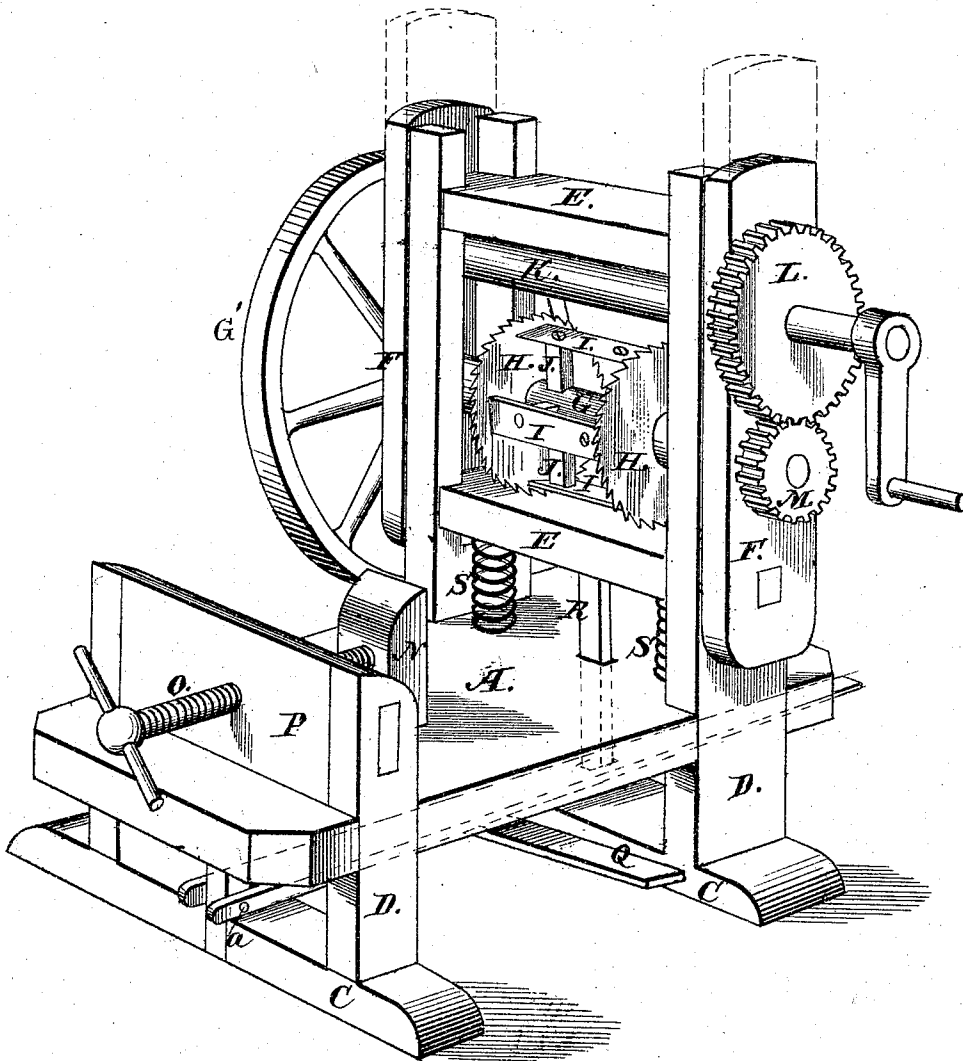


I. M. REAMES.

Machines for Recessing Tobacco Boxes.

No. 138,193.

Patented April 22, 1873.



Witnesses.

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UNITED STATES PATENT OFFICE.

ISAIAH M. REAMES, OF OXFORD, NORTH CAROLINA.

IMPROVEMENT IN MACHINES FOR RECESSING TOBACCO-BOXES.

Specification forming part of Letters Patent No. **138,193**, dated April 22, 1873; application filed January 23, 1873.

To all whom it may concern:

Be it known that I, ISAIAH M. REAMES, of Oxford, Granville county, North Carolina, have invented certain Improvements in Machines for Recessing Tobacco-Boxes, of which the following is a specification:

This invention has for its object to produce a machine for cutting recesses or countersunk openings in tobacco-boxes for the reception of revenue-stamps. This invention consists in mounting the cutting mechanism in a vertically-sliding frame, which is operated by a lever and a treadle to draw the frame down while operating on the box, and when the recess is cut being acted on by one or more spiral springs to throw the frame back and in a position ready to operate on another box.

The figure in the accompanying drawing represents a perspective view of the machine.

The table or platform A, upon which the work is performed, possesses suitable standards D D and bed-sills C C for supporting the table. The standards D extend a suitable distance above the table to form a frame, between which the frame carrying the operative mechanism is arranged. Said frame is composed of the transverse bars E, which, in connection with vertical arms F, constitute a frame or gate susceptible of being adjusted in a vertical plane, for the purpose hereinafter stated. A horizontal shaft, G, is journaled in the vertical arms of the sliding frame, and has mounted thereon a pair of parallel circular saws or cutters, H, which are connected together by a series of horizontal knives or cutter-bits, I, the ends of which are attached to radial arms J projecting from the shaft G. The end of this shaft is provided with a fly-wheel, G', which steadies the revolution of the shaft and assists in revolving the same.

Rotary motion is imparted to the cutter-shaft with increased velocity through the medium of the driving-shaft K, journaled in the

sliding frame, and connected with any suitable prime motor, and possessing a large spur-wheel, L, which meshes into a pinion, M, on the cutter-shaft.

The tobacco-box, or other receptacle containing material subject to the revenue laws, is placed upon the table A, and secured in position by any preferred devices, which consist, in the present instance, of a sliding follower, N, operated by a screw-rod, O, which projects through an upper cross-head, P, on the table.

The functions of the saws or circular cutters is to slit or groove the surface of the box, while the cutting-bits cut or plane out the wood between the grooves, and thus form a recess or depression with parallel sides and a smooth surface, into which the revenue-stamp can be placed.

The cutting mechanism is mounted in a vertically-sliding frame, as shown, and is operated by a treadle, Q, which has its fulcrum-point at a, and carries a vertical rod, R, connected with the sliding frame. On the table A, beneath the sliding frame, is arranged one or more spiral springs, S, which serve to throw or raise the sliding frame up after having operated on a box, so as to be in the proper position to operate on another box.

The apparatus above described is designed to overcome the laborious and tedious manner of cutting the recesses in tobacco-boxes, as required by law, for the reception of the revenue-stamps, as now generally practiced.

I claim as my invention—

The cutting devices H I, mounted in a vertically-sliding frame, E F, provided with a rod, R, and treadle, Q, all arranged to operate as herein specified.

ISAIAH M. REAMES.

Witnesses:

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