(No Model.)

E. WATERS.

TOOL HOLDER.

No. 338,322. Patented Mar. 23, 1886.

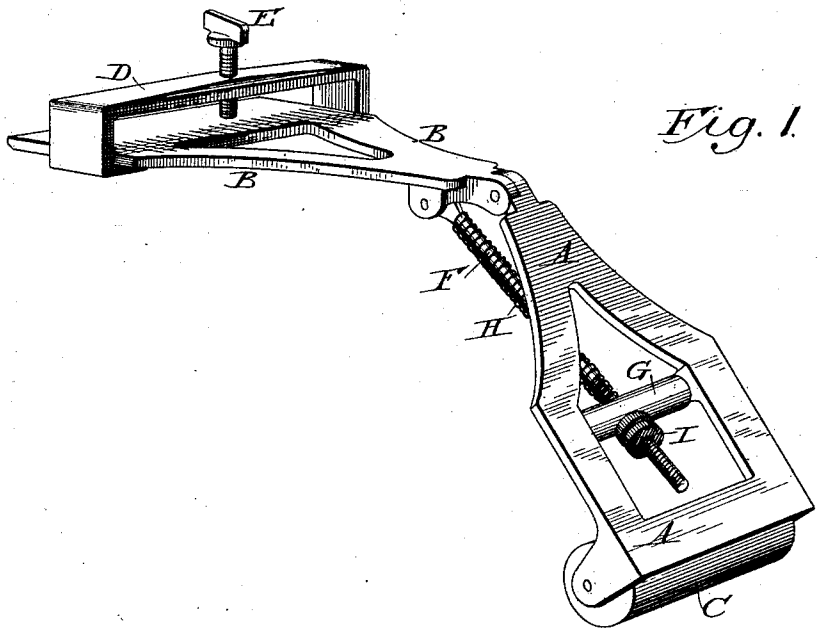
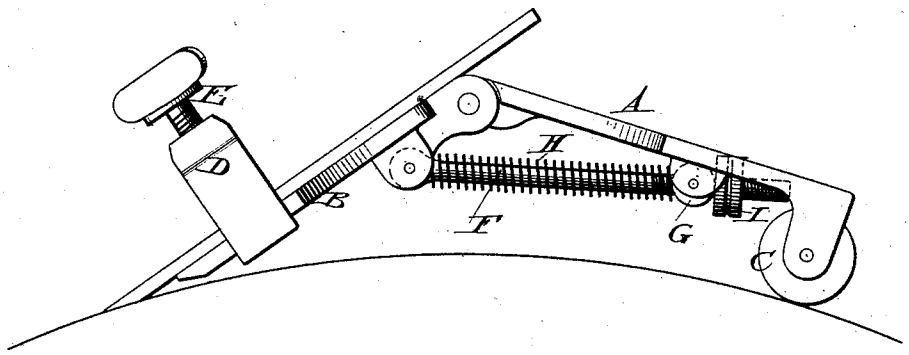


Fig. 1.

Fig. 2.



WITNESSES

Sidney P. Hollingsworth

W. H. Shipley.

INVENTOR

Elisha Waters

By Philip T. Dodge

Attorney

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

ELISHA WATERS, OF TROY, NEW YORK.

TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 338,322, dated March 23, 1886.

Application filed June 16, 1885. Serial No. 168,844. (No model.)

To all whom it may concern:

Be it known that I, ELISHA WATERS, of Troy, in the county of Rensselaer and State of New York, have invented certain Improvements in Tool-Holders, of which the following is a specification.

This invention relates to a device for holding edge-tools and presenting the same in the required position to the surface of a grindstone or other abrading-surface; and it consists, essentially, in a jointed frame provided at opposite ends with a supporting-roll and a tool-holding clamp, its two parts being connected by an adjustable rod, so that the angle of the tool with reference to the grinding-surface may be varied at will.

Referring to the drawings, Figure 1 represents a perspective view of my holder. Fig. 2 is a side elevation of the same as it appears when in action.

Referring to the drawings, the two plates A and B, jointed together at one end, constitute the body of the holder. The plate A is provided at one end with a supporting-roll, C, the journal or pivot of which is mounted in ears depending from the edges of the plate. The plate B, the upper surface of which is adapted to give support to plane-bodies, chisels, and other edged tools, is provided with an overlying bar or stirrup, D, having at the middle a set-screw, E, by which the tool may be confined firmly in position thereon. The two parts of the frame are further connected by a rod, F, one end of which is pivoted to ears on the under side of the plate B, while the opposite end is extended through a swiveling bar, G, or equivalent guide on the under side of the plate A. A spiral spring, H, surrounding the rod tends to bring the parts A and B to a common plane, or in line with each other, while a nut, I, applied to the threaded end of the rod serves as a means of throwing the two parts A and B out of line, so as to cause the edge of the tool carried by the part B to be presented at a greater or less angle to the grinding-surface.

In making use of the device, the blade or tool is inserted beneath the stirrup D and confined in place by the screw E, its edge projecting beyond the plate B. The device is thus placed in position upon the grinding-surface, as shown in Fig. 2, one end being sustained and carried by the roller C, while the opposite end is sustained by the tool, the edge of which is permitted to bear upon the grinding-surface, as plainly represented in Fig. 2.

The device forms a light, simple, and convenient means by which the attendant may present the tool steadily and firmly to the grinding-surface at any angle required.

Having thus described my invention, what I claim is—

1. The tool-holder consisting of the jointed frame provided with the supporting-roll and a tool-clamping device at opposite ends, and with means, substantially as described, for adjusting the angle of the jointed parts with respect to each other.

2. The plate A, having a supporting-roll, C, in combination with the plate B, jointed thereto, and provided with the bar D and screw E, the rod F, spring H, and nut I.

3. In a tool-holder, a transversely-jointed frame provided with a supporting-roll and a tool-clamp at opposite ends, in combination with a screw for bending or flexing the frame and a spring tending to straighten the same as it is relieved from the action of the screw.

4. In a tool holder, the plate A, provided with the roller C and swiveled bar G, in combination with the plate B, jointed thereto and provided with the tool-clamping device, the rod F, jointed to the part B and extended through bar G, the spring H, applied to the inner end of said rod, and the nut I, applied to the outer end of the same.

In testimony whereof I hereunto set my hand in the presence of two attesting witnesses.

ELISHA WATERS.

Witnesses:
GEO. A. WATERS,
CHAS. VINTON WATERS.