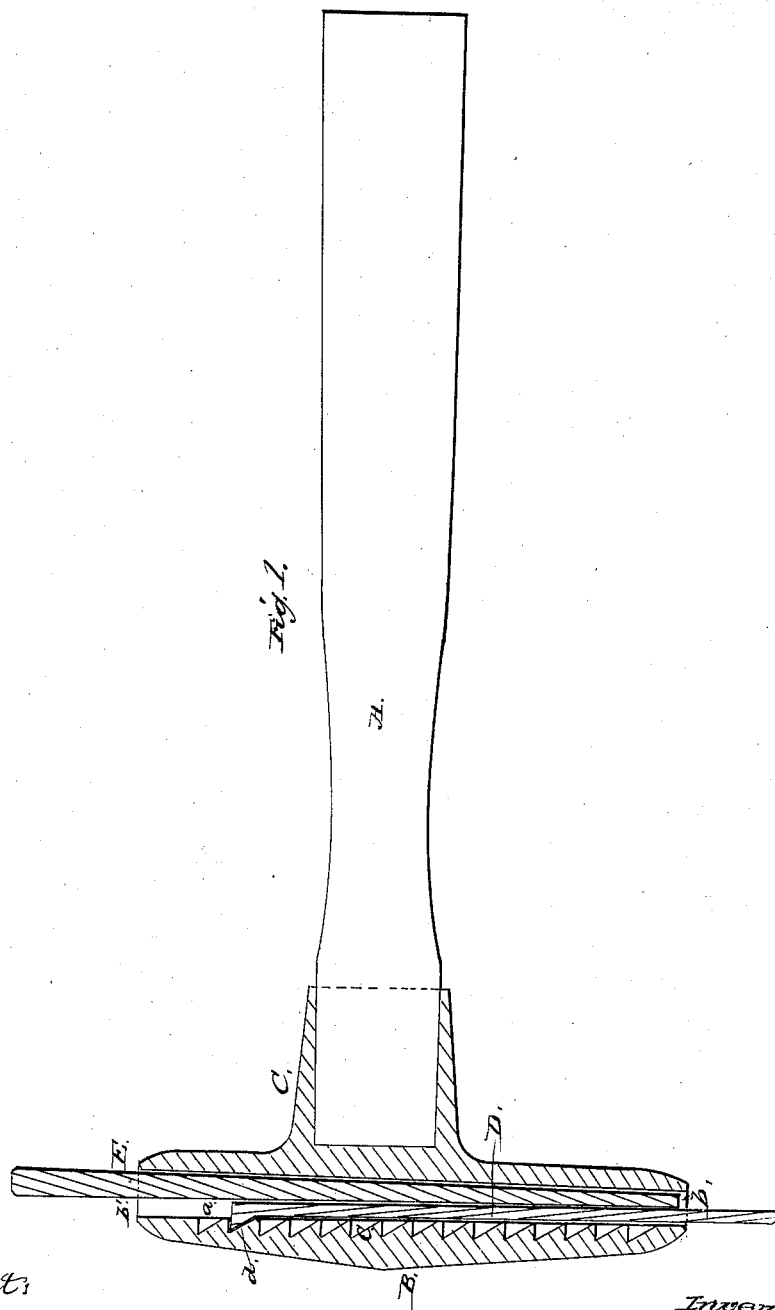
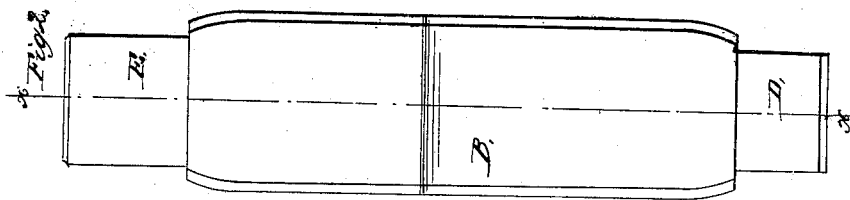


D. C. STONE.
MILLSTONE PICK.

No. 46,035.

Patented Jan. 24, 1865.



Attest:
C. L. Tophy
Chas. T. Smith

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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UNITED STATES PATENT OFFICE.

DEMMON C. STONE, OF KINGSTON, NEW YORK.

IMPROVED MILLSTONE-PICK.

Specification forming part of Letters Patent No. 46,035, dated January 24, 1865.

To all whom it may concern:

Be it known that I, DEMMON C. STONE, of Kingston, in the county of Ulster and State of New York, have invented a new and Improved Millstone-Pick; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a section of my invention, taken in the line *x x*, Fig. 2. Fig. 2 is an end view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved millstone-pick of that class which are constructed of thin steel plates and are fitted or secured in metal heads secured to a handle.

The object of the invention is to obtain a simple and efficient means for securing the pick-blade in the metal head, and one which will admit of the former being readily adjusted to compensate for grinding or wear, and which will also admit of the pick-blade being readily removed from the head when necessary.

A represents a wooden handle, and B a head, which may be of malleable cast-iron and provided with a socket, C, to receive the wooden handle. The head B is formed or cast with a rectangular opening, *a*, extending entirely through it longitudinally, as shown in Fig. 1. This opening *a* is slightly taper one way, its two opposite broad sides being rather nearer together at one end, *b*, than at the other end, *b'*, and the broad side of the opening *a* opposite to the side where the socket C is formed with a rack *e*, as shown in Fig. 1, said rack extending nearly the whole length of the opening.

D represents the pick-blade, constructed of

a plate of steel of requisite thickness and having a lip, *d*, at its inner end, extending its whole width. This lip *d* fits into the rack *e* and is retained therein by a metal key or wedge, E, which is driven in the head B between the pick-blade and the smooth broad side of the opening *a*, as shown in Fig. 1. By this arrangement it will be seen that the pick-blade may be firmly secured in the metal head and the blade readily adjusted so that its cutting-edge may project the proper distance out from the head, and, if desired, a head, B, may be cast with an opening, *a*, of sufficient capacity to receive a plurality of pick-blades, the latter being placed side by side and provided with lips *d* of different widths, so that they all may be fitted in the rack *e*, the lip of one blade projecting over the one immediately below it, the blades being made of different lengths to admit of this and having the cutting-edges of the several blades all in one and the same plane. This would form a very convenient device for "cracking" the stones, as it is technically termed—that is, finely furrowing or wedging the stones between the main or deep furrows. The blade D may be detached from the head at any time by inserting a plate in the small end of the opening *a* and driving out the key E.

I claim as new and desire to secure by Letters Patent—

The head B, provided with an opening, *a*, extending entirely through it longitudinally, and having a rack, *e*, at one side, in combination with the key E and the lip *d* on the inner end of the pick-blade, substantially as and for the purpose set forth.

DEMMON C. STONE.

Witnesses:

SIMON S. WESTBROOK,
JAS. R. FOLAND.