(No Model.)

H. W. CAMPBELL & J. P. DAVIES.

LETTER PRESS.

No. 411,758. Patented Sept. 24, 1889.

Fig. 1.

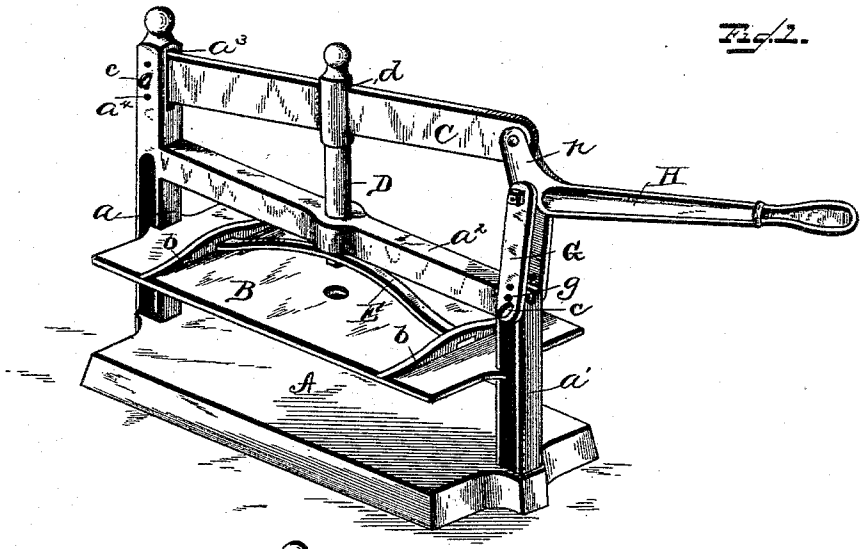


Fig. 2.

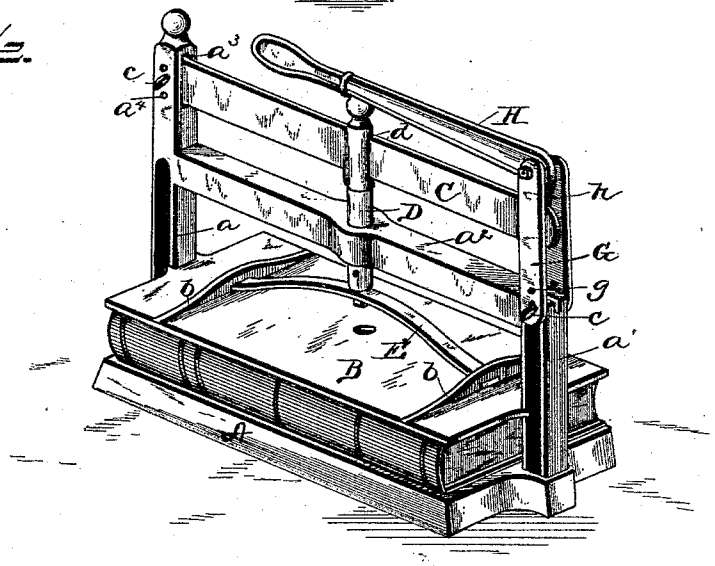
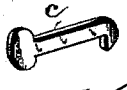


Fig. 3.



WITNESSES

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HARDY W. CAMPBELL AND JOHN P. DAVIES, OF RACINE, WISCONSIN, ASSIGNORS TO THE RACINE MALLEABLE AND WROUGHT IRON COMPANY, OF SAME PLACE.

LETTER-PRESS.

SPECIFICATION forming part of Letters Patent No. 411,758, dated September 24, 1889.

Application filed November 26, 1888. Serial No. 291,925. (No model.)

To all whom it may concern:

Be it known that we, HARDY W. CAMPBELL and JOHN P. DAVIES, citizens of the United States, residing at Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Letter-Presses; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in letter or copying presses; and the objects of our improvements are, first, to provide a letter-press that is simple in construction and effectual in operation, and, second, to provide a letter-press with the movable adjustable pressing-plate so arranged that a uniform pressure is obtained at all points when it is in operation. We attain this object by a certain combination and arrangement of parts, which will be hereinafter described, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the letter-press. Fig. 2 is a similar view of same, with letter-book. Fig. 3 is a detail view of one of the parts.

A designates the base-plate, which is constructed, in any suitable manner, with the upright portions a a' and the horizontal bar a^2. In the center of said bar there is an orifice through which passes the vertical pressure-rod D. The upright a is formed with the slot a^3 in the top part and the orifices a^4, which are adapted to a key c, that holds the main pressure-lever C in position. The slot a^3 is made longer than the width of the lever C, with a view of adjusting said lever to any desired height. This is accomplished simply by taking out the key c and putting it in a higher or lower orifice a^4. In the top of the upright a' there is an orifice g, the purpose of which will be hereinafter explained.

B represents the movable pressing or top plate, which is constructed in the ordinary way, with the exception of the brace-bars b b, to which is attached the elastic semicircular strap of steel E. Said strap of steel is located and arranged to press as uniformly upon the ends of the movable pressing-plate B as the vertical sliding rod D presses upon the center of same.

G G are two upright bars, having any number of orifices g in the lower ends, by means of which said bars are keyed to the top of the upright a' with the key c. The purpose of the orifices g is to regulate the height of the bars G G accordingly as it is desired.

The vertical pressure-rod D has a slot d in the top, through which passes the lever C. Said rod has its lower end secured to the elastic strap E. To the forward end of the lever C there is pivoted the handle or lever H. Said handle has a cam or elbow h upon one end, and is pivoted to the top of the vertical bars G G. It is readily seen that the handle H imparts an alternating motion to the horizontal lever C, by means of which the movable plate B is operated.

We attach special importance to the combination of the movable plate B, the elastic strap E, the vertical pressure-rod D, the lever C, and the handle H, by means of which a uniform pressure is obtained upon the movable plate B. We also attach importance to the slots and orifices in the upright a, and to the orifices in the top of the upright a', by means of which the horizontal lever C can be raised or lowered, as desired, according to the thickness of book used.

What we claim is—

In a letter-press, the combination of the base-plate A, the movable plate B, the elastic strap E, attached to said plate B, the vertical pressure-rod D, the horizontal lever C, and the handle H, provided with the cam or elbow h and pivoted to the lever C, the key c, and the vertical bars G G, substantially as described and set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

HARDY W. CAMPBELL.
JOHN P. DAVIES.

Witnesses:
JNO. W. KNIGHT,
ALBERT L. ANDERSON.