(No Model.) 2 Sheets—Sheet 1.

C. B. MAXSON.

SHEET DELIVERY FOR PRINTING PRESSES.

No. 458,059. Patented Aug. 18, 1891.

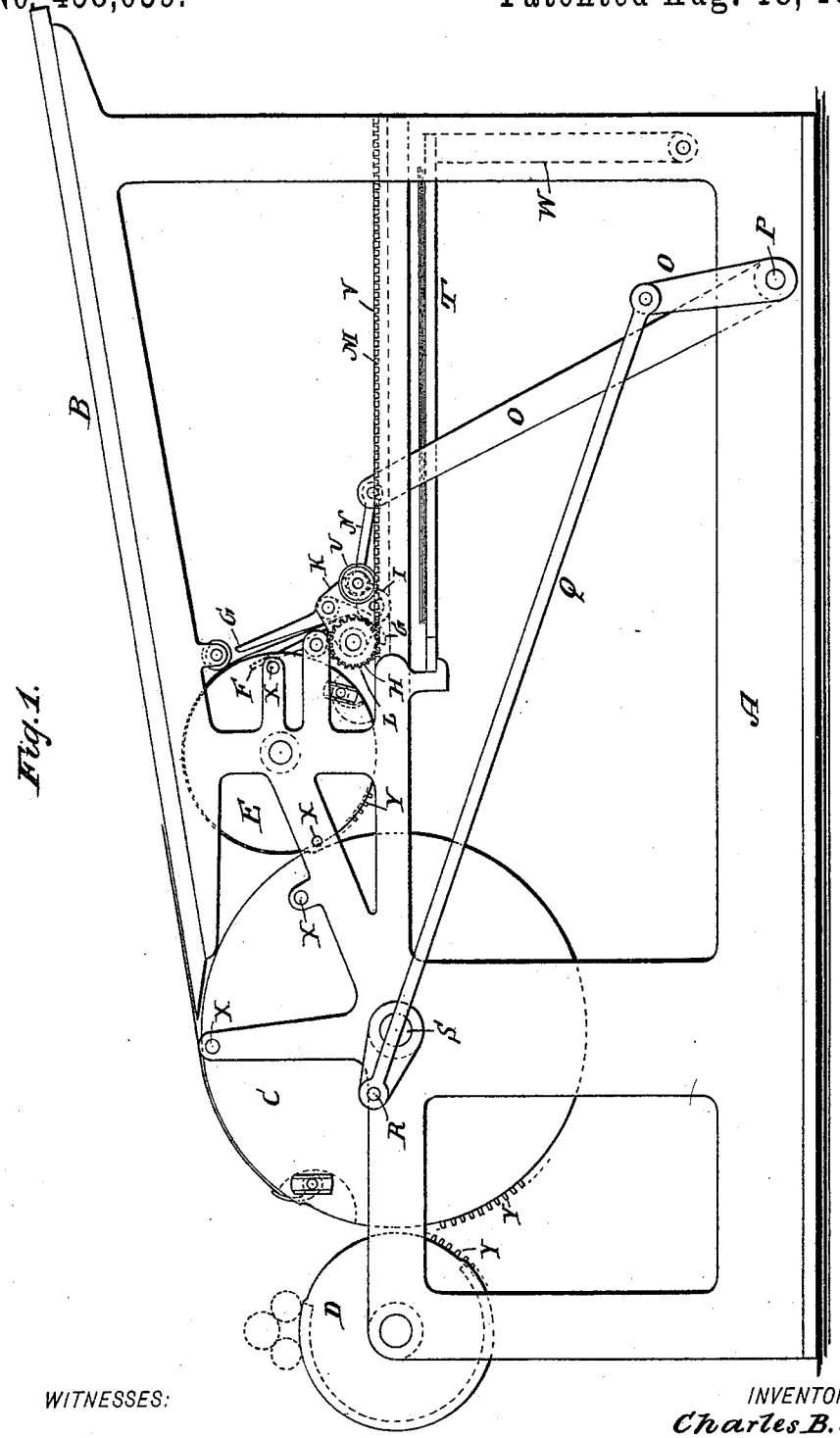


Fig. 1.

WITNESSES:

Edward Wolff.

William Miller

INVENTOR:

Charles B. Maxson.

BY

Van Santvoord & Hauff,

ATTORNEYS

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

(No Model.) 2 Sheets—Sheet 2.

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SHEET DELIVERY FOR PRINTING PRESSES.

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Fig. 2.

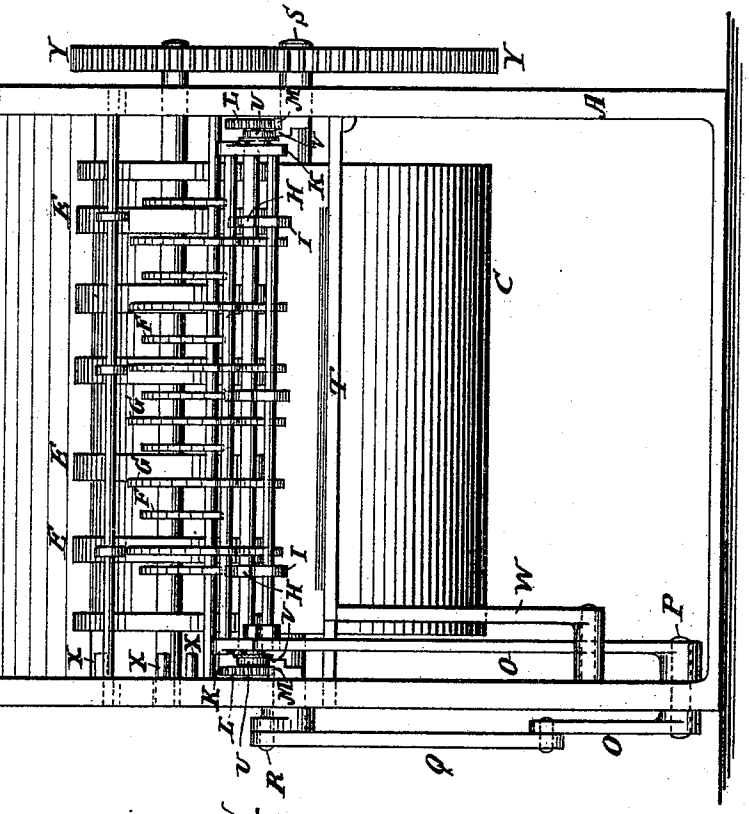
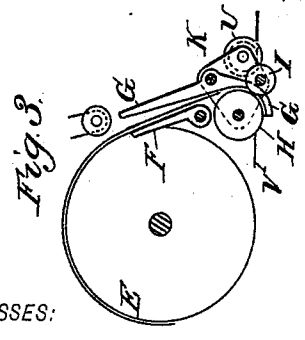


Fig. 3.



WITNESSES:

Edward Wolff.
William Miller

INVENTOR:
Charles B. Maxson
BY
Van Santvoord & Hauff
ATTORNEYS

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES B. MAXSON, OF WESTERLY, RHODE ISLAND.

SHEET-DELIVERY FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 458,059, dated August 18, 1891.

Application filed May 2, 1891. Serial No. 391,392. (No model.)

To all whom it may concern:

Be it known that I, CHARLES B. MAXSON, a citizen of the United States, residing at Westerly, in the county of Washington and State of Rhode Island, have invented new and useful Improvements in Sheet-Delivery for Printing-Presses, of which the following is a specification.

This invention relates to an improvement in sheet-delivery for printing-presses; and the invention consists in the details of construction set forth in the following specification and claims, and illustrated in the annexed drawings, in which—

Figure 1 is a side elevation of the sheet-delivery. Fig. 2 is a rear view of Fig. 1; and Fig. 3 is a detail sectional view taken on the line *x x*, Fig. 2.

In the drawings, the letter A indicates the frame of the machine, having a feed-board B, from which the sheets are fed to the impression-cylinder C to be printed by the type-bed D. The printed sheet is taken off the impression-cylinder by the delivery-cylinder E, and said sheet passes thence between the fingers F G, by which it is guided between the delivery-rollers H I.

The cylinder E and rollers H I are each shown in the drawings, Fig. 2, as consisting of a series of disks. The fingers G extend partly about roller H. The shafts of rollers H I are mounted in a frame K, and the shaft of roller H has gear-wheels L, traveling along racks M.

A link N connects the frame K with an arm of lever O O, fulcrumed at P, and connected by link Q with a crank or pin R on the shaft S of the impression-cylinder. When a sheet is fed between the fingers F G and the edge of the paper enters between rollers H I and said rollers are moved away from the cylinder E, the roller H is rotated by the gear-wheels L, and the roller I is rotated by frictional contact with the roller H, so that the sheet is fed out between rollers H I and transferred onto the receiving-table T.

The frame K has guide-rollers U, suitably flanged to travel and remain on the tracks V. One corner of the table T is held up by arm W. This arm supports one corner of the table and at the same time allows room and free swing to lever O O.

The pins X trip the grippers on cylinders C E and the gears Y transfer motion between said cylinders and between the impression-cylinder and the type-bed.

The delivery-rollers H I, it is noticed, are moved positively back and forth, and the motion of said delivery-rollers is independent from the motion of the delivery-cylinder E, said cylinder having a rotary motion, while the rollers H I travel back and forth. It will be noticed that the guide-fingers F alone would guide or slide the sheet in between rollers H I, but it is preferable to have two sets of fingers F G.

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

1. The combination, with an impression-cylinder, a delivery-cylinder, and a receiving-table, of horizontally-reciprocating delivery-rollers for receiving the printed sheet from the delivery-cylinder and transferring it to the table, a suitable track or way for said delivery-rollers, means, substantially as described, for reciprocating the delivery-rollers, and guiding means, substantially as described, for guiding the sheet from the delivery-cylinder to the delivery-rollers, substantially as described.

2. The combination, with an impression-cylinder, a delivery-cylinder, and a receiving-table, of horizontally-reciprocating delivery-rollers for receiving the printed sheet from the delivery-cylinder and transferring it to the table, means, substantially as described, for reciprocating the delivery-rollers, and guide-fingers for guiding the sheet from the delivery-cylinder to the delivery-rollers, substantially as described.

3. The combination, with an impression-cylinder, a delivery-cylinder, and a receiving-table, of horizontally-reciprocating delivery-rollers for receiving the printed sheet from the delivery-cylinder and transferring it to the table, guiding means, substantially as described, for guiding the sheet from the delivery-cylinder to the delivery-rollers, and mechanism, substantially as described, for positively moving the delivery-rollers back and forth, substantially as described.

4. The combination, with an impression-cylinder, a delivery-cylinder, and a receiving-table, of delivery-rollers for receiving the printed sheet from the delivery-cylinder and

transferring it to the table, a guide F, and guide-fingers made to extend from the delivery-cylinder partly about one of the delivery-rollers for guiding the sheet from said delivery-cylinder to said delivery-rollers, substantially as described.

5. The combination, with an impression-cylinder, a delivery-cylinder, and a receiving-table horizontally reciprocating, of delivery-rollers for receiving the printed sheet from the delivery-cylinder and transferring it to the table, and mechanism, substantially as described, for rotating the delivery-rollers independently of the delivery-cylinder, substantially as described.

6. The combination, with an impression-cylinder, a delivery-cylinder, and a receiving-table, of delivery-rollers for receiving the printed sheet from the delivery-cylinder and transferring it to the table, one of said delivery-rollers being provided with a gear-wheel, and a rack upon which said gear-wheel travels, guiding means, substantially as described, for passing the sheet from the delivery-cylinder to the delivery-rollers, and means, substantially as described, for traversing the delivery-rollers, substantially as described.

7. The combination, with an impression-cylinder, a delivery-cylinder, and a receiving-table, of delivery-rollers for receiving the printed sheet from the delivery-cylinder and transferring it to the table, guide-rollers for said delivery-rollers, and suitable tracks for the guide-rollers, guiding means, substantially as described, for passing the sheet from the delivery-cylinder to the delivery-rollers, and means, substantially as described, for traversing the delivery-rollers, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

CHARLES B. MAXSON.

Witnesses:
WILLIAM C. HAUFF,
E. F. KASTENHUBER.