I. L. G. Rice,

Color Inking Apparatus.

No. 102,157. Patented. Apr. 19. 1870.

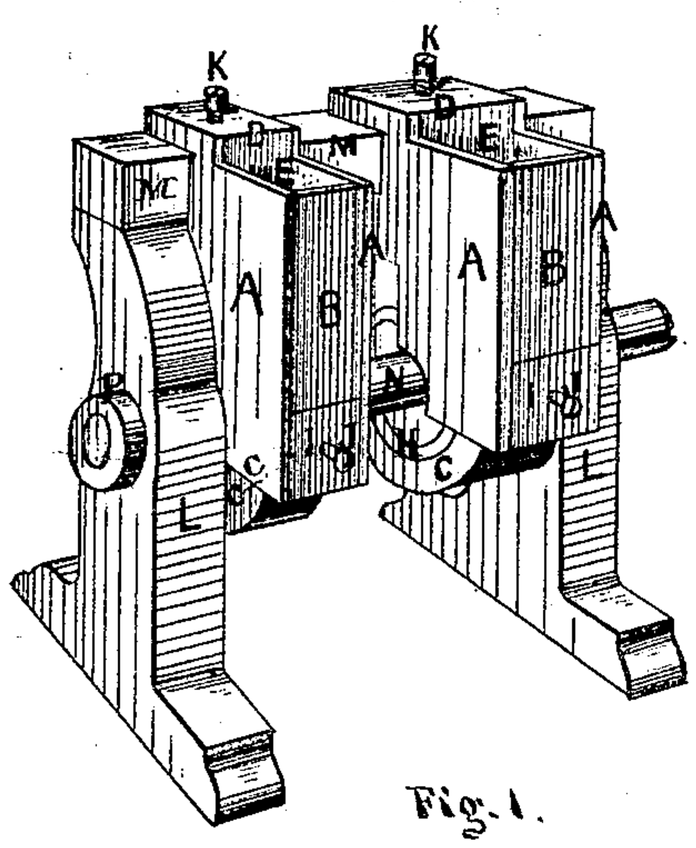

Fig. 1.

Fig. 3.

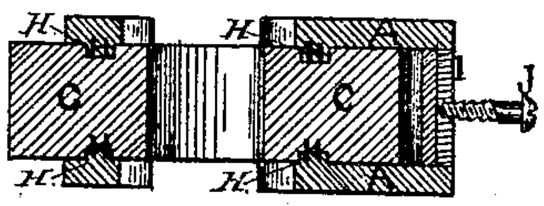

Fig. 3.
Horizontal Section
on x x of
Fig 2.

Fig. 2.

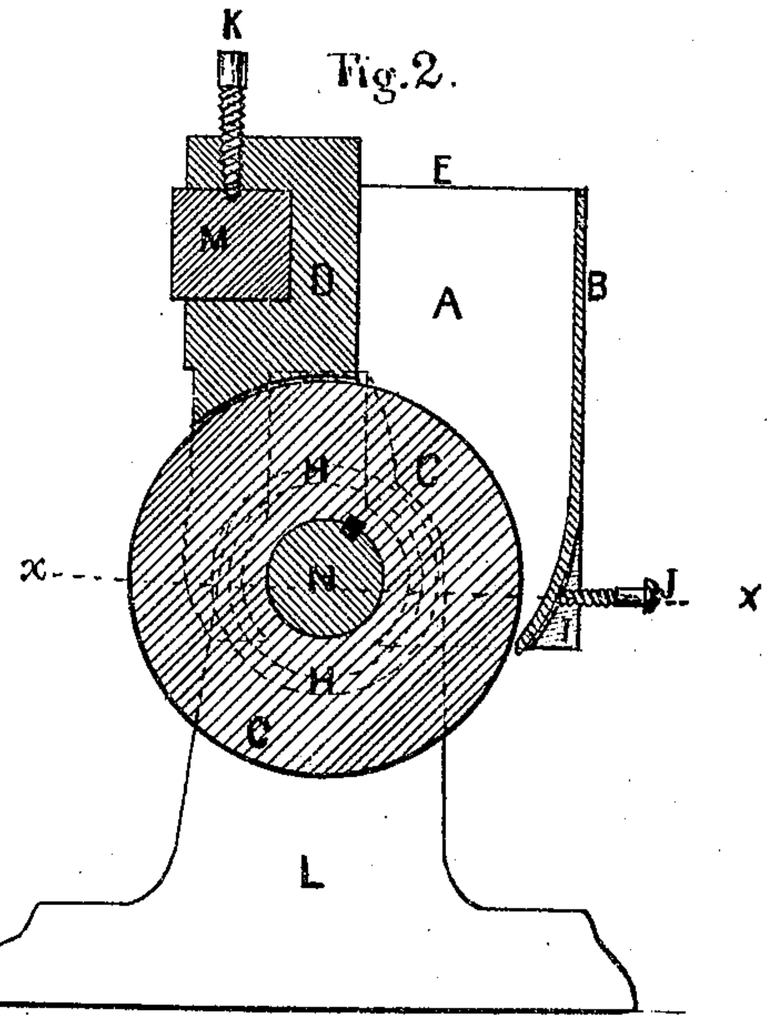

Fig. 2.

Witnesses. { Edward E. Rice
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ISRAEL L. G. RICE, OF CAMBRIDGE, MASSACHUSETTS.

Letters Patent No. 102,157, *dated April* 19, 1870.

IMPROVEMENT IN INKING-APPARATUS FOR COLOR-PRINTING.

The Schedule referred to in these Letters Patent and making part of the same

I, ISRAEL L. G. RICE, of Cambridge, in the county of Middlesex and State of Massachusetts, have invented a certain Improved "Inking-Apparatus" for supplying printing-inks of various colors to inking or distributing-rollers upon printing-presses, by means of which several colors may be printed at one impression, of which the following is a specification.

Nature and Object of the Invention.

My invention consists in furnishing a means by which printing-inks of various colors may be steadily fed to inking or distributing-rollers upon printing-presses, so that several colors may be printed at one impression.

The invention is designed particularly to be used with the "inking-apparatus" for which a patent was granted to me, bearing date of April 20, 1869.

Description of the Accompanying Drawings.

Figure 1 is a perspective view.

Figure 2, a sectional view.

Figure 3, horizontal sectional view.

General Description.

The receptacle or fountain for the ink is made as follows:

A A form two sides, B the front, the roller C the bottom, and the clamp D the back.

The ink is put in at the top, shown at E, and remains in the space inclosed by A A, B, C, and D.

The roller C is held in position by two rings, one on each side, which are fastened to the sides A A, as shown at H, and which are placed in the grooves cut in the roller. These rings serve as guides or bearers to the roller C.

To regulate the quantity of ink to be supplied to the inking or distributing-rollers, I bend the piece B, which is soldered to the two sides A A, round, so that it almost touches the roller C. I then put a screw, J, through the block I, which is between the two sides A A, and turn the screw so that it presses B as near C as may be required.

Through the top of the clamp D, I put a screw, K, so that the fountain may be fastened to the bar M.

The two uprights L L and the bar M form a frame, on which the ink-fountains are to be placed. L L also form bearings for the shaft N. On the shaft N at one end, I place a collar. I also cut a groove, so that, as the shaft N revolves, C turns with it, there being a pin in the roller C fitting in this groove.

To use these fountains, I proceed as follows:

I bolt the two uprights L L upon the press, in position so that the distributing-rollers may come in contact with the rollers C. I then fill my fountains with ink. I use fountains to correspond with the distributing-disks used in the inking-apparatus aforesaid. These fountains are secured in their relative positions by the screw K. The shaft N is then put through the holes in the center of the roller C. The shaft N is then put in motion by means of a ratchet-wheel and lever, which is moved by the carriage of the inking-apparatus referred to above, striking against it, or by a belt, or by any other suitable means, according to the press upon which it is used. As the rollers C turn, the ink adheres to them, and is carried to the inking or distributing-rollers as they come in contact with it.

Claims.

I claim as my invention—

1. A fountain made with a clamp, D, and having a roller with a key, so that the fountain may be readily adjusted to any position on the bar M and shaft N, substantially as and for the purpose set forth.

2. The bar M and shaft N, when used in combination with the fountains described above, substantially as, in the manner, and for the purposes set forth.

ISRAEL L. G. RICE

Witnesses:

ST. CLAIR DENNY,

EDWARD E. RICE.