H. E. FULLER.

Holder for Sickle, &c.

No. 215,732. Patented May 27, 1879.

Fig. 1

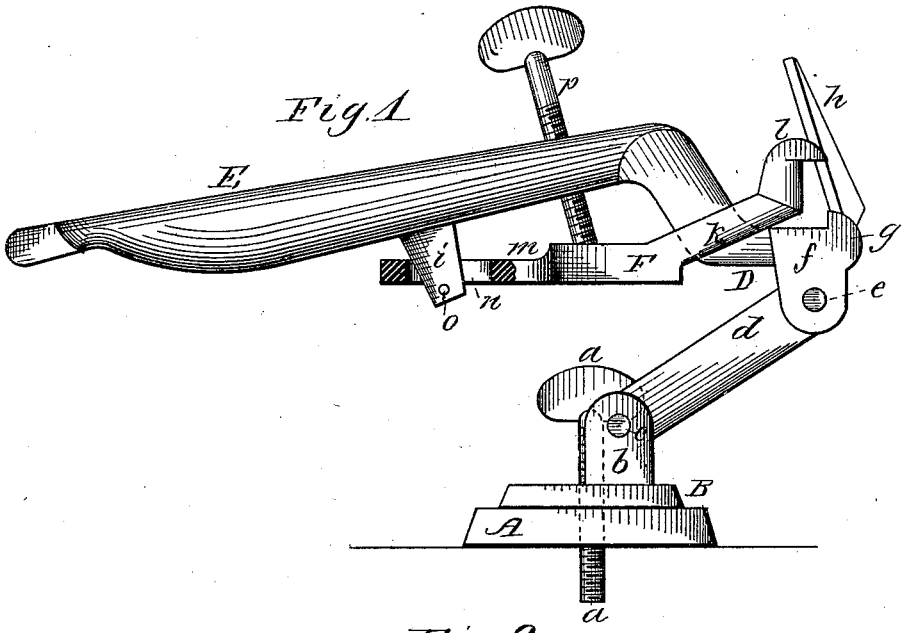
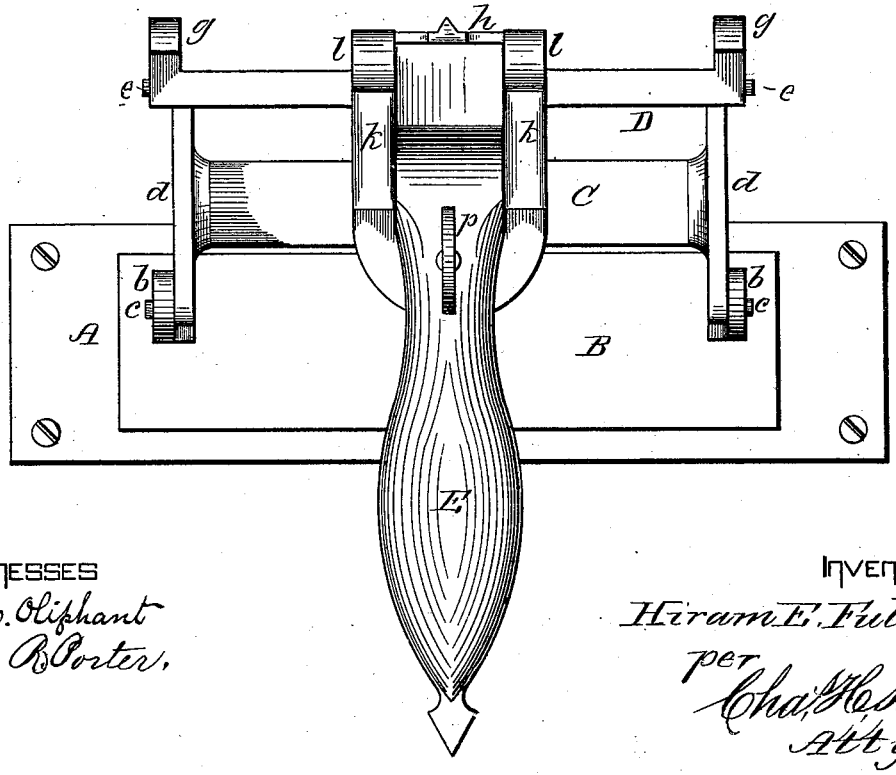



Fig. 2.




WITNESSES

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# UNITED STATES PATENT OFFICE.

HIRAM E. FULLER, OF TOLEDO, IOWA.

## IMPROVEMENT IN HOLDERS FOR SICKLES, &c.

Specification forming part of Letters Patent No. **215,732**, dated May 27, 1879; application filed March 27, 1879.

*To all whom it may concern:*

Be it known that I, HIRAM E. FULLER, of Toledo, in the county of Tama and State of Iowa, have invented a new and valuable Improvement in Holders for Sickles, &c.; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of my invention, and Fig. 2 is a top-plan view of the same.

This invention is an improvement upon that class of holders for sickles and other knives which have double hinged plates or bars, the upper one provided with a 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.

The object of the present invention is to improve the construction of this class of holders, whereby they are increased in strength, and therefore more durable; also simplifying the construction and lessening the cost of their manufacture, as will be hereinafter described, and subsequently pointed out in the claim.

In the accompanying drawings, A represents a block or board of rectangular form, having any suitable number of holes for attaching it to the frame of the grindstone by bolts or screws. To the block A is secured a base-plate, B, of metal, said plate being fastened thereto by a thumb-screw, *a*, extending through it and through the block A. The base-plate B is cast with ears *b* upon each end thereof, to form bearings for journals *c* upon the inner ends of the castings or straps *d*. These metal straps *d* are braced by a central bar, C, and upon the opposite ends of the straps *d* are journals *e*, to which is connected a holding-frame, D, by ears *f*. This bar C and its straps *d* and journals are cast in one piece, or from a single piece of metal, forming a double T-iron of great strength and durability; and it is easily connected to the base-plate B and holding-frame D by first springing the bar C in the center and placing the journals *c e* in position, after which the bar C is sprung back, thereby dispensing with either staples, rivets, or bolts, and not only greatly decreasing the cost of manufacture, but adding materially to the strength of this class of devices.

The frame D is cast with lugs *g*, one upon each end of the frame, which serve as rests for the sickle. Equidistant from the ends of the frame or the lugs *g* is a central bearing-plate, *h*, to further support the cutting-instrument being sharpened. The frame D is cast with a suitable handle, E, and tongue *i*, extending down from the under side of the handle. The holder F is cast with two arms, *k*, which straddle that portion of the frame joining the handle E, each of the arms *k* being formed upon their ends with shoulders *l*, in order that the sickle may be held in position upon the frame D, and against the lugs *g* and bearing-plate *h*. The rear end of the holder F is cast with a flat shank, *m*, having an elongated opening, *n*, therein to receive the tongue *i*, said tongue held within the opening by a pin, *o*.

A thumb or set screw, *p*, passes through the handle E, the lower end bearing upon the upper face of the holder F, for the purpose of causing the holder to securely clamp the sickle.

The manner of connecting the holder F to the handle E renders it easily controlled by the screw *p*, and prevents the possibility of the rear end of the holder becoming disconnected with the handle; also prevents any sidewise or lateral displacement.

It will be further noticed that the necessity of casting the frame D with a slot or opening for the reception of the arm of the holder, to guide it in its movement, is entirely dispensed with. Thereby the frame and handle are greatly increased in strength, the arms *k* passing upon each side of the frame and handle, making it unnecessary to cast the handle or frame with an opening.

The hooks and pins usually employed for connecting the handle and holder together are also dispensed with, the tongue *i* and slotted shank *m* serving the same purpose, and with less expense, and not as liable to become broken or otherwise injured by the strain upon the holder, and the parts are so proportioned

that the holder F cannot become detached from the handle E, and a much firmer hold is obtained by having two arms to the holder than that class of devices in which the holder has only one arm bearing on the sickle-blade.

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

The holder F, with recessed shank *m* and arms *k*, in combination with the handle E, having tongue *i*, and holding-frame D, with the pivoted straps *d*, the tongue *i* being held in engagement with the recess *n*, and the arms *k* being held over the frame D, as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HIRAM E. FULLER.

Witnesses:
E. C. EBERSOLE,
J. W. WILLETT.