

E. A. HOWITT.

Inking Attachments for Chromatic Printing.

No. 139,155.

Patented May 20, 1873.

Fig. 1.

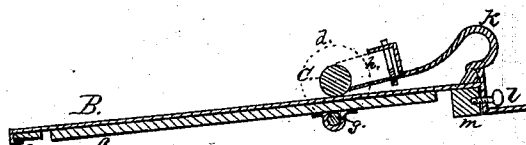
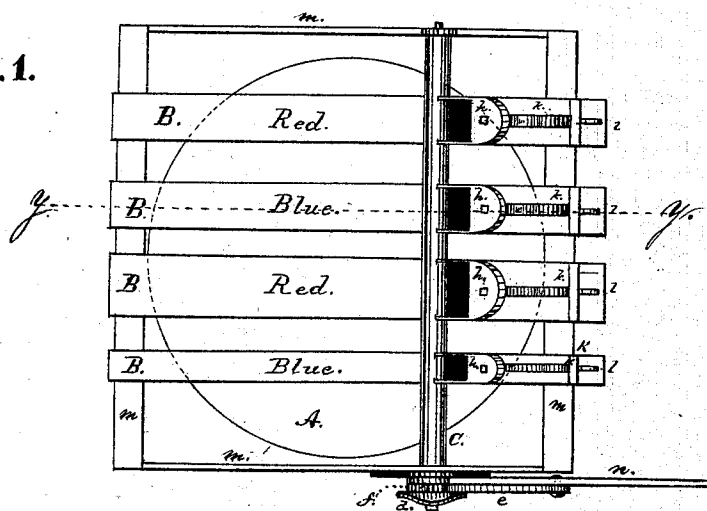


Fig. 2.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

EDWARD A. HOWITT, OF WHITEWATER, WISCONSIN.

## IMPROVEMENT IN INKING ATTACHMENTS FOR CHROMATIC PRINTING.

Specification forming part of Letters Patent No. **139,155**, dated May 20, 1873; application filed April 1, 1873.

*To all whom it may concern:*

Be it known that I, E. A. HOWITT, of White-water, in the county of Walworth and State of Wisconsin, have invented certain Improvements in Inking Devices for Chromatic Printing, of which the following is a specification:

This invention relates to an ink-distributing device for chromatic printing, as is more fully hereinafter set forth.

In the drawing Figure 1 is a top view, and Fig. 2 a longitudinal vertical section.

A represents the oscillating ink-distributing table of a common Gordon or Liberty press, over which the type-rollers reciprocate to be inked. To such a table, or to the frame of a similar press, I attach, in suitable bearings, so that it may have a lateral reciprocating movement, a frame carrying ink-distributing straps B, which have ink-fountains mounted upon their rear ends, and in a bearing in such frame, a fountain-roller, C, which runs in the mouths of the ink-fountains. Each strap is so mounted upon the frame that it may be detached therefrom when a different color is wanted, being held in position for duty by a simple set-screw at its rear end, bearing against the frame as best seen in Fig. 2; or it may be moved laterally thereon when a blending of its color with that of the next one is desired. The fountains are removable from the straps so that the color of a given strap may be changed without removing it from the frame. They may be secured by simple screws, or by dovetailed or similar holders. The fountains partially encircle the fountain-roller, so that, when their straps are moved, they may preserve close contact with said roller. Upon

the end of the fountain-roller I provide a cam which bears upon a suitable projection fixed to the stationary frame of the press, which is actuated in the present instance, by a ratchet and pawl, deriving movement from the working parts of the press, by which the roller is intermittently rotated to supply ink, and the frame intermittently reciprocated to present a constantly changing ink-distributing surface for the type-rollers.

It is obvious that any other arrangement of the devices for reciprocating the frame may be employed without departing from the spirit of my invention, which is to accomplish a reciprocating movement of the ink-distributing straps at each reciprocation of the type-rollers over them.

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

1. A chromatic inking device, consisting of a series of ink-distributing straps, fountains, and ink roller, so combined with a printing press as to have a lateral reciprocating movement, as described.

2. In combination with the series of ink-distributing straps, the series of detachable ink-fountains, as described.

3. The ink-distributing straps and fountains, so constructed as to be independently adjustable, laterally, upon the frame, as described.

E. A. HOWITT.

Witnesses:

JAMES CASSERLY,  
HENRY CASSERLY.