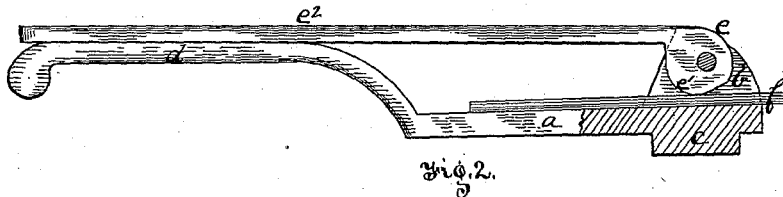
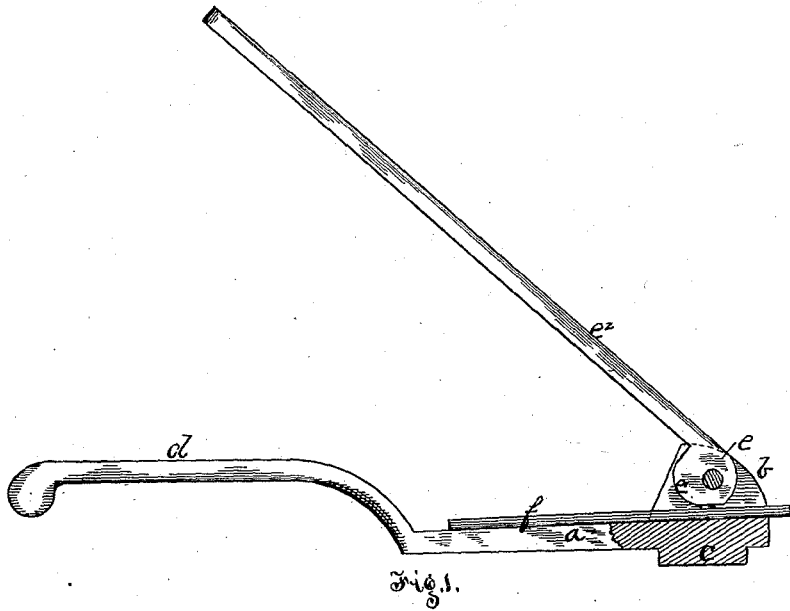


(No Model.)

N. H. SNIDER.
TOOL HOLDER.

No. 257,400.

Patented May 2, 1882.



Witnesses.
Jno. K. Smith.
L. C. Titler.

Inventor
Nicholas H. Snider
by his attys
Bakewell & Kerr

UNITED STATES PATENT OFFICE.

NICHOLAS H. SNIDER, OF PITTSBURG, PENNSYLVANIA.

TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 257,400, dated May 2, 1882.

Application filed January 9, 1882. (No model.)

To all whom it may concern:

Be it known that I, NICHOLAS H. SNIDER, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Tools for Dressing Grindstones; and I do hereby declare the following to be a full, clear, and exact description thereof.

The grinding-faces of grindstones have heretofore been dressed or finished in the following manner: The stone, having been previously cut to the general shape required, is mounted upon a revolving shaft in a suitable frame. The tool used to dress the face is a flat rectangular strip of steel of sufficient length to be held, and from five-eighths of an inch to two inches wide. This tool or bit has been secured in a box or holder by means of a set-screw, with one end projecting from the box about one-quarter of an inch, and the holder rested upon the cross-timber of the grindstone frame or housing, and presented to the swiftly-revolving face of the grindstone in the same manner as the tool of the turner is presented to the work on his lathe. The hard granular surface of the stone wears the steel bit of the tool off very rapidly, and then it has to be advanced in its holder. This necessitates the cessation of the work, the unscrewing of the set-screw, and the advancing of the bit. As this operation is a frequent and comparatively a slow one, the loss of time and power is considerable.

My invention consists in an improved holder which enables me to make the adjustment with ease and quickness and obviates the use of a clamping-screw.

To enable others skilled in the art to make and use my invention, I will now describe it by reference to the accompanying drawings, in which—

Figure 1 is a side view, partly in section, of my improved holder, and illustrates the manner of inserting and adjusting the bit. Fig. 2 is a like view, showing the holder closed on the bit; and Fig. 3 is a front end view.

Like letters of reference indicate like parts in each.

The holder is composed of a flat bar or body, a , having two perforated lugs, b , one on each side, a rest, c , on the under side, and a handle, d , at the back end. Pivoted to and between the lugs is an eccentric or jaw, e , hav-

ing a handle or lever, e^2 , which, when holding the bit f , lies close to and may be grasped with the handle d . The bit f is a flat rectangular piece of steel, and when in position lies or is sustained upon the upper face of the part a , and extends between the lugs b and beyond the end of the holder a distance of, say, one-quarter of an inch. To insert the bit f the handle e^2 is thrown up, as in Fig. 1, until the eccentricity e' of the part e is turned out of the path of the bit. Then the bit is inserted and the handle e^2 is brought down onto the handle d . This causes the eccentric e' to bite on and clamp the bit f firmly in the holder.

When it is desired to adjust the bit the handle e^2 is thrown up and the bit drawn outward. In use the projection c is placed on the cross-bar of the grindstone-frame in front of the stone, and the holder is grasped in the hand and presented to the face of the stone which is to be dressed in the usual way.

My improved holder is efficient, simple, and cheap, and its use effects a saving of time and power.

I am aware that an eccentric has heretofore been employed to clamp a tool to its holder, and do not herein claim the same; but

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

1. A bit handle or holder for grindstone-dressers, said handle consisting of a bed or rest for the bit, in combination with an eccentric pivoted on the bed and adapted to clamp the bit to the same, the bed or rest and the eccentric being provided with handles adapted to be brought together or parallel when the bit is held by the eccentric, substantially as specified.

2. In a bit-holder for grindstone-dressers, the combination of the bed or rest a , having the handle d , and provided with lugs at its forward end, and the eccentric e , pivoted between the lugs on the forward end of the bed and provided with handle e^2 , substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand this 4th day of January, A. D. 1882.

NICHOLAS H. SNIDER.

Witnesses:

T. B. KERR,
JAMES H. PORTE.