(No Model.)

L. R. ROCKWOOD.

STENCIL INK OR COLOR FOUNTAIN.

No. 292,856. Patented Feb. 5, 1884.

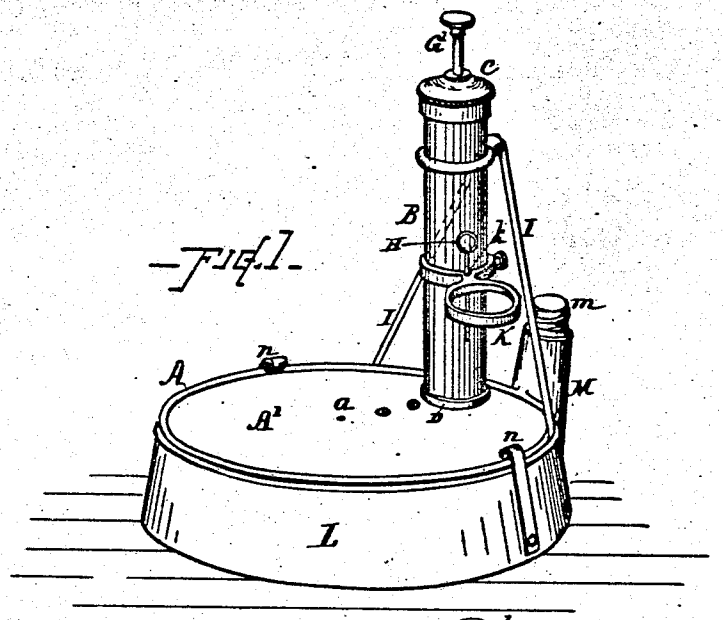


Fig. 1.

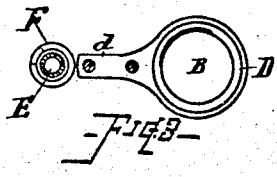


Fig. 3.

Fig. 2.

Witnesses.

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UNITED STATES PATENT OFFICE

LEVI R. ROCKWOOD, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO MASON M. FLINT, OF SAME PLACE.

STENCIL INK OR COLOR FOUNTAIN.

SPECIFICATION forming part of Letters Patent No. 292,856, dated February 5, 1884.

Application filed July 20, 1883. (No model.)

To all whom it may concern:

Be it known that I, LEVI R. ROCKWOOD, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Stencil Ink or Color Fountains; and I declare the following to be a description of my said invention sufficiently full, clear, and exact to enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

The objects of my invention are to provide an efficient fountain for stenciling inks or colors from which the same can be conveniently used, said fountain having a lever device for depressing the top plate for rapidly and positively forcing the ink upon the surface in such quantities as may be required, to afford means for preventing the freezing or congealing of the ink, and also to provide means for admitting air to the interior of the fountain as the ink or coloring material is ejected. These objects I attain by mechanism the nature and construction of which are herein illustrated and explained, the particular subject-matter claimed being hereinafter definitely specified.

In the drawings, Figure 1 is a perspective view of my improved fountain. Fig. 2 is a central vertical section of the same. Fig. 3 is a diagram, showing plan of the re-enforce lever and position of tube for delivering the ink to the surface of palette-plate.

In the drawings, A denotes the reservoir or vessel for containing the ink or color, said vessel—which consists of a circular flat box of sheet-brass or other suitable material—having a crowned flexible top, A′, with an opening, *a*, for the ejectment of the ink from the interior to the top surface thereof at such times and in such quantities as may be required for use. The top A′ serves as a palette, from which the ink or color is taken upon the brush.

At one side, projecting upward from the reservoir, is a hollow column or tube, B, provided with a screw-cap, C, which column serves as a filler for the reservoir, a lever for pumping the ink to the surface of the palette-plate, and as a handle for the apparatus. The foot of the column is rigidly secured to the top plate, A′, it being screwed into or otherwise fastened to a re-enforce piece, D, that is attached to the top plate, A′, and which is furnished with an arm, *d*, extending along the plate A′ toward the orifice *a* in the manner illustrated. A tube, E, is fixed on the under side of the plate A′, communicating with the orifice *a*, and extending nearly down to the bottom plate, A², of the reservoir. A coiled spring, F, is arranged about said tube E, which acts by its expansive force to elevate the central portion of the plate A′. An air-valve, G, to open inward, is arranged through the cap C, for automatically admitting air into the interior, or, by forced depression, to allow the escape of air therefrom. Said valve is furnished with a spindle and knob, G′, projecting above the cap, whereby the valve G can be opened by hand by pressure on the knob for admitting or extracting air when desired to equalize the pressure.

H indicates a wire pin for stopping the orifice *a* when the apparatus is not in use.

K is a ring or holder for the stenciling-brush, attached to the column B, as indicated. Said brush-holder is provided with a recess, *k*, for supporting the wire stopper H when it is removed from the orifice *a*. (See Fig. 1.)

In the operation of the apparatus the ink or color material is forced to the surface of the palette A′ by pressing forward the upper end of the column B, which column, acting as a lever in connection with the re-enforce piece D, effects the depression of the center of the plate A′ and tube E, causing the ink to flow up through the tube E and out upon the palette-surface. By a succession of backward and forward movements of the column B and the resultant flexure or vibrations of the plate A′, the contents of the reservoir A, or any portion thereof, can be pumped upon the surface of the palette in a very rapid and convenient manner.

When desired, or for large-sized apparatus, the column B may be braced or given additional support and backward spring by a wire, I, having a loop at its upper end surrounding the top of the standard, while its lower ends are secured to the reservoir at either side, as illustrated in Fig. 1, the wire being set to give a backward strain at its upper end.

L indicates a bath or additional reservoir, embracing the sides and bottom of the ink-reservoir A, and temporarily or permanently connected therewith in a suitable manner. Said bath L is for containing hot water or spirit, to prevent freezing or congealing of the ink or color in the reservoir A when the apparatus is used in cold and exposed situations. This bath is also of service where it is desired to use an ink or color material in the fountain, which solidifies at ordinary temperatures, and which requires to be liquefied by elevation of temperature before use, or for those inks or colors which require to be used or applied hot to give the desired effective results. The bath L is provided with a filler or tube, M, at one side, which is fitted with a screw cap or stopper, *m*, for closing the orifice.

n n indicate the springs employed in the present instance for confining the bath L to reservoir A. Any other suitable means of attachment may, however, be used, if preferred.

I am aware that devices similar to the tube E and spring F have heretofore been used in combination with a depressible top plate or palette, and I do not therefore herein make claim, broadly, to such arrangement of parts.

What I claim as my of invention, and desire to secure by Letters Patent, is—

1. A stencil ink or color fountain having a reservoir provided with a flexible top plate, in combination with a tube or column projecting therefrom and adapted to be used as a lever for depressing the central portion of said top plate, substantially as and for the purpose hereinbefore set forth.

2. A stencil ink or color fountain having a flexible top plate provided with a delivery-orifice communicating through a tube with the lower part of the reservoir, and a column or tube projecting above said top plate, in combination with a re-enforce piece rigidly attached to said column, and provided with an arm extended along the top plate, to which it is attached, to act in connection with said column as a lever for depressing said top plate, substantially as and for the purpose hereinbefore set forth.

3. In a stencil ink or color fountain, the combination, with the reservoir having the flexible top plate, A′, and the tube or column B, of the re-enforce lever D, attached to and connecting said plate and column, substantially as and for the purpose set forth.

4. In a stencil ink or color fountain, the combination, with the reservoir having depressible top plate, A′, internal tube, E, and tubular column B, adapted for depressing said top plate, as set forth, of the air-valve G, adapted for automatically admitting air to the interior and for preserving the air-pressure therein, substantially as hereinbefore set forth.

5. The stencil ink or color fountain constructed with the palette-surface A′, reservoir A, and tubular column B, arranged as described, and provided with the detachable bath-reservoir L, and means for securing the same to the reservoir A, in the manner shown, and for the purpose set forth.

Witness my hand this 18th day of July, A. D. 1883.

LEVI R. ROCKWOOD.

Witnesses:
CHAS. H. BURLEIGH,
GEO. H. COATES.