

(No Model.)

J. MOWRER.

DEVICE FOR HOLDING TOOLS WHILE BEING GROUND OR SHARPENED.

No. 553,010.

Patented Jan. 14, 1896.

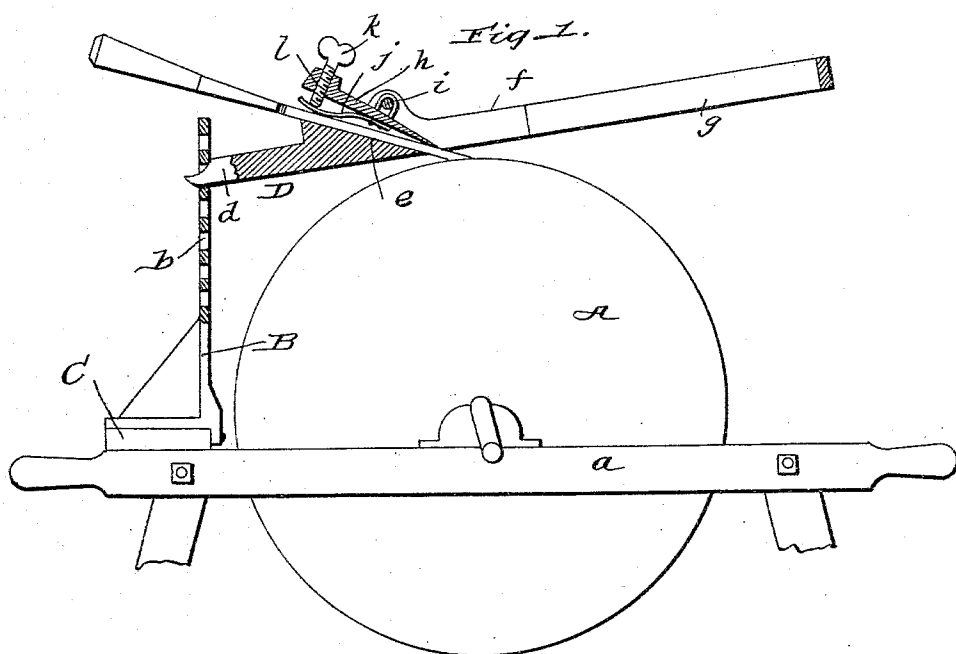


Fig. 2.

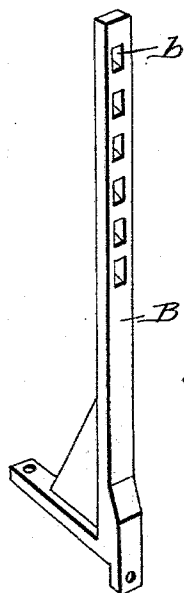
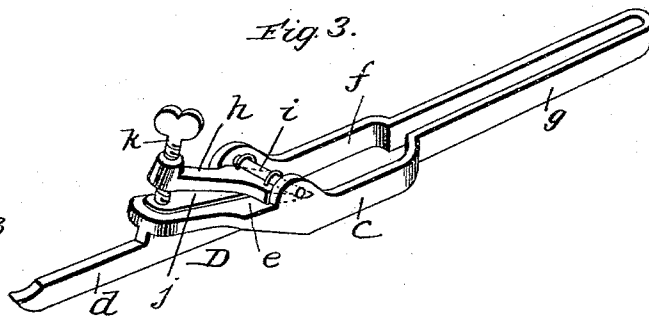


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES MOWRER, OF CASPER, WYOMING.

DEVICE FOR HOLDING TOOLS WHILE BEING GROUND OR SHARPENED.

SPECIFICATION forming part of Letters Patent No. 553,010, dated January 14, 1896.

Application filed June 22, 1895. Serial No. 553,720. (No model.)

To all whom it may concern:

Be it known that I, JAMES MOWRER, a citizen of the United States, residing at Casper, in the county of Natrona and State of Wyoming, have invented certain new and useful Improvements in Devices for Holding Tools While They are Being Ground or Sharpened; and I do 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 those devices which are provided with clamps for engaging tools and are designed for holding the tools while they are being ground or sharpened; and it consists in the peculiar construction, novel combination, and adaptation of parts hereinafter described, and particularly pointed out in the claim appended.

In the accompanying drawings, Figure 1 is an elevation, partly in section, illustrating my improved device in conjunction with a grindstone and a chisel or plane-bit to be sharpened. Fig. 2 is a perspective view of the upright of the device, and Fig. 3 is a similar view of the tool-holder.

Referring by letter to the said drawings, A indicates a grindstone of the usual construction, which is mounted in a suitable frame, as *a*, and B indicates the upright of my improved device. This upright is connected at its lower end to a base C designed to be arranged on the frame of a grindstone, as shown in Fig. 1, and it is provided at intervals in its length with apertures *b*, designed to receive the end of the tool-holder D, said plurality of apertures being provided in order to permit the tool-holder to be arranged at various distances above the base C to suit grindstones of various diameters and bevel of tool.

The tool-holder D, as better shown in Fig. 3 of the drawings, comprises the body *c*, which is provided with the reduced portion *d*, having its end shaped to enter the apertures of the upright B, the inclined rest *e* for the tool to be sharpened, and the loop portion *f*, which is of a width to receive the blade of a tool for a portion of its length and is reduced in width the remainder of its length so as to form a convenient hand-grasp *g*, and the clamp *h*, which is designed and adapted to bear upon and hold the blade of the tool upon the rest *e*

of the body portion *c*. This clamp *h* is pivotally connected at an intermediate point of its length to a transverse bar *i*, extending across the loop *f*, and it is provided on its under side with a spring-plate *j*, which is fixedly connected to it at one end, preferably at a point below the bar *i*, and is designed to be engaged at its opposite end by a binding-screw *k*, which extends through a threaded aperture *l* in the clamp *h*, as better shown in Fig. 1. By reason of this construction it will be seen that when the blade of a tool is extended through the loop *f* of the holder D and interposed between the clamp *h* and its spring-plate and the inclined rest *e*, and the screw *k* is turned so as to bind the spring against the blade, the said blade will be engaged by the clamp in advance and in rear of the fulcrum-point thereof and will be securely held in position.

While the blade of a tool will be securely held in the holder D, as just described, and will not be liable to casual movement or displacement, yet it may be readily released, so as to move it away from the tool, when said tool may be readily removed.

The spring-plate *j* is fixedly connected to the clamp *h* at a point below the fulcrum thereof, and in addition to preventing the binding-screw *k* from indenting or otherwise marring a tool it serves to bind a tool against the rest *e*, and thereby hold it against casual movement before it is positively fixed in the holder by tightening the screw. By reason of this it will be seen that the operator may grasp the handle of the holder with one hand and may properly adjust the tool in the holder with respect to the grindstone with his other hand, and may then with such other hand tighten the screw on the tool, the spring *j* being adapted to prevent casual movement of the tool in the interval between the adjustment thereof and the tightening of the binding-screw.

In the practice of the invention the blade of the tool to be sharpened is placed and secured in the holder D, as shown in Fig. 1 and as just described, and the end of the reduced portion *d* of the holder is placed in one of the apertures *b* of the upright B, which is designed to serve as a fulcrum for the holder. When the blade of the tool is properly placed

in the holder and the holder is placed in engagement with the upright B, it is simply necessary for the operator to press downwardly on the free end of the holder until the
5 blade is properly sharpened, when the holder may be readily disengaged from the upright and the tool may be readily removed from the holder and another tool placed and secured in position, after which the operation above
10 described may be repeated.

It will be seen from the foregoing that my improved device is very cheap and simple, that a tool may be readily placed and secured in position in it, and that with it a tool may
15 be held and conveniently sharpened in a correct manner.

I have in some respects specifically described the construction and relative arrangement of the parts of my improved device in
20 order to impart a full and clear understanding of the same; but I do not desire to be understood as confining myself to such construction and arrangement, as such changes or modifications may be made in practice as
25 fairly fall within the scope of my invention.

Having described my invention, what I claim is—

The device described for holding tools while they are being ground comprising an upright and a holder adapted to be placed in engagement with the upright and having the loop *f*,
30 adapted to receive the blade of a tool, the inclined rest *e*, adapted to support the blade of the tool, the clamp *h*, fulcrumed at an intermediate point of its length above the inclined
35 rest and having a threaded aperture adjacent to its upper end, the spring plate *j*, fixedly connected at one end to the under side of the clamp *h*, at a point below the fulcrum thereof and resting beneath the upper portion of said
40 clamp and the binding screw *k*, taking through a threaded aperture of the clamp and adapted to engage and press the spring plate against a tool, all substantially as specified.

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

JAMES MOWRER.

Witnesses:

J. E. DAVIS,

CHAS. O'NEALL.