W. Barry.

Pipe Tool.

No. 91,201. Patented Jun. 15, 1869.

Fig. 3.

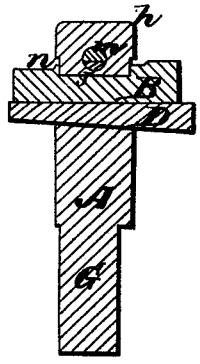

Fig. 1.

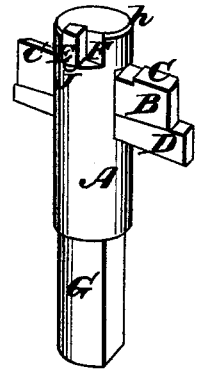

Fig. 2.

Fig. 4.

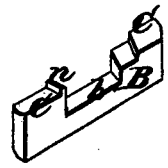

Fig. 5.

Witnesses.
C. E. Gibson.
G. L. Chafin

Inventor.
William Barry

United States Patent Office.

WILLIAM BARRY, OF CHICAGO, ILLINOIS.

Letters Patent No. 91,201, *dated June* 15, 1869.

IMPROVEMENT IN COMPOUND TOOLS FOR REAMING AND SQUARING PIPES.

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

To all whom it may concern:

Be it known that I, WILLIAM BARRY, of Chicago, in the county of Cook, and State of Illinois, have invented an Improved Tool for Chucking, Reaming, and Squaring Pipes; and I do hereby declare that the following is a full and exact description thereof, 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 the improved tool.

Figure 2, an elevation of the same.

Figure 3, a vertical section.

Figure 4, a perspective representation of the bit for squaring the end of a pipe, removed from the stock of the tool.

Figure 5, a view of the bit for reaming out the end of a pipe, and the key which holds it in the stock.

The nature of the present invention consists in the novel construction and combination of the reaming and squaring-bit, together with the stock in which they are fitted.

A represents a cylindrical stock, which has a shank, G, arranged to fit in a lathe, and a mortise through it, to receive a bit, B, with which the end of a pipe is squared.

It also has a mortise made through it near the end, to receive the bit E, which reams out the pipe.

The bit B is made of steel, and it is so notched out at *b* as to lock over the end of the mortise, when it is secured by the key D, as shown at figs. 1 and 3, and it is provided with cutting-edges C, for squaring the end of a pipe, and also with a small reamer, *n*, fitting closely against the stock A, to cut away the inner angle of the pipe, so that when a screw-thread is cut on the inner periphery of the latter, the metal will not be so raised as to prevent the squared ends of two pipes from fitting closely together.

The bit E is provided with a shank, *m*, which is put through the stock A, and fastened with a key, J.

The stock A being cut away at F, allows the bit E to cut the required depth without being choked.

Operation.

The end, G, of the stock A, is to be secured to the lathe in the usual manner, and the pipe to be squared and reamed placed in a mandrel, or otherwise held in a convenient position.

The tapered end, *h*, of the stock is then brought forward into the pipe, after which said stock is rotated in the usual manner, while the ordinary feeding-devices of the lathe carry the bits forward.

Having thus described my invention,

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

The bit B, provided with the reamer *n* and cutting-edges C C, in combination with the stock A, bit E, and keys D J, the whole being constructed to operate as and for the purpose set forth.

WILLIAM BARRY.

Witnesses:

E. E. GIBSON,

G. L. CHAPIN.