(No Model.)

V. M. MOREAU.

MACHINE FOR CUTTING WOODEN TYPES.

No. 265,623. Patented Oct. 10, 1882.

Fig. 1,

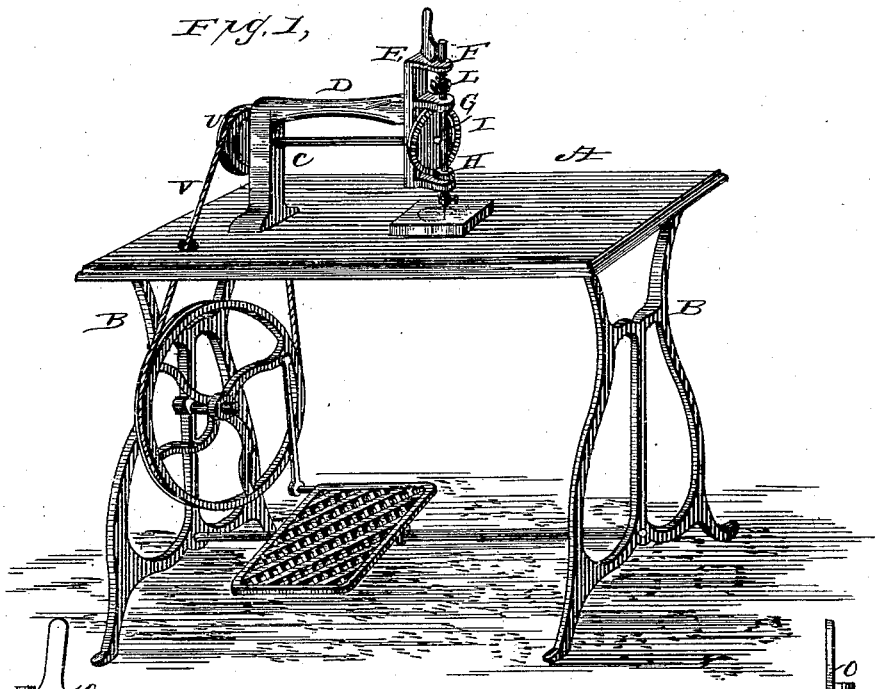


Fig. 2

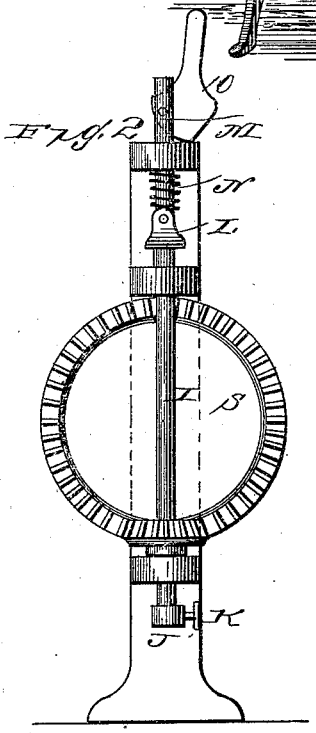
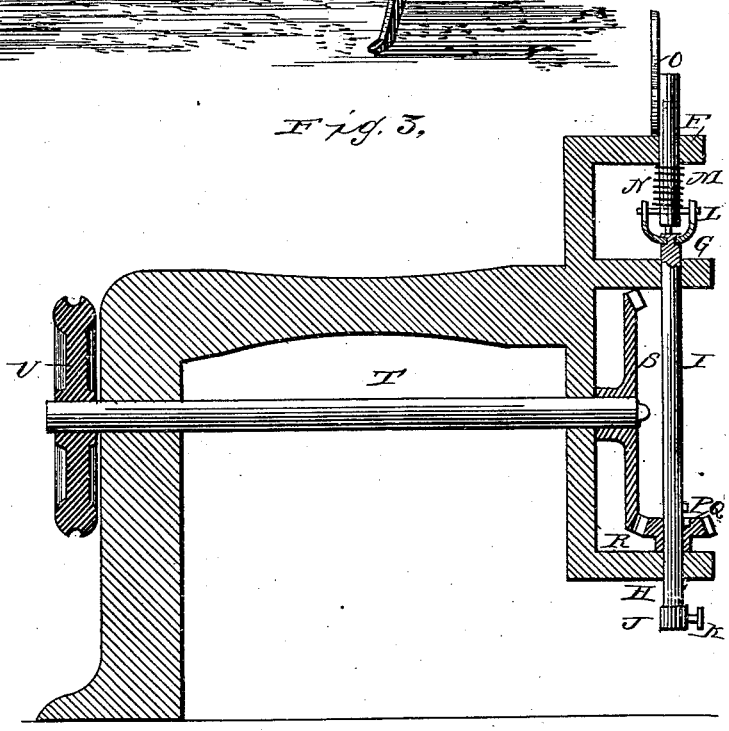


Fig. 3,



WITNESSES:

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UNITED STATES PATENT OFFICE.

VOLNEY M. MOREAU, OF CORUNNA, MICHIGAN.

MACHINE FOR CUTTING WOODEN TYPES.

SPECIFICATION forming part of Letters Patent No. 265,623, dated October 10, 1882.

Application filed July 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, VOLNEY M. MOREAU, of Corunna, in the county of Shiawassee, and State of Michigan, have invented certain new and useful Improvements in Machines for Cutting Wooden Types; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view of the machine complete. Fig. 2 is an end view of the machine detached from the stand, and Fig. 3 is a longitudinal vertical sectional view of the same.

Corresponding parts in the several figures are denoted by like letters of reference.

All job-printers, especially those having small offices, are at times obliged to cut their own types when their fonts happen to be too small for a particular job. Likewise they are often obliged to cut large lines for posters and other purposes. This has heretofore been done by hand, and often in a very slow and unsatisfactory manner.

This invention has for its object to provide a simple and inexpensive machine, by means of which such type-cutting may be quickly and conveniently done, even by those who are not skilled in the art of wood carving; and my invention consists in the construction and arrangement of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A represents a suitable table or stand, not unlike an ordinary sewing-machine table, which supports the frame B of my improved machine. Said frame consists of an upright, C, having a horizontal arm, D, the end of which carries a vertical arm, E, provided with horizontal brackets F G H. The two lower brackets G H have bearings for a vertical shaft, I, the lower end of which has a socket, J, in which a suitable cutting-tool may be secured by a set-screw, K. The upper end of shaft I is connected by a swivel-joint, L, with a shaft, M, journaled in the upper bracket, F. A spring, N, coiled around shaft M between joint L and bracket F, tends to force said shaft and the shaft I in a downward direction, and by means of a cam-lever, O, pivoted to the shaft M at its upper end, and bearing against bracket F, the shafts may be raised and supported in a raised position. The shaft I has a key or feather, P, adapted to engage a notch, Q, in a pinion, R, which is loose upon said shaft. By raising the shaft by means of the cam-lever O it may be disengaged from the pinion. The pinion R meshes with a gear-wheel, S, upon the end of a horizontal shaft, T, journaled in the upright C and arm E, as shown, and having at its other end a pulley, U, receiving motion by a belt, V, from a band-wheel journaled to one of the supports of the table A, and operated by means of a pitman and treadle.

The cutting-tools to be used may be of any suitable construction capable of cutting downwardly and laterally and of making sharp and smooth lines.

The operation of my invention will be readily understood. The block, upon which the required lettering or design has been duly outlined, is placed under the cutting-tool, which is now lowered and rapidly revolved by the operating mechanism described. By sliding or moving the block slowly under the tool the requisite cutting is then easily performed. Tools of various sizes and different constructions may of course be used.

This machine will also be found useful for "routing out" the high places from stereotype-plates, which is now commonly in smaller offices done by hand.

I claim and desire to secure by Letters Patent of the United States—

The herein-described machine for cutting wooden types, consisting of the table A, frame B, having arms D E and brackets F G H, the vertical shaft I, journaled in brackets G H, and having at its lower end a socket to receive the cutting-tool, the shaft M, journaled in bracket F and swiveled to the upper end of shaft I, the spring N, coiled upon shaft M and adapted to force the shafts M I in a downward direction, the lever-cam O, pivoted to shaft M and adapted to raise said shafts M I, the pinion R, placed loosely upon shaft I and having a notch, Q, to receive a feather, P, upon said shaft when the latter is lowered, and mechanism for imparting a rotary motion to said pinion, all substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

VOLNEY M. MOREAU.

Witnesses:
LEWIS H. WILCOX,
DANIEL MUNGER.