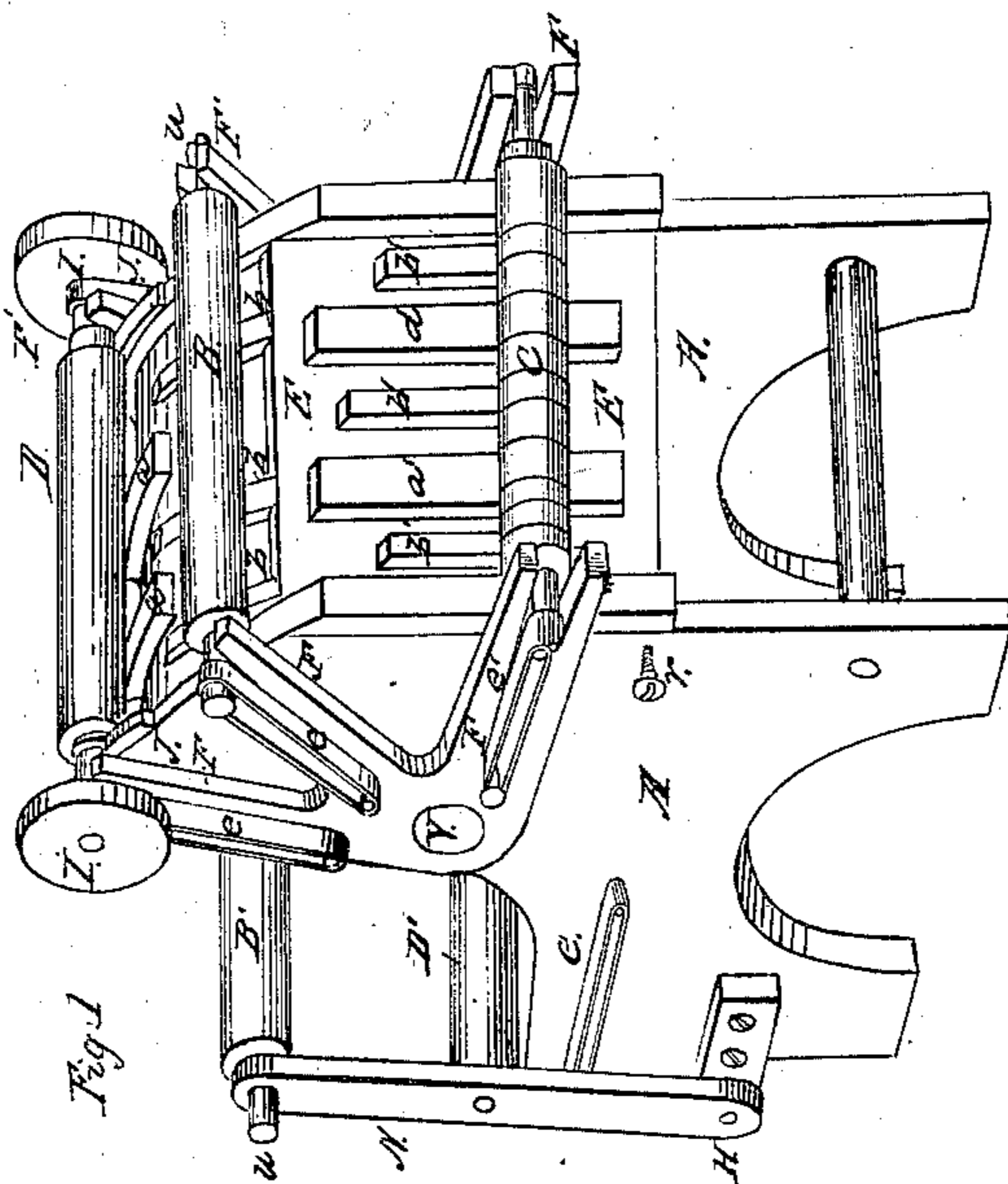
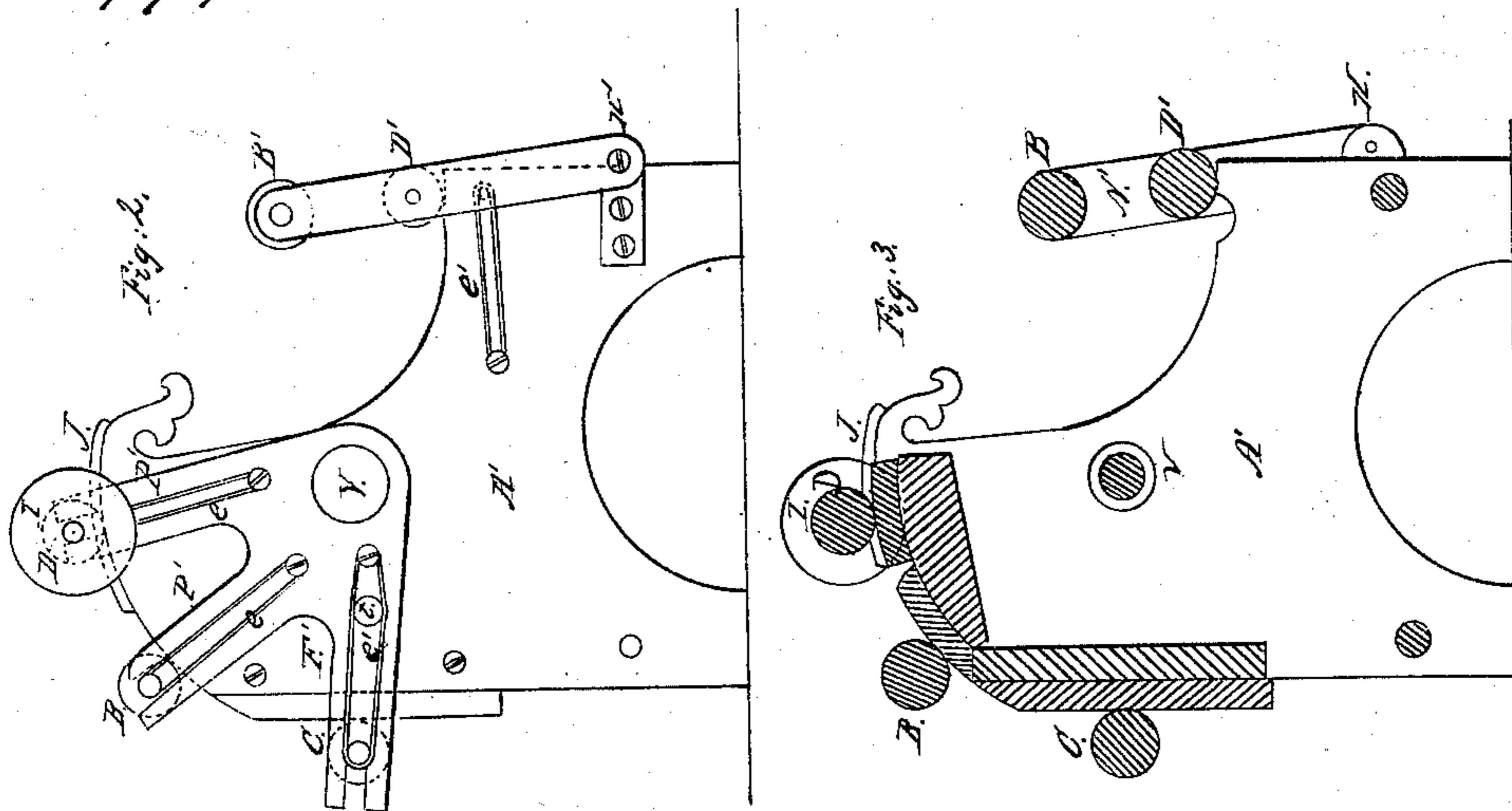


T. L. Baylies.
Inking App's for Printing Press.
N^o 79722. Patented Jul. 7. 1868.



Witnesses
S. E. Hull
H. L. Jones.

Inventor.
T. L. Baylies
By Joseph H. Edge
his atty.

United States Patent Office.

THOMAS L. BAYLIES, OF RICHMOND, INDIANA, ASSIGNOR TO THE AMERICAN PATENT CHROMATIC-PRINTING-PRESS COMPANY.

Letters Patent No. 79,722, dated July 7, 1868.

IMPROVEMENT IN INKING-APPARATUS FOR PRINTING-PRESSES.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, THOMAS L. BAYLIES, of the city of Richmond, and State of Indiana, have invented a new and useful Improvement in Inking-Apparatus for Printing-Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 is a perspective view,

Figure 2 is a side elevation, and

Figure 3 a transverse section.

The same letters in the different figures relate to corresponding parts of the apparatus.

My invention relates to an inking-apparatus for printing in different colors, and consists in a novel arrangement of parts, whereby the supply-rollers attached to oscillating-bars may be moved so as to permit the proper intermediate inking-rollers to be brought into contact with their own peculiar supply-roller, each one receiving its own peculiar color, to be transferred to its own set of color-strips, from which the colors are taken in bands upon a type-inking roller, and transferred to a single form, from which the job is printed at a single impression.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A and A' represent the sides of the structure.

E represents the form, and a' and b' are lines of type.

C is the type-roller, and B and D are inking-rollers.

a and b are color-strips.

The type-roller C and inking-rollers B and D have their bearings in the slotted ends of the two sets of arms, F and F', each set of which arms is connected together, and is secured on the ends of roller V.

e represents rubber bands, by which the rollers C, B, and D are held in their positions (in a flexible manner) in the slots of arms F and F'.

The inking-rollers B and D receive their respective colors from rollers B' and D', between which latter and the color-strips they are made to alternate, thus giving the inking-rollers B and D, and type-roller C, a simultaneous reciprocating motion on roller V, type-roller C, in the operation, being made to alternate over color-strips a and b , and lines of type a' and b' . Thus the colors are transferred to the color-strips by rollers B and D, from which color-strips, type-roller C receives the colors in bands, and inks the lines of type, which latter correspond in position with color-strips of the same color.

The upright bars N and N', in which rollers B and D have their bearings, are pivoted at H and H', and are secured flexibly in a vertical position, resting against the apparatus, by rubber bands e' .

As the inking-rollers B and D are brought down in contact with their respective supply-rollers B' and D', roller D is prevented from coming in contact with roller B' by means of the tripping-collars I and I' striking projections u and u , and thus forcing the bars N and N' and their rollers back until roller D has passed.

Roller B, in its operation, is lifted over color-strips a by means of the elevating-strips J J, thus preventing the mixing of different-colored inks. The roller D, being reduced in diameter opposite to strips J J, is not affected in its motion by the latter.

A handle is situated at t , by which a convenient hold is afforded for operating the inking-rollers.

Two colors only are shown in this example. A greater number may be used by further duplicating the mechanism.

The bed or table on which the color-strips are placed is permanently located in the apparatus of the accompanying example, and is arched so that the position of the color-strips conforms, or nearly so, to the arc described by the inking-rollers in their reciprocating movement.

r and r are stops, for regulating the movement of the type-roller in a downward direction.

The inking-rollers B and D, for the purpose of lateral distribution of ink, may be provided with the ordinary mechanism for giving them a reciprocating motion longitudinally.

The rollers B' and D' are supplied with ink from fountains, or in any manner usually adopted.

Having thus fully described my said invention, what I claim, and desire to secure by Letters Patent, is—

In combination with the oscillating slotted arms F, rollers B C D, springs e, and tripping-collars I I', the rollers B' D', upright bars N, projections u, and spring e', arranged in relation to one another, so as to operate substantially in the manner and for the purpose set forth.

THOMAS L. BAYLIES.

Witnesses:

E. I. SALTER,
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