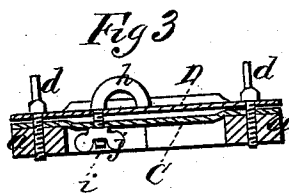
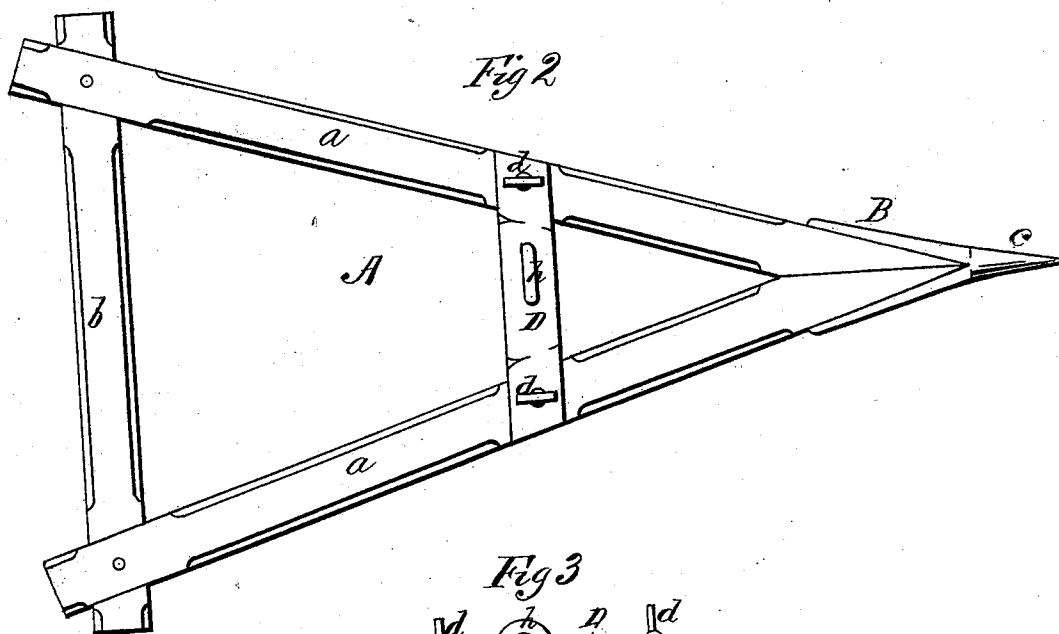
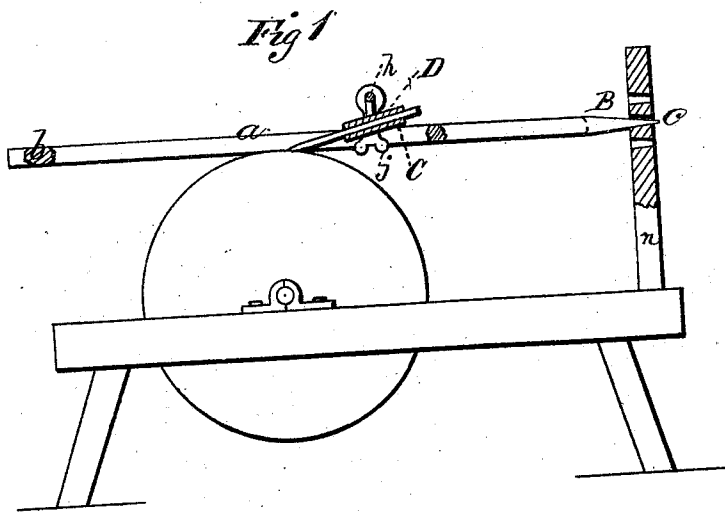


C. N. FISHER.
TOOL HOLDERS FOR GRINDING

Patented May 2, 1876.

No. 176,946.



WITNESSES
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UNITED STATES PATENT OFFICE.

CHARLES N. FISHER, OF WILLIS, TEXAS, ASSIGNOR OF ONE-HALF HIS
RIGHT TO JOSEPH FRAMPTON, OF SAME PLACE.

IMPROVEMENT IN TOOL-HOLDERS FOR GRINDING.

Specification forming part of Letters Patent No. **176,946**, dated May 2, 1876; application filed
January 9, 1875.

To all whom it may concern:

Be it known that I, CHARLES N. FISHER, of Willis, in the county of Montgomery and State of Texas, have invented a new and valuable Improvement in Tool-Holders; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a longitudinal vertical section of my tool-holder. Fig. 2 is a plan view of the same, and Fig. 3 is a sectional detail view.

This invention has relation to improvements in holders, which are designed for holding tools in contact with the periphery of a grindstone; and the nature of the invention consists in a triangular frame transversely braced at or near the middle of its length, which brace is provided with a perforation adapted to receive the end of a metallic hook, upon the screw-threaded end of which is applied a clamping-nut, whereby a means is provided for holding axes, chisels, and the like when the same are rigidly clamped by the said hook against the brace by setting up the thumb-nut. It also consists in a detachable plate applied upon the cross-bar, and clamped against the same by means of thumb-screws, whereby a means is provided whereby a flat tool—as, for instance, a plane-bit—may be rigidly set against the edge of the stone to produce any desired bevel, when the same is inserted between the cross and clamping-plate and the set-screws set up, as will be hereinafter more fully explained.

In the annexed drawings, A designates a triangular wooden frame, consisting of two lateral bars, *a*, and a handle-bar, *b*, as shown in Fig. 1. This frame is provided at the point of convergence of bars *a* with a strong metallic corner-piece, B, terminating in a tapering point, *c*, for a purpose hereinafter made clear.

At or near the center of the length of the triangular frame A a strong metallic plate C is rigidly secured in an inclined position to the plane of the frame and parallel to the handle-bar *b*. This plate has cut through it,

at suitable distance to one side of the center of its length, a perforation, into which a hook, *h*, is designed to be inserted under circumstances and for a purpose hereinafter explained. D indicates a detachable metallic clamp, preferably of the same dimensions as plate C, and having a vertical perforation cut through it registering with that of the said plate. Clamp D is removably attached to, and adjustably applied on frame A, under plate C, by means of thumb-screws *d*, both the plate and the clamp having their bodies swaged downwardly in an equal incline from the horizontal plane of the frame for the purpose of allowing a flat tool, such as a plane-bit, to be held in an inclined position upon the edge of the stone, as shown in Fig. 1. This tool or any similar flat tool is held rigidly in place by setting up screws *d*, thereby clamping it rigidly up against plate C by their action upon clamp-plate D. The tapering point *c*, of corner piece B, is adapted to be inserted into an upright, shown in Fig. 1, rigidly secured in proper position relative to the grindstone upon its frame, the frame A of the holder extending over and beyond the stone. By this means a vertically vibratory motion may be imparted to the tool for the purpose of giving it the rounding edge common to many varieties of tools.

With a view to adapting the holder above described to be used for holding tools with enlarged handles, as chisels, and other like articles, I make use of a strong metallic hook, *h*, having its screw-threaded end *i* passed into the registering perforations above mentioned in the clamp-plate D and cross-plate C, as shown in Fig. 3. *j* designates a thumb-nut applied upon the projecting screw-threaded end *i* of hook *h*, whereby it is rendered capable of being clamped over the handle of a chisel for the purpose of holding it rigidly against vibration. The handle of a chisel or other like tool is inserted under the hooked end of clamp *h* between it and plate C; thumb-nut *j* is then forcibly set up, and the tool secured in position for grinding. Point *c* of corner-piece B being inserted into a suitable perforation in the upright above described, and the stone having been set in motion, the

operator is enabled to rapidly and conveniently manipulate the tool to give it either a straight or a round edge.

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

The tool-holder herein described, consisting of the triangular frame A, provided with the angle-iron B, having the tapering point *c*, the clamp-plates D and C, the plane of the latter being inclined to the plane of the frame, and

the former being provided with the hook *h* having a screw-shank, *i*, and thumb-nut *j*, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHARLES NICHOLAS FISHER.

Witnesses:

J. M. FULLINWIDER,

A. E. FULLINWIDER.