2 Sheets—Sheet 1.

J. L. DeHUFF.

OSCILLATING PRINTING-PRESS.

No. 169,526. Patented Nov. 2, 1875.

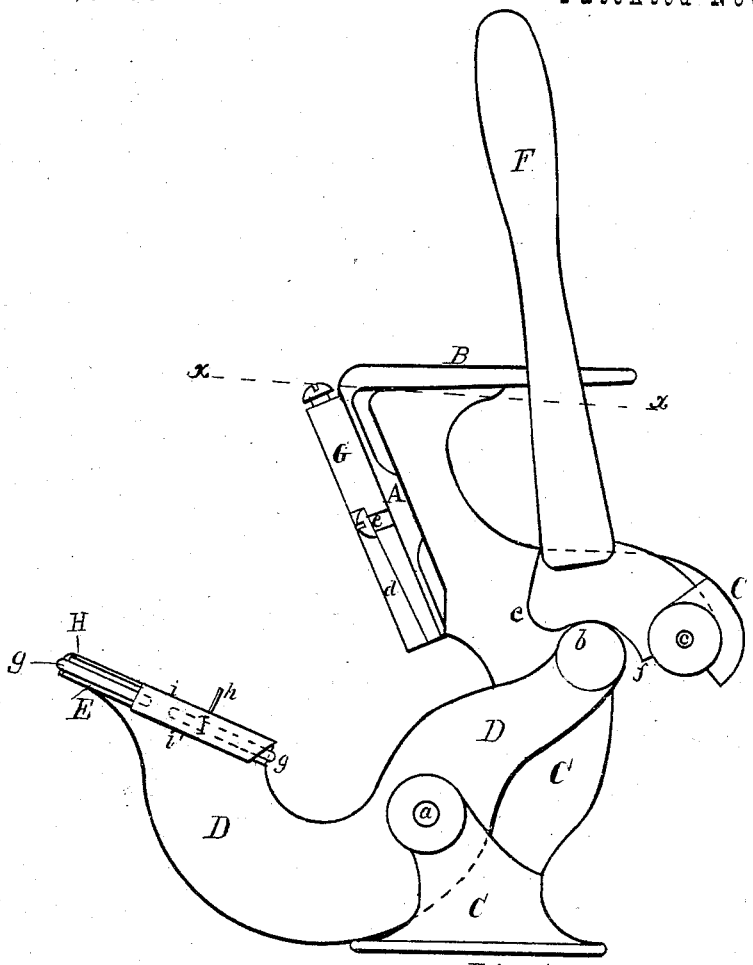

Fig. 1.

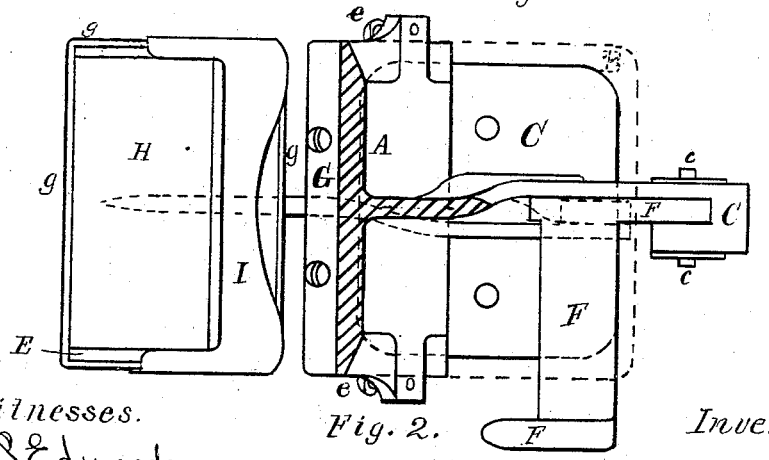

Fig. 2.

Witnesses.

Wm. C. Edwards

E. A. Hemmenway

Inventor.

John L. DeHuff

J. L. DeHUFF.

OSCILLATING PRINTING-PRESS.

No. 169,526. Patented Nov. 2, 1875.

Fig. 4.

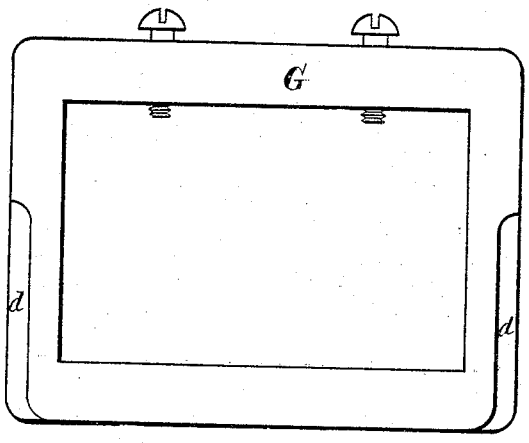

Fig. 3.

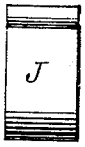

Fig. 7.

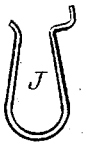

Fig. 8.

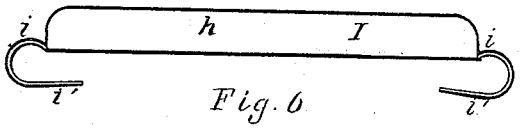

Fig. 6

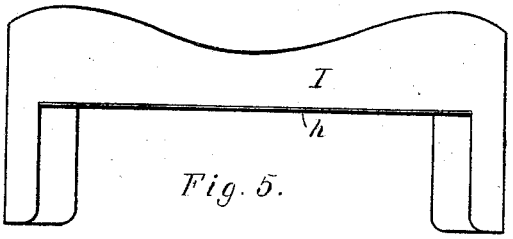

Fig. 5.

Witnesses.

Wm. B. Edwards

E. A. Hemmenway.

Inventor:

John L. DeHuff

UNITED STATES PATENT OFFICE.

JOHN L. DE HUFF, OF WOBURN, ASSIGNOR TO JOSEPH WATSON, OF EVERETT, MASSACHUSETTS.

IMPROVEMENT IN OSCILLATING PRINTING-PRESSES.

Specification forming part of Letters Patent No. **169,526**, dated November 2, 1875; application filed June 29, 1875.

To all whom it may concern:

Be it known that I, JOHN L. DE HUFF, of Woburn, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Printing-Presses, of which the following, taken in connection with the accompanying drawings, is a specification:

My invention relates to the construction, arrangement, and mode of operating the several parts; and it consists, first, in casting or otherwise securing the platen upon one end of a double-armed lever, pivoted at or near the middle of its length to the frame of the machine, and provided at its other end with a boss, truck, or rounded surface, in combination with a pivoted hand-lever, having formed upon its under side, near its fulcrum, a peculiarly-shaped cam-surface, fitted to bear upon said boss, truck, or rounded surface on the platen-lever, and, by a vibration of said hand-lever, cause the platen to be moved from the feeding position into a position in contact with the face of the type, and give the impression.

My invention further consists in forming a rabbet upon the outer end corners of the "chase," extending from its lower side to or a little past its middle, the lower or bottom surface of said rabbet being made at a slight angle to the face and back of the chase, so that the remaining stock shall form a wedge, which, in combination with two adjustable headed pins or bolts set in the type-bed, shall serve to hold the chase in position.

Figure 1 of the drawings is a side elevation of a press embodying my improvements. Fig. 2 is a horizontal section on line *x x*, with the outline of the ink-distributing plate shown in dotted lines. Figs. 3 and 4 are, respectively, a plan and edge view of the chase, drawn to an enlarged scale.

In the drawings, A is the type-bed; B, the ink-distributing table, and C the stand or frame for supporting the same, all cast in one piece, as shown; or, if desired, the ink-table may be cast separate, and secured thereto in any well-known manner. D is a lever, pivoted at *a* to the frame or stand C, and has cast upon, or otherwise secured to, its front end the platen E, and at its rear end is provided with a boss or rounded surface, *b*; or, if desired, a stud or pin may be set in said lever, and have an anti-friction truck mounted thereon. F is a hand-lever, pivoted at *c* to the frame C, and having formed upon its lower side, near its fulcrum, the reverse-curve cam-surface *e f*, arranged to rest upon the boss or rounded surface *b*, and impart motion to the platen by a vibration of said lever, the downward motion of the hand-lever causing the platen to be moved upward until it is brought into contact with the face of the type.

This arrangement of cam-lever for operating the platen of a press is a very simple and effective device for the purpose, having all, or nearly or quite all, the advantages of the toggle-joint, at a much less cost.

When the hand-lever is moved upward, the weight of the platen will cause it to fall away from the type, and assume the proper position for feeding the paper or card to be printed.

G is the chase, having a rabbet, *d d*, formed in the outer corner of each end, extending over a little more than one-half the width of the chase, and having the bottom of said rabbet at a slight angle to the outer and inner faces of the chase, as shown in Figs. 3 and 4, and adapted to slide under the heads of the screw-bolts *e e*, set in the face of the bed A, and adjustable therein by means of screw-threads formed thereon. H is the tympan-sheet, applied and held in position, in a well-known manner, by the wires *g g*.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The lever D, pivoted at or near the middle of its length to the frame C, and carrying upon one end the platen E, cast upon or otherwise secured thereto, and provided at its other end with a boss, truck, or rounded surface, in combination with the pivoted hand-lever F, having formed upon its under side, near its fulcrum, the reverse-curve cam-surface *e f*, arranged to operate as and for the purposes described.

2. The chase G, provided with a rabbet, *d*,

formed in the outer corner of each end, the bottom surface of which is at a slight angle to the outer and inner faces of the chase, in combination with the adjustable screw-bolts *e e*, set in the face of the type-bed, and adapted to engage with said rabbet to hold the chase in position, substantially as described.

Executed at Boston, Massachusetts, this 26th day of June, 1875.

JOHN L. DE HUFF.

Witnesses:
WM. P. EDWARDS,
E. A. HEMMENWAY.