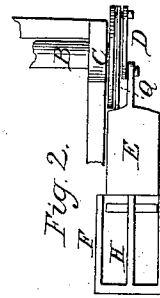
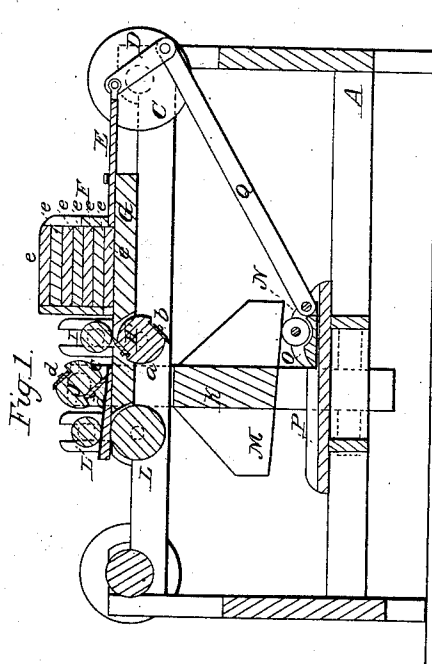


R. W. Sharp,

Planing Shingles.

N^o 16,403.

Patented Jan. 13, 1857.



UNITED STATES PATENT OFFICE.

REUBEN W. SHARP, OF MONTGOMERY, ALABAMA.

MACHINE FOR PLANING SHINGLES OR TAPERING PIECES.

Specification of Letters Patent No. 16,403, dated January 13, 1857.

To all whom it may concern:

Be it known that I, REUBEN W. SHARP, of Montgomery, in the county of Montgomery and State of Alabama, have invented a new and Improved Machine for Planing or Dressing Shingles After Being Cut from the Bolt; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section of my improvement, the plane of section being through the center. Fig. 2 is a detached plan of the hopper and feeding device.

Similar letters of reference indicate corresponding parts in the two figures.

My invention consists in the employment or use of a reciprocating slide or feeding device and a vibrating rotating cutter head arranged and operated as will be hereinafter fully shown and described, and used either with or without a stationary rotary cutter head, whereby the shingles are planed and also properly beveled or made of taper form.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A represents a rectangular framing which may be constructed in any proper manner to support the working parts.

B represents the driving shaft which is placed at one end of the upper part of the framing A. This shaft has a crank pulley C upon it, and D is a connecting rod, one end of which is attached to the pulley C near its periphery and the opposite end is attached to a slide E which works horizontally in the lower part of a rectangular box or hopper F which is placed on a bed piece G on the upper part of the framing A. The box or hopper F may be divided into two compartments by a vertical partition H, each compartment being sufficiently large to receive the shingles. The slide E is sufficiently broad to extend underneath both compartments.

H' represents a shaft which is placed transversely on the upper part of the framing A. This shaft has a cutter head (a) upon it at its center, (b) (b) being the cut-

ters attached to said head. The cutter head is directly back of the box or hopper F, and as the head rotates, the cutting edges of the cutter pass just above the upper surface of the bed piece G.

I is a roller placed above the shaft H and J is a shaft the ends or journals of which have their bearings in the upper part of a vertical frame K which works in proper guides attached to the framing. The shaft J has a cutter head (c) at its center, said head being provided with cutters (d) and arranged precisely similar to those on the head (a).

L, L, are two discharge rollers placed one over the other and back of the shaft J.

The lower part of the frame K has a vertical strip or plate M attached to it. The lower edge of this plate is beveled or inclined as shown clearly in Fig. 1 and it rests or bears upon a roller N which is fitted in a carriage O. The carriage O is fitted and works on a way or guide P, attached to the lower part of the framing A, and the carriage O is connected by a rod Q to the crank pulley C at the same point as the connecting rod D.

Motion is communicated to the shafts H', J and rollers L from the shaft B, in any proper manner. The shingles designated by (e) are placed in the two compartments of the box or hopper F, one over the other as shown in Fig. 1, and as the shaft B rotates a reciprocating motion is given the slide E and also the carriage O. As the slide E moves forward it shoves the two lower shingles forward, the under surfaces of which are planed perfectly bevel by the cutters (b) (b), and as the shingles pass underneath the cutters (d) (d) on the head (c) their upper surfaces are planed and also beveled for as the carriage O moves forward the frame K and cutter head (c) descends owing to the inclined edge of the strip or plate M and consequently the proper taper form is given the shingles. The shingles are discharged from the machine by the rollers L, L, the shingles passing between said rollers. The cutter head (c) and frame is raised to receive the succeeding shingles as the carriage O is moved backward or toward the front end of the machine.

It will be seen that one, two or more shingles may be operated upon at the same time as desired, the hopper, slide and cutters bein made of the requisite width.

5 Having thus described my invention what I claim as new and desire to secure by Letters Patent, is—

The combination of the reciprocating slide

E and vibrating and rotating cutter head (e) with or without the stationary cutter head (a) arranged and operated as shown for the purpose set forth.

R. W. SHARP.

Witnesses:

WM. C. RUGELEY,
EDMD. HARRISON.