(No Model.)

J. R. KENNETT.

TOOL HOLDER FOR GRINDING TOOLS.

No. 271,249. Patented Jan. 30, 1883.

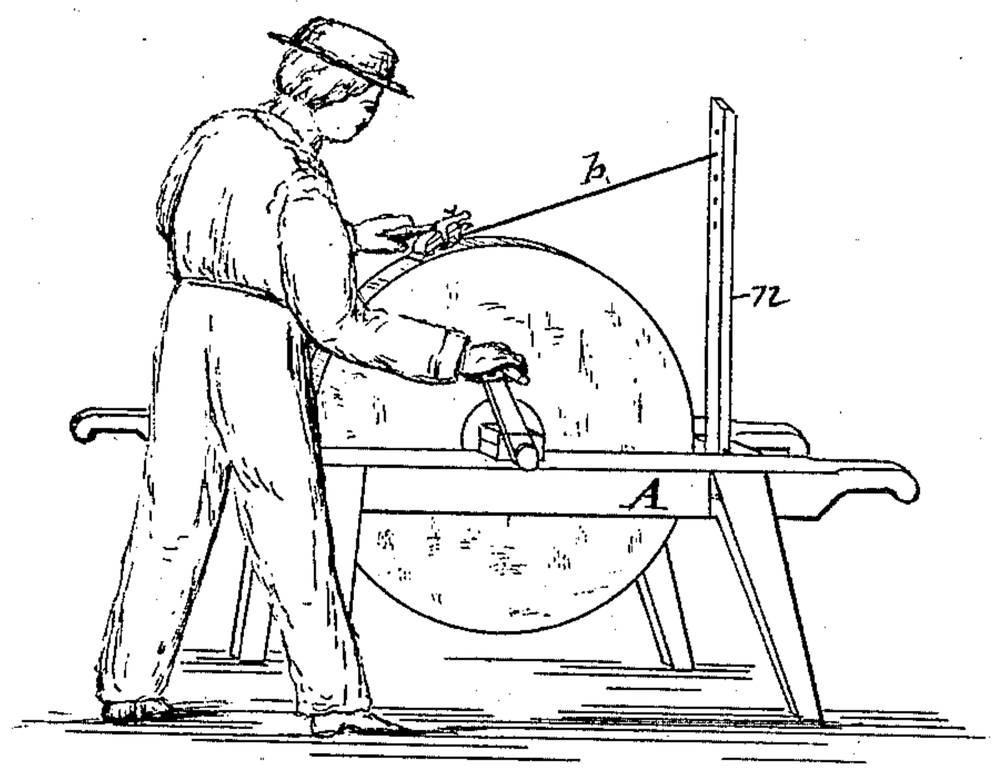
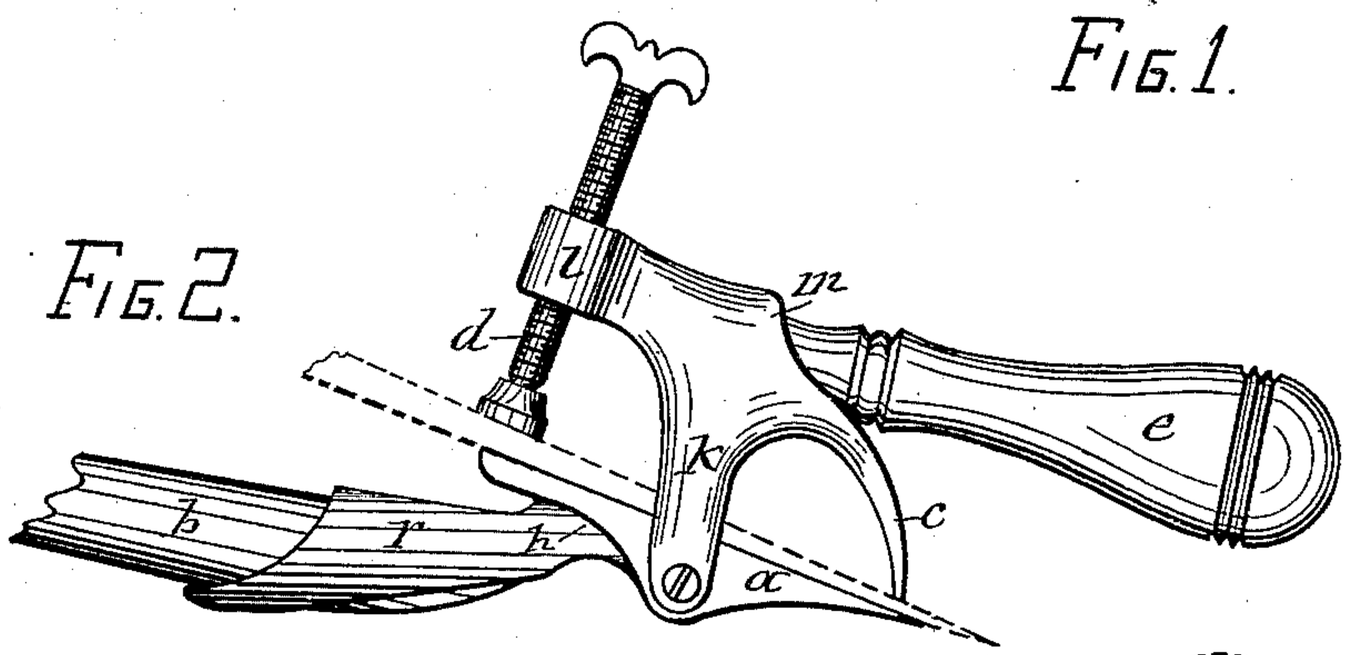


FIG. 1.

FIG. 2.



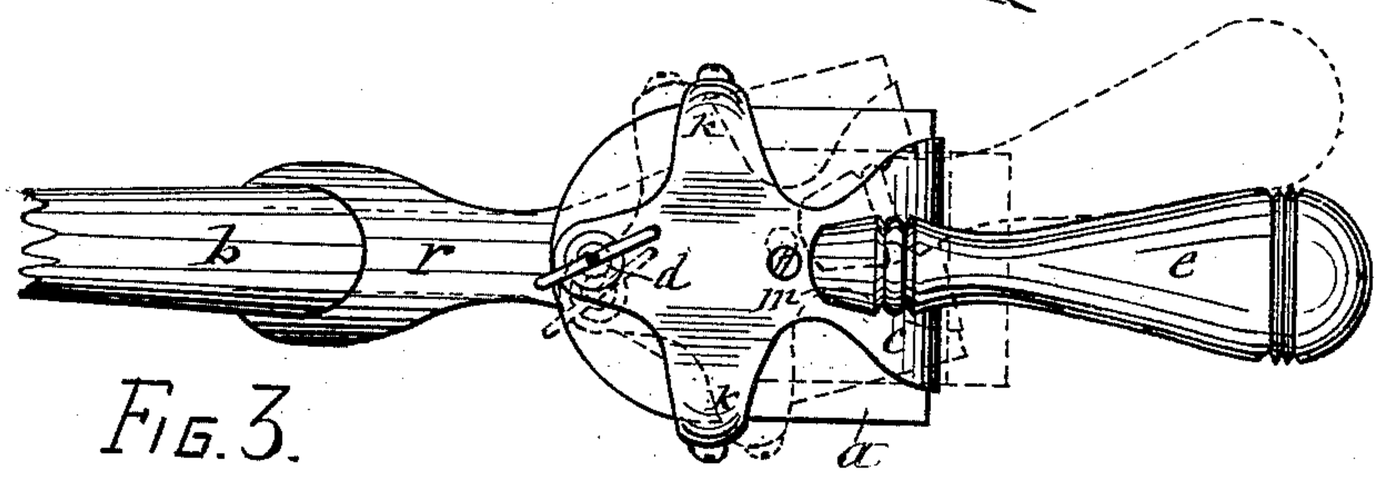


FIG. 3.

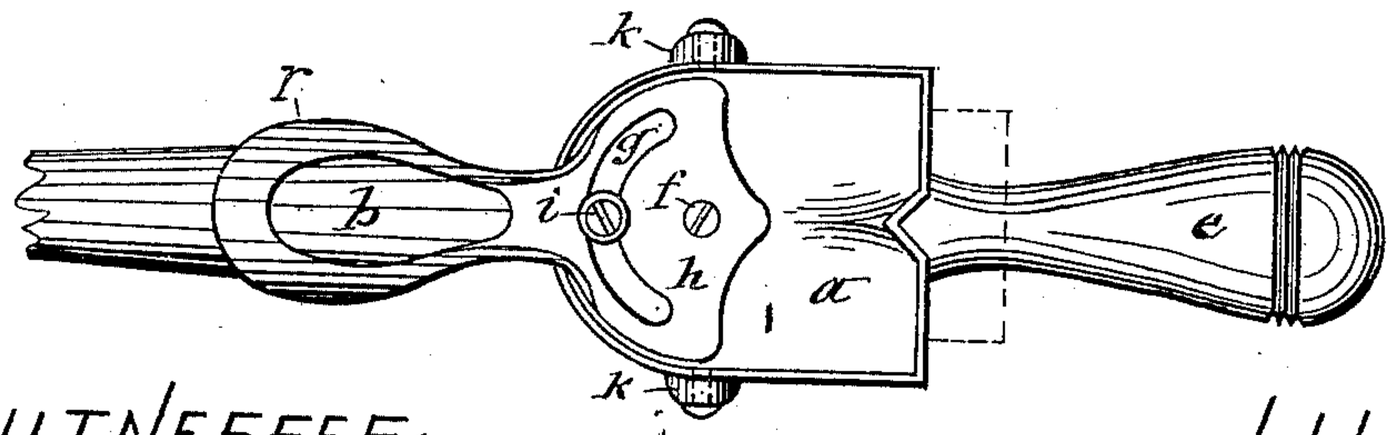


FIG. 4.

WITNESSES:

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Wm. C. Raymond.

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per Duell, Lacey & Hay

his Attys

UNITED STATES PATENT OFFICE.

JOHN R. KENNETT, OF GEDDES, NEW YORK.

TOOL-HOLDER FOR GRINDING TOOLS.

SPECIFICATION forming part of Letters Patent No. 271,249, dated January 30, 1883.

Application filed November 15, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. KENNETT, of Geddes, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Tool-Holders for Grinding Tools, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to improved means for holding tools to be sharpened in proper position to bring the cutting-edge thereof at the requisite angle on the grindstone or emery-wheel for grinding said edge.

The invention is fully illustrated in the annexed drawings, wherein Figure 1 illustrates the operation of my improved tool-holder. Fig. 2 is a side view of said tool-holder. Fig. 3 is a top view, and Fig. 4 an inverted plan view, of the same.

Similar letters of reference indicate corresponding parts.

a denotes the tool-supporting plate, of any desirable shape to properly support the tool to be ground, in this case represented with a flat surface suitable for holding a chisel or plane-knife. This plate is pivoted on top of another plate, *h*, by means of a screw or pin, *f*, passing through the latter and into the former. The plate *h* is provided with a segmental slot, *g*, which is concentric with the pivot *f*, and through the said slot passes a clamp-screw, *i*, which is connected with the supporting-plate *h*, and bears with its head on a washer placed on the under side of the plate *h*, as shown in Fig. 4 of the drawings. The aforesaid connection of the plates *a* and *h* allows the supporting-plate *a* to be set at various angles, as illustrated in Fig. 3 of the drawings, and thus adapts the device for holding tools with oblique as well as right-angled cutting-edges in their requisite position on the grindstone. The plate *h* is provided with a socket, *r*, in which is inserted a rod or stem, *b*, for the purpose hereinafter explained. C denotes the tool-gripping jaw formed in one piece, respectively, with a rearward extension, L, a forward socket, and two downward-projecting arms, K K, by the extremities of which latter the said jaw is hinged or fulcrumed on the sides of the supporting-plate *a*. A set-screw, *d*, passing vertically through the end of the extension *l*, and pressing either on top of the supporting-plate *a* or on the tool resting upon the same, exerts a corresponding downward pressure on the jaw C, fulcrumed on the supporting-plate, as before described, and serving to firmly clamp the tool in position.

It is obvious that a wedge or cam can be substituted for the screw *d*, and I therefore do not limit myself in that respect.

In the socket *m* is inserted a suitable handle, *e*, for manipulating and guiding the tool-holder.

The described tool-holder is used in the following manner, viz: To the end of the grindstone-frame A is attached a standard, *n*, provided with a series of holes at various points in the height thereof. The free end of the stem *b* of the tool-holder is inserted into such one of the holes in the standard as may be found necessary to bring the tool-holder in proper position over the grindstone, so as to grind to the requisite bevel the edge of the tool clamped in the tool-holder. The operator, grasping the handle *e* of the tool-holder, as illustrated in Fig. 1 of the drawings, guides and holds the tool on the grindstone, the standard *n* resisting the thrust of the tool-holder incident to the friction of the tool bearing on the revolving grindstone.

When it is desired to grind a tool with an oblique cutting-edge the supporting-plate *a* can be turned on its pivot *f* and clamped by the clamping-screw *i* or its equivalent, so as to bring the cutting-edge of the tool in proper position on the grindstone.

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

In combination with the gripping-jaw C, the plate *a*, provided with the pivotal pin or screw *f* and segmental slot *g*, the plate *h*, pivoted on the pin *f*, the clamping-screw *i* in slot *g*, and the stem *b*, connected to the plate *h*, substantially as described and shown.

In testimony whereof I have hereunto signed my name and affixed my seal, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 31st day of October, 1882.

JOHN R. KENNETT. [L. S.]

Witnesses:
C. H. DUELL,
WM. C. RAYMOND.