

W. W. CHAPIN.
Machine for Sawing Shingles.

No. 211,970.

Patented Feb. 4, 1879.

Fig. 1.

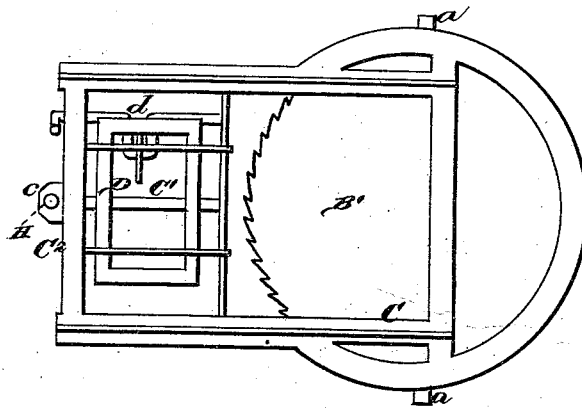


Fig. 2.

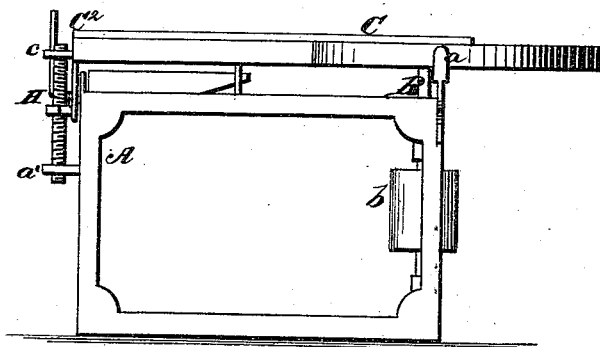
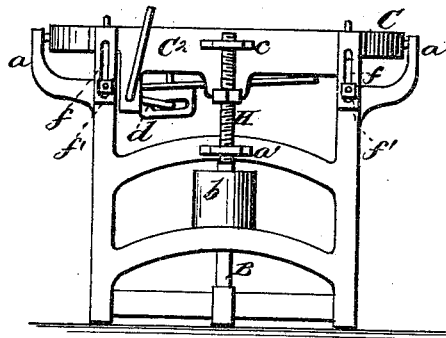


Fig. 3.



WITNESSES
Robert M. Davis.
Robert M. Davis.

INVENTOR,
William W. Chapin.
By *Gleason, Smith & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE

WILLIAM W. CHAPIN, OF MANISTEE, MICHIGAN.

IMPROVEMENT IN MACHINES FOR SAWING SHINGLES.

Specification forming part of Letters Patent No. 211,970, dated February 4, 1879; application filed December 21, 1878.

To all whom it may concern:

Be it known that I, WILLIAM W. CHAPIN, of Manistee, in the county of Manistee and State of Michigan, have invented a new and valuable Improvement in Shingle-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a top-plan view of my shingle-machine, and Fig. 2 is a side elevation of the same. Fig. 3 is a rear view.

My invention relates to that class of shingle-sawing machines where a circular saw is used in fixed bearings; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth.

As this class of machines have been constructed, great trouble has been experienced in adjusting the ways upon an even and exact plane with each other, so as to give a proper "lead" to the saw. This has usually been accomplished by adjusting first one way, then the other way, to correspond with the first, and afterward to adjust the tilting table to both.

My invention is designed as an improvement in this respect, as by my device both ways are adjusted at once, insuring no twist in their relations to each other, and the tilting table is carried with the ways, so that, be the adjustment great or small, the table holds its relative position, as may readily be seen.

Referring to the drawings, A represents an ordinary frame, in which is suitably journaled a vertical shaft, B, carrying pulley *b*, for attachment of power, and a circular saw, B'.

From upwardly-extending arms *a* is pivoted the way-frame C, and in said way-frame, upon a rock-shaft, C¹, is hung the tilting table D, operated by a crank-shaft, *d*, as shown.

It will be observed that the table D holds an arbitrary position in relation to the ways, and that it is necessarily raised and lowered.

The forward end, C², of the way-frame C extends downward, and is provided with slots *f*, in which operate binding-bolts *f'*, which serve to hold the ways at any desired point of elevation.

From the center of the end C² extend threaded lugs *c*, and upon the cross-bar of the frame is a similar lug, *a'*. In these threaded lugs works a right-and-left-hand screw-shaft, H, by means of which the entire way-frame and table may be adjusted equally and exactly.

The operation of the device and its attendant advantages are obvious.

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

1. The way-frame C, pivoted upon arms *a* on the frame A, the tilting table D, and adjusting means H *c a'*, constructed and adapted to operate, relative to a circular saw, as and for the purpose specified.

2. The combination of the frame A *a a'*, way C *c*, table D, and adjusting-screw H, as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM W. CHAPIN.

Witnesses:

B. M. CUTCHEON,
D. S. HARLEY.