



I. L. G. RICE.

Inking Apparatus for Color Printing.

No. 130,822.

Patented Aug. 27, 1875.

Inventor  
*L. G. Rice*

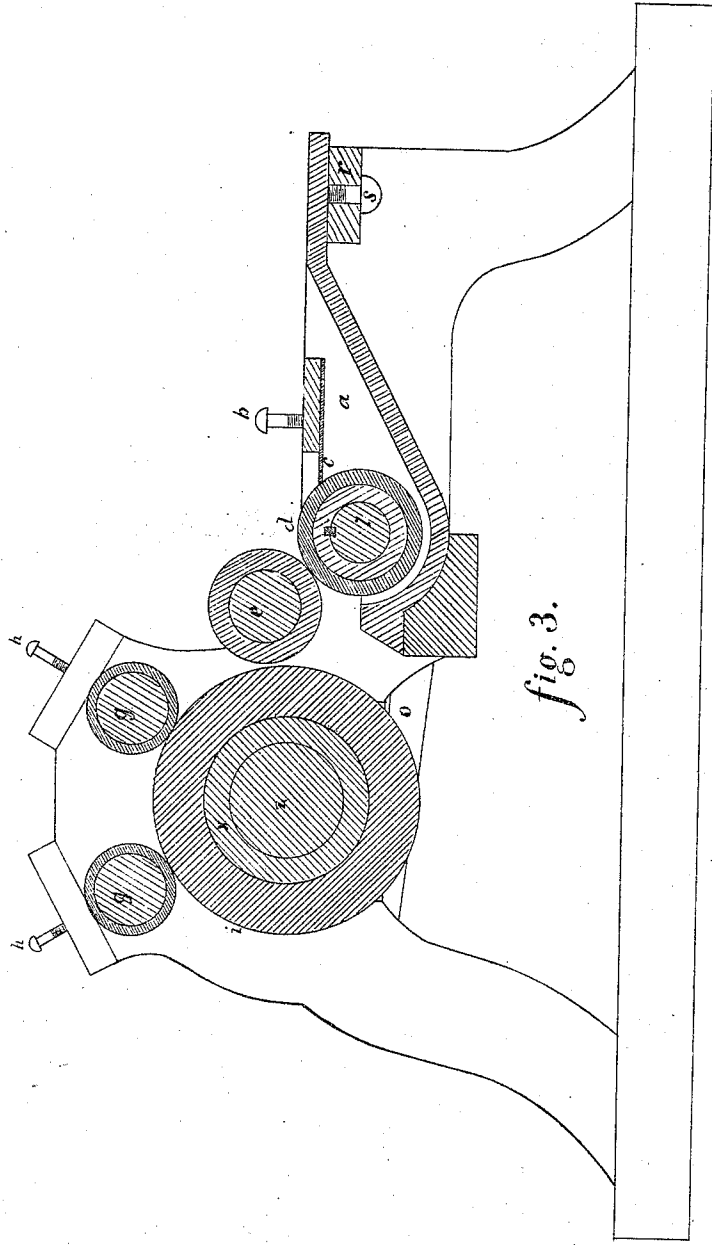


fig. 3.

Witnesses.  
*Charles C. Livenmore*  
*Edwin, et, Baller*

# UNITED STATES PATENT OFFICE.

ISRAEL L. G. RICE, OF CAMBRIDGE, MASSACHUSETTS.

## IMPROVEMENT IN INKING APPARATUS FOR COLOR-PRINTING.

Specification forming part of Letters Patent No. 130,822, dated August 27, 1872.

Specification describing certain Improvements in Inking Apparatus for Color-Printing, invented by ISRAEL L. G. RICE, of Cambridge, county of Middlesex, State of Massachusetts.

My invention relates to sectional ink-fountains of improved shape and construction, by means of which good distribution is easily obtained.

Figure 1 is a plan view of a machine embodying my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a section through the line A B.

*a a* are sectional fountains. *b b* are screws to depress the spring-scraper or fountain-knives *c c*, which removes the superfluous ink from the fountain-rollers *d d*. *e* is a roller that conveys the ink from the fountain-rollers to the sectional distributors *i i*; a reciprocating motion is given this roller by means of the cam *m* and lever *o*. The fountain-rollers in the fountains are placed on the shaft *l*, the opposite end of the fountain resting upon the slotted frame *r*. This frame has a slot, *q*, and through it set-screws *s s* are placed to secure the fountains in their respective situations. The shaft *l* is turned by a ratchet upon it, operated by the arm *p* and cam *n*. The ink, being conveyed by the roller *e* from the fountains to the sectional rollers *i i*, is distributed upon them by the vibrating rollers *g g*, operated by the cam *k*. The sectional rollers *i i* are placed upon the shaft *z* at points corresponding with the form

of type, sectional rollers being used of the same width as the line of type to be put in any particular color; to separate them divisional collars *x x* are used, and, finally, they are secured upon the shaft by the nuts *w w*. *h h* are screws to adjust the distributors *g g*.

This inking apparatus is particularly designed for the cylinder-presses now generally used throughout the country. The inking-rollers that apply the ink to the type being directly below the sectional rollers *i i*, are of course in contact with it. Practically this combination is found to work in such a manner that good work is obtained, and, with reasonable care, there is no admixture of the different colors.

I do not claim as new the use of sectional fountains, they having been invented at least thirty years ago; neither do I claim vibrating rollers for distributing ink; but

What I do claim, and desire to secure by Letters Patent, is—

The combination of the shaft *z* with the sectional collars *x x*, and rollers *i i* with the distributing rollers *g g*, and the reciprocating roller *e*, fountain-rollers *d d*, and the fountains *a a*, substantially in the manner and for the purpose set forth and described.

ISRAEL L. G. RICE.

Witnesses:

CHARLES C. LIVERMORE,  
ELISHA A. BOLLES.