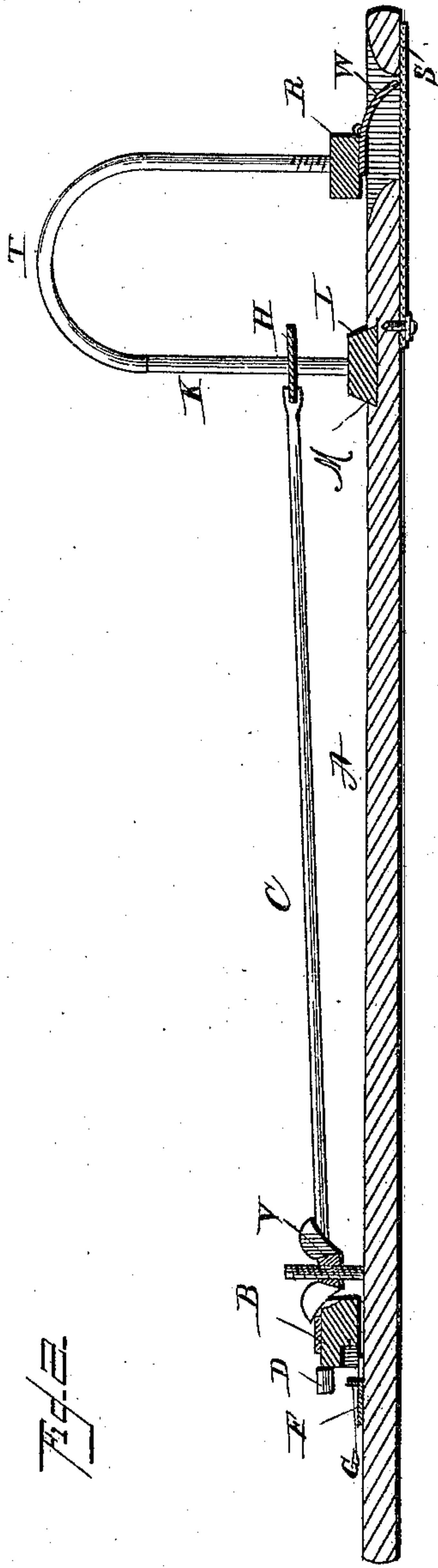
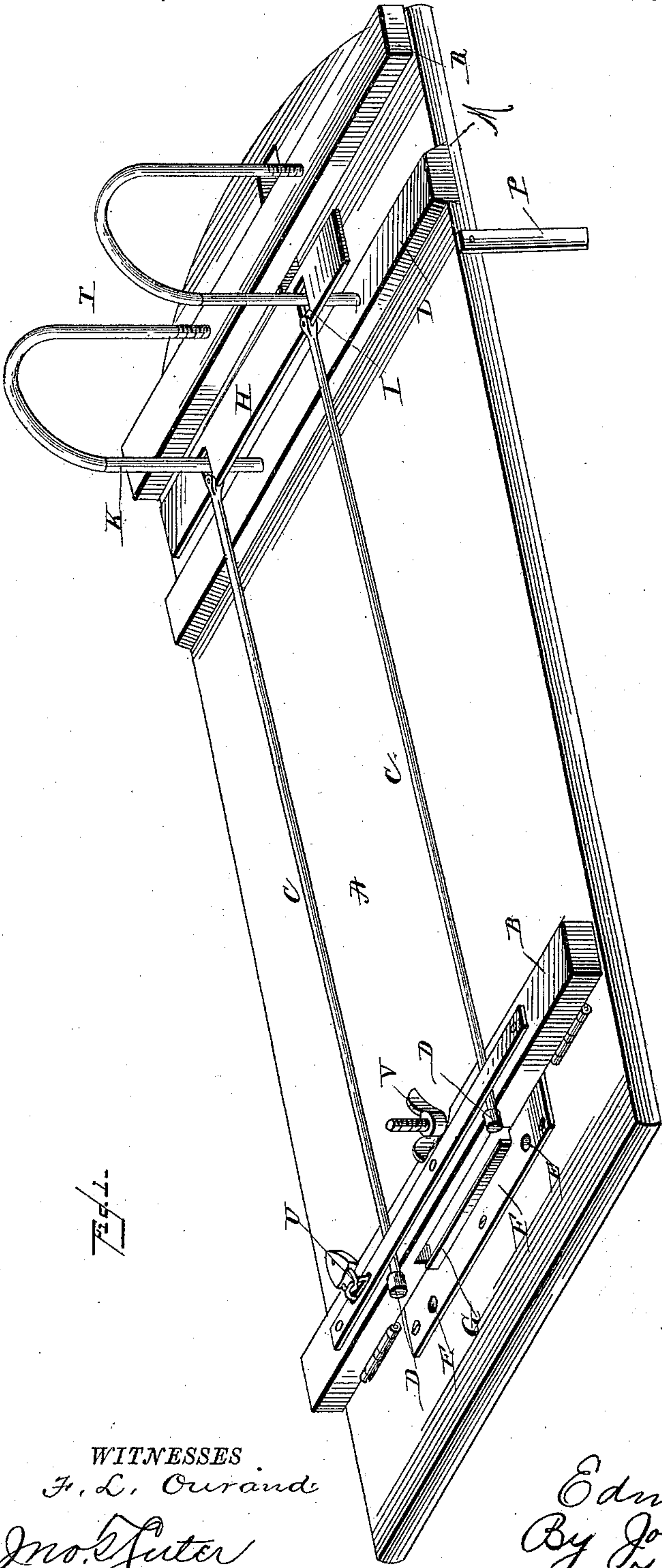


(No Model.)

E. C. McVOY.  
LETTER AND BILL FILE.

No. 358,870.

Patented Mar. 8, 1887.



*WITNESSES*

F. L. Ourande

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# UNITED STATES PATENT OFFICE.

EDMUND C. McVOY, OF EASTON, PENNSYLVANIA.

## LETTER AND BILL FILE.

SPECIFICATION forming part of Letters Patent No. 358,870, dated March 8, 1887.

Application filed April 7, 1886. Serial No. 198,076. (No model.)

*To all whom it may concern:*

Be it known that I, EDMUND C. McVOY, a citizen of the United States, residing at Easton, in the county of Northampton and State of Pennsylvania, have invented certain new and useful Improvements in Letter and Bill Files, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain improvements in paper-files; and it has for its objects to provide a compact and efficient device by means of which the sheets of paper may be punched, bound, locked temporarily in position, and finally transferred and permanently bound, as more fully hereinafter specified. 15 These objects I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a perspective view of my improved device complete, and Fig. 2 a longitudinal vertical sectional view thereof.

In the drawings the letter A indicates a flat board or tablet constructed of any suitable material. Near one end of said board, on its upper face, is hinged a transverse strip, B, of wood or other suitable material, to which are secured the longitudinal parallel wires C, which at one end are provided with punches D, which are adapted to work into the apertures E in the metallic plate F, secured to the board on the outside of the hinged strip before mentioned. The said plate is formed with a flange, G, against which the edge of the sheet to be punched is set, the said flange forming a gage for regulating the position of the punctures at the edge of the paper. The wires C extend longitudinally above the face of the board to near its opposite end, where they are provided with a flat binding-plate, H, having apertures I, which overset the vertical wires K, secured to a removable dovetailed strip, L, which is detachably confined in a dovetailed groove, M, in the face of the board. The vertical wires are the same distance apart as the longitudinal wires C, so that the paper, when punctured thereby, may be secured over said vertical wires. The dovetailed strip is confined to its seat, when the device is in use, by means of lock-levers P, pivoted to the edges of the board. 45 Back of the dovetailed strip is hinged a strip, R, which is held normally in position by a leaf-spring, S, which bears against one end of

the arm W, secured to the strip and extending through a slot in the board. The said strip is provided with two transfer arched wires, T, 55 which are normally held in connection with the upper ends of the vertical wires before mentioned, but which can be thrown back from the same for the insertion or removal of the sheets, as may be desired. 60

In order to bind the sheets of paper in a compact body against the face of the board, the strip B is slotted so as to overset a staple, U, secured to the face of the board, through which a padlock or other fastening device may 65 be passed to lock the hinged strip and the wires C down. A screw and thumb-nut, V, may be employed for temporarily locking the said strip and wires down, however.

The operation of my invention will be readily understood in connection with the above description, and is as follows: To punch the papers the sheets are placed with one edge against the flange G on the plate F, and the hinged frame B is swung upward, so as to force 75 the punching ends of the longitudinal wires C through them, the arched transfer-wires and their hinged supporting-strip having been turned back for the purpose. The punctured papers are then passed over the vertical wires, 80 so as to rest upon the face of the board. The longitudinal wires and binding-plate are brought down upon said papers and locked by the locking devices, so as to bind them compactly. When desired to transfer the papers 85 temporarily for inspection, the arched wires are thrown back, the longitudinal wires and binding-plate thrown upward, and the arched wires again thrown into normal position, when the papers can be carried over onto the arched 90 wires. When the vertical wires have received all the papers they are capable of holding, the fastenings holding the dovetailed strip are released and the strip is removed with the papers to be filed away or permanently bound. 95

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, in a paper-file, of the flat board having a hinged strip provided with 100 longitudinal wires having projecting punches at one end, the perforated punch-plate, and the gage-flange, substantially as specified.

2. The combination, with the hinged strip,



the longitudinal wires and binding-plate, the vertical wires and their detachable dovetailed strip, of the locking devices whereby the parts are clamped upon the papers, substantially as 5 and for the purposes specified.

3. The combination, with the board having a dovetailed groove across its face, of the dovetailed strip carrying the vertical wires, and the fastening devices whereby the strip is 10 temporarily held in the groove, substantially as specified.

4. The combination, with the board having a dovetailed groove across its face, of a dovetailed strip provided with vertical wires, 15 whereby said strip may be held firmly to the board, or removed sidewise therefrom at pleasure, substantially as specified.

5. The combination of the board grooved across its upper face and a dovetailed strip provided with vertical wires with the arched 20 transfer-wires, and the hinged strip to which said wires are secured, whereby papers filed on the vertical wires may be either removed sidewise from the board or transferred to the arched wires, substantially as specified. 25

In testimony whereof I affix my signature in presence of two witnesses.

EDMUND C. McVOY.

Witnesses:

JNO. L. WILSON,  
F. W. EDGAR.