C. Schleicher.

Lath Mach.

No. 111,259. Patented Jan. 24, 1871.

Fig: 1.

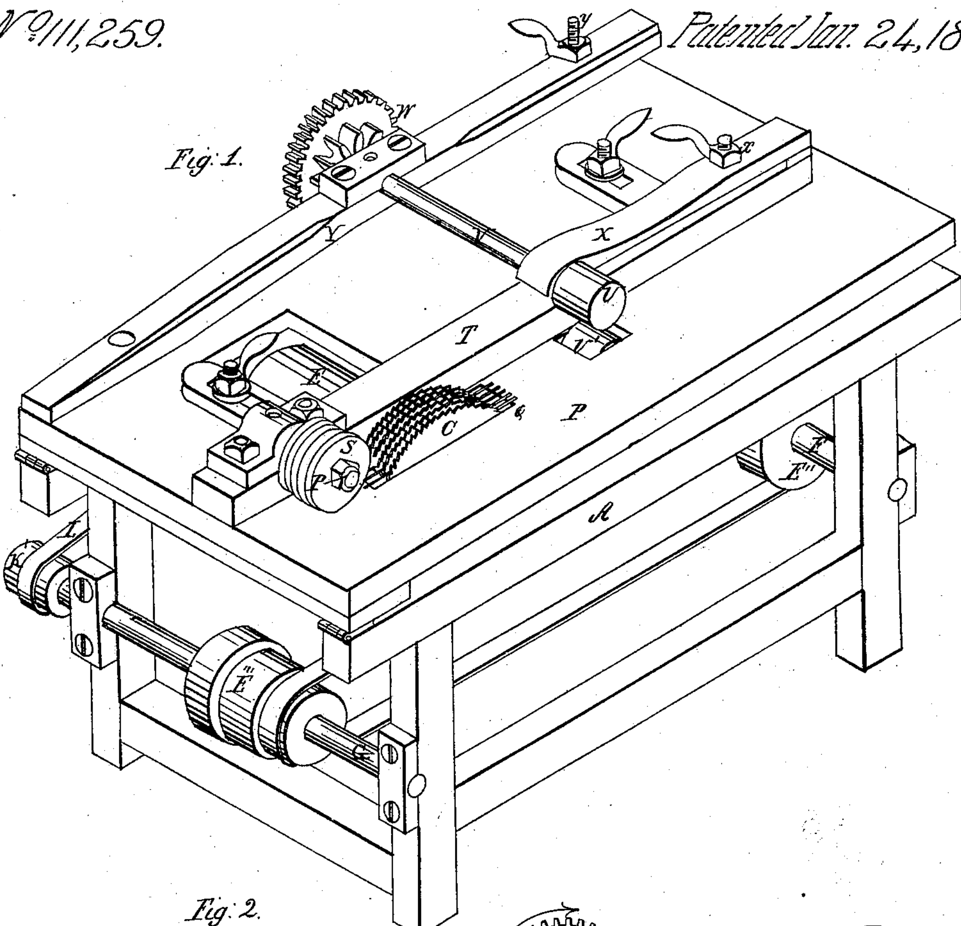
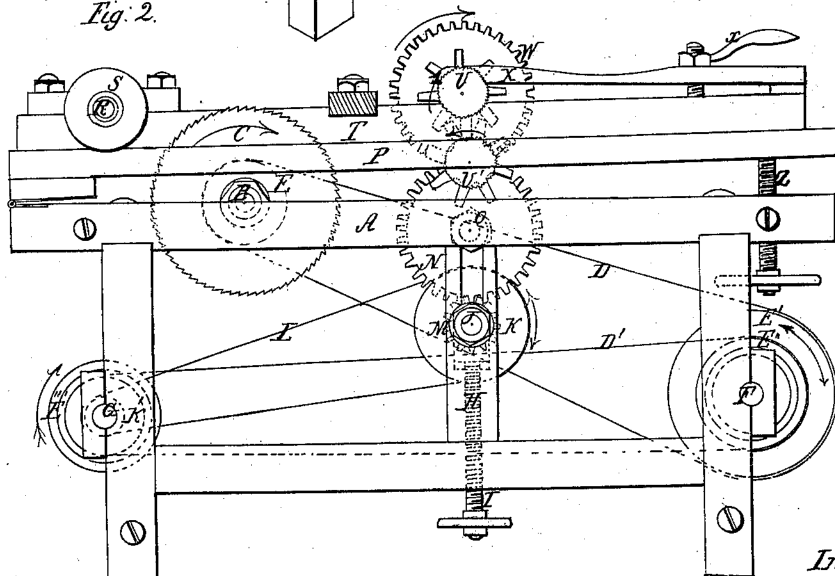


Fig: 2.



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UNITED STATES PATENT OFFICE.

CHARLES SCHLEICHER, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN LATH-MACHINES.

Specification forming part of Letters Patent No. **111,259**, dated January 24, 1871.

To all whom it may concern:

Be it known that I, CHARLES SCHLEICHER, of Louisville, Jefferson county, Kentucky, have invented a new and useful Lath-Machine; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to a machine for the manufacture of laths out of suitably-prepared slabs; and it consists in the construction, arrangement, and combination of parts, as hereinafter fully described and claimed.

Figure 1 is a perspective view of a machine embodying my invention. Fig. 2 is a side elevation thereof.

A is an open rectangular frame having journaled horizontally within it a shaft, B, furnished at one end with a gang of circular saws, C, secured at equal distances from each other, corresponding with the thicknesses of the laths to be cut. The shaft B is driven at a high speed by means of suitable belted connection, D D′, with pulleys E E′ E″ E‴ on the said shaft B and on the counter and driving shafts F and G.

H is a pedestal secured to the side of the frame A, and capable of vertical adjustment by means of a tail-screw, I.

Journaled horizontally in the pedestal H is a shaft, J, having a pulley, K, belted, L, to a smaller pulley, K′, on the drive-shaft, and having a pinion, M, which drives a spur-wheel, N′, on another horizontal shaft, O, in the pedestal H.

Hinged to one end of the frame A is a bed or table, P, traversed by as many slots Q as there are saws. The free end of the bed P rests upon a set-screw, Z, by which it is supported at the proper elevation.

Journaled horizontally in the bed P is a shaft, R, having a gang of disks, S, capable of rotating either with or around said shaft, each disk in the plane of one of the saws C.

T is a gage or shoulder, against whose vertical surface the stuff is pressed as it is fed forward to the saws.

U U′ are two feed-rollers, of which the upper one, U, is the driver, its shaft V having a spur-wheel, W, which gears to the wheel N′. The shaft V is held down at its forward end by a spring, X, adjustable in its tension by the screw *x*, while the rear end of the said shaft rests upon a spring, Y, adjustable in its tension by means of a screw, *y*. Match-wheels W W′, near the rear ends of the shafts of the respective feed-rollers, enable the driving of the lower one by the upper one.

It will be seen that the described arrangement of the gang of circular saws C and hinged and slotted bed P Q enables the instantaneous clearing of the saws of any chips or other trash with which they may become choked or clogged. The said hinged arrangement also enables the said bed to be lifted for examination, adjustment, or replacement of the belts, or lubrication of the journals. The said hinged arrangement, also in connection with the set-screw Z, enables the elevation or depression of the upper surface of the said bed with respect to the saws, for the most advantageous cutting agreeable to the width of the laths and other circumstances.

It will be perceived that the upper feed-roller, U, is capable of yielding upward, and the rear end of its shaft of yielding correspondingly downward, so as to enable a steady pressure, even upon rough or irregular material.

I claim herein as new and of my invention—

1. The upper feed-roll, U, and its shaft V, arranged with the adjustable springs X Y, in the manner described and shown, for the purpose specified.

2. The gang of disks S on the shaft R, in combination with the adjustable gage T and gang of saws C, all as herein set forth.

3. The arrangement of the slotted bed P, hinged at one end to the frame A, the screw Z, gang of saws C, gang of disks S, gage T, fixed and yielding feed-rolls U and U′, and the adjustable springs X Y, all constructed and operating substantially as herein shown and described.

In testimony of which invention I hereunto set my hand.

CHARLES SCHLEICHER.

Witnesses:

GEO. H. KNIGHT,

JAMES H. LAYMAN.