

J. A. Scroggs,
Wood Chisel.

N^o 18,161.

Patented Sep. 8, 1857.

Fig. 3

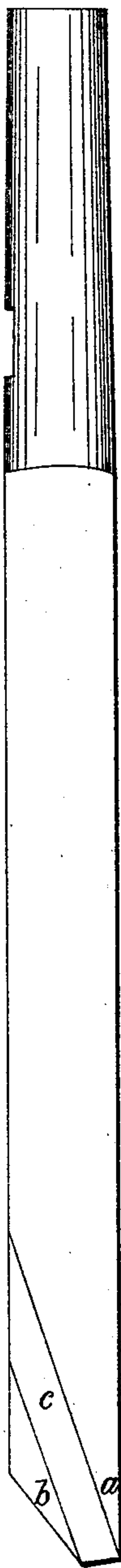


Fig. 2

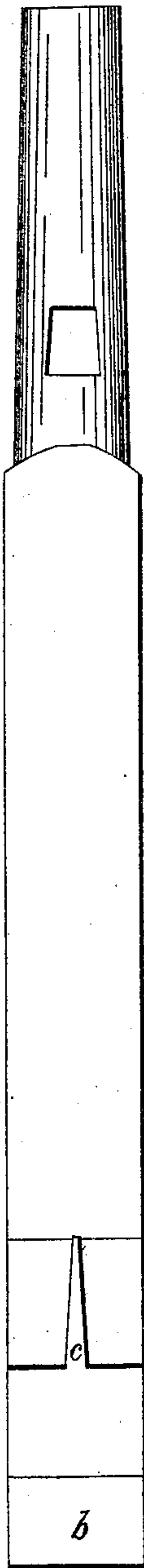


Fig. 1



UNITED STATES PATENT OFFICE.

JOHN A. SCROGGS, OF BURLINGTON, VERMONT.

MORTISING-CHISEL.

Specification of Letters Patent No. 18,161, dated September 8, 1857.

To all whom it may concern:

Be it known that I, JOHN A. SCROGGS, of Burlington, in the county of Chittenden and State of Vermont, have invented a new and Improved Mortising-Chisel; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, Figure 1 being a view of the face side of my improved chisel; Fig. 2, a view of the back side of the same, and Fig. 3 an edge view of said chisel.

A serious objection to all the mortising chisels now in use, is, that they leave the chips in the mortise, and when mortises are formed in hard wood, as for instance in wagon hubs, much hand labor is required to remove the chips from the mortises, and especially so when said mortises have been formed in a power mortising machine.

My invention consists in constructing a mortising chisel in such a manner that the chip formed by the forward movement of said chisel will be thrown out of the mortise by the reverse movement of the same.

My improved chisel has two edges *a*, *b*; the latter being placed a short distance in the rear of the former, and is connected thereto by means of the thin central tongue *c*, whose outer extremity is brought to a sharp edge. Consequently, oblique clearing grooves are formed between the said edges *a*, and *b*, on each side of the tongue *c*, for the

escape of the chips as fast as they are formed by the front cutting edge *a*. The chips being centrally divided by the sharp edge of the tongue *c*, will of course freely enter and pass through the clearing grooves on each side of said tongue, provided the said spaces are of sufficient capacity to receive them; and care should be taken always to give ample space to the said clearing grooves in constructing these chisels. The after edge *b*, of my improved mortising chisel acts upon the bottom of a mortise and thereby prevents the chips from adhering thereto.

I shall generally allow the after edge *b*, to be a little longer than the cutting edge of my improved chisel, as I find that the chips are more freely and cleanly discharged from mortises when the chisel is so ground.

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

My improved self-clearing mortising chisel, whose peculiarity consists mainly of its oblique grooves, which operate substantially as herein set forth.

The above specification of my new and improved mortising chisel, signed and witnessed this 7th day of August 1857.

JOHN A. SCROGGS.

Witnesses:

Z. C. ROBBINS,
GEORGE W. ADAMS.