E. H. HANCOCK.

LATH-MACHINE.

No. 180,872. Patented Aug. 8, 1876.

Fig. 1

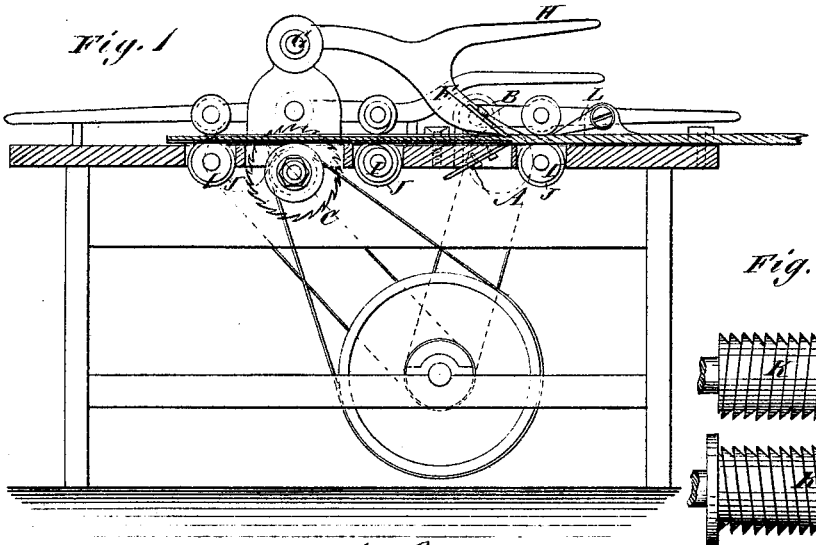


Fig. 4

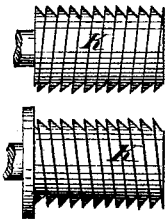


Fig. 2

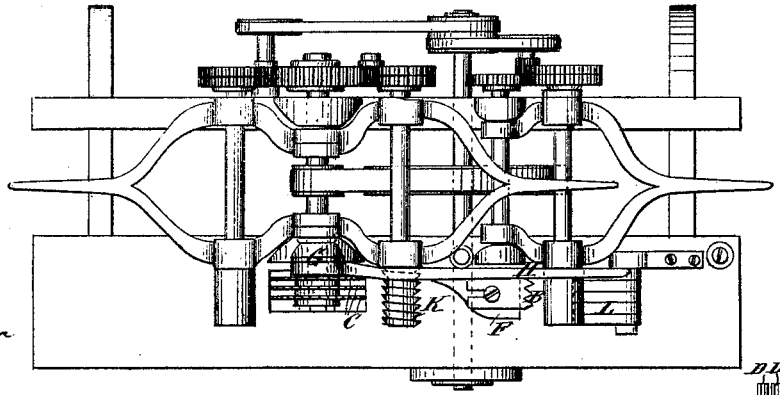


Fig. 6

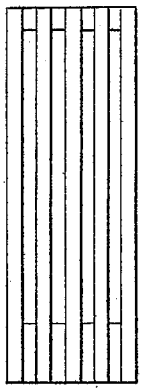


Fig. 5

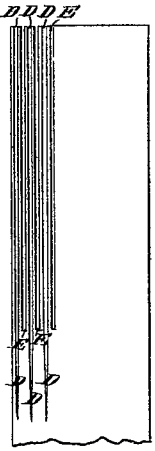
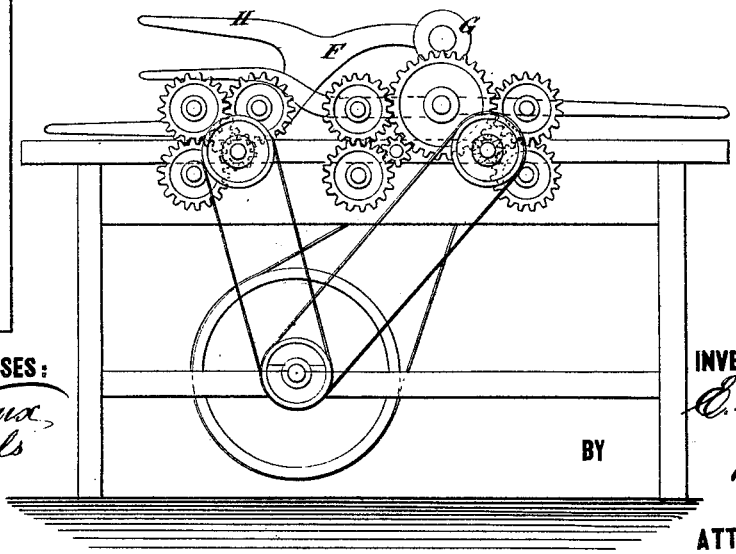


Fig. 3



WITNESSES:

C. Neveux,

J. Gotthals

INVENTOR:

E. H. Hancock

BY

ATTORNEYS.

UNITED STATES PATENT OFFICE.

EDMUND H. HANCOCK, OF AUGUSTA, GEORGIA.

IMPROVEMENT IN LATH-MACHINES.

Specification forming part of Letters Patent No. **180,872**, dated August 8, 1876; application filed December 27, 1875.

To all whom it may concern:

Be it known that I, EDMUND H. HANCOCK, of Augusta, in the county of Richmond and State of Georgia, have invented a new and Improved Lath-Machine, of which the following is a specification:

The invention consists in placing edge-serrated planes in advance of a saw, to cut out grooves; in attaching the upper grooving-plane to a pivoted shoe provided with a handle, and in combining collared rolls with spiral feed-rolls having a right-angled groove next to the collars, all as hereinafter described.

Figure 1 is a longitudinal sectional elevation of my improved machine. Fig. 2 is a plan view. Fig. 3 is a side elevation. Fig. 4 is a top view of the spiral feed-rollers. Fig. 5 is a top view of a piece of stuff being sawed into lath, showing the grooved edges as made by the aforesaid grooving attachment. Fig. 6 is a side elevation of a section of lathing made of the improved grooved-edged lath.

Similar letters of reference indicate corresponding parts.

The grooving attachment consists of the serrated-edged grooving-planes A and B, attached to the machine in advance of the saws C, so as to plane out the grooves D in line with the middle of the spaces between the saws, whereby the saws separate the stuff at E between the grooves, and thus make grooved-edged lath, which hold the plaster much stronger than the ordinary lath with plain edges. The lower grooving-plane is fixed in the saw-table, but the upper one is attached to a shoe, F, pivoted to a support at G, so as to gage the plane to stuff of different thicknesses by resting on the stuff as it passes along to the saw. It is provided with a handle, H, for lifting it off the stuff when required.

I represents the carrier-rollers, having a gage-collar, J, for conducting and guiding the stuff to the saws, instead of having it slide along the table and against the guide, by which it is moved up to the saws with less friction. K represents the spirally-grooved feed-rollers employed to draw the stuff close against the guide-collars J at the same time that it is moved along to the saw. The sides of the grooves of these rollers, next to the guide-collars, are cut at right angles to the axis of the collars, the taper being all on the other sides, whereby they draw toward the collars better than if beveled alike on both sides. L represents the guard-fingers, to prevent the saws from throwing sticks back against the attendant, which is a common occurrence in gang-saw machines, particularly when the saws are out of order. These fingers are pivoted to the frame over the way where the stuff passes, and rest on the stuff in such manner that the friction of a piece of lath or other object pushing back under them causes them to bind it fast, and thus stop it.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The edge grooved or serrated planes A B, arranged in advance of the saw C, to cut out grooves D, in the manner set forth.

2. An upper grooving-plane attached to a pivoted shoe, F, having the handle H, as and for the purpose specified.

3. The combination, with rollers I, having collar J, of spiral-grooved feed-rolls K, having the groove on the side next to the collars right-angled, as and for the purpose specified.

EDMUND H. HANCOCK.

Witnesses:

T. M. PHILPOT,

FRED. T. LOCKHART.