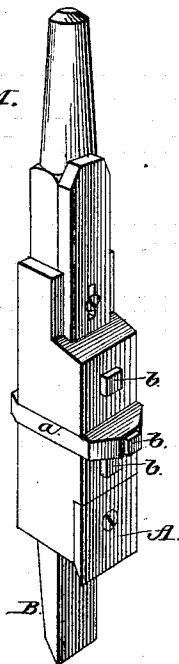


O. J. PENNELL.  
Chisels.

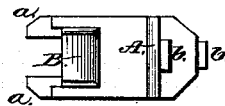
No. 201,284.

Patented March 12, 1878.

*Fig. 1.*



*Fig. 2.*



*Attest:*

*James Hoot*  
*H. P. Colver*

*Inventor:*

*Oscar J. Pennell*

# UNITED STATES PATENT OFFICE.

OSCAR J. PENNELL, OF WILLIAMSPORT, PENNSYLVANIA.

## IMPROVEMENT IN CHISELS.

Specification forming part of Letters Patent No. **201,284**, dated March 12, 1878; application filed June 29, 1877.

### *To all whom it may concern:*

Be it known that I, OSCAR J. PENNELL, of Williamsport, Lycoming county, Pennsylvania, have invented certain Improvements in Countersinking Mortising-Chisels, of which the following is a specification:

The object of my invention is to form on and around the surface of a mortise a countersink or recess, to receive the shoulder of a tenon-bar or bed-plate for pulleys for window-frames, by the combination, in a mortising-machine, of a plane chisel blade or bit, of any required width, for the countersink A and body or attachments *a a*, for carrying the mortising-chisel B, as shown in the perspective view, Figure 1.

The tool is illustrated more in detail in plan view, Fig. 2. The mortising-chisel is constructed in the usual form, except being in wedge shape, and the upper extremity having a shoulder, from which it is in pin form, for the purpose of entering a socket, so that the tool is adjustable to the machine or power, and is marked B. The countersink-chisel A is a plain bit, of the required width for the countersink to the mortise, and is fastened by screws to the back of the slotted body, which slot or groove is adapted to the width of the mortising-chisel B, which slotted body

has grooves on each side, at right angles to the vertical groove carrying the mortising-chisel, in which a shoulder clevis or clamp is carried, (marked *a a*.) The clevis or clamp, where in place on the body, carrying the countersink-chisel, forms an open space, suitable to go onto the mortising-chisel, which is wedged-shaped on its face, and tightens as its shoulders run up the incline plane face of the mortising-chisel.

*b b b* are set-screws for the purpose of adjusting the countersinking-chisel to the mortising-chisel B, and determine the required countersink.

I claim—

1. The combination of the body, to which is attached the countersink-chisel A, with the clevis or clamp *a a*, substantially as and for the purpose specified.

2. The combination of the countersink-chisel bit A, with its attachments, and clevis *a a*, with the wedge-shaped mortising-chisel B and the adjusting set-screws *b b b*, substantially as and for the purpose specified.

OSCAR J. PENNELL.

Witnesses:

JAS. M. WOOD,  
C. P. COLVER.