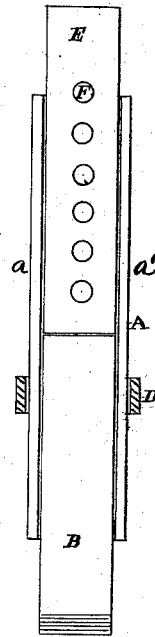
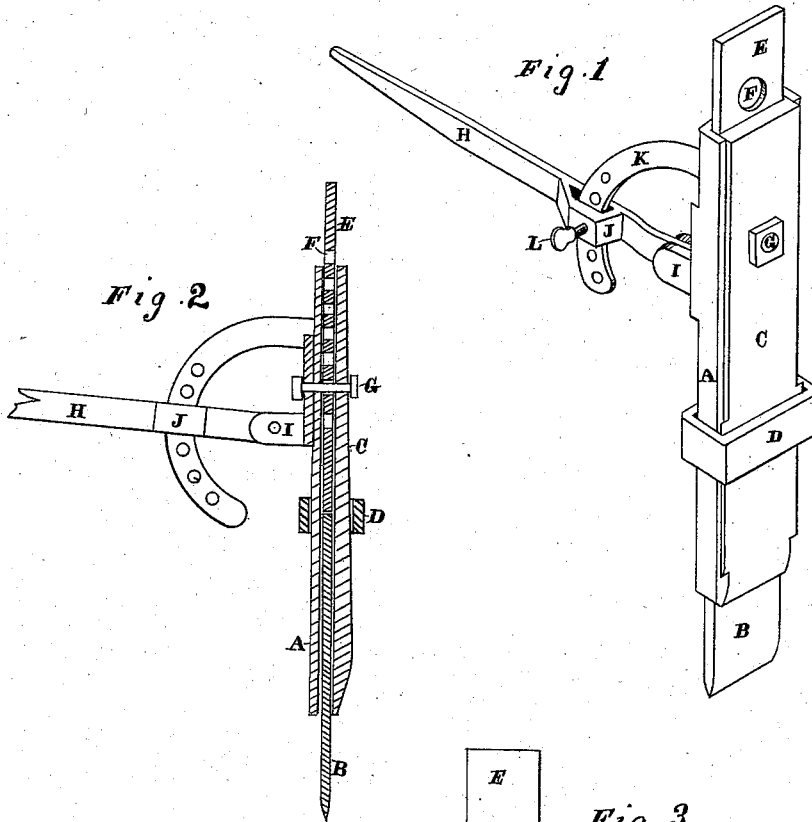


W. B. MORRIS.
MILL-PICK.

No. 193,021.

Patented July 10, 1877.



Witnesses
Geo. H. Strong
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UNITED STATES PATENT OFFICE.

WILLIAM B. MORRIS, OF COLLINSVILLE, CALIFORNIA.

IMPROVEMENT IN MILL-PICKS.

Specification forming part of Letters Patent No. 193,021, dated July 10, 1877; application filed May 8, 1877.

To all whom it may concern:

Be it known that I, WILLIAM B. MORRIS, of Collinsville, county of Solano, and State of California, have invented an Improved Mill-Pick; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings.

My invention relates to an improvement in mill-picks; and it consists in a novel method of securing the chisel in the holder, and in adjusting the same so as to compensate for its gradual shortening by use.

My invention further consists in a means for adjusting the handle so as to stand at any desired angle with the chisel.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a perspective view of my device. Fig. 2 is a sectional elevation. Fig. 3 is a front view with the plate removed, to show the chisel and compensating-plate.

A is the holder of my pick, and B is the chisel. The sides $a a'$ of the holder are turned so as to inclose the chisel, which is fitted to lie between the turned-up sides of the holder. A plate, C, fits upon the front of the holder, and thus finishes the inclosure for the chisel. This plate sets in between the turned-up sides and presses against the chisel, so as to hold it steady.

A band, D, is fitted to surround the holder and face-plate C, and as the latter is made wedge-shaped, so as to be thicker at the bottom than at the top, it will be manifest that when the band is forced down toward the point it will press upon the plate C and force it against the chisel, so as to hold it strongly and firmly in place. In order to adjust the chisel, and also to compensate for its wear and feed it gradually forward, I employ an independent plate, E, which is perforated with holes F. A bolt, G, passes through the upper part of the holder and the plate C, as shown, and a nut upon the outside serves to secure the whole firmly together. It will be readily seen that

as the chisel wears down, the plate E can be moved down one or more holes, and thus feed the chisel forward. The plate will always give a firm backing or support to the chisel, and the latter can be utilized to its full length, and is not weakened by any perforations. The band will always be seated more closely by the concussion of the blow, and may be easily released at any time by striking the reverse end of the holder.

The handle H is hinged or pivoted between lugs I upon the back of the holder, at any desired point, and is perforated or slotted at J, to allow the arc K to pass through. This arc is formed with the hinge or pivot as a center, and is secured to the holder near the top. A set-screw, L, passes through the side of the slot at J, and by means of this the angle of the handle to the chisel can be adjusted to suit the operator.

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

1. The chisel-holder consisting of the part A, with its inclosing sides $a a'$, and the plate C, thicker at the bottom than at the top, in combination with the clamp-band D, the whole constructed to operate substantially as herein described.

2. The independent adjusting and compensating plate E, perforated as shown, with its holding-bolt G, in combination with the holder A C and chisel B, the several parts constructed and arranged in the manner substantially as and for the purpose herein described.

3. The slotted handle H, pivoted or hinged at I, together with the arc K and set-screw L, in combination with the chisel-holder of a pick, substantially as and for the purpose herein described.

In witness whereof I have hereunto set my hand and seal.

WILLIAM B. MORRIS. [L. S.]

Witnesses:

O. T. STACY,
FRANK A. BROOKS.