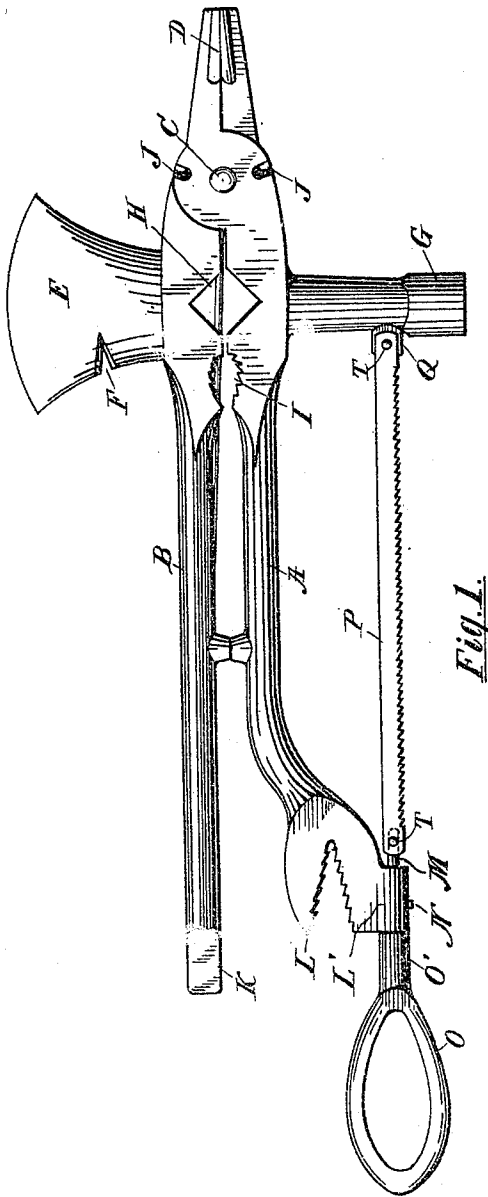


Fig. 1.

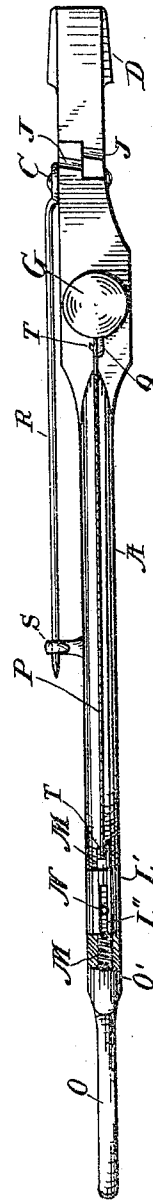


Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH PARBEL, OF GRAND RAPIDS, MICHIGAN.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 736,435, dated August 18, 1903.

Application filed May 29, 1902. Serial No. 109,482. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH PARBEL, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Combination Tools; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in combination-tools; and its object is to provide the same with certain new and useful features hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a device embodying my invention, and Fig. 2 a plan view of the same with a portion broken away to show the construction.

Like letters refer to like parts in both figures.

A and B represent the handle portions of the device, which are pivoted at C and prolonged beyond the pivot to form pliers D. Near the pivot C and on the handle B is a suitable hatchet-blade E, provided with a nail-puller recess F. Projecting from the handle A and opposite to the hatchet E is a hammer-head G. In the adjacent sides of the handles A and B and between the parts E and G are rectangular recesses H, adapted to engage the opposite angles of a nut, and thus qualify the device to act as a nut-wrench. Near these recesses H are concave corrugated opposing surfaces I, adapted to engage cylindrical bodies to qualify the device to act as a pipe-wrench.

The end of the handle B is provided with a suitable screw-driver K, and the end of the handle A is curved away from the handle B and terminates in a pair of diverging and corrugated jaws L, forming an "alligator-wrench." The lower jaw of this wrench is provided with a tubular extension L', having at its under side a longitudinal slot L'', in which is a pin N, adapted to traverse the

slot and inserted in a rod M. This rod is screw-threaded at its outer end and inserted in the internally-threaded boss O' of a suitable handle O. The inner end of the rod M is removed at one side and provided with a pin T to engage and hold one end of a saw P. The other end of the saw is engaged with a corresponding pin T' in a lug Q on the hammer G and held thereby. Near the pivot C are suitable recesses J to form a wire-cutter.

Attached to one side of the device, and preferably to one end of the pivot C, is a pointed pin R, engaged near its movable end by a suitable hook S.

The pin N traverses the slot L'' as the handle O is turned to tighten the saw, and by detaching the saw from the pins T the rod M and handle O are readily detached from the device as occasion requires.

In conjunction with the device claimed I have shown a number of attached tools with which my device is adapted to be associated, and thus form a part of a structure adapted to a great variety of uses.

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

1. In a combination-tool, a handle, a hammer-head projecting from near one end thereof, said handle also curved outward in the direction of the hammer-head near the other end, and a hack-saw attached to the hammer-head, and to the handle.

2. In a combination-tool, a handle having a curved end, a tubular extension on said end, a rod in said extension, a hammer-head extending from near the other end of the handle, a hack-saw attached to the hammer-head and to the rod and a handle having a screw-threaded opening engaging screw-threads on the rod.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH PARBEL.

Witnesses:

LUTHER V. MOULTON,
PALMER A. JONES.