

UNITED STATES PATENT OFFICE.

JAMES S. MOODY, OF CINCINNATI, OHIO, ASSIGNOR TO T. F. RANDOLPH AND J. F. RANDOLPH, OF SAME PLACE.

CARD-PRINTING MACHINE.

Specification of Letters Patent No. 18,795, dated December 1, 1857.

To all whom it may concern:

Be it known that I, JAMES S. MOODY, of the city of Cincinnati, county of Hamilton, and State of Ohio, have invented a new and useful Improvement in Card-Printing Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon and made to form part of this specification.

Similar letters refer to like parts of the improvement.

I am aware of machines or presses having been made for printing cards by hand, and made so as to be self acting in their parts; but their structure has been such as to render them liable to get out of order, owing to defective arrangement of the parts composing the machine.

The nature of my improvement consists in the arrangement of the parts of the machinery, by which the necessary movements of it are rendered certain and effective, and not liable to derangement in supplying the blank cards to the machine, properly distributing and inking the form making the impression and discharging the card from the machine after being printed.

To enable others skilled in the art to make and use my improvement, I will proceed to describe its construction and operation, by referring direct to the accompanying drawings, of which—

Figure 1 represents a side elevation of the machine. Fig. 2 is a longitudinal sectional elevation of the machine. Fig. 3 is a top view of the machine. Fig. 4 is a portion of the machine, showing a spring connected with the external portion of the card box for holding the card to its proper position when being placed between the form and platen of the press. Figs. 5 and 6 are different views of the plate employed to feed the card from the box in between the form and platen.

a, a, represents the base piece of the machine, commonly made of wood to which the frame piece (B, B) are attached as represented, consisting of two standards with a piece B', attached to their top, and made to serve as the platen of the press.

R, R, are levers made to carry the ink rollers *m, m,* and distributing roller (*o*)

and *h,* is a spiral spring, the lower end of which is attached to the base piece *a, a,* and the upper end to the levers R, R, for drawing the ink rollers down on the distributing plate *f,* and form (*d*), which form is placed in the end of the arm (*c*) the lower part of which arm forks out on each side and is furnished with a shaft 10, that works in and between the two uprights at their lower end, and is operated by the lever *h,* which is attached to the shaft 10, at the lower part of the arm *c,* as represented, and by depressing the outer end of the lever which elevates the inner end and the arm *c,* with it, by resting on the fulcrum 13, which causes the arm *c,* to rise vertically, and brings the form (*d*) against the platen B' by having the bearings in which the shaft 10 works in the frame pieces B, B, made oblong, so as to admit of a vertical movement of the arm *c,* sufficient to make the impression or print the card.

J, is a spring one end of which is attached to the lever (*h*) and the other to the arm *c,* for the purpose of drawing the arm *c,* to its proper vertical position before commencing to make the impression, and holding it during the time of making the impression; the plate 12, attached to the form case, will always be drawn against the sides of the uprights B, on each side of the press, which serve as a guide to the movement given to the arm *c,* when making an impression to prevent blurring or otherwise defacing the print by any lateral motion of the form on the end of the arm *c.*

g, represents the blank card case, and provided with a weight *q,* to press the cards down compactly when being fed to the machine, so that the feeding apparatus will more readily take hold of a card.

x, x, are guides attached to the under part of the platen B' between which guides the blank cards are shoved by the plate S, with the action of the rods *y, y,* which rods are attached to the top of the arm *c,* and as the arm is thrown down to ink the form (*d*) the plate S, is drawn forward by the rods *y, y,* with it, and the plate is furnished with projections 14, on its surface on each side that takes hold of the blank card in the case *g,* and forces it under the platen B' and as the blank is being forced under the platen it forces out the card that has been

printed into the duct (*i*) and from thence it is carried off to one side of the machine, the whole being effected by the arrangement of the parts of the machine, and action given to it by the lever (*h*).

n is an angular plate, attached to and projecting out from the end of the arm (*c*) for shoving the feeding plate S, back to force another card under the platen B'', the plate S being provided with an angular piece similar to the one attached to the arm *c*, against which the plate (*n*) strikes in forcing the plate S, back to bring another card under the platen.

v, and *w*, are springs attached to the outside of the card case *g*, and used for guiding the cards from the case under the platen B' and between the guide pieces *x*, *x*, by having the lower ends of the spring *v*, to press lightly on the top of the card as it is being shoved from the card case under the platen B'.

8, is a guard to prevent the feeding plate S from being shoved too far out from under the card case *g*.

For properly holding and adjusting the platen B', the center screws 16, screw into the uprights B, B, as represented in Fig. 1, for holding the platen down while the side screws 17, 17, on each side screw against the top of the frame pieces B, and are em-

ployed in combination with the center screws for adjusting the platen to the form (*d*).

What I claim as my improvement, and desire to secure by Letters Patent, is:—

The arrangement of the arms *c*, when provided with the form *d*, distributing plate *f*, rods (*y*, *y*), feed plate S, duct (*i*) guide plate (12) spring (J) and lever *h*, and these arranged with the levers R, R, and spring (*k*), when said levers are furnished with ink rolls *m*, *m*, and distributing rolls (*o*) and the whole arranged with the vertical oblong openings in the lower part of the frames B, B, in which the shaft 10, works to admit of the arm *c*, being raised vertically to make an impression by pressing down the end of the lever *h*, on the fulcrum (13), and thus elevating the arm *c*, as before stated the whole thus combined, arranged, constructed, and operated as represented in the manner and for the purposes of feeding blank cards to the machine, inking the form, making the impression, and discharging the card from the machine after being printed as specified in the foregoing specification, and represented in the accompanying drawings.

JAMES S. MOODY.

Witnesses:

W. BENSON,
CHARLES H. FOX.