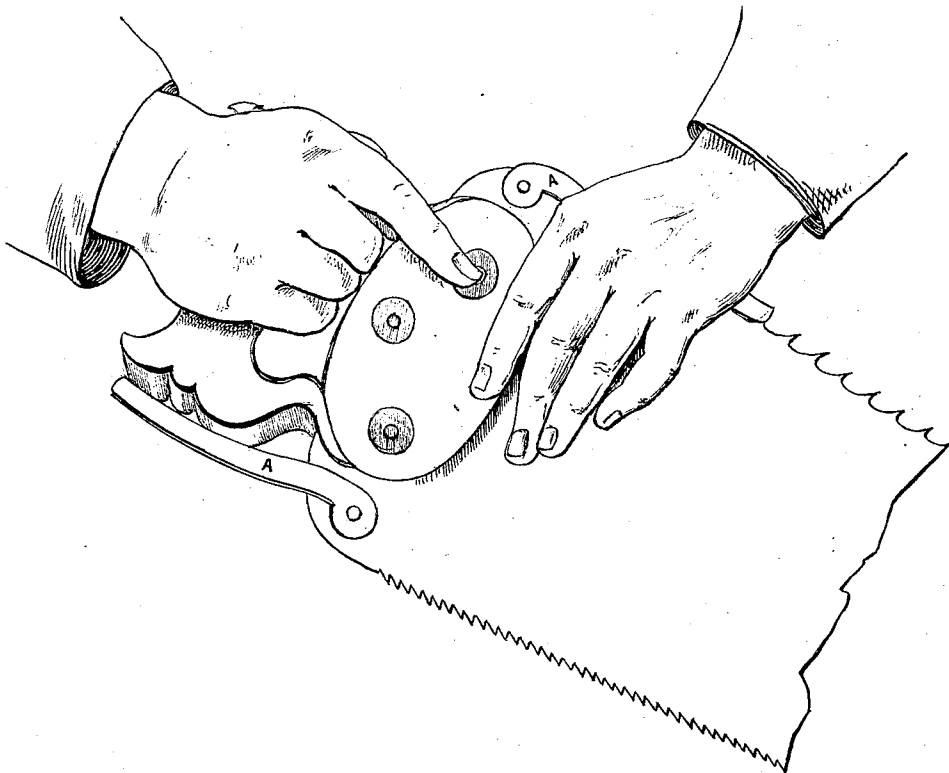


*T. Welham,*

*Hand Saw.*

*No. 110705.*

*Patented Jan. 3. 1871.*



WITNESSES:

*William Graf*  
*J. C. Godbee*

INVENTOR,

*Thos. Welham*

# UNITED STATES PATENT OFFICE.

THOMAS WELHAM, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN SAWS.

Specification forming part of Letters Patent No. **110,705**, dated January 3, 1871; antedated  
December 17, 1870.

*To all whom it may concern:*

Be it known that I, THOMAS WELHAM, of the city and county of Philadelphia, and State of Pennsylvania, have invented Improvements in Hand-Saws; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawing, which represents the saw as it is generally held by the hands while in use.

The nature of my invention consists of constructing two kinds of saws on one blade and one handle, with a muzzle linged to the saw or handle, so that it can be readily removed from the saw-teeth and turned up to the handle out of the way, and allow the saw to pass through the cut up to the handle, while the muzzle on the upper edge of the saw is shut down upon the teeth, and forms a rest for the hand and protects it from the teeth, while the saw is held steady and pressed hard to the wood, which is usually done by the left hand, while the right hand is holding and forcing the saw by the handle.

To enable others to understand my invention, I will refer to the drawing, in which—

Letters *a a* mark the muzzle or rest, constructed with a groove, so as to shut over the saw-teeth, and is fastened to the saw with a rivet or screw, which forms the hinge, or it can be made without the rivet, so as to slip down from the handle over the teeth.

The object of this invention is to make, practically, a rip and a crosscut saw both in one, and by this means supply a want that has long been felt by carpenters and other mechanics.

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

A hand-saw provided with a muzzle, as herein shown and described, the blade of the saw having teeth upon one side for cross-cutting, and upon the other for slitting, the whole being arranged as and for the purpose herein specified.

The above specification of my said invention signed and witnessed at Philadelphia this 7th day of February, A. D. 1870.

THOS. WELHAM.

Witnesses:

J. M. COLGAN,  
J. E. GODBEE.