

E. A. HOWITT.

Inking Attachments for Chromatic Printing.

No. 139,155.

Patented May 20, 1873.

Fig. 1.

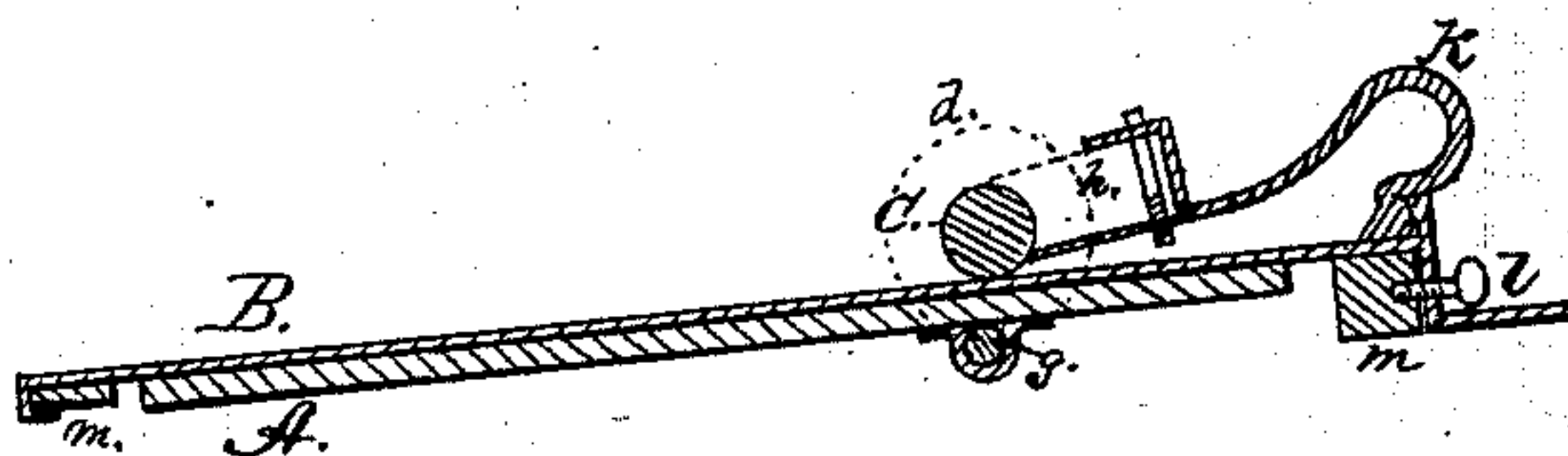
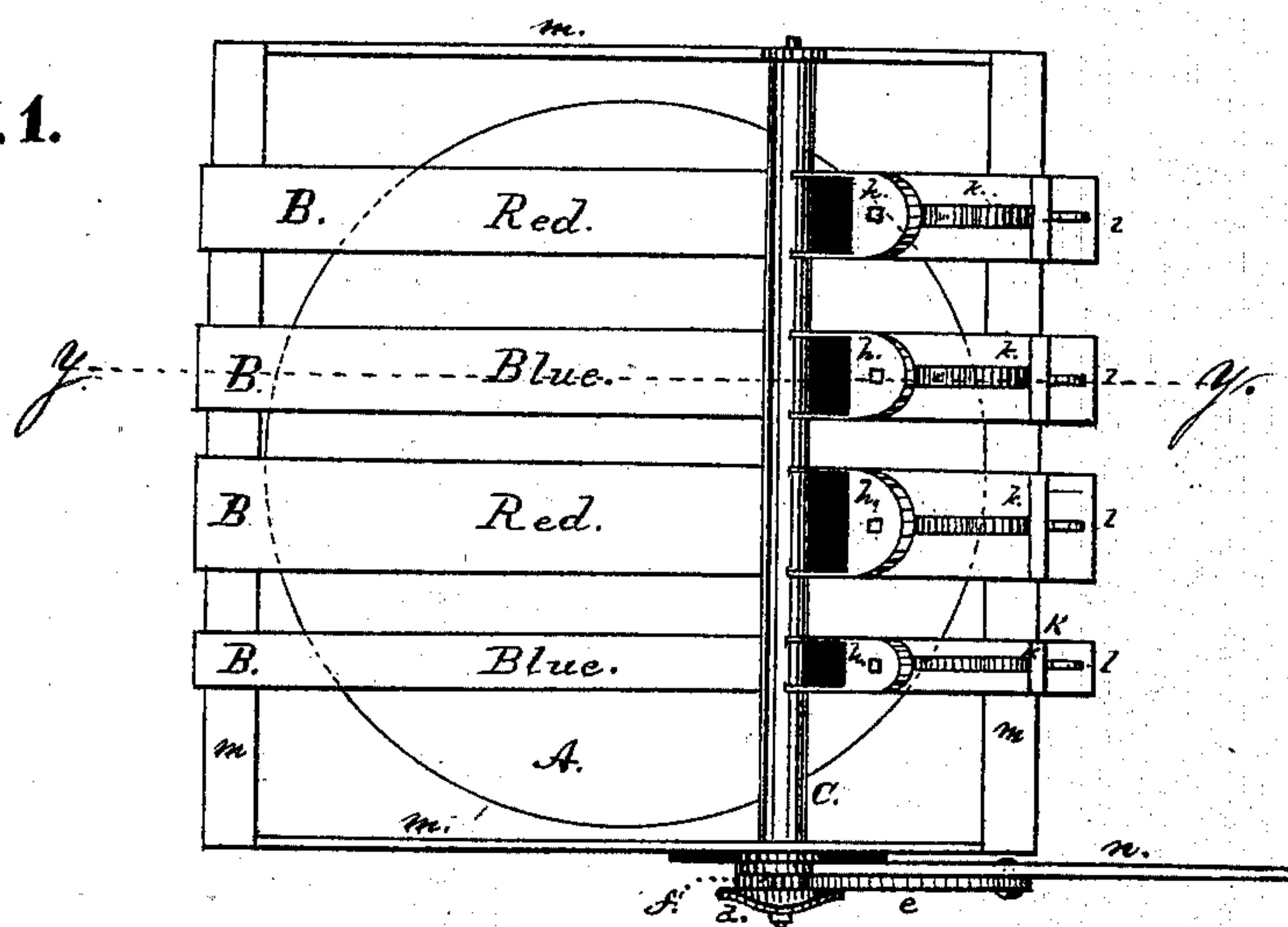


Fig. 2.

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 Whitewater, 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.