J. W. OLMSTED & B. R. KETCHAM.
Tool-Holder.

No. 196,125. Patented Oct. 16, 1877.

Fig. 1.

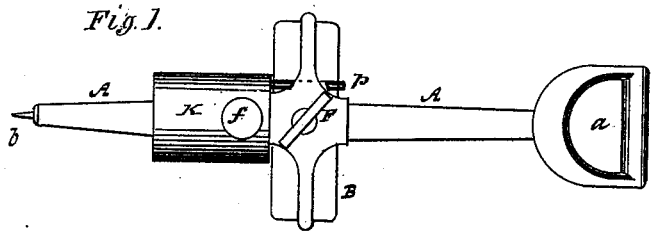


Fig. 2.

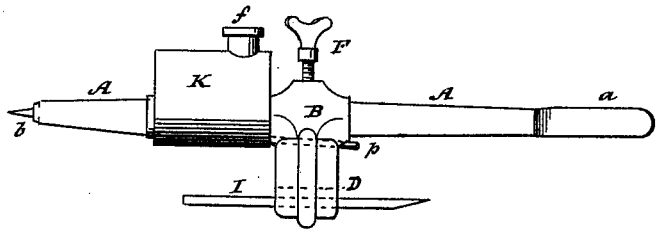
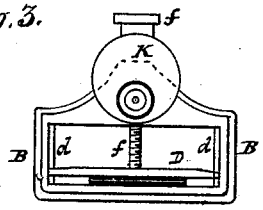


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN W. OLMSTED AND BUNCE R. KETCHAM, OF NORTHPORT, NEW YORK.

IMPROVEMENT IN TOOL-HOLDERS.

Specification forming part of Letters Patent No. **196,125**, dated October 16, 1877; application filed March 7, 1877.

To all whom it may concern:

Be it known that we, JOHN W. OLMSTED and BUNCE R. KETCHAM, both of Northport, in the county of Suffolk and State of New York, have jointly invented an Improved Tool-Holder for holding tools while they are being ground; and we hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming a part of this specification.

The object of our invention is to provide a simple and convenient instrument or device for holding tools—such as chisels, adzes, plane-irons, gouges, &c.—while they are being ground upon a grindstone, so that one person can both hold the tool and turn the grindstone, and to construct the said tool-holder in such a manner that any desired bevel can be given to the edge of the tool, and an even and uniform edge can be formed, while the operator is both turning the grindstone and holding the tool at one and the same time.

Our invention consists in a novel construction and arrangement of the several parts of the instrument, as hereinafter particularly described, by means of which these several objects above mentioned may be attained.

In the accompanying drawing, Figure 1 represents a plan view of our improved tool-holder; Fig. 2, a side elevation of the same, and Fig. 3 a view of the rear end.

Similar letters of reference indicate the same parts in all the several figures.

A is a rod or bar, having a handle, *a*, formed at its front end, by which the instrument is held, and a sharp prong, *b*, inserted at its opposite end. Upon this bar A, about midway of its length, is secured a frame, B, at right angles thereto, the upper portion of the said frame B being slotted to receive the said rod. Located within the said frame is a movable bar or follower, D, which is free to slide up and down within the same, and is guided in its movements by means of guide-rods *d* on the interior surfaces of the sides of the said frame. F is a set-screw, which passes down through the said frame B, its lower end acting upon the bar or follower D, so as to clamp any article which may be placed between the said follower and the lower bar or side of the frame B. I represents a tool in position to be ground, being placed for that purpose between the follower D and the lower bar of the frame B, and held firmly in position by means of the set-screw F.

K represents a tank or receptacle to hold water with which to wet the grindstone, the water being emitted therefrom through a pipe, *p*, placed in suitable position for that purpose. This tank K is secured upon the rod A, and is provided with a screw-cap, *f*, by means of which the flow of water may be regulated at the will of the operator.

The tool to be ground having been placed in the position above mentioned, and being firmly held therein by means of the set-screw, the pointed end of the bar A is either fixed in a wooden standard at the end of the grindstone-frame or in some other suitable support, at a suitable height above the grindstone, and the tool is held down to the latter by taking hold of the handle *a*. The angle or bevel of the edge is regulated by raising or lowering the prong *b* relatively with the grindstone.

By this means the tool may be held firmly and steadily to the stone with one hand, while the other hand is left free with which to turn the stone, and an even and uniform edge can be formed with any desired bevel, and at the same time a proper quantity of water can be supplied during the operation.

Gouges and other tools having curved edges may be ground with great precision by gradually turning the handle back and forth while they are being ground.

What we claim as our invention is—

The tool-holder herein described, consisting of the bar A, having a handle, *a*, at one end, and a prong, *b*, at its other end, the cross-frame B, constructed as described, and provided with a movable bar or follower, D, operated by the set-screw E, and the tank K, the said parts being arranged substantially as shown and described, for the purposes set forth.

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