2 Sheets—Sheet 1.

M. F. CONNETT.

Machine for Sawing Shingle.

No. 206,775. Patented Aug. 6, 1878.

Fig. 1.

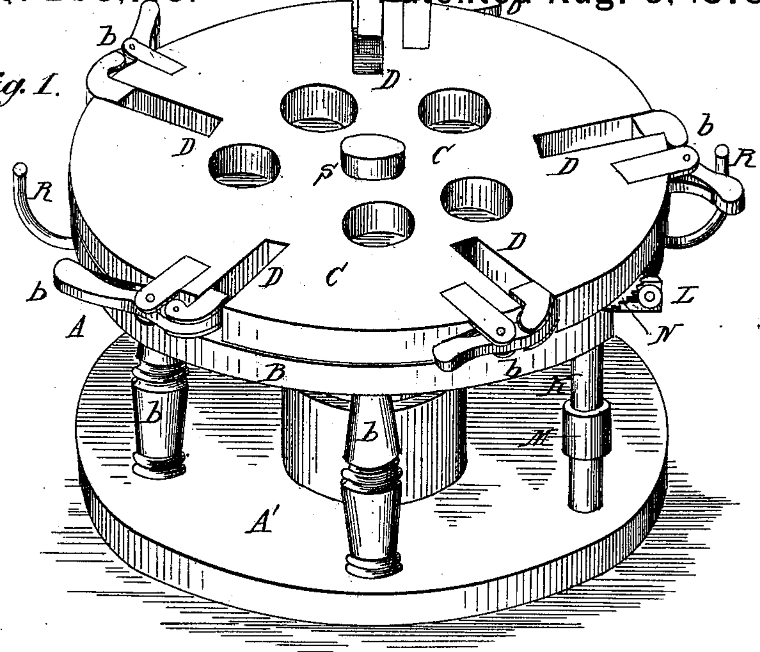
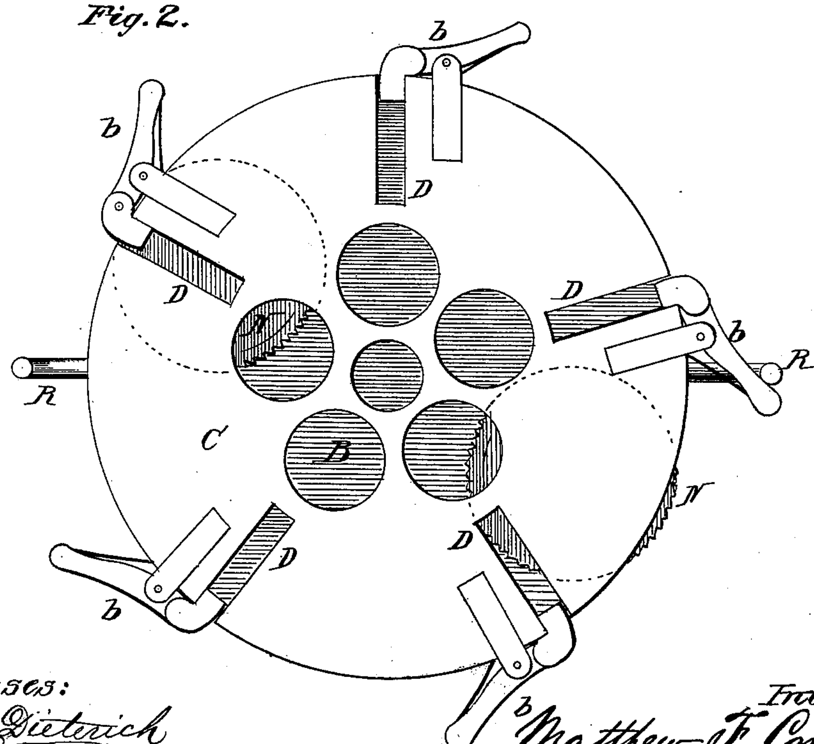


Fig. 2.



Witnesses:
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Fig. 3.

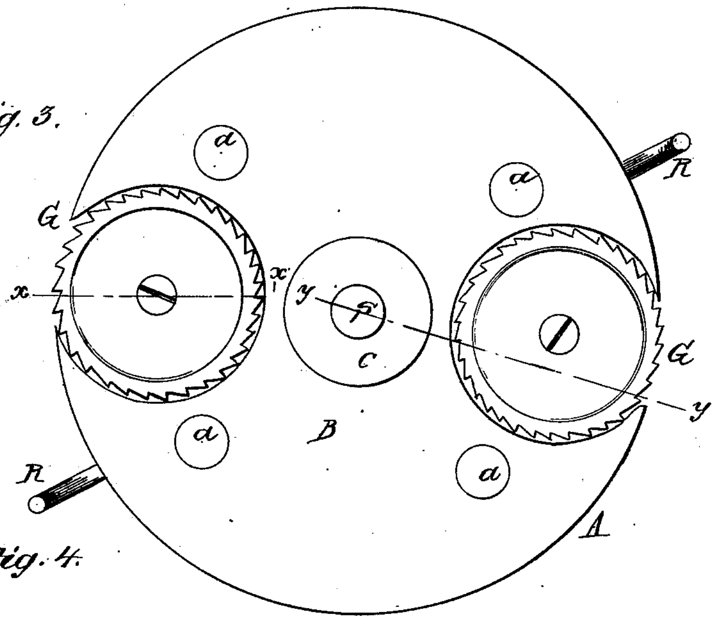


Fig. 4.

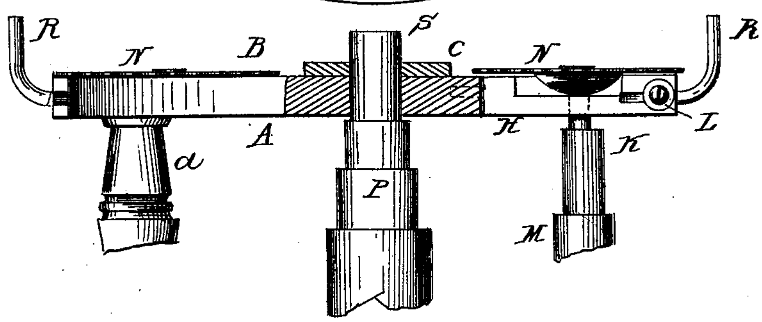
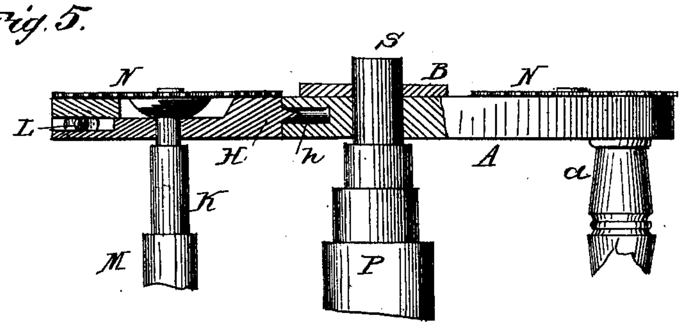


Fig. 5.



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his Attorneys.

UNITED STATES PATENT OFFICE.

MATTHEW F. CONNETT, OF DEVALL'S BLUFF, ARKANSAS.

IMPROVEMENT IN MACHINES FOR SAWING SHINGLES.

Specification forming part of Letters Patent No. **206,775**, dated August 6, 1878; application filed April 9, 1878.

To all whom it may concern:

Be it known that I, MATTHEW F. CONNETT, of Devall's Bluff, in the county of Prairie and State of Arkansas, have invented certain new and useful Improvements in Shingle-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view. Fig. 2 is a top plan. Fig. 3 is a top view of the machine, the rotating disk or table having been removed. Fig. 4 is a vertical diametrical section, and Fig. 5 is a section after the line *x x*, Fig. 3.

Similar letters of reference denote corresponding parts in all the figures.

This invention appertains to certain improvements in shingle-machines; and it consists, first, of a frame, having a bed-piece combined with slides, vertical adjustable shafts or arbors having saws, and rotating disk or table having slots; and, secondly, of the peculiar arrangement and adjustability of two or more saws with reference to a rotating table or disk having means for holding the bolts, held in place by spring-clamps operated upon by releasing mechanism, substantially as hereinafter more fully set forth.

A is the frame of the machine, which consists of a table or bed, B, supported upon legs or uprights *a a*, secured in a bottom piece, A′. S is a central shaft, provided with a cone pulley, P, and having its bearings in the bottom piece A′ and bed B, above which latter it projects, carrying the rotating disk or table C. The latter, which is elevated above bed B by a spacing-disk, C′, is of considerable thickness, and has a number of radial slots, D D, cut from the periphery toward the center, and which form the feed-boxes.

b b are spring-clamps, arranged in suitable bearings upon the sides of table C in such a manner that their front ends, which are curved, are forced into the slots or feed-boxes D D.

In the sides of the bed-piece B are arranged two upward-projecting metallic hooks or bent rods, R R, against which the rear ends of the spring-clamps *b b* strike when the disk rotates, thus momentarily releasing the hold of the clamps upon the bolts in the feed-boxes.

The bed B has, on diametrically-opposite sides, wide slots G G, on one side of each of which is arranged a slide, H, forming the upper bearing for one of the saw-shafts, K K, the lower bearings of which are in the bottom piece A′. One end of the slides H H projects into the bed B, as shown at *h*, Fig. 5; and the other (outer) end of each of the slides is forked, and supported upon a set-screw, L, which admits of the slide being moved and adjusted laterally, thus enabling the shafts K K to be adjusted slantingly toward or from the center of the bed.

The shafts K K are provided with fixed pulleys M M, and at their upper ends they carry the horizontal circular saws N N. It will be observed that by slanting the shafts in the manner described the saws may be set or adjusted at any desired angle to the bed of the table, usually at an angle of about four degrees. It will also be seen that one of the saws is set to slant down toward the center of the table, while the one on the opposite side slants down toward the periphery.

I may also here state that in large machines four, six, or even eight saws may be used, the saws being in such case set to slant alternately toward the center and the periphery. The number of slots or feed-boxes in the rotating disk C may also be varied, according to the size of the machine.

My improved shingle-machine may be operated by any suitable motive power, from the counter-shaft of which belts are run to the shafts S K K. By means of the different diameters of the cone pulley upon shaft S, the revolving table C may be rotated at any desired degree of speed. Previous to starting, the bolts, which are required to be cut up into shingles, are placed in the feed-boxes D, in which they are firmly held by the spring-clamps *b b*, their under sides resting upon the bed B, the distance between which and the rotating table is somewhat more than the thickness of a shingle. As the table rotates the bolts are successively presented to the saws. The first of these, being set slanting toward the center, cuts a shingle off the bolt with the butt toward the periphery. As soon as the saw is

passed the spring-clamp *b* strikes the hook or rod R, thus releasing the bolt, which falls down upon the bed B. The next saw which is reached slants toward the periphery. It thus cuts a shingle with the butt toward the center. When the saw is passed the bolt is again released by the clamp *b* striking the releasing-rod R, thus causing the bolt to assume, automatically, the proper position for the next saw.

My improved shingle-machine performs its work with great exactness and accuracy, and, owing to the fact that the rotating table C may have a comparatively great number of feed-boxes, with great rapidity. It is simple in construction, consisting of but few parts. The saws may be readily set to cut shingles of varying slant, and may, when set level, be employed for cutting box-stuff and other small lumber; and, finally, the feeding mechanism being entirely automatic, it requires but little attention.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of the frame A, having bed-piece B, slides H H, adjustable vertical shafts K K, having saws N N, and rotating disk or table C, having slots D D, all arranged and operating substantially as described, for the purpose herein set forth.

2. The combination, in a rotary shingle-machine, of two or more saws, arranged alternately slanting toward and from the center of the bed-piece, with a rotating disk or table having slots forming feed-boxes, in which the bolts are held by spring-clamps, and mechanism for releasing the latter after the feed-boxes have passed the saws, so as to cause the bolts to be fed automatically by their own weight, substantially as herein described, for the purpose shown and specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

MATTHEW F. CONNETT.

Witnesses:
W. L. SMITH,
JOSEPH BROWN.