(No Model.)

W. H. H. CLARK.

STAMPING PRESS.

No. 380,423. Patented Apr. 3, 1888.

Fig. 4.

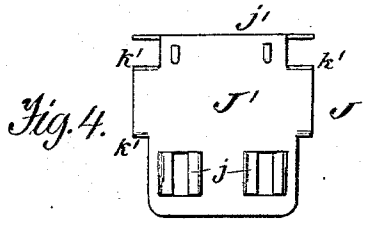


Fig. 1.

Fig. 2.

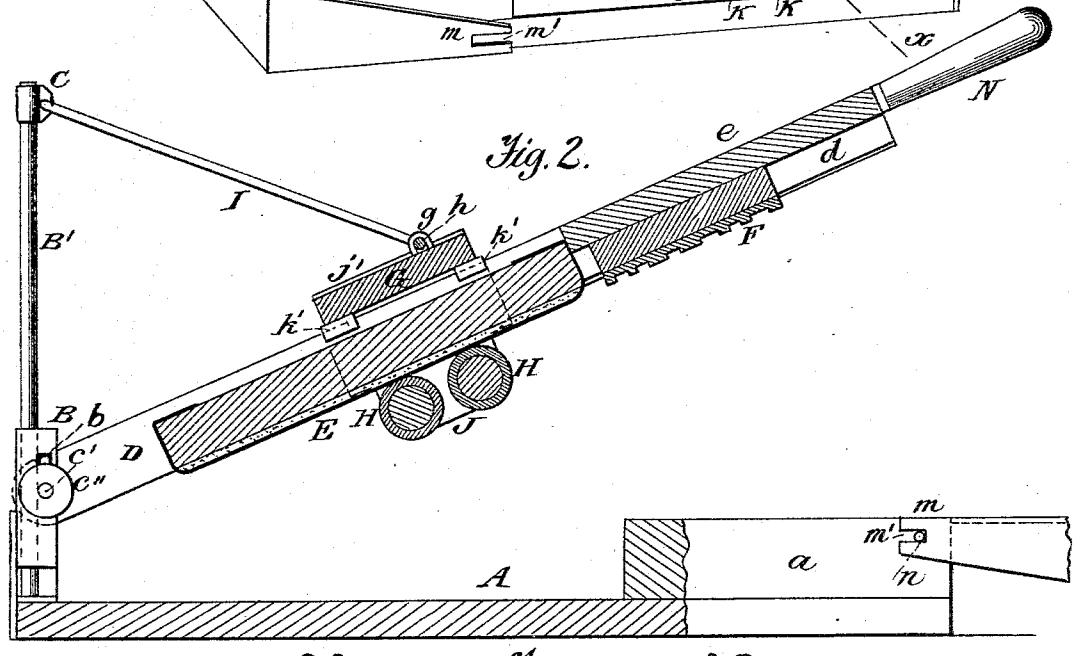
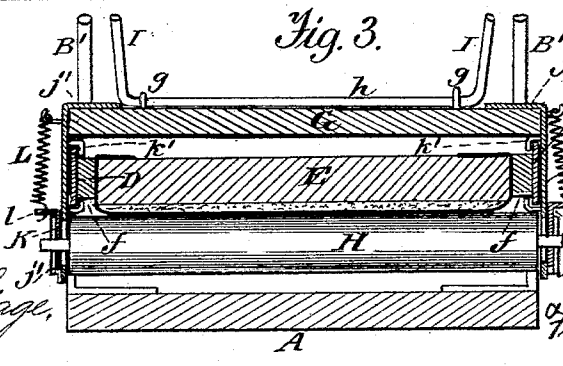


Fig. 3.



Witnesses.
A. Ruppert.
Alfred T. Gage.

Inventor.
William H. H. Clark.
by Franklin H. Hough
Atty

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM H. H. CLARK, OF ST. LOUIS, MISSOURI.

STAMPING-PRESS.

SPECIFICATION forming part of Letters Patent No. 380,423, dated April 3, 1888.

Application filed May 17, 1887. Serial No. 238,553. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. H. CLARK, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Stamping-Presses; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to printing-stamps; and the novelty consists in the peculiar combinations and in the novel construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and specifically defined in the claims.

I provide that the movement of the platen to make the impression shall also cause the inking of the type. I also provide a simple and efficient means for accomplishing this result, providing suitable guides for the inking-rollers over the pad, and for the adjustment of the type-face relative to the printing-table.

The accompanying drawings, which form a part of this specification, clearly illustrate my invention.

In said drawings, Figure 1 is a perspective view of my improved device with the parts in the position they assume when the impression is being taken. Fig. 2 is a side view, partly in section, with the printing and inking devices in the position they assume when the type is being inked. Fig. 3 is a transverse section on the line *x x* of Fig. 1. Fig. 4 is a detail, more particularly hereinafter referred to.

Referring to the details of the drawings, A represents a bed of any suitable material provided at one end with a raised portion, *a*, which forms the printing-bed, where the impression is given. At or near the opposite end I secure the posts B, provided with socket-plates. These posts are suitably braced, as shown, and provided each with a vertical slot, *b*, and in these socket-plates are removably secured the standards B′. The standards may be made removable in any suitable way, preferably by the construction shown, in which, after detaching the bail-piece I, the standard may be readily removed from the socket. By this construction the standard may be readily removed for convenience in packing or when desired for any other purpose. At the upper end of each of these standards I secure a sleeve, C, each formed with a lug or projection, *c*, extending in the longitudinal line of the bed, and provided with an opening. Two parallel supports, preferably as the arms D, are pivotally secured to the standard socket-plates by means of bolts *c′*, passing through the slots therein and through a hole in the end of each of said arms, and provided upon their screw-threaded ends with thumb-nuts *c″*, by means of which the said arms and the type (hereinafter described) carried thereby may be raised or lowered to correct or regulate the impression. Suitably secured between these arms near their inner ends is the inking-pad E, which may be of any approved construction. Between the arms D, at the front end thereof, I secure the guides *d*, in which slides the die or chase F holding the type. This chase is removable, so that it can be readily changed for another when desired, a backing, *e*, being secured between the arms above the guides and chase, as shown in Fig. 1. The arms D extend slightly above and below the inking-pad, guides for the chase and backing therefor, or the said chase may be channeled to form a groove or guide, *f*, the object of which will soon appear.

G is a reciprocating carriage carrying the inking-rolls H. This carriage is provided upon its upper side and near each end with eyes or staples *g*, through which passes the transverse part *h* of the bail-piece I, the ends of which are bent at right angles to the length of the arms of said bail, and these ends are removably engaged in the openings in the lugs *c*, thus forming a pivotal connection between the carriage and the standards or the sleeves thereon.

The rollers are supported upon the carriage in the following manner: J J are plates, one upon each end of said carriage, and as these plates are exactly alike a description of one of them will suffice. The particular construction of this plate is clearly illustrated in Fig. 4, to which attention is directed. The plate comprises in a single element a face part, J′,

from which are stamped the ears or lugs *j*, which form guides for the movable roller-bearings K, the right-angled flange *j'*, by means of which said plate is secured to the carriage, and the guide-flanges *k'*, which are formed by stamping up a portion of said plate, and which flanges embrace the edges of the arms D and work in the guides *f*, above described.

The roller-bearings K are preferably formed each with a right-angled flange, *l*, with which engages one end of the spiral springs L, the opposite ends of which are secured to the carriage or to some convenient point on the plate J.

I sometimes provide the press with what I term a "table-extension," which is designed to hold the paper while printing. It is preferably formed of tin or some similar substance which is light and easily shaped, and is provided with side extensions or ears, *m*, each of which is provided with an open-ended slot, *m'*, which engage suitable pins, *n*, upon the sides of the table or raised portion *a*, as shown in Fig. 2. When not in use or when packed for shipment, this extension is turned bottom side up and slipped under the bed A, as shown in Fig. 1.

Various modifications in detail may be made without departing from the spirit of my invention.

The operation is simple. Type being in place, as shown in Fig. 2, the bars and their attached parts are turned upon their pivots, as shown in Fig. 2, the carriage riding upon said bars passing over the inking-pad, from whence they gather the ink, and in the further elevation of the parts the rollers pass over the type and thoroughly ink the same. The depression of the bars causes the rollers to again pass over the type, more effectually inking the same, and in the further depression of the bars the rollers assume their normal position, and the type is brought into contact with the paper, which in the meantime has been placed upon the table *a*, and the impression is given. The impression is corrected or regulated at will by simply adjusting the pivots of the bars D by means of the construction above described.

A suitable handle, N, should be provided for convenience in operating the device.

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

1. The combination, with the bed and standard socket-plates secured thereto and slotted, as described, of the arms D, carrying the inking-pad and type, and pivoted to and vertically adjustable in the slots of said socket-plates, substantially as and for the purpose described.

2. The combination, with the bed and the standard socket-plates secured thereto, of the standards removably inserted in said socket-plates, a reciprocating carriage carrying the rollers, and a removable pivotal connection between said carriage and standards, substantially as described.

3. The combination, with the bed having raised portion provided with laterally-projecting pins, of a table-extension formed with side flanges provided with open-ended slots engaging said pins, substantially as and for the purpose described.

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

WILLIAM H. H. CLARK.

Witnesses:

LOUISA M. FITZGIBBON,

FREDERICK F. CLARK.