

I. L. G. RICE.

Inking Apparatus for Color Printing.

No. 130,822.

Patented Aug. 27, 1877

fig. 1.

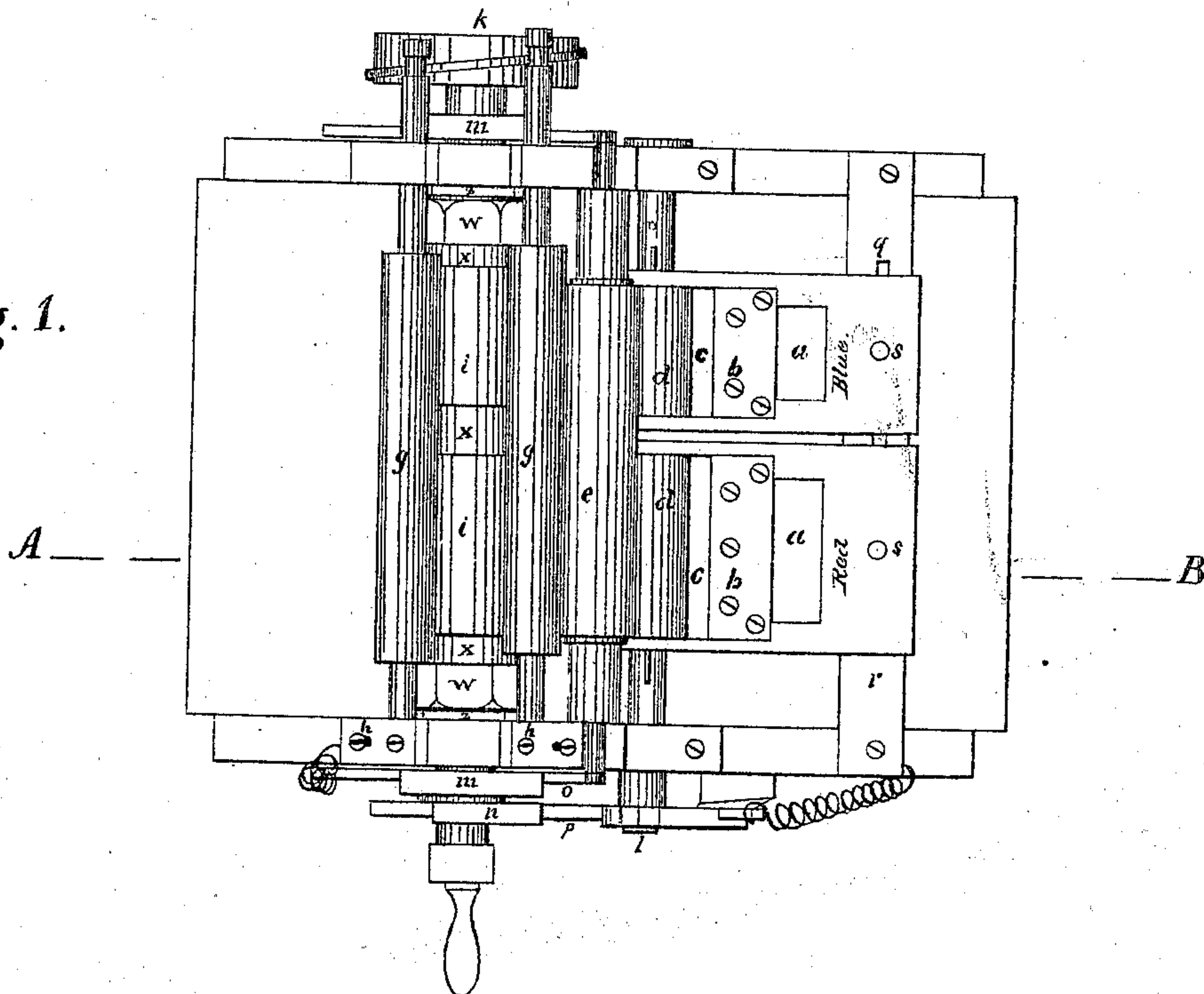
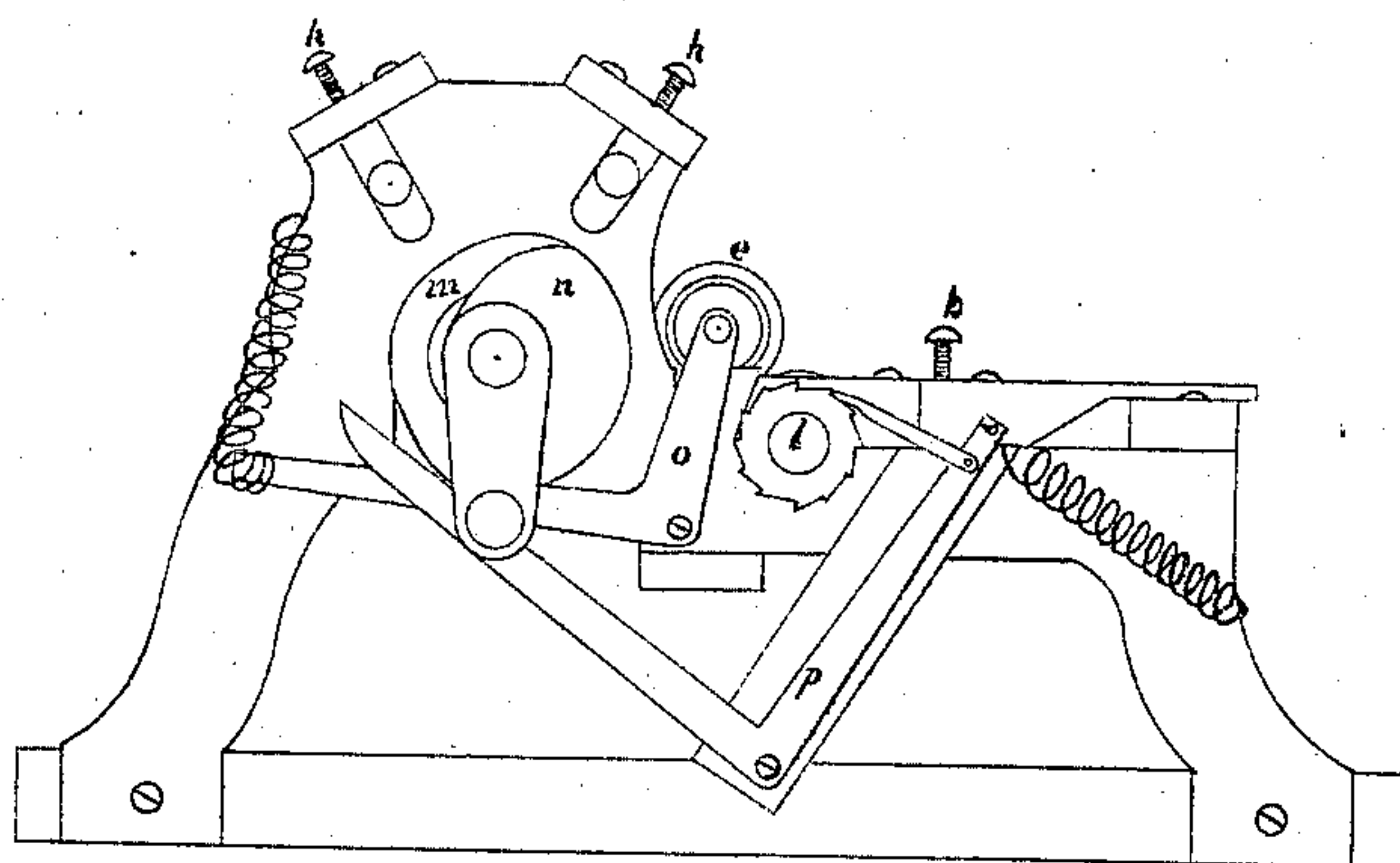


fig. 2.



Witnesses.

Charles C. Livermore  
Elisha A. Baller

Inventor.

Israel L. G. Rice

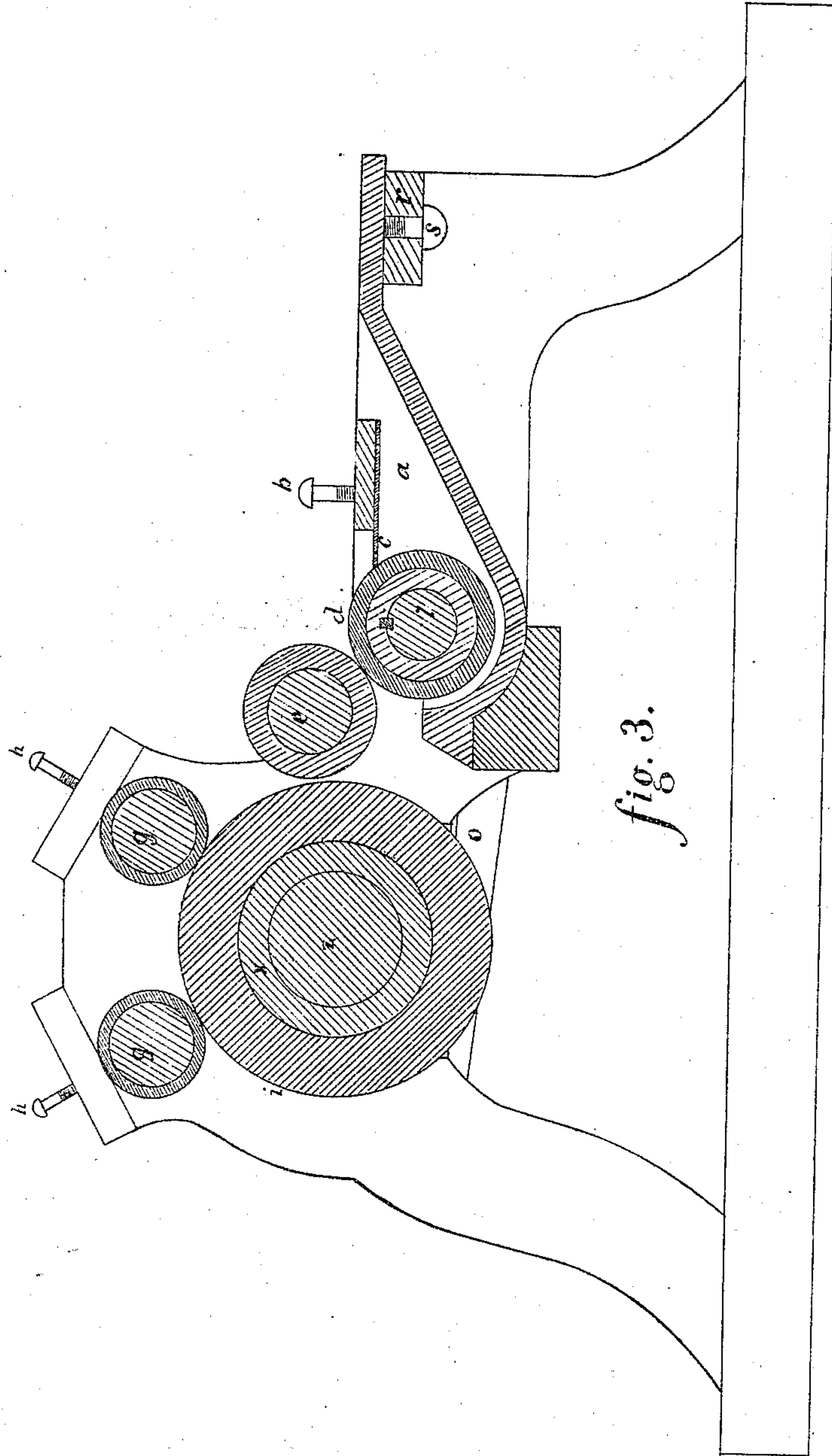
I. L. G. RICE.

Inking Apparatus for Color Printing.

No. 130,822.

Patented Aug. 27, 1885.

Inventor  
*L. G. Rice*



*fig. 3.*

Witnesses.

*Charles C. Linsenmayer*  
*Charles C. Linsenmayer*



# 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, *g*, 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.