P. W. HART.

Machine for Sawing Lath.

No. 160,903. Patented March 16, 1875.

Fig. 1.

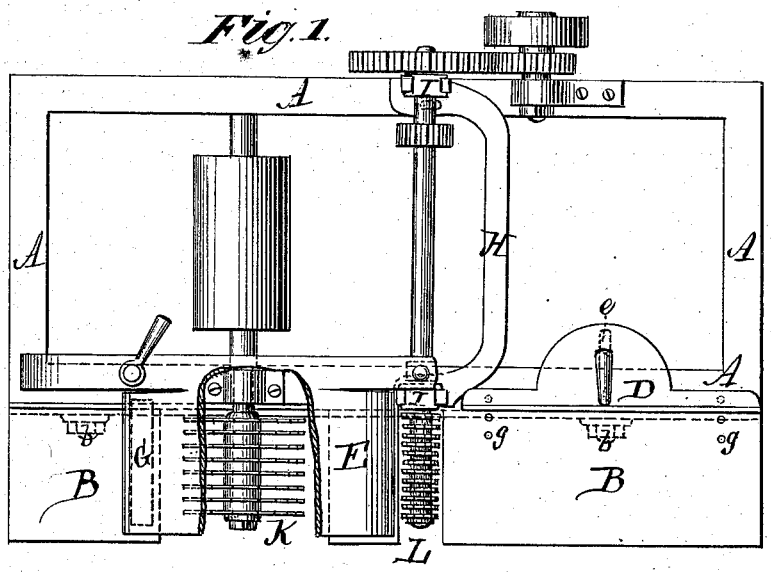


Fig. 2.

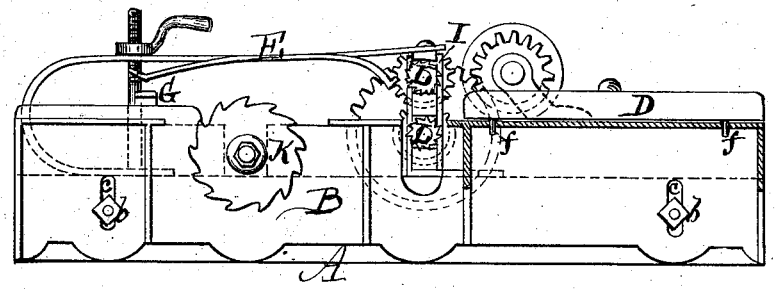


Fig. 3.

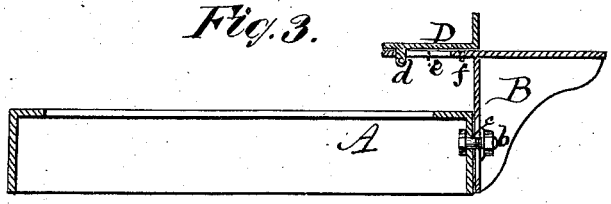


Fig. 5.

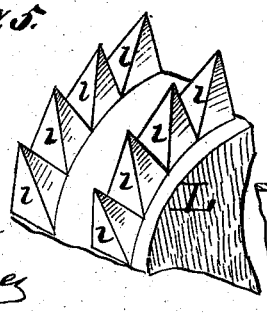
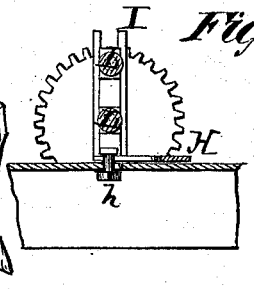


Fig. 4.



Witnesses.
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UNITED STATES PATENT OFFICE.

PHILO W. HART, OF CAMDEN, NEW YORK.

IMPROVEMENT IN MACHINES FOR SAWING LATHS.

Specification forming part of Letters Patent No. **160,903**, dated March 16, 1875; application filed July 6, 1874.

To all whom it may concern:

Be it known that I, PHILO W. HART, of Camden, in the county of Oneida and State of New York, have invented certain Improvements in Machines for Sawing Laths, of which the following is a specification:

This invention relates to certain improvements in machines for sawing laths; and consists, first, in a vertically-adjustable bed-plate or table, having a gage, consisting of a plate bent at right angles, and the under side of the horizontal portion having a lug passing through a slot in the bed-plate, and having near its angular portion pins which enter openings in the bed-plate, by which means the gage can be adjusted laterally on the vertically-adjustable bed-plate; second, in a yoke extending transversely across the frame of the machine, and having at each end a standard, in which the feed-rollers have their bearings, said yoke being adjustably attached to the frame, so that the feed-rollers can be caused to revolve in planes parallel to the planes of revolution of the saws, or obliquely thereto, as hereinafter described.

In the accompanying drawing, Figure 1 is a top view of my invention. Fig. 2 is a side view partly in section. Fig. 3 is a transverse section. Figs. 4 and 5 are detail views.

A represents the frame, which supports the working parts of the machine, to one side of which the table or bed plate B is attached by means of bolts *b* working in slots *c*, so that it may be raised or lowered when desired. On the outer or front portion of the bed-plate (or that portion upon which the bolt is placed before being fed to the saw) rests a gage, D, consisting of a plate bent longitudinally at a right angle.

From the under side of the horizontal portion of the plate extends a lug, *d*, which passes through a slot, *e*, in the frame, and is held by a pin or key. Near the angular portion of the plate, on the under side, are pins *f*, for engagement with holes *g* in the bed-plate, by which means the gage is adjusted laterally by sliding it toward or from the center of the frame, and inserting the pins in one of the series of holes to prevent lateral displacement.

E represents a cap attached to the frame over the saws, for the purpose of preventing inconvenience from the sawdust, and for the protection of the saws. Under the rear portion of the cap E is a guard for preventing vertical displacement of the work after passing the saws, said guard consisting of a bar, G, attached to the frame A, and extending outward horizontally, so that the work passes under it after being sawed, and is prevented from vertical displacement. H represents a yoke attached to the frame A, by means of bolts *h* passing through slots in the frame. (See Fig. 4.) At the ends of the yoke are standards I, in which the feed-roller journals have their bearings.

By means of the bolts *h* working in the slots, the yoke may be adjusted so as to cause the feed-rollers to revolve in planes parallel with the planes of revolution of the saws K, or obliquely thereto. When revolving obliquely, the bolt is held closely against the gage, and prevented from outward lateral displacement.

The feed-rollers L are formed with spurs or teeth *l*, (see Fig. 5,) arranged on the surface of the rollers at points between the plane of revolution of the saws. These spurs or teeth serve the purpose of feeding the bolt to the saws, and at the same time they form indentations in the wood at such points that, when turned out in the shape of laths, each lath has both edges indented, so as to form recesses, which facilitate the adherence of the plaster when applied to them.

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

1. The table or bed-plate B, attached to the frame A by bolts working in slots *c*, so that it may be vertically adjusted, and having the elongated slot *e* and openings *g*, in combination with the right-angled gage-plate D, having the lug *d*, adapted to the slot *e*, and the pins *f*, adapted to the holes *g* in the adjustable guide-table, all substantially as herein shown and described.

2. The yoke H, extending transversely across the frame A, and having at each end a standard, I, in which the feed-rollers have their bearings, said yoke being adjustably attached to the frame, whereby the feed-rollers can be caused to revolve in a plane parallel to the planes of revolution of the saws, or obliquely thereto, substantially as described, for the object specified.

PHILO W. HART.

Witnesses:
PATRICK DULL,
ALFRED C. BOWERS.