

J. M. De Witt.

Fastening Tool Handles.

N^o 89,564.

Patented May 4, 1869.

Fig. 1.

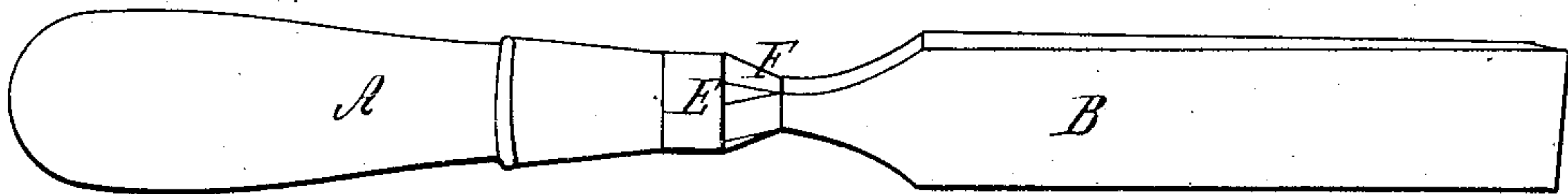


Fig. 2.

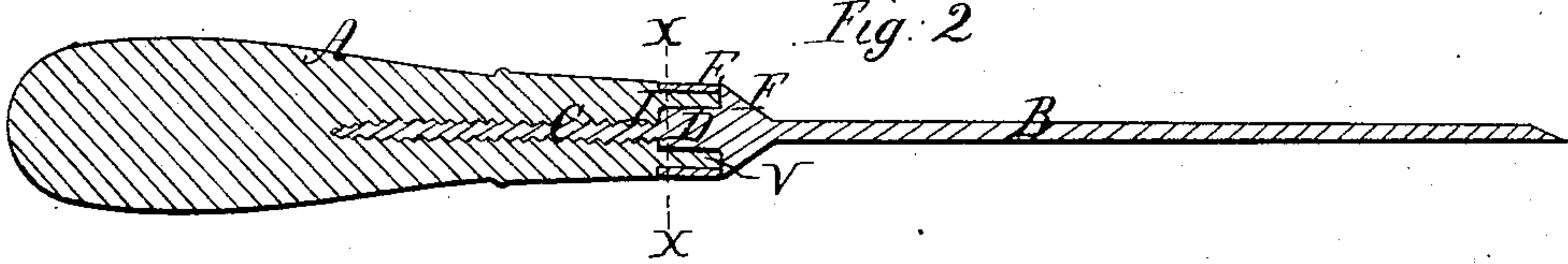


Fig. 3.



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JAMES M. DE WITT, OF CHICAGO, ILLINOIS.

Letters Patent No. 89,564, dated May 4, 1869.

IMPROVEMENT IN FASTENING HANDLES TO TOOLS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom this may concern:

Be it known that I, JAMES M. DE WITT, of Chicago, in the county of Cook, and State of Illinois, have invented an Improvement in Fastening Handles to Tools and Implements; 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, and letters marked thereon, making a part of this description, in which—

Figure 1 is a perspective representation of a chisel whose handle is fastened to the blade according to my improvement.

Figure 2, a longitudinal section of the same.

Figure 3, a transverse section, taken on the line *xx*, fig. 2.

The nature of the present invention consists in forming the shank of a chisel or other tool, which is to be driven by a hammer or mallet, with a cylindrical projection which is smaller than the shoulder of the blade, and occupies a place between it and the screw which holds the blade in the handle, said projection having a square offset at its intersection with the screw, which, together with the shoulder at the termination of the blade, forms a compound bearing to sustain the driving-force.

B represents the blade of an ordinary chisel, which has its shank so formed, by means of an enlarged part, D, as to provide two shoulders, I F, the shoulder F bearing against the end of the handle A in the usual

manner, and the shoulder I bearing against the bottom of a socket, which is made in the end of the handle, and fits the enlarged part D closely, thus providing an inner bearing for the shank, so far from the end of the handle as to prevent it from splitting, as it frequently does when the shank is secured in the ordinary manner.

The end of the shank terminates in a screw, C, which is turned into the handle A, and draws the shoulders I F so closely against their respective bearings as to prevent the blade B from getting loose.

Care should be taken not to make the enlarged part D any longer than will correspond with the length of the ferrule E, otherwise the socket will necessarily have to be cut so deep as to weaken the handle.

As to the utility of this invention, it is assumed that a tool whose handle is fastened in this manner is much more substantial than a tool whose blade is fastened to the handle by a tapering shank, driven in in the ordinary manner.

Having thus described my invention,

What I claim to be new, and desire to secure by Letters Patent of the United States, is—

The chisel B, constructed as shown and described, as an article of manufacture.

JAS. M. DE WITT.

Witnesses:

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