(No Model.)

J. B. BRAY.

PAPER PERFORATOR.

No. 265,743. Patented Oct. 10, 1882.

Fig. 1.

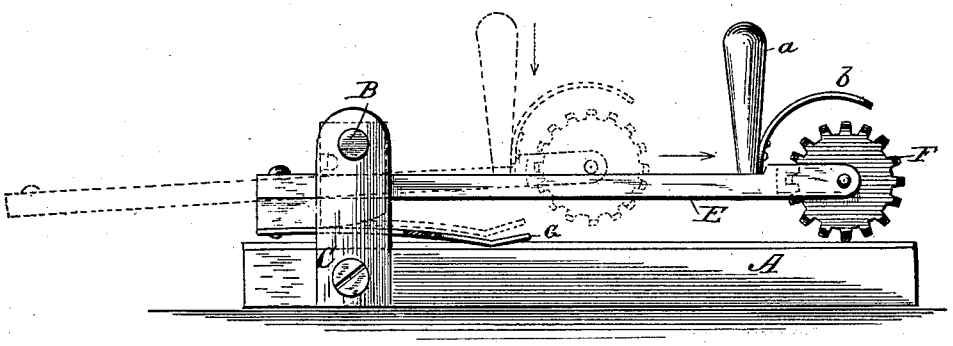
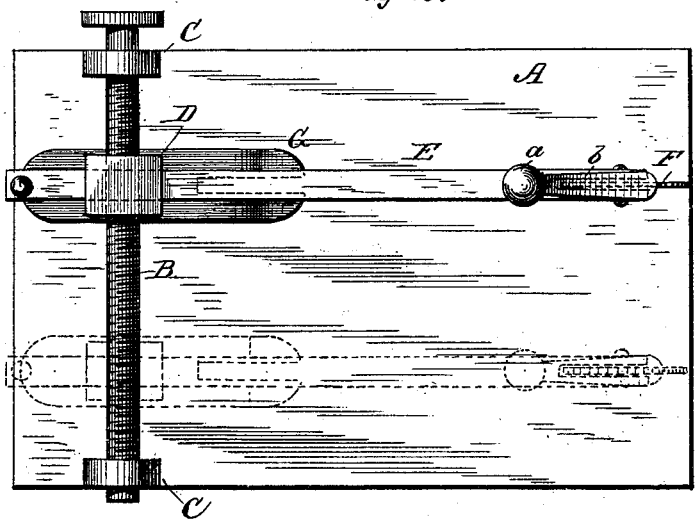


Fig. 2.



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JAMES B. BRAY, OF WAVERLY, NEW YORK.

PAPER-PERFORATOR.

SPECIFICATION forming part of Letters Patent No. 265,743, dated October 10, 1882.

Application filed January 21, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. BRAY, of Waverly, in the county of Tioga and State of New York, have invented a new and Improved Paper-Perforator; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view, showing in dotted lines the position of the devices when inserting the paper, and showing in full lines the perforator as forced down into contact with the paper and pulled out to effect the cutting of the perforations. Fig. 2 is a plan view, showing in dotted lines the lateral adjustment of the perforator.

My invention relates to an improved construction of paper-perforator or machine for perforating paper in lines for the purpose of facilitating the severance of the same, as is customary in postage-stamps, bank-checks, &c.

It consists of a block or frame hung above a base-board upon a horizontal rod, and having a guide-hole through it, in combination with a perforating-disk having a shank extending through said guide-hole of the block or frame, and a handle, whereby the perforating-disk is made to bear upon the paper that is laid upon the base-board and is drawn out in a straight line to make a line of perforations.

It also consists in making the horizontal rod upon which the frame-block is hung screw-threaded, so that by turning the same the block and the perforating-disk may be adjusted laterally to correspond with the position of the line of perforations or to make several parallel lines of perforations.

It also further consists in attaching to the under side of the guide-block a clamping-foot, which, when the disk is being pulled across the base-board, clamps and holds the paper, all as hereinafter more fully described.

In the drawings, A represents a base-board or cutting-table, which is designed to be covered with straw-board or pasteboard to prevent cutting and mutilating the table. In horizontal position above this base-board or table is a rod, B, screw-threaded throughout its entire length, and provided with a head or thumb-piece at its end. This rod is arranged in standards C C on opposite sides of the base-board, and carries an interiorly screw-threaded block or frame, D. Through the lower portion of this block or frame there is a hole arranged at right angles to the rod B, and through this hole passes a shank or bar, E, which carries the steel perforating-wheel F, whose periphery is formed into sharp cutting points or edges. On this shank, and near the perforating-wheel, is an upwardly-projecting handle, *a*, which is grasped and the wheel drawn toward the operator thereby when the device is being used. Just over this wheel extends a guard, *b*, to keep the operator's hand out of contact with said wheel, and the other end of the shank or bar E is provided with a stop to prevent it from being pulled entirely out of the block or frame. Now, in constructing the block it is made so that its hole fits snugly the bar or shank E, and said hole is also long enough to cause the bar to be pulled out in an exactly straight line; and for this purpose I may, instead of using a solid block, use simply two perforated guide-lugs projecting downwardly from the screw-threaded top portion to form guides for the bar E to slide through. Just underneath, and attached to the block or guide-frame D, is a clamping-foot, G, which, when the perforating-disk is forced down into contact with the paper, bears against the paper beneath the block or frame and holds it tightly clamped while the perforating-disk is being pulled out to form a line of perforations. This clamping-foot I make in the shape of a spring, and slit it so that the perforating-disk may pass up into the slit and start from the edge of the paper.

Having thus described my invention, what I claim as new is—

1. The combination, with a base-board and a horizontal rod held in supports above the same, of a block or frame hung upon said rod and having a guide in its lower portion arranged at right angles to the said rod, and a longitudinally-sliding bar or shank fitting in said guide and carrying the perforating-disk and arranged to slide parallel with the base-board, substantially as and for the purpose described.

2. The combination, with a base-board and a horizontal screw-threaded rod held in bearings above the same, of an interiorly screw-threaded

block or frame hung upon said rod and having a guide in its lower portion at right angles to the rod, and a bar or shank arranged to slide in said guide and carrying the perforating-disk, substantially as and for the purpose described.

3. The combination, with a base-board and a horizontal rod held in supports above the same, of a block or frame hung upon said rod and having a guide at right angles to the said rod, a bar or shank sliding in said guides and carrying the perforating-disk, and a foot or clamp attached to the block or frame and adapted to hold the paper while the perforating-disk is being drawn out, substantially as shown and described.

The above specification of my invention signed by me in the presence of two subscribing witnesses.

JAMES B. BRAY.

Witnesses:
J. F. SHOEMAKER,
EDWD. W. BYRN.