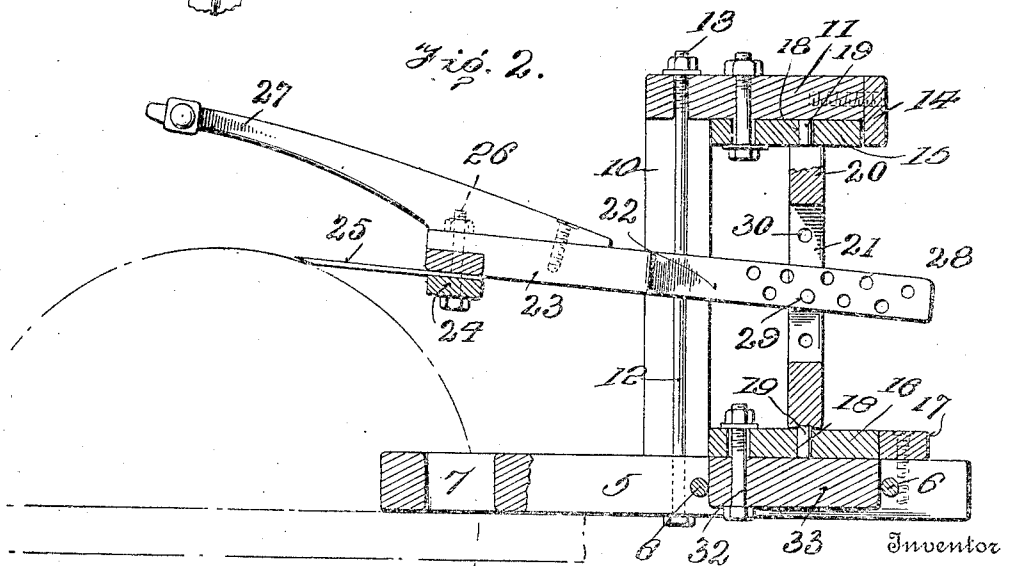
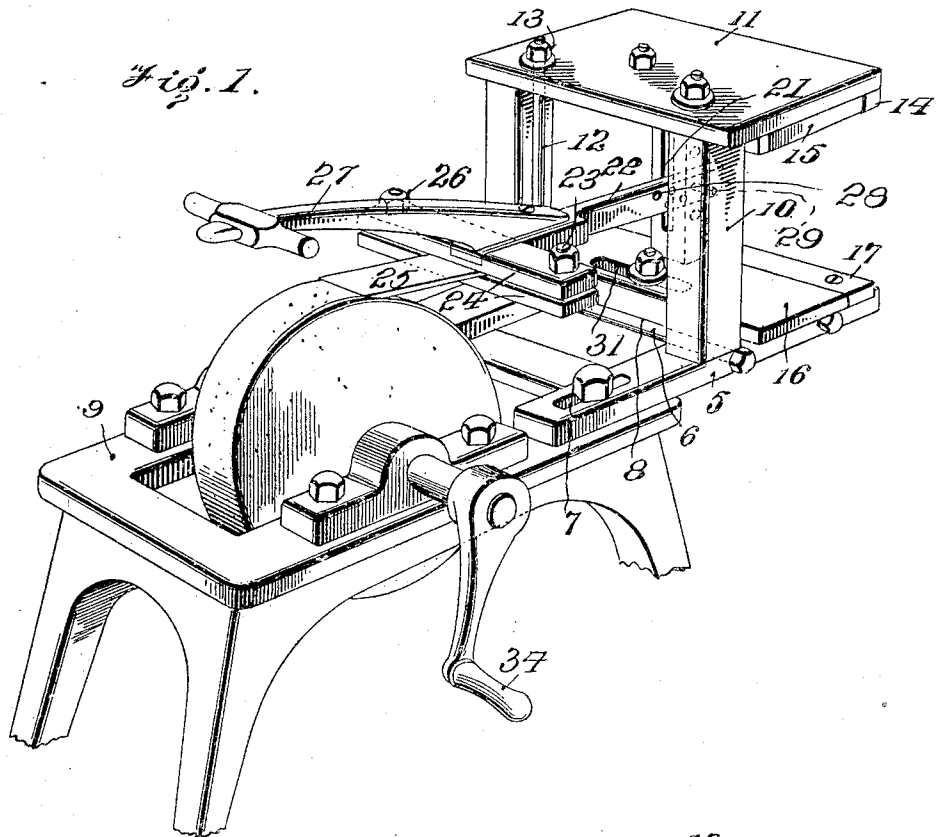


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 TOOL HOLDER.
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UNITED STATES PATENT OFFICE.

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TOOL-HOLDER.

958,945.

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To all whom it may concern:

Be it known that I, JACOB L. STOFFER, a citizen of the United States, residing at Homeworth, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Tool-Holders, of which the following is a specification.

This invention relates to tool holders and has for its object to provide a comparatively simple and thoroughly efficient device of this character for holding edged tools in contact with a grind stone when sharpening the same.

A further object is to provide a tool holder, the construction of which is such that the operator may press the cutting edge of the tool against the grind stone with one hand and with the other hand rotate said stone to effect the sharpening of the tool.

A further object is to provide means for adjusting the pivoted standard of the operating lever laterally with respect to the supporting frame so as to permit the sharpening of tools having relatively long handles.

A still further object of the invention is generally to improve this class of devices so as to increase their utility, durability and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of a tool holder, constructed in accordance with my invention; Fig. 2 is a longitudinal sectional view of the same.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The device comprises a supporting frame including spaced longitudinally disposed sills 5 connected at their rear ends by tie

rods 6 and provided at their forward ends with longitudinal slots 7 for the reception of bolts or similar fastening devices 8 by means of which the same may be secured to the supporting stand or grind stone, indicated at 9.

Extending vertically from the intermediate portions of the longitudinal sills 5 are uprights 10 upon which is mounted a top plate 11, the latter being rigidly secured to the uprights by means of vertical tie rods 12, the lower ends of which pierce the longitudinal sills 5, while the upper ends thereof are threaded for engagement with suitable clamping nuts 13.

Slidably mounted between the rear faces of the uprights 10 and a depending guide strip 14 carried by the top plate 11, is a longitudinally movable plate 15, there being a similar plate 16 slidably mounted on the sills 5 between the standards and a guide strip 17 secured to the rear ends of the sills, as best shown in Fig. 2 of the drawings. The upper and lower plates 15 and 16 are provided with alined openings 18 adapted to receive the trunnions 19 of a pivoted standard 20. The standard 20 is provided with a vertically disposed slot 21 in which is pivotally mounted for tilting movement the rearwardly extending shank 22 of an operating lever 23. Fastened to the lower edge of the operating lever 23 are spaced clamping bars 24 adapted to receive and clamp an edged tool, indicated at 25, the tool 25 being held in position by rotating the nuts 26. Fastened in any suitable manner to the upper longitudinal edge of the lever 23, is a handle 27 so that by grasping the handle the operator may hold the active edge of the tool 25 in contact with the grind stone with one hand and rotate said grind stone with the other hand to effect the sharpening of the tool. The shank 22 of the operating lever is provided with a series of perforations 28, preferably disposed in staggered relation and adapted to receive a pivot pin 29, there being vertical openings 30 formed in the walls of the slot 21 and adapted to register with the openings or perforations 28 to accommodate the pivot pin 29. By making the standard and lever in this manner, said lever may be adjusted both verti-

cally and longitudinally so as to vary the position of the tool 25 with respect to the grinding surface of the stone and thus permit the sharpening of different styles of tools.

The plates 15 and 16 are provided with slots 31 through which extend bolts 32, the latter being secured to the top plate 11 and a filling block 33 interposed between the tie rods 6 and provided with threads for engagement with suitable clamping nuts so that by adjusting said nuts on the bolts, the plates 15 and 16 may be fastened in adjusted position. Thus it will be seen that by loosening the bolts or fastening devices 32 and moving the plates 15 and 16 laterally in either direction, the standard 20 may be moved to either side of the center of the supporting frame so as to permit the sharpening of tools having relatively long handles.

In using the device, the tool to be sharpened is inserted between the clamping bars 24 and retained in position by adjusting the thumb nuts 26, after which the operator grasps the handle 27 with one hand and presses downwardly thereon so as to bring the active edge of the tool in contact with the grind stone, and with the other hand rotates the crank 34, thus permitting the sharpening of the tool in a ready and convenient manner.

Having thus described the invention, what is claimed as new is:

1. A device of the class described including a frame, a standard pivotally mounted on the frame and adjustable laterally with respect thereto, an operating handle pivotally mounted on the standard, and means carried by the operating handle for clamping a tool.

2. A device of the class described including a frame, sliding plates mounted on the frame, a standard pivotally mounted on said plates, an operating lever pivotally mounted on the standard, means carried by the lever for clamping a tool, and means for securing the plates in adjusted position.

3. A device of the class described including a frame, a slotted standard pivotally mounted on the frame and provided with a vertical row of perforations, an operating lever having a shank extending through the slot in the standard and provided with a series of transverse perforations, a pivot pin extending through one of the perforations in the shank and adjacent perforations in the standard, and means carried by the lever for clamping a tool.

4. A device of the class described including a frame, slotted plates slidably mounted on the frame, a standard pivotally mounted between said plates, an operating lever pivotally mounted for tilting movement on the standard, means carried by the operating

lever for clamping a tool, and fastening devices secured to the frame and extending through the slots in the plates for securing said plates in adjusted position.

5. A device of the class described including a frame, slotted plates slidably mounted on the frame, a slotted standard pivotally mounted between the sliding plates, a lever having its rear end reduced to form a shank extending through a slot in the standard and pivotally connected therewith, transverse clamping bars carried by the forward end of the lever for engagement with a tool, and means for clamping the sliding plates in adjusted position.

6. A device of the class described including a frame formed of spaced longitudinal sills having uprights secured thereto and connected by a top plate, tie rods connecting the longitudinal sills, similar rods forming a connection between the top plate and said sills, a standard pivotally mounted on the frame, an operating lever pivotally mounted for tilting movement on the standard and extending longitudinally between the uprights, and means carried by the lever for clamping a tool.

7. A device of the class described including a frame formed of spaced longitudinal sills, uprights secured to the sills, a top plate connecting the uprights and provided with a depending strip, an upper plate slidably mounted on the top plate and bearing against said uprights and depending strip respectively, a transverse strip connecting the sills, a lower plate slidably mounted between the transverse strip and uprights, a standard pivotally mounted between the sliding plates, an operating lever pivotally connected with the standard, means carried by the operating lever for clamping a tool, and means for securing the sliding plates in adjusted position.

8. A device of the class described including spaced longitudinal sills having their forward ends slotted, a filling block interposed between the rear ends of the sills, uprights secured to the sills and connected by a top plate, a depending strip secured to the top plate, an upper plate slidably mounted between the depending strip and uprights and bearing against the top plate, a transverse strip connecting the sills, a lower plate slidably mounted between said transverse strip and uprights, said upper and lower plates being provided with longitudinal slots and having alined openings formed therein, a vertical slotted standard having oppositely disposed trunnions pivotally mounted in the openings in the sliding plates, a lever extending through the slot in the standard and pivotally connected therewith, means carried by the lever for clamping a tool, tie rods connecting the longitu-

dinal sills on opposite sides of the filling
block, similar tie rods forming a connection
between the top plate and sills, and fasten-
ing devices extending through the top plate
5 and filling block and also through the slots
in the sliding plates for clamping the latter
in adjusted position.

In testimony whereof I affix my signa-
ture in presence of two witnesses.

JACOB L. STOFFER. [L. s.]

Witnesses:

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