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UNITED STATES PATENT OFFICE.

J. M. JONES, OF PALMYRA, NEW YORK.

HAND PRINTING-PRESS.

Specification of Letters Patent No. 18,907, dated December 22, 1857.

To all whom it may concern:

Be it known that I, J. M. JONES, of Palmyra, in the county of Wayne and State of New York, have invented a new and useful
5 Improvement in Machines for Printing, called a "Self-Inking Printing-Press"; and I do hereby declare that the following is a full and exact description thereof, reference being had to the annexed drawings, making
10 a part of this specification, in which—

Figure 1 is a side, and Fig. 2 an end elevation with the case removed so as to show the internal arrangement of the machine.

The nature of my invention consists in
15 an arrangement by which the form is elevated a sufficient height to admit the ink-roller to pass under and against the face of the type, and then readily brought down to the paper and a powerful impression given.
20 Also hanging in the inkroller by a rod and shaft; the shaft being under the platen in such a manner that in depressing the form, the inkroller is carried forward and against the face of the type. Also in an improved
25 method of suspending the form.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct a metal bed plate or platen A,
30 Figs. 1 and 2, having an elevated face on which the paper is laid, and a curve at the rear end Fig. 1, and a projection Q beneath the face, cast to the plate which supports the shaft E, Figs. 1 and 2.

35 S, S, are set screws passing through the sides of the plate A, and having rounded points setting into sockets in projections T, T, Fig. 2, on the curved bar B.

B is a curved bar of sufficient strength to
40 sustain the entire strain of giving the impression to the paper, having a slot through its rear curve Figs. 1 and 2, through which the shaft E passes.

J, Figs. 1 and 2, is a form bed which
45 holds the type, having an arm on the front side projecting upward, and also two small projections at the center, setting into sockets in the bar B, Fig. 1.

I is a spring the rear end passing through
50 and fast to the bar B. On the front or

upper end is a thread cut on which is a nut, the end passing through the arm U, Fig. 1; the nut L, being to set the form bed J.

E, Figs. 1 and 2, is a shaft to the rear end of which is attached a lever and handle K, 55 held to its place by the nut R, the opposite or front end being bent at nearly a right angle to the shaft as shown at F, Figs. 1 and 2, and having an eye or socket at the end.

G is a connecting link between the eye at 60 F and the bar B.

C, Figs. 1 and 2, is the case.

H, Figs. 1 and 2, is a shaft having bearings in the case C, near one end of which is attached a bent arm D, Figs. 1 and 2, the 65 said arm passing up through the bed-plate A and supporting at its upper end the ink-roller M.

N, Figs. 1 and 2, is a curved arm, one end of which is attached to the shaft H; the 70 other end standing upward, and used for purposes hereafter described.

O, Figs. 1 and 2, is a spring, one end of which is attached to the bed plate A, and the other to a pin V, Fig. 2, which raises 75 and keeps elevated the form and bar B, except when brought down by the handle K.

P, Fig. 1, is a spring, one end of which is attached to the arm N, and the other to the case C; the use of which is to keep the arm 80 D and inkroller M back except when the inkroller is forced forward under the face of the type by the downward movement of the form; the said forward movement of the inkroller being due to the angle at which 85 the form stands to the point of suspension on shaft H.

To operate the machine the paper is laid on the platen A, and the lever is brought down as shown in Fig. 2 which brings in line 90 the arm F, and link G, and brings the form in contact with the paper, the operator having a great purchase at the point of contact.

When the form is depressed and the ink-roller moves forward it would without some 95 mechanism to prevent, roll up on the arm U, to prevent this the curved arm N comes in contact with the arm F, just as the inkroller has passed over the form and carries it forward sufficient to clear the arm U. 100

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

1. The arrangement of the various parts,
5 so that the lever K, can be operated at right
angles to the curved bar B, and inking bar
D, suspended on the shaft H, in the manner,
and for the purposes set forth.

2. Suspending the bed J, on the lever bar
B, in the manner, and for the purposes set 10
forth.

J. M. JONES.

Witnesses:

J. PEDDIE,

THOS. DOUGLASS.