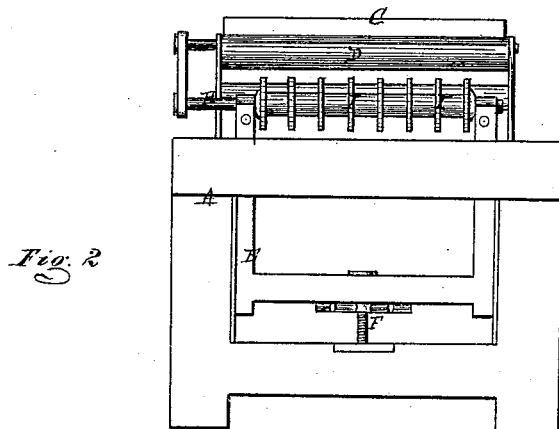
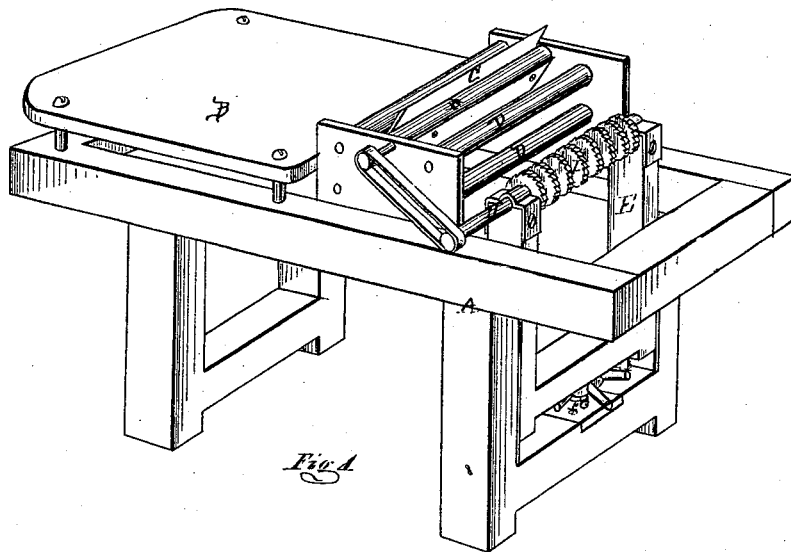


J. T. HALL.  
LATH MACHINE.

No. 109,005.

Patented Nov. 8, 1870.



ATTEST

*Samuel Sprague*  
*Frank Quail*

INVENTOR

*J. T. Hall*  
*per atty*  
*Thos. S. Sprague*

# United States Patent Office.

JAMES T. HALL, OF ALMA, MICHIGAN, ASSIGNOR TO HIMSELF AND ISAAC PIERCE, OF SAME PLACE.

Letters Patent No. 109,005, dated November 8, 1870.

## IMPROVEMENT IN LATH-MACHINES.

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

### *To whom it may concern:*

Be it known that I, JAMES T. HALL, of Alma, in the county of Gratiot and State of Michigan, have invented a new and useful Improvement in Machine for Manufacturing Lath and Dressed Lumber; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a perspective view of my apparatus.

Figure 2 is an end elevation of the same.

Like letters refer to like parts in each figure.

The nature of this invention relates to the construction of a machine for the purpose of dressing sheathing, to be employed for building purposes, to a uniform thickness, and, at the same time, convert one surface of said sheathing into lath.

The invention consists in combining with any planer or surfacing-machine a series of saws upon a common mandrel, driven by the same power which drives the surfacer, and simultaneously therewith.

This mandrel is journaled in a frame so constructed that the position of the saws may be adjusted to any required thickness of lumber, and the whole arranged as hereinafter set forth.

In the accompanying drawing—

A represents a frame, which supports the bed B and surfacing apparatus, which consists of the rotating cutters C, attached to a suitable head and the bearing-rollers D.

Arranged so as to have a vertical motion, when required, is the sash E, within the frame A, in rear of the surfacing apparatus.

This sash works upon slides within the frame, and is adjusted to any desired height by means of the screw F, or its equivalent for the purpose.

To the top of this sash is journaled the mandrel H, to which is attached a series of circular saws, I.

In frame houses it is customary to sheath up the inner sides of the walls with boards, upon which the lath is nailed to receive the plaster. The device above described is designed to first dress said sheathing-boards to a uniform thickness, and in its passage through the planer to present it to the series of saws, which cut a series of grooves or rabbets upon the under side of the board at any distances apart that may be desired, and of sufficient depth for the purpose of holding the plaster.

In a detached view I show a section of a piece of sheathing prepared ready for use by this apparatus.

By the employment of sheathing thus prepared the necessity of lathing is obviated, and great economy secured in the construction of frame houses.

Other bearing-rolls may be added to the machine, if found necessary, in the rear of the mandrel and saws, to hold the boards while the rabbets are being sawn.

Instead of using saws, as above described, cutters of a proper shape may be employed, which will answer the same purpose.

I expressly disclaim any surfacing or planing-machine; but

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

In combination with the planing-machine A B C D, the grooving device described and shown, consisting of the sash E, the mandrel H, the saws I, and adjusting-screw F, when constructed and arranged as described and shown, and as and for the purposes set forth.

Witnesses:

SAM. J. SPRAY,  
FRANK DUNLOP.

JAMES T. HALL.