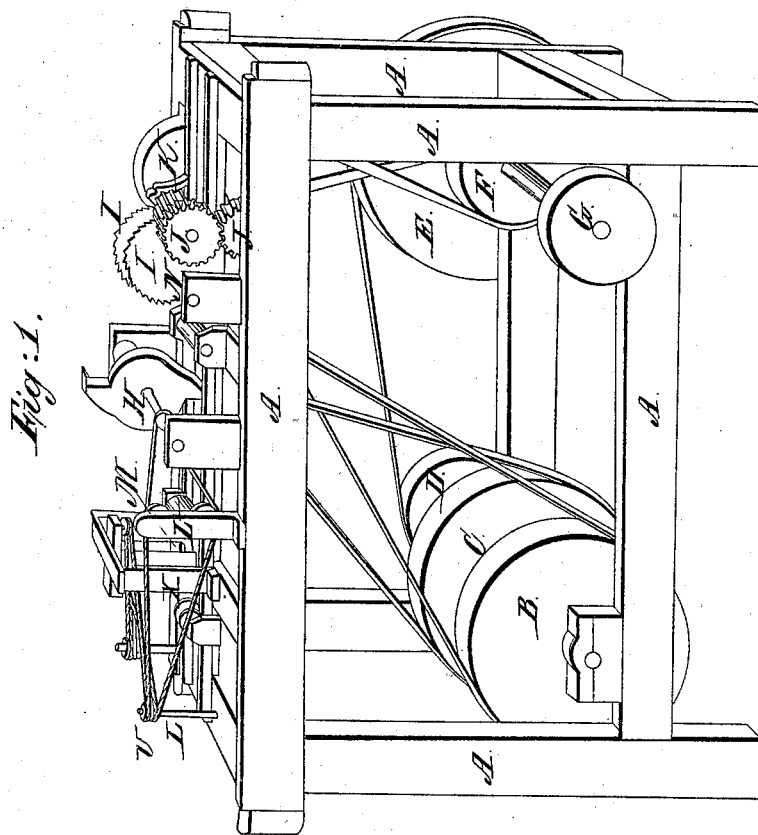


J. H. Stevens, 2 Sheets. Sheet 1.

Making Wooden Boxes.

N^o 3,862.

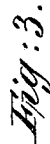
Patented Dec. 19, 1844.



Witnesses:
Owen G. Warren
H. Elliott Brown
G. W. Hunt

Inventor:
John H. Stevens

Patented Dec. 19, 1844.



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John H. Stevens

UNITED STATES PATENT OFFICE.

JOHN H. STEVENS, OF NEW YORK, N. Y.

MACHINERY FOR PREPARING WOOD FOR MAKING BOXES.

Specification of Letters Patent No. 3,862, dated December 19, 1844.

To all whom it may concern:

Be it known that I, JOHN H. STEVENS, of the city, county, and State of New York, have invented a new and useful Machine for Making Boxes; and I hereby declare that the following is a full and exact description.

To enable others to make and use my invention I proceed to describe the construction and operation, reference being had to the drawings hereunto annexed and making part of this specification.

Figure 1 is a perspective view. Fig. 2 is a side elevation of the working parts of the machine. Fig. 3 a plan of the works of the top. Fig. 4, section of the box enlarged.

A is the frame; B the band wheel which drives the two circular saws (I); C the band-wheel which drives the revolving cutter, D band wheel connected with the pulley, E, on the main shaft. F, band wheel for driving the feeding apparatus. G the band wheel for driving the machine in general. H revolving cutter. I circular saws. J pinions connected to govern the feeding rollers. K pulley with which is connected the flying pinion, R. I, guide pulleys for the band which turns the horizontal circular saws which cut the grooves. M the standard between them. N band pulley of the vertical circular saws (I,) see Fig. 3. P, feeding rollers. Q one of the wheels of the feeding apparatus. R the flying pinion. S, one of the wheels of the feeding apparatus. T the channel where the box is made. U small pulleys. W, pulley of the revolving cutter. X, a frame work in which is put the apparatus of circular saws for making the grooves. Y the upright shafts of the horizontal circular saws. Z, rollers for holding down the box while it is being made.

The operation is thus performed: A strip of wood is put in to the channel, T, between

the feeding rollers, P, and is cut by the circular saws, I, as deep as the box is to be made, and is then by the revolving cutter, cut or scooped out to the required depth as wide as prepared by the circular saws. The top of the box is also trimmed by cutters on the side of the revolving cutters, H. The grooves for the cover to slide in are made by two circular saws, placed at the bottom of the shaft, Y, and revolve by the band which is around the pulleys, U, on the shaft, I. The box is made of any required length, say twelve feet and the cover of the same length. It is then divided into the requisite length for the kind of boxes required by gluing in pieces between. They are then sawed off (box and cover) through the pieces which have been glued in for the ends; thus the long strip may be sawed into a large number of boxes of the proper proportions.

The chief object of the machine is to make match boxes, but it is equally applicable to any and all kinds that may be made of a square form with a sliding cover.

The cover is not made in this machine—it being but a thin strip of wood only.

In the combinations of the machinery to make a large number of boxes requiring only to be sawed apart, a great desideratum has been obtained, as they can be made with exceeding rapidity and great cheapness.

What I claim as my invention and desire to secure by Letters Patent is—

The combination of the cutter, H, and saws, I, I, by which the boxes are cut out, with the cutters, y, y, for making the grooves to receive the lid as described.

Given under my hand this 29th day of November 1844.

JOHN H. STEVENS.

Signed in presence of us:

OWEN G. WARREN,
CHARLES ROSS.