(No Model.) 2 Sheets—Sheet 1.

D. F. HOLSTON.

MACHINE FOR CUTTING WOODEN HOOPS.

No. 263,044. Patented Aug. 22, 1882.

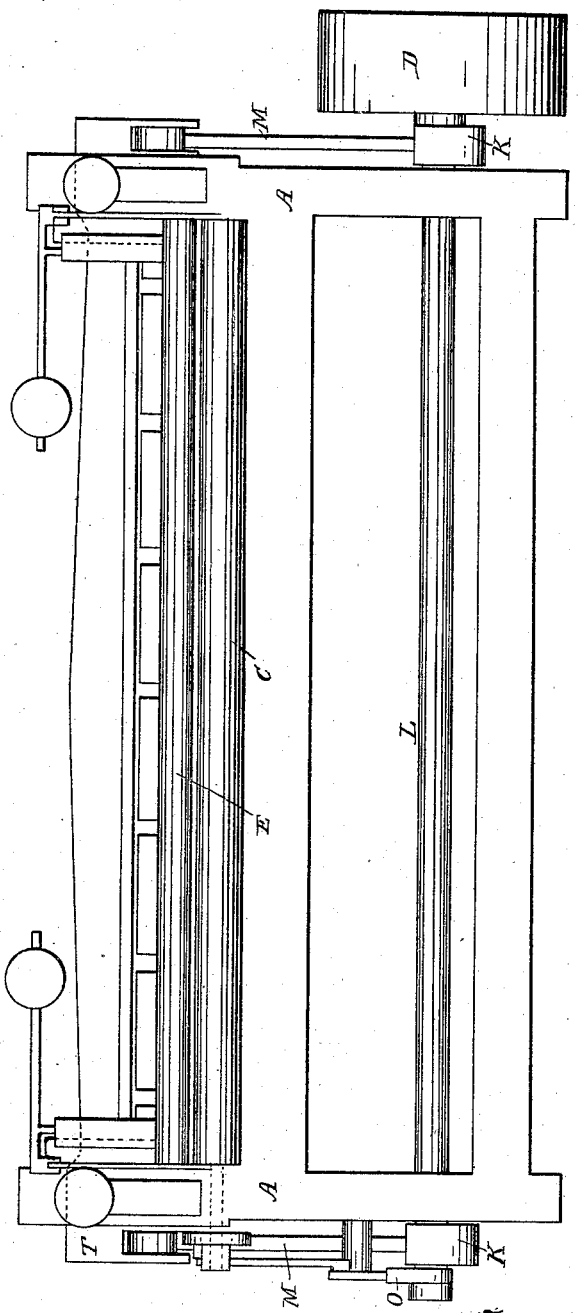

Fig. 1.

Attest.
E. Scully.

Inventor:
David F. Holston
By Thos. L. Sprague
Atty.

(No Model.) 2 Sheets—Sheet 2.

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Fig 3

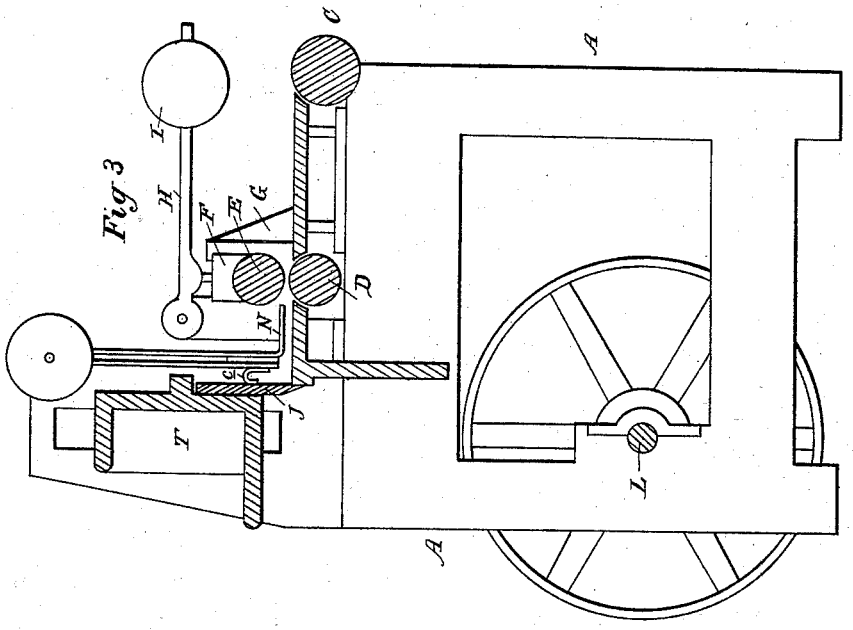
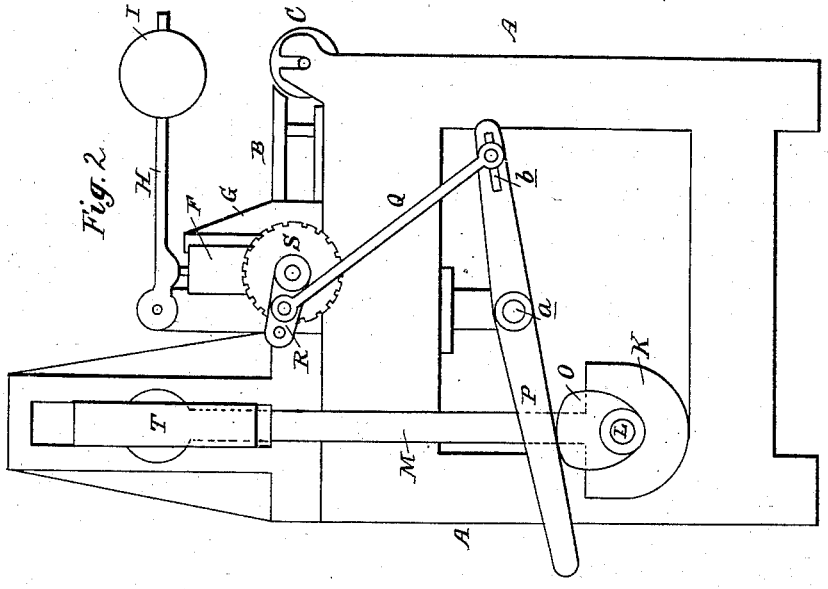


Fig. 2



Attest:
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Inventor.
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UNITED STATES PATENT OFFICE.

DAVID F. HOLSTON, OF DEFIANCE, OHIO.

MACHINE FOR CUTTING WOODEN HOOPS.

SPECIFICATION forming part of Letters Patent No. 263,044, dated August 22, 1882.

Application filed May 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, DAVID F. HOLSTON, of Defiance, in the county of Defiance and State of Ohio, have invented new and useful Improvements in Machines for Cutting Veneer-Hoops; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

The nature of this invention relates to certain new and useful improvements in the construction and operation of machines which are designed to cut hoops from thin veneers in contradistinction to those machines which cut such hoops from the edge of planks the thickness of which determines the width of the hoops.

The invention consists in the peculiar construction and combination of parts and their operation, as more fully hereinafter described.

Figure 1 is a front elevation of my improved machine. Fig. 2 is an end elevation, showing the feed mechanism. Fig. 3 is a sectional elevation of the opposite end.

In the accompanying drawings, A represents the frame of the machine which carries and supports the working mechanism.

B is the bed, in front of which is the roll C, suitably journaled at each end in the frame.

Another roll, D, similarly journaled and projecting slightly above the plane of the bed and forming one of a pair of feed-rolls, is employed. The fellow, E, of this roll is journaled in vertical sliding boxes F, which are supported by the vertical standards G.

H is a lever, one end of which is pivotally secured to one part of the standard, as shown, and this lever is provided with a sliding counterbalance-weight, I. The office performed by this lever and its attachments is to afford the necessary pressure on the upper one of the feed-rolls and allow different thicknesses of veneers to be operated upon, as may be desired, to produce thicker or thinner hoops.

J is the knife or cutter, which has a reciprocating vertical movement, being actuated thereto by the cam K, which is secured to the main shaft L; and M is a pitman which connects said cam with the sash or gate T, which carries said knife or cutter.

N is a pressure-foot, adapted in any of the known ways to secure the necessary pressure upon the veneer after its edge has passed through the feed-rolls.

O is a cam, also attached to the main shaft.

P is a lever, pivoted at *a*, and provided with a slot, *b*, with which the wrist-pin of the pitman Q engages. The opposite end of this wrist-pin is pivotally secured by a proper wrist-pin to the crank R, which upon its reverse side is provided with a suitable pawl, (not shown,) which is designed to engage with the teeth of the ratchet-wheel S, which is secured to one end of the lower feed-roll. By this latter-described mechanism the feed is regulated at will.

A stop, *c*, is secured to the pressure-foot arm to prevent the cut off hoop from following the upward stroke of the knife and compel it to drop after the knife has passed upward sufficiently far to allow such action.

I am aware that it is not new to combine an intermittent feeding mechanism with a reciprocating cutter in a paper-cutting machine, and I do not claim such invention.

What I claim is—

1. In a machine for cutting hoops from veneers, the combination, with the supporting-frame and the reciprocating knife and pressure-foot, of the roll D, the vertically-adjustable roll E, the ratchet-wheel S, the crank R, the adjustable pitman Q, the lever P, and the cam O, as and for the purpose specified.

2. In a machine for cutting hoops from veneers, the combination, with the supporting-frame and the knife J and feeding-rolls D E, of the gate F, pitman M, and cam K, for imparting a reciprocating movement to the knife, the cam O, lever P, rod Q, crank R, and ratchet-wheel S, for imparting an intermittent rotary movement to the roll E, and the pressure-foot N, and the stop *c*, all constructed and operating substantially as and for the purpose specified.

In witness that I claim the above invention, I have hereunto set my hand this 1st day of May, A. D. 1882.

DAVID F. HOLSTON.

In presence of—
H. S. SPRAGUE,
E. SCULLY.