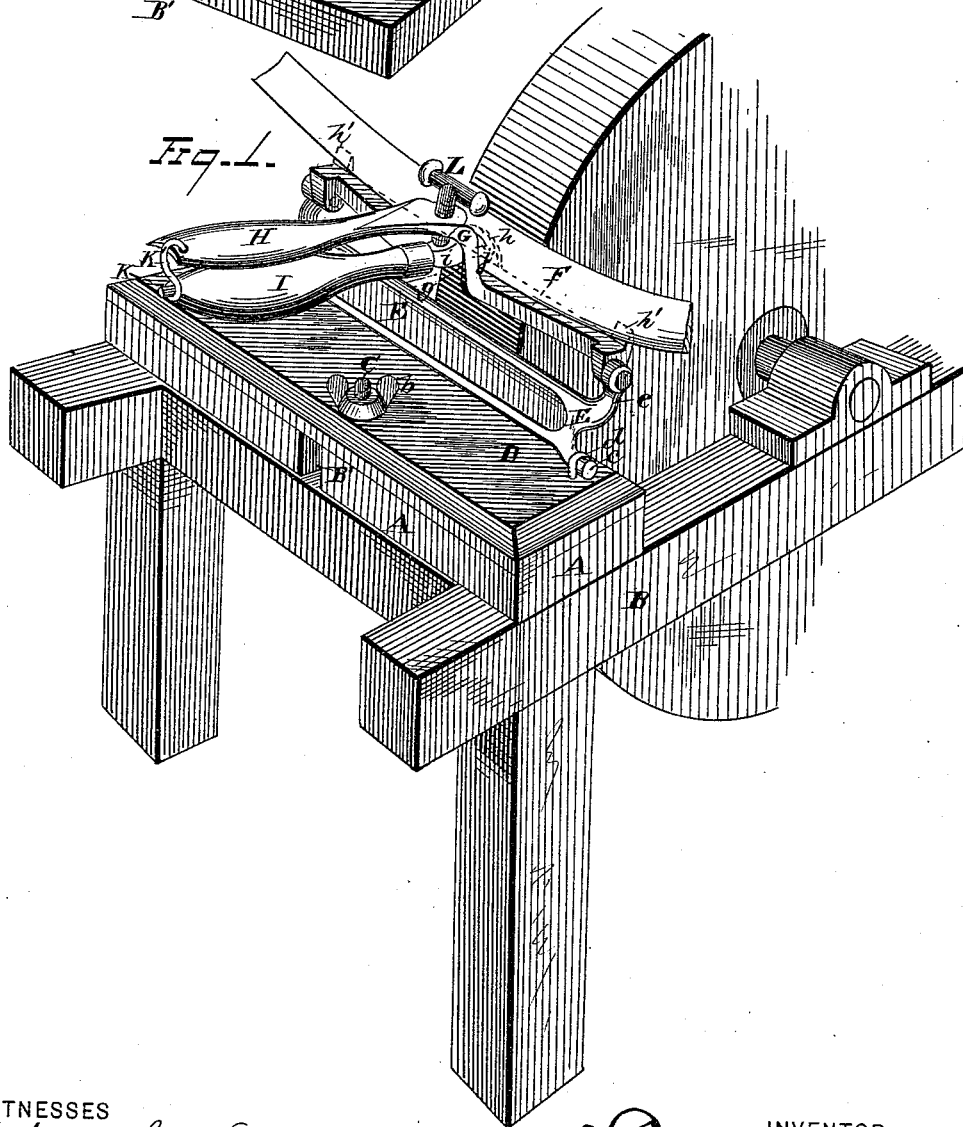
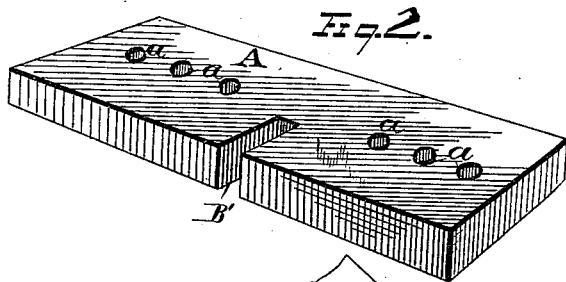


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Holder for Sickles, Knives, &c.

No. 211,842.

Patented Feb. 4, 1879.



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A. M. Bright

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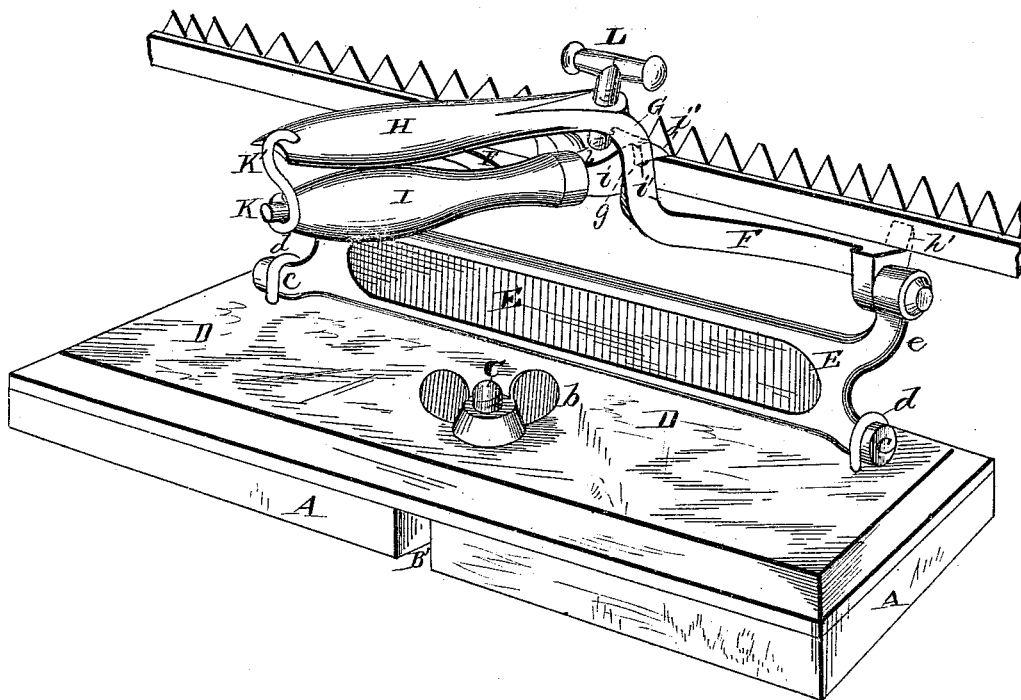
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Fig. 3.



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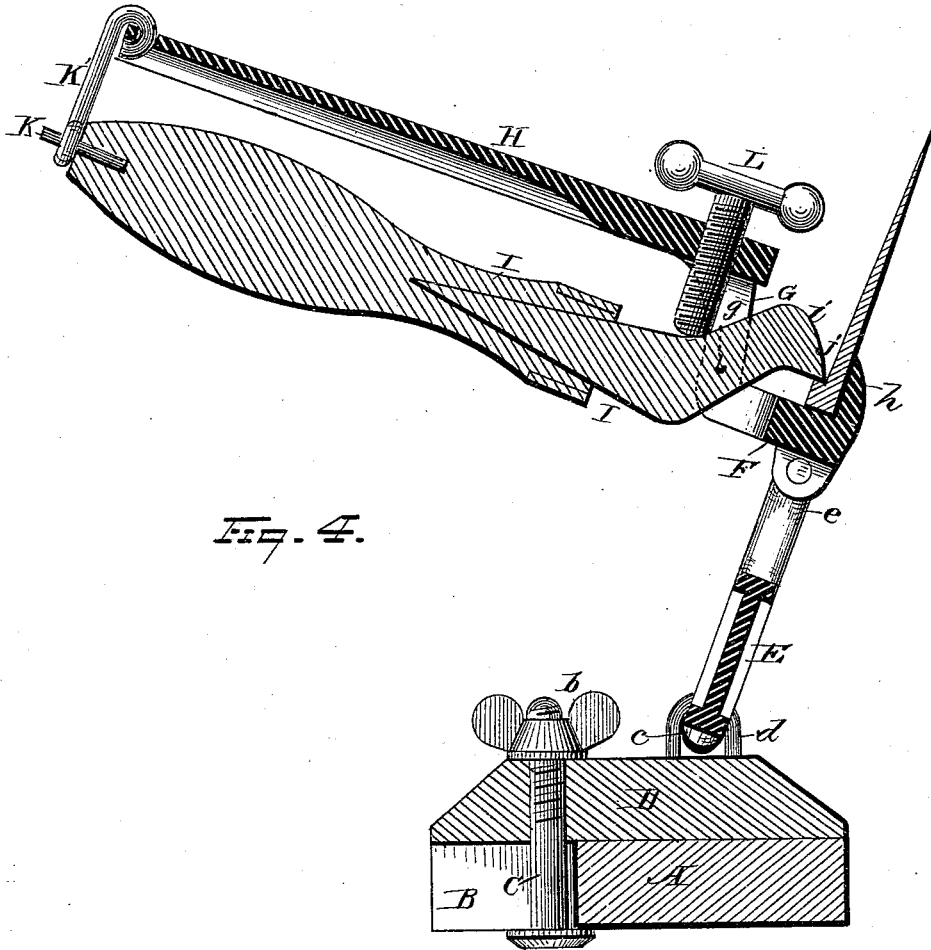


Fig. 4.

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UNITED STATES PATENT OFFICE.

HARVEY L. FISHER, OF TOLEDO, IOWA.

IMPROVEMENT IN HOLDERS FOR SICKLES, KNIVES, &c.

Specification forming part of Letters Patent No. 211,842, dated February 4, 1879; application filed June 17, 1878.

To all whom it may concern:

Be it known that I, HARVEY L. FISHER, of Toledo, in the county of Tama and State of Iowa, have invented certain new and useful Improvements in Sharpeners for Sickles, Knives, &c.; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in sharpeners for sickles, harvesters, &c., the object being to provide a machine which may be readily secured at any desired angle to the frame of a grindstone, and the sickle or knife holder adapted to be readily moved to or from the face of the stone; and to this end my invention consists, first, in the combination, with an adjustable base, of double hinged plates or bars, the upper one provided with a rigid handle having a set-screw, and a loosely-arranged holder for clamping the blade to be sharpened between a lug on the upper plate and the engaging end of the holder.

My invention further consists in the several details of construction and combinations of parts, as will more fully appear from the following description and claims.

In the accompanying drawings, Figure 1 is a view, in perspective, of a grindstone having one of my improved machines attached to the grindstone-frame. Fig. 2 is a plan view of the board which is secured to the frame of the stone. Fig. 3 is an enlarged view, in perspective, of the sharpener having a sickle secured thereto. Fig. 4 is a vertical section taken through the tool-clamp at the junction of the jaws.

A represents a board of any desired length, and provided with any desired number of holes *a* on each end thereof for securing the board to the frame B of the grindstone. B' is a slot formed in the central portion of board A for the reception of a bolt, C, which extends through the adjustable base board or plate D, and is secured by a thumb-nut, *b*.

By loosening nut *b* the base D may be turned at any desired angle to the board A, and secured by again tightening the thumb-nut *b*.

E is a plate having end journals *e*, which are secured within staples *d*, driven into the base-board D. The upper side of plate E is provided at its ends with perforated arms *e*, to which are pivoted the ends of the holding-bar F. To the central portion of holding-bar is secured or cast solid therewith a guide, G, provided with an opening, *g*, and from which guide extends a handle, H. The forward edge of holding-bar F is provided with central lug, *h*, and end lugs, *h'*, which serve as rests for the sickle.

I represents an adjustable holder, the forward end, *i*, of which extends through the opening *g* in the guide G, and is prevented from displacement therefrom by means of the laterally-projecting shoulders *i'*. The front or engaging end or face, *j*, of the adjustable holder is of practically the same width as the central lug or rest, *h*, in order that the sickle may be firmly held between such parts. The rear end of adjustable holder I is provided with a pin, K, or equivalent device, with which engages a hook, K', attached to the rear end of the handle H, in order that the holder may be retained in close proximity to said handle, and be readily grasped by the hand of the operator.

L is a set-screw, which extends through the upper portion of the guide G and engages with the forward end of the adjustable holding-bar.

The operation of my machine is as follows: The board A is first secured to the frame of a grindstone, and the back of the sickle or knife is then placed on the holding-bar with one side resting against the central and end lugs, *h h'*. The end face, *j*, of the adjustable holder is then forced snugly against the opposite side of the sickle or knife, after which the set-screw L is forced against the inclined plane *l* on the adjustable holder, which causes the latter to securely wedge and hold the article to be shaped between the end face, *j*, and lugs *h h'*. After the blade has thus been secured the base-plate is adjusted at any desired angle to the face of the stone, according to the contour of the edge of the blade, or according to the bevel to be imparted to the cutting-edge.

By means of the double hinge the sickle or knife may be freely moved toward or from the stone as a considerable range of movement is secured.

It will be observed that while my improved machine is adapted to be readily manipulated and allow many forms of cutting implements to be ground thereon, the parts of the machine are few in number, and are durably constructed, and not liable to need repairs.

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

1. In a sickle-holder, the combination, with a hinged plate and a pivoted or hinged holding-bar provided with a central guide-aperture and handle, of an adjustable holder and a set-screw engaging the inclined portion *l* on the upper face thereof, substantially as set forth.

2. In a sickle-holder, the combination, with a hinged plate having a holding-bar hinged thereto, said bar being provided with central and end rests or lugs, and with a guide-aperture and with a handle, an adjustable holder having an engaging face, which operates in conjunction with the central lug or rest on the holding-bar, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 7th day of June, 1878.

HARVEY L. FISHER.

Witnesses:

D. SPAYTH,
A. J. HASSELL.