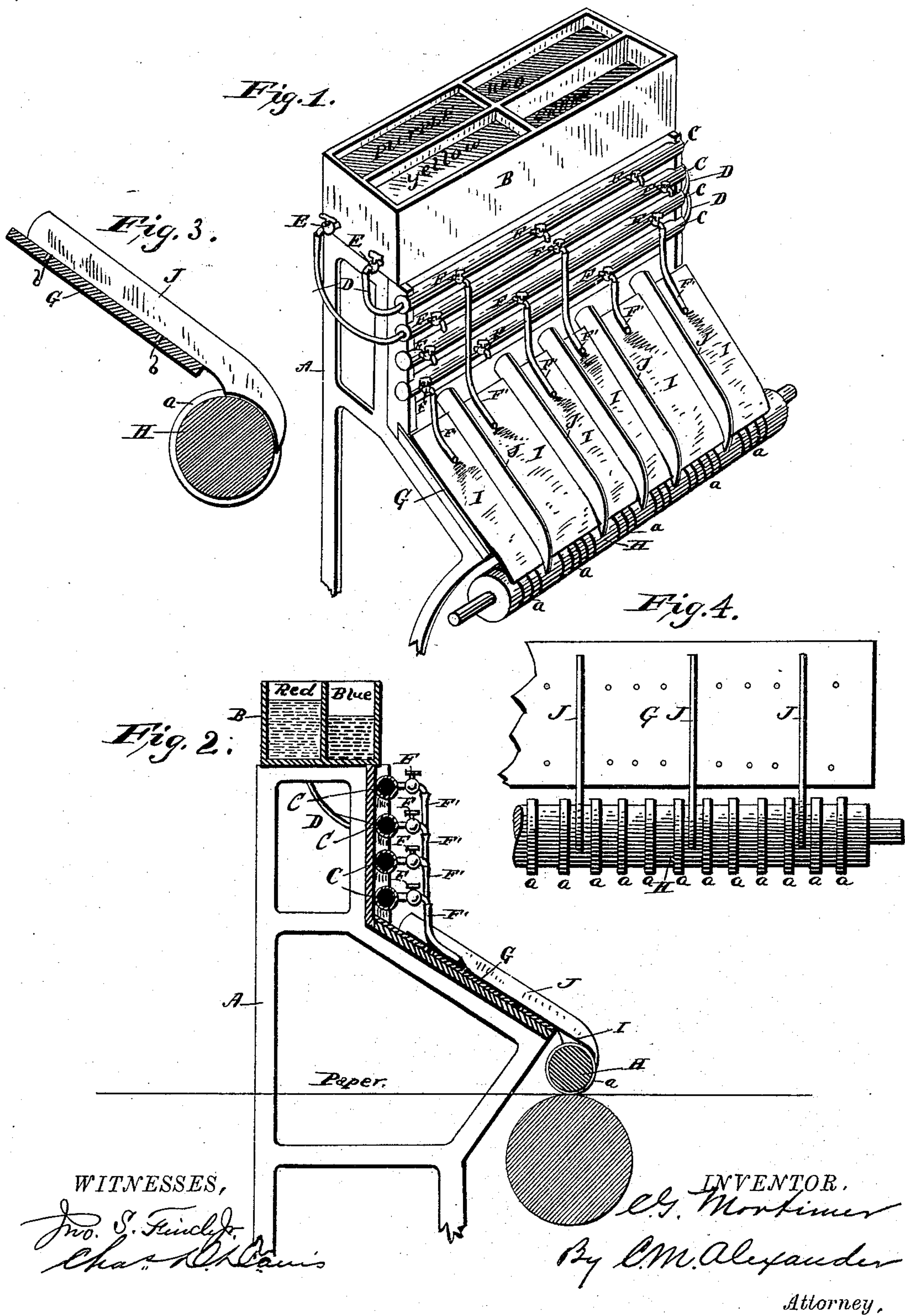


(No Model.)

C. G. MORTIMER.  
MACHINE FOR ORNAMENTING PAPER.

No. 397,091.

Patented Jan. 29, 1889.





# UNITED STATES PATENT OFFICE.

CHARLES G. MORTIMER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO  
GEORGE W. THOMPSON, OF SAME PLACE.

## MACHINE FOR ORNAMENTING PAPER.

SPECIFICATION forming part of Letters Patent No. 397,091, dated January 29, 1889.

Application filed March 23, 1888. Serial No. 268,229. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES G. MORTIMER, a citizen of the United States, residing at New York, in the county of New York and State  
5 of New York, have invented certain new and useful Improvements in Machines for Ornamenting Paper, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention has relation to certain new and useful improvements in machines for ornamenting paper, and it has particular reference to that class of machines covered by Patent No. 368,415, issued to me on the 16th  
15 day of August, 1887, wherein the designs are impressed upon the paper by an impression-roller having a raised yielding surface, the liquid coloring-matter being applied to this roller by an oversetting strip of felt or other  
20 suitable flexible material, which receives the coloring-liquid in regulated quantities from an elevated tank or reservoir and distributes it over the impression-surface of the roller.

This invention is designed to so improve  
25 and adapt the color-feeding devices of the machine that any variety of colors may be imparted to the paper at the same moment and by the employment of but one impression-roller, as will be more fully hereinafter  
30 specified.

Referring to the accompanying drawings, which form a part of this specification, Figure 1 represents a perspective view of the improved devices for feeding the colors to the  
35 impression-roller, the impression-roller being shown also; Fig. 2, a vertical sectional view of the same; Fig. 3, a detail view of the impression-roller, showing one of the adjacent color-separating plates or divisions; and Fig.  
40 4, a detail view of portions of the impression-roller and inclined felt-supporting shelf, showing three of the detachable color-separating plates and the means for adjusting them on the said shelf, the inking-felts being removed.

45 Referring to the drawings by letter, A designates a suitable frame-work for supporting different parts of the apparatus in their proper relative position.

50 B designates a tank or reservoir mounted upon the frame A, and divided off in this in-

stance into four compartments, each one of which is intended to carry a different-colored liquid. Arranged in front of and below this reservoir are a series of tubes, C, (preferably one above the other,) supported upon the  
55 frame of the machine. Each one of these tubes communicates with one of the color-compartments of the reservoir by means of a rubber or other tube, D, the supply of liquid to the tubes being regulated by cocks E, which  
60 communicate with the interior of the compartments. At intervals along these tubes small stop-cocks F are screwed into them, these stop-cocks communicating with the interior of the tubes. Directly below the lower  
65 tube C is placed a forwardly-inclined metallic shelf, G, which is supported upon a suitable wooden shelf beneath it, and extends across the machine in line with the said tubes C. Immediately below and parallel with  
70 the lower front edge of this shelf G is the impression-roller H, which is provided with raised yielding ornamenting-rings *a*, secured to the roller at regular distances apart, as shown and described in my former patent  
75 hereinbefore mentioned. Placed on the said inclined metallic shelf, and extending down over a portion of the surface of the impression-roller, are the inking-felts I, which spread  
80 the color over the surface in proper quantities, so as not to blur the same when it is applied to the paper. The color is supplied to these felts by means of small rubber tubes F', attached to the stop-cocks F in the tubes C, the tubes F' reaching down and resting on  
85 the inking-felts, as shown.

Mounted on the inclined shelf G are the color-separating plates J, which extend down between the ornamenting-rings of the impression-roller, the lower edges of these plates be-  
90 ing rounded or curved, so as to go partially around the roller and come close up to the surface of the same between the ornamenting-rings. These plates J serve to effectually separate the different colors, and thereby pre-  
95 vent them mingling with each other and blending and blurring. One of these plates is placed between the adjacent edges of the felts supplying different colors, each piece of felt being by this arrangement constituted a  
100



separate and distinct inking-pad, supplying its own color to the impression-roller at the same time, but altogether independently of the rest of the pads.

5 In order that the designs may be greatly and readily varied, I make the color-separating plates adjustable upon the shelf G, this being accomplished, preferably, as follows: The plates are provided with pins *b b*, which  
10 set in apertures or recesses formed in the face of the shelf G, there being, preferably, two rows of apertures across the face of the plate, each vertical pair of apertures being preferably in a vertical line with each space be-  
15 tween the ornamenting-rings of the impression-roller. By thus making the plates detachable and adjustable it is evident that with but one roll and one set of apparatus an infinite variety of designs may be imparted to  
20 the paper at the same time and with the same machine. By making the plates readily adjustable upon the shelf it is also evident that the operator may change the design without removing the shelf from the machine. The  
25 designs may be varied, also, by changing the flexible depending ink-supplying tubes *F'* from one felt to another, as is evident. These tubes *F* may also, as is obvious, be changed  
30 from one stop-cock to another, as the exigencies of the case may require or the fancy of the operator dictate.

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

35 1. In a machine for ornamenting paper, the combination of the reservoirs, the distributing-tubes *C*, communicating with the said reservoirs, the stop-cocks in these tubes, the depending tubes attached to these stop-cocks,  
40 the inking-felts and shelf for supporting the same, the color-separating plates supported upon the said shelf, and the impression-roller, substantially as described.

2. The combination of the reservoirs, means for supplying the colors to the inking-felts, the shelf *G*, for supporting the inking-felts, the inking-felts overlapping the impression-roller and applying the colors thereto, the impression-roller having raised ornamenting-

rings on its surface, and the color-separating 50 plates supported upon the said shelf and extending down between the ornamenting-rings upon the impression-roller, substantially as described.

3. The combination of the distributing- 55 tubes *C*, the depending tubes *F'*, communicating therewith and supplying color to the inking-felts, the inking-felts overlapping the impression-roller and applying the color thereto, the supporting-shelf *G*, the impres- 60 sion-roller provided with raised elastic ornamenting-rings, and the color-separating plates supported upon the shelf *G* and extending down in close proximity to the surface of the impression-roller and between the rings there- 65 on, substantially as described.

4. The combination of a shelf, *G*, the impression-roller provided with raised ornamenting-surfaces, the inking-felts overlapping the impression-roller, means for supply- 70 ing the colors to said felts, and the color-separating plates mounted upon the said shelf *G* between the inking-felts and extending down to a point in close proximity to the surface of the impression-roller, substantially as 75 described.

5. The combination of the impression-roller having raised elastic ornamenting-surfaces, the inclined shelf located above the same, the independent inking-felts overlapping the said 80 roller, means for supplying the colors to said felts, and the removable and adjustable color-separating plates inserted between the said inking-felts, whereby the different colors are prevented from blending, substantially as de- 85 scribed.

6. The combination of the impression-roller and the inking-felts, the distributing-tubes *C*, arranged above the said inking-felts, and the depending color-supplying tubes attached 90 to and communicating with the said distributing-tubes *C*, substantially as described.

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

CHARLES G. MORTIMER.

Witnesses:

C. G. VAN GILDER,  
H. K. GAYETTY.