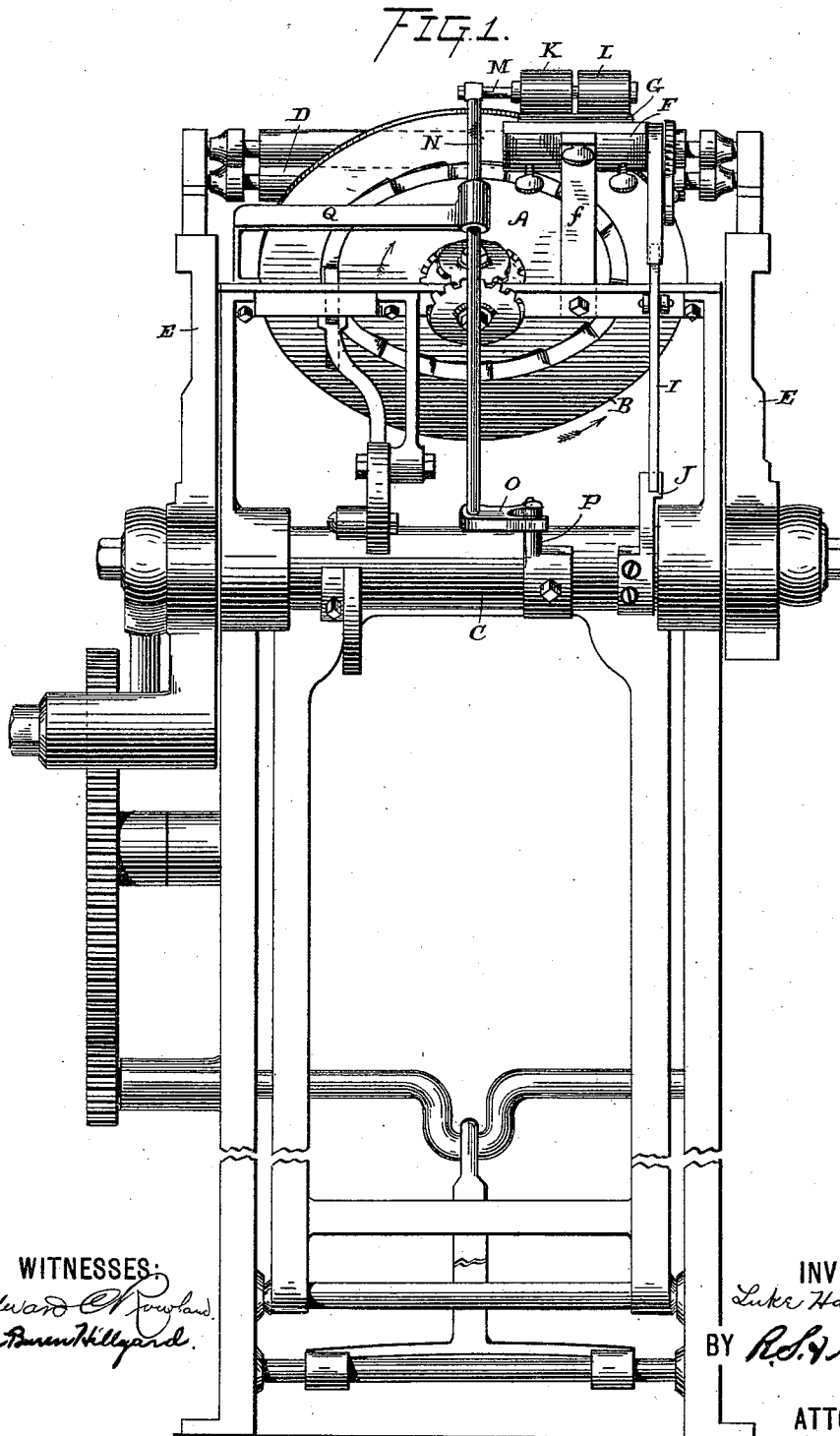


L. HAVILAND.  
INK DISTRIBUTER FOR PRINTING PRESSES.

No. 455,206.

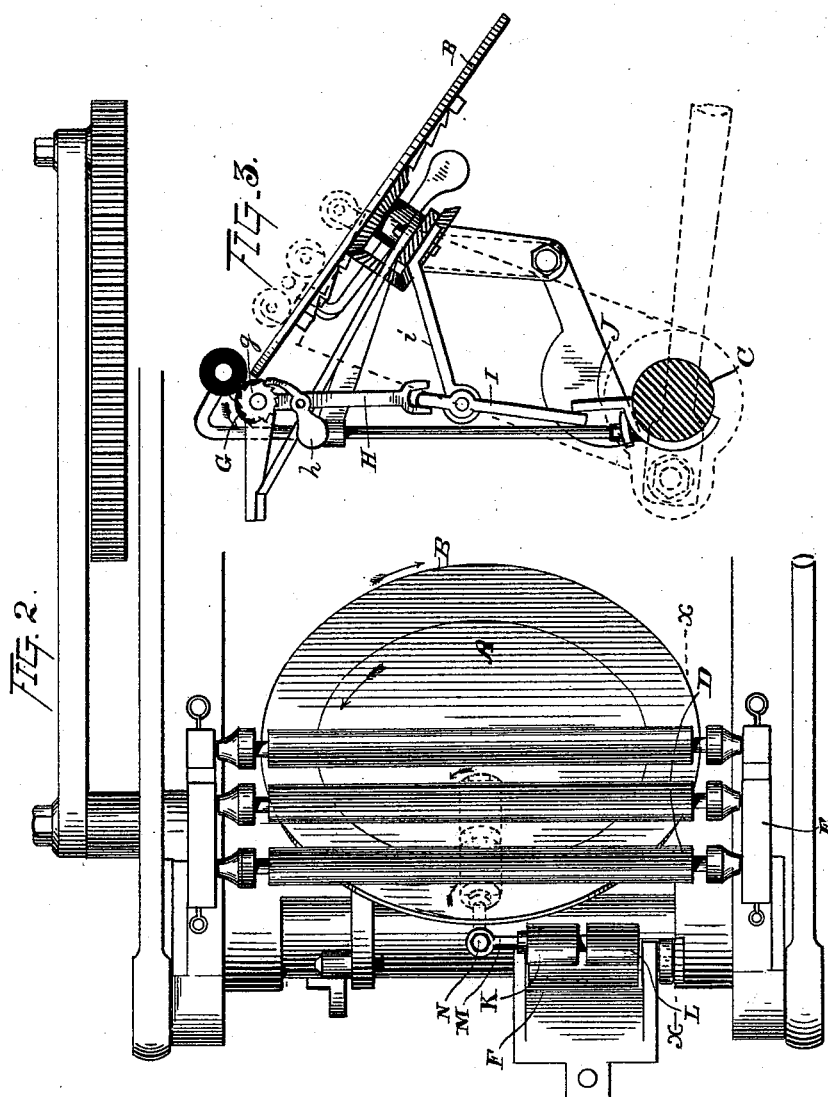
Patented June 30, 1891.



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WITNESSES:

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INVENTOR

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# UNITED STATES PATENT OFFICE.

LUKE HAVILAND, OF RAHWAY, NEW JERSEY.

## INK-DISTRIBUTER FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 455,206, dated June 30, 1891.

Application filed February 26, 1891. Serial No. 382,925. (No model.)

*To all whom it may concern:*

Be it known that I, LUKE HAVILAND, a citizen of the United States, residing at Rahway, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Ink-Distributers for Printing-Presses; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to means for supplying ink to the oppositely-revolving ink-distributing disks of a "Gordon" or other form of printing-press, which is provided with concentric and oppositely-revolving ink-distributing disks.

The purpose of the invention is to supply the ink evenly to the oppositely-revolving ink-distributing disks from a fountain and spread it uniformly over the said disks.

The improvement consists of a series of ink-supplying rollers independently journaled on the same or substantially the same shaft, whereby one roller will distribute the ink on one disk and the other roller will distribute the ink on the other disk, each roller revolving with the disk with which it is in contact.

The improvement also consists in the novel instrumentalities for carrying the said ink-supplying rollers to and from the ink-distributing disks, whereby they may be replenished from a suitable fountain conveniently located to supply the said delivery-rollers.

The improvement further consists of the novel features and the peculiar construction and combination of the parts, which will be hereinafter more fully described and claimed, and which are shown in the annexed drawings, which illustrate the application of the invention to a Gordon press of well-known construction, and in which—

Figure 1 is a rear view of the press, parts being broken away. Fig. 2 is a top plan view of the ink-distributing portion of the press. Fig. 3 is a section on the line X X of Fig. 2, looking away.

The operating parts of the press, including the mechanism for revolving the concentric ink-distributing disks A and B in opposite directions, are old and of well-known construction and arrangement, being identical with

corresponding parts, as seen in a Gordon press of general construction. The ink-distributing rollers D are mounted in the carrier-arms E 55 E, which are secured to the main shaft C. The fountain F is secured on the arm *f*, which is projected from the frame of the press in the usual manner. The supply-roller G is provided on its journal with the ratchet-wheel 60 *g*. The pawl *h*, carried by the lever H, which is pivoted on a cross-bar of the frame, engages with the ratchet-wheel *g* and operates the same in the working of the press. The lever I, pivoted to a bracket *i*, which is extended 65 from the frame of the press, has its upper end in engagement with the lever H and its lower end projected within the path of a tappet J on the main shaft C, to be actuated thereby to rotate the supply-roller through lever H, 70 pawl *h*, and ratchet-wheel *g*. The ink-supplying rollers K and L are independently journaled on the arm M, which is secured to the rock-shaft N, which is journaled in the bracket Q. The arm O on the rock-shaft is en- 75 gaged by the projection P on the main shaft C, and is operated thereby, carrying the ink-supplying rollers K and L to and from the distributing-disks A and B. The several parts are so disposed that the delivery-rollers 80 will be traveling on the disks A and B while the rollers D are off the same, and when the rollers D are on the said disks A and B the rollers K and L will be replenishing at the fountain. The shaft N is actuated quickly to 85 carry the rollers K and L to and from the disks A and B, so that they will not drag on the said disks.

The dotted lines in Fig. 2 show the relative position of the rollers K and L to the disks 90 when at the limit of motion in one direction. Inasmuch as the disks A and B revolve in opposite directions, it will be seen that the rollers K and L will also revolve in reverse directions when supplying and distributing ink 95 to the said disks.

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

1. In a printing-press, the combination, with 100 a series of oppositely-revolving concentric ink-distributing disks, of a series of ink-supplying rollers independently mounted on substantially the same shaft and adapted to ro-

tate in contact with said disks in opposite directions, substantially as and for the purpose described.

- 5 2. The combination, with the oppositely-revolving concentric ink-distributing disks and a fountain, of a rock-shaft provided with an arm, ink-supplying rollers independently mounted on the said arm, and mechanism for actuating the said rock-shaft to carry the said

ink-supplying rollers to and from the fountain and the said disks, substantially as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

LUKE HAVILAND.

Witnesses:

E. B. CLAY,

CHAS. E. REED.