

A. HALL, Jr.
Machine for Planing Octagonal Blanks for Clothes Pins.
No. 199,364. Patented Jan. 22, 1878.

Fig. 1

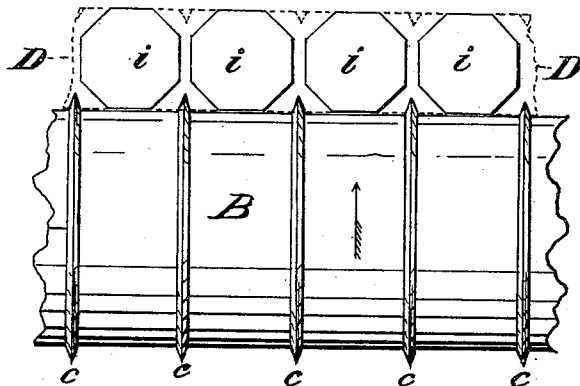
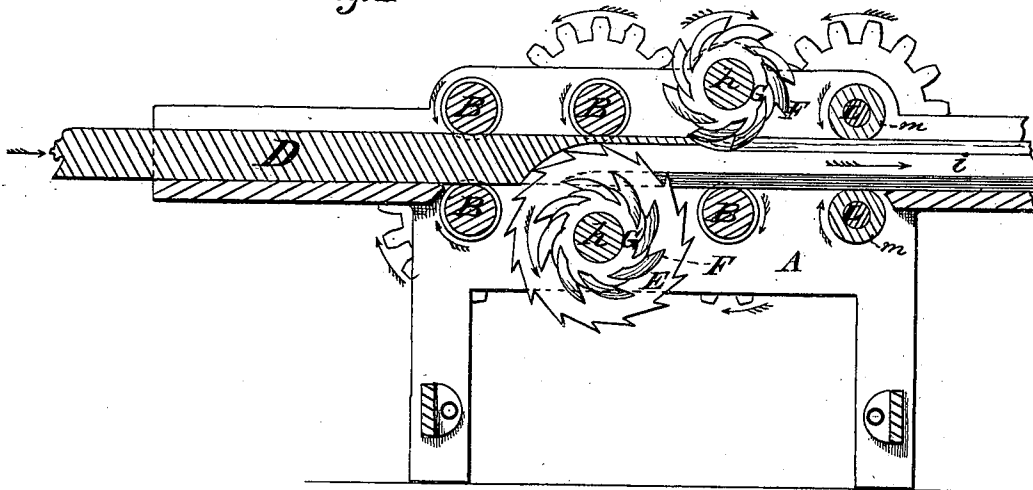


Fig. 2

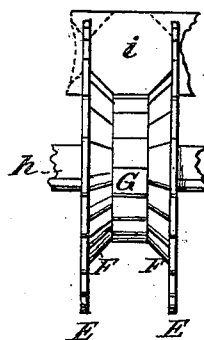


Fig. 3

Attest:

W. Lewis

R. A. Latcher

Aaron Hall, Jr. Inventor.

By Latcher

Atty.

UNITED STATES PATENT OFFICE.

AARON HALL, JR., OF ST. JOHNSVILLE, NEW YORK.

IMPROVEMENT IN MACHINES FOR PLANING OCTAGONAL BLANKS FOR CLOTHES-PINS.

Specification forming part of Letters Patent No. **199,364**, dated January 22, 1878; application filed July 13, 1877.

To all whom it may concern:

Be it known that I, AARON HALL, Jr., of St. Johnsville, in the county of Montgomery and State of New York, have invented a Machine for Planing Octagonal Blanks for Clothes-Pins and for other purposes, of which the following is a specification:

The object of this invention is to improve the form of the revolving cutters, so that less power will be required to do the requisite work, and also to facilitate the sharpening of said cutters by having each angle of the cutting-face, or the cutting-face, made in a separate cutter, so that it may be readily detached from the other cutters and the center arbor to be sharpened.

It further consists in having the infeed-rollers provided with circular knives, which cut into the board (which is to be formed into octagonal sticks) longitudinally, and thereby preventing the lateral motion or veering of the same in its passage through the machine. In conjunction with these peculiarly-formed feed-rollers are employed rubber-covered delivery-rollers.

To enable others skilled in the art to more fully understand and be enabled to construct the same, I will proceed to describe it, as follows:

Figure 1 represents a longitudinal sectional view of my invention, presenting an axial view of the principal working parts. Fig. 2 exhibits a longitudinal view of a portion of the feed-rolls which is provided with circular knives or V-shaped rings. Fig. 3 is a peripheral view of the rotary cutters.

A, Fig. 1, represents the main frame, in which bearings are provided for the various shafts or arbors, in the usual way.

B B B B are the feeding-in rollers, which are provided with circular knives or V-shaped rings *c*, which cut into the board *D*, being arranged in pairs, in the usual way, opposite each other. These circular knives prevent the board *D* from veering in its passage through the machine, and also decrease the labor of the dividing-saws *E*, arranged with the bevel-cutters *F* and surface-cutter *G*, as shown in Figs. 2 and 3.

The cutters *E F G* are provided with a central hole, to receive the shaft *h*, in the customary manner.

In the passage of the board *D* through the machine it is planed into octagonal strips *i*,

as shown in each of the figures, and delivered by the rubber-covered rolls *L L*.

The knife or V-ringed rollers *B* also have another advantage over the ordinary fluted or grooved rollers in feeding in the lumber, in that my rollers do not ridge or mar the upper and lower surfaces of the board, which is usually but slightly planed or surfaced, as will be understood by reference to Fig. 3, the circular knives *c* meeting all the requirements of a feed-roll for this or any similar purpose, as the grooves or channels so formed are planed out.

The feed-rolls are geared together in the usual way.

I use the dividing-saws *E* only on the under side, as shown in Fig. 1, which nearly separates the board into strips, and finishes the lateral surfaces of the strips, as will be readily understood.

The delivery-rollers *L L* are covered with rubber *m*, in order to prevent marring the blanks or strips, and to deliver them beyond the cutters when finished.

The cutters *F G* retain their proper form until worn out, being ground or sharpened on the forward or cutting side, against which the shaving is thrust, as will be inferred by reference to Fig. 1.

I dispense with the use of grooved beds, as it will be readily perceived that my improved feed-rolls are more satisfactory in their operation and results.

I am aware that V-shaped rollers have long since been in use for various purposes, and I do not, therefore, claim them broadly; but

What I claim as my invention is—

1. In combination with the knife-shaped rollers, arranged in pairs, as shown and described, the bevel cutters or saws *F* and surface-cutters *G*, substantially as and for the purpose set forth.

2. In combination with the arbor *h*, the cutters *F* and *G*, and dividing-saws *E*, substantially as set forth.

3. In combination with the feed-rolls *B c*, saws *E*, cutters *F* and *G*, the rubber-covered rollers *L m*, operating substantially in the manner and for the purpose described.

AARON HALL, JR.

Witnesses:

J. W. LATCHER,
MORGAN LEWIS.