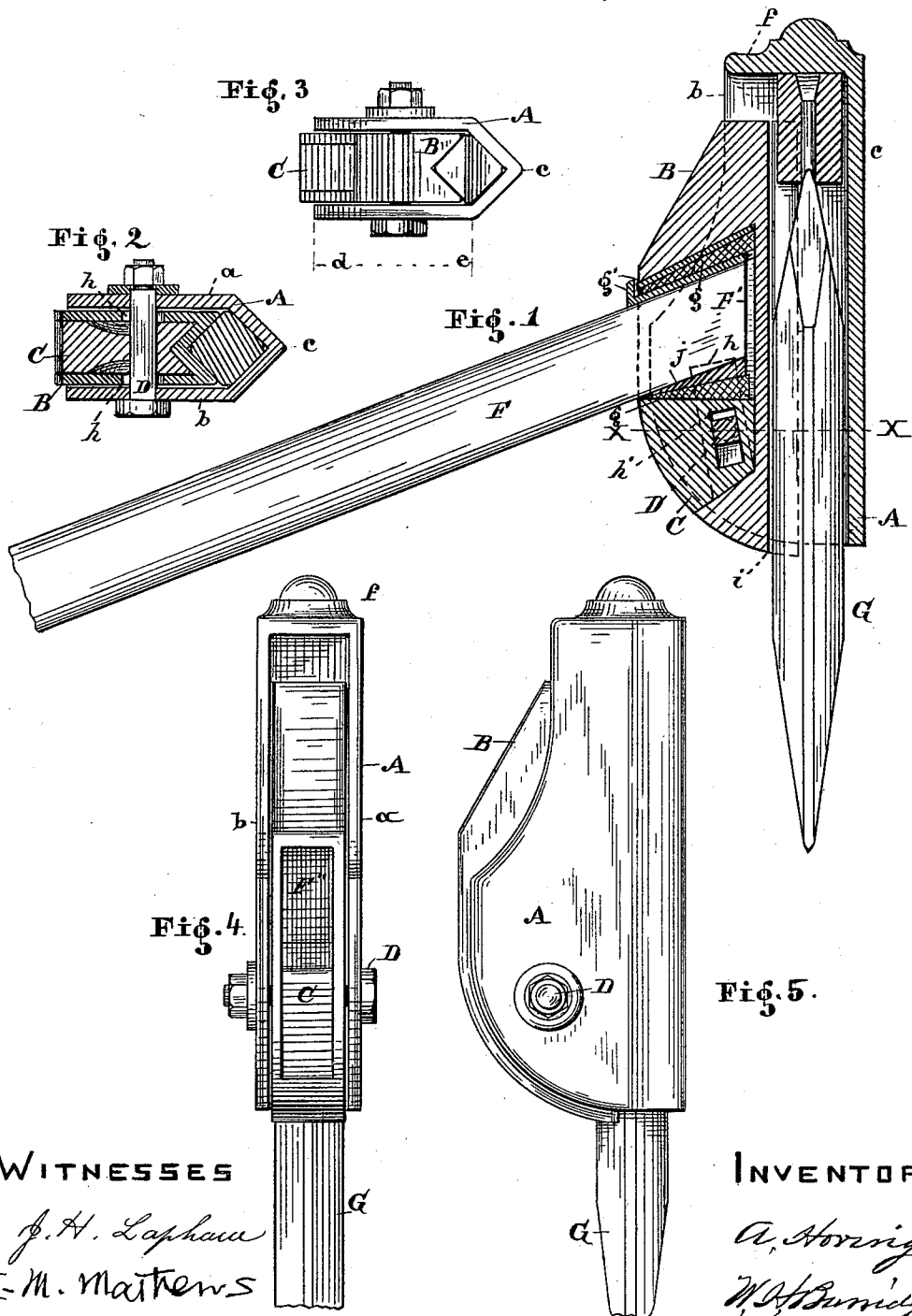


(No Model.)

A. HORNIG.
MILLSTONE PICK.

No. 366,959.

Patented July 19, 1887.



WITNESSES

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ALEXANDER HORNIG, OF SANDUSKY, OHIO.

MILLSTONE-PICK.

SPECIFICATION forming part of Letters Patent No. 366,959, dated July 19, 1887.

Application filed February 18, 1887. Serial No. 228,017. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER HORNIG, of Sandusky, in the county of Erie and State of Ohio, have invented certain new and useful Improvements in Tool-Holders for Picks, &c.; and I do hereby declare that the following is a full, clear, and complete description thereof.

My invention consists of certain improved means for holding tools and the handle for operating the same, and is especially adapted for that class of tools used by stone-cutters, masons, burr-dressers, &c., as such tools often need to be adjusted, sharpened, replaced, or exchanged for others.

That the nature of this invention may be fully seen and understood, reference will be had to the annexed specification and accompanying drawings, in which—

Figure 1 is a vertical section of the holder with a tool inserted and a handle applied thereto. Fig. 2 is a horizontal section of the holder on line *x x*. Fig. 3 is an end view of the same. Fig. 4 is an inner face view of Fig. 3, and Fig. 5 a side view of Fig. 4.

Like letters of reference refer to like parts in the several views.

The tool-holder substantially consists of the outer casing, A, the clamp or jaw B, the wedge C, and the bolt or pin D, Figs. 1 and 2, by means of which the first-named three parts are held together and arranged to co-operate with each other, as herein shown and described.

The casing A consists of the sides *a* and *b*, which sides unite under a right angle at *c*, but parallel a certain space apart from *d* to *e*, as seen in Fig. 3, and closed up at the top by the cap *f*. Inserted transversely through the casing A is the square bolt or pin D, Figs. 2 and 4, which is provided with a head and nut to hold it in place. The clamp C is loosely connected with the casing A by means of said bolt D and the slots *h h*, the inner face thereof being so constructed as to leave a square opening between the two parts, into which the tool G, Figs. 1, 4, and 5, is inserted. The size or width of this opening is controlled by the wedge C, which wedge is fitted in the socket of clamp B and provided with a rectangular slot, *h'*, by means of which the wedge is connected with and allowed to slide on the square bolt D. This slot *h'* runs in an outward an-

gular direction with the face-line *i* of the clamp B, causing it to draw the clamp deeper and deeper into the casing A the more the bolt D is driven up or out in said slot.

The handle F is inserted in the clamp B above the wedge C. Between the handle and the upper termination of the cavity in said clamp liners of wood or its equivalent are used to fill up the remaining space which must necessarily be left in order to insert the handle in place, as the tapering plate *j*, attached to the handle, causes the latter to be widest at the end F'. This plate *j* is preferably made of iron or the equivalent thereof, and formed to be readily adapted to the condition of the case with reference to the position of the handle.

The angular position of the handle F with reference to the tool may be changed, as required, by the workman by moving the wedges *g* and liners *g'*, so as to have more on one side of the handle in the socket F' than on the other. This placing of more wedges and liners on one more than on the other side in the said socket causes the handle to be tipped or moved from one angle or position to another as the workman using the tool may require, according to the nature and position of the material to be worked.

To the above-described holder both the tool and the handle are secured by one simple action of the parts thereof. After having inserted them in their respective places in connection with the holder a single stroke or blow of the tool against a stone or the like will drive the casing A backward, or from the clamp B, thereby causing the bolt D to move up in the inclined slot *h'*, which results in the contraction of the space wherein the tool is set and firmly held, while at the same time the contact of the wedge with the handle is so enforced as to hold the latter also firm and ready for use.

In like manner the tool is released from the grip of the holder by striking the cap *f* against some suitable resistance, which will loosen up the frictional contact of the different parts holding the tool G. In this way it can be withdrawn for reversing or replacing by another tool, while at the same time the handle remains in the same position firmly.

If a tool is dressed on both ends, the inner

end may be set in a block of wood or its equivalent for protection against breaking on the iron part of the holder.

5 Various kinds of tools for divers purposes may be used in connection with the said invention.

10 In order to remove the handle of the tool, the said tool is first taken out and the case, at *c*, is tapped against some resisting substance, causing the wedge to be raised up sufficiently to loosen it from contact with the handle, so that the handle may be removed or the angle of the handle altered by changing the wedge and liners, as before stated.

15 To obtain the proper length of a tool on the outside of the case which has been shortened by use or otherwise, a block of metal or wood is inserted at the inner end of the said tool in the space. This interposed piece between the 20 end of the tool and the closed end *f* should be in length according to the required extension of the short tool from the holder. By this means short lengths of tools may be utilized which cannot be used by the ordinary means.

25 What I claim as my invention, and desire to secure by Letters Patent, is—

1. A tool and handle holder combined, consisting of a casing or housing having a bolt extending transversely through and bearing in the sides thereof, a clamp or jaw sliding in 30 said casing and having a socket for the reception of the handle, and a wedge provided with a slot, by means of which the bolt will cause the wedge to tighten the grip of the clamp and the casing on the tool and the wedge on the 35 handle, substantially as set forth, and for the purpose specified.

2. In a tool and handle holder, the combination of the casing *A*, clamp or jaw *B*, socket *F'* in the back side of said clamp to receive 40 the handle *F*, and the wedge *C*, for holding the same in place by means of the bolt *D* in the slot *h'*, substantially as and for the purpose set forth.

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

ALEXANDER HORNIG.

Witnesses.

W. H. BURRIDGE,
NETTIE HORNIG.