C. F. KING.

LATH SAW-MILL.

No. 183,937. Patented Oct. 31, 1876.

Fig. 1.

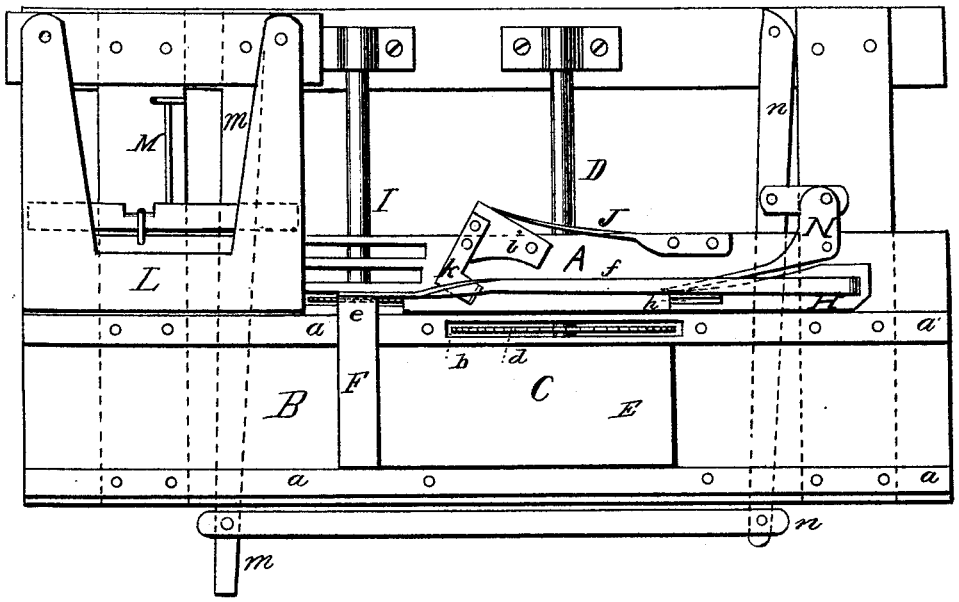
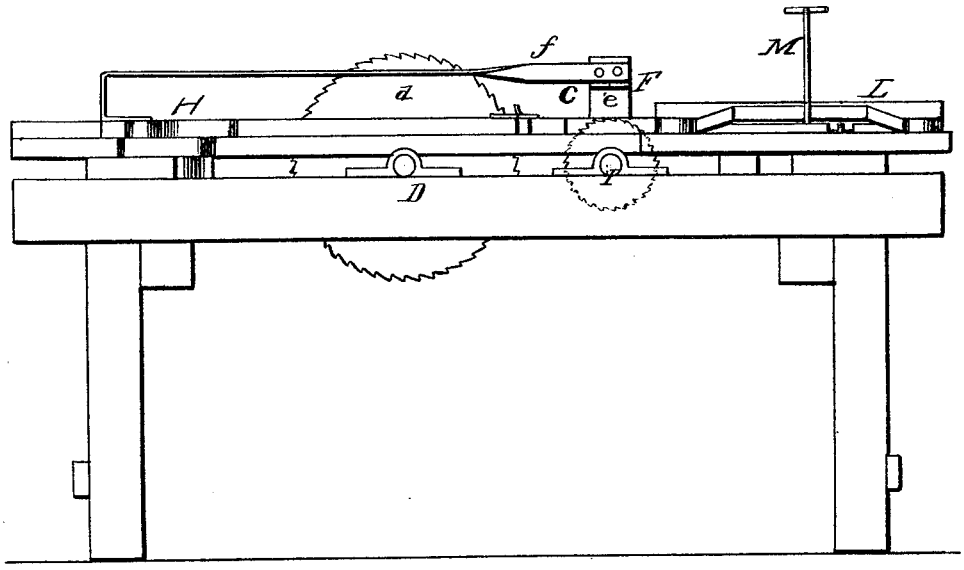


Fig. 2.



Witnesses
John A. Taubenschmidt
Chas. P. Gill

Inventor
Charles F. King
by his attys.
Cox & Cox

UNITED STATES PATENT OFFICE.

CHARLES F. KING, OF COVINGTON, PENNSYLVANIA.

IMPROVEMENT IN LATH SAW-MILLS.

Specification forming part of Letters Patent No. **183,937**, dated October 31, 1876; application filed April 12, 1876.

To all whom it may concern:

Be it known that I, CHARLES F. KING, of Covington, in the county of Tioga and State of Pennsylvania, have invented a new and useful Improvement in Lath Saw-Mills, of which the following is a specification, reference being had to the accompanying drawings.

The invention relates to an improvement in lath saw-mills; and consists in the mechanism hereinafter specifically designated, the object being to provide an efficient device for bolting and sawing laths at one operation.

Figure 1 is a top view of a device embodying the elements of the invention. Fig. 2 is a side elevation of same.

In the accompanying drawings, A represents the frame of a lath-mill properly elevated, and provided on one side with the track B, which is of suitable width to receive the carriage C, and provided on each side with strips *a a'*, to retain the carriage in position. The strip *a'* serves as a lath-gage, and is provided with a slot, *b*, in which the bolting-saw *d* operates, being therein secured on the shaft D, mounted in suitably-placed bearings and driven by any ordinary means. The carriage C consists of a base or platform, E, provided on its rear end with the standard F, having the projecting arm *e*, to which is loosely pivoted one end of the lever *f* in such manner as to have a free vibratory motion, the other end of the lever being properly furnished with the foot H, extending rearward, and provided with the slot *h*, in which, when the foot is following the bolt, the lath-saw may turn without injuring any part of the device, and entirely preventing the operators from having their hands mutilated by coming in contact with the saws, which are secured upon the shaft I, any desired number being used and placed a suitable distance apart. To regulate the laths and keep them in proper position against the edge of the lath gage or strip *a'*, I furnish the dog *i*, provided with the spring J to keep it constantly bearing against the outer edge of the bolt. A spring, *k*, is secured upn the top of the dog *i*, and has one end extending over the edge of the dog, under which end the laths move, the spring *k* serving to keep the saws from throwing the bolt off the lath-table, or being moved at all, except in a forward direction. Thus a safe operation is insured and the employés protected from the dangers incident to the driving of imperfect mills. The gage L is hinged to the side of the frame A, and is designed to regulate the thickness of the lath-bolt, the levers M being to raise the gage up out of the way when it is desired to cut the slab into laths; but when desired to cut the slab into bolts the lever is dropped, which movement causes the gage to simultaneously fall, leaving the table clear for that operation.

When laths are to be cut, the slab is placed between the lath saw and the rear end of the foot H of the carriage C, which, being now drawn to the rear of the table, gradually propels the foot in that direction, causing the slab to come in contact with the lath-saws, thus forming the laths, which, as they are followed by the foot H, pass beneath the gage L and off the rear end of the table.

In the operation of bolting the slab is placed upon the carriage, and resting against the shoulder or standard F when the carriage is moved to the front of the frame, its former position, during which movement the slab is caused to come in contact with the bolting-saw *d*, thus cutting the bolts, which, as they project over the edge of the gage or strip *a'*, fall upon the lath-table between the foot H and lath-saw, and are adjusted in proper position by the dog N, operated by the levers *m* and *n*, to be brought in contact with the lath-saws, thereby being formed into laths.

It is obvious that the track B could be hinged, so as to permit of its being elevated or depressed, as desired.

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

1. The movable bolting-carriage C, provided with the standard F, having arm *e* and lever *f*, furnished with foot H, substantially as and for the purpose set forth.

2. The movable carriage C, as described, in combination with the gage *a'* and dog N, for

placing the slab in proper position to be acted upon by the foot H, substantially as set forth.

3. The combination of the carriage C, gage *a'*, dog N, levers *m* and *n*, as and for the purpose set forth.

4. The dog *i*, provided with the springs J K, as and for the purpose expressed.

5. The gage L, in combination with the lever M, substantially as and for the purpose described.

In testimony that I claim the foregoing improvement in lath saw-mills, as above described, I have hereunto set my hand this 30th day of March, 1876.

CHARLES F. KING.

Witnesses:
EDWIN DYER,
FANNY A. DYER.