

No. 782,341.

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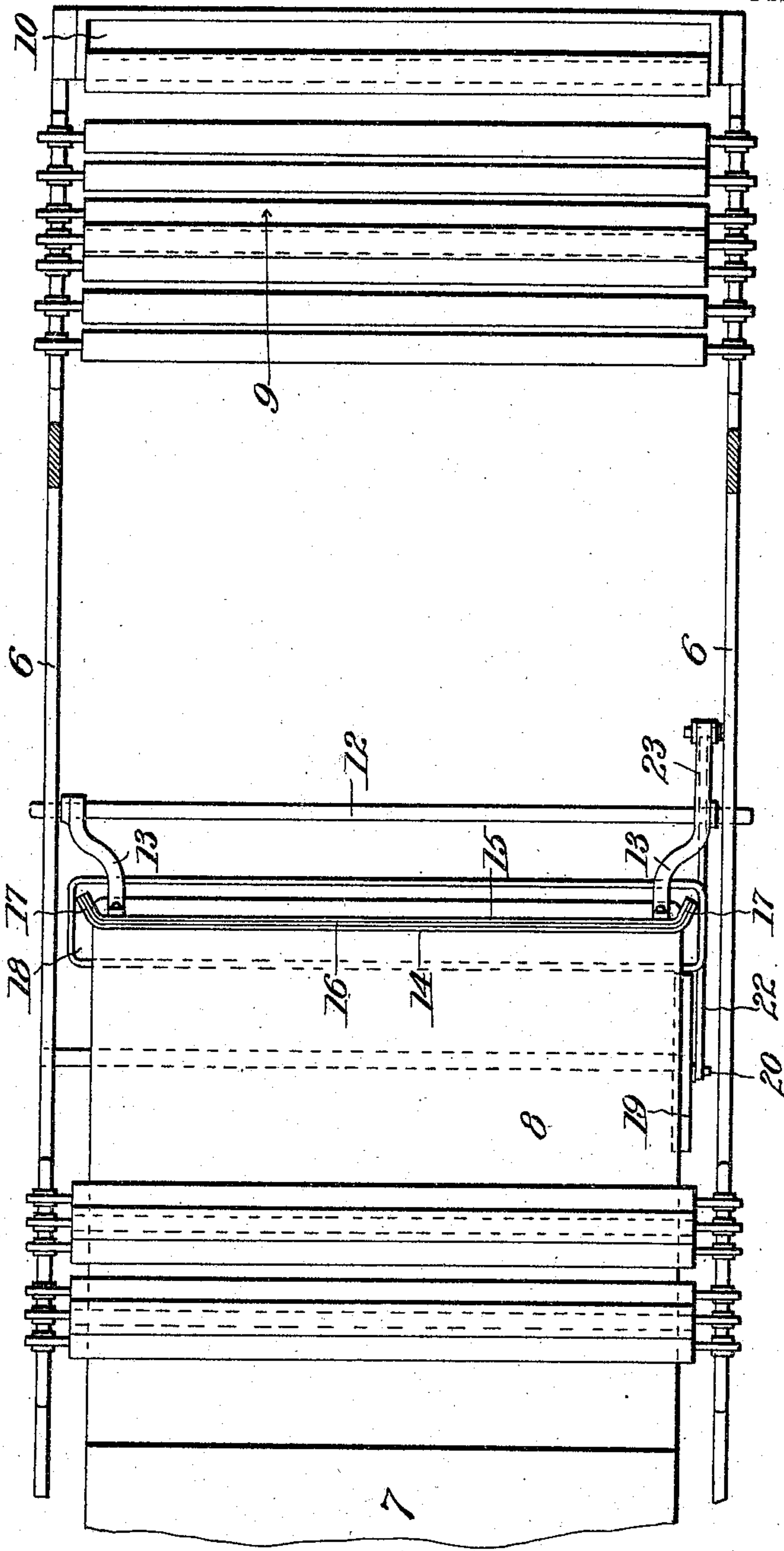
F. JOHNSON.

DEVICE FOR CLEANING THE INKING ROLLERS AND INK PLATES OF CYLINDER
PRINTING PRESSES.

APPLICATION FILED APR. 1, 1904.

2 SHEETS—SHEET 1.

Fig. 1.



WITNESSES:

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Geo. E. Tew

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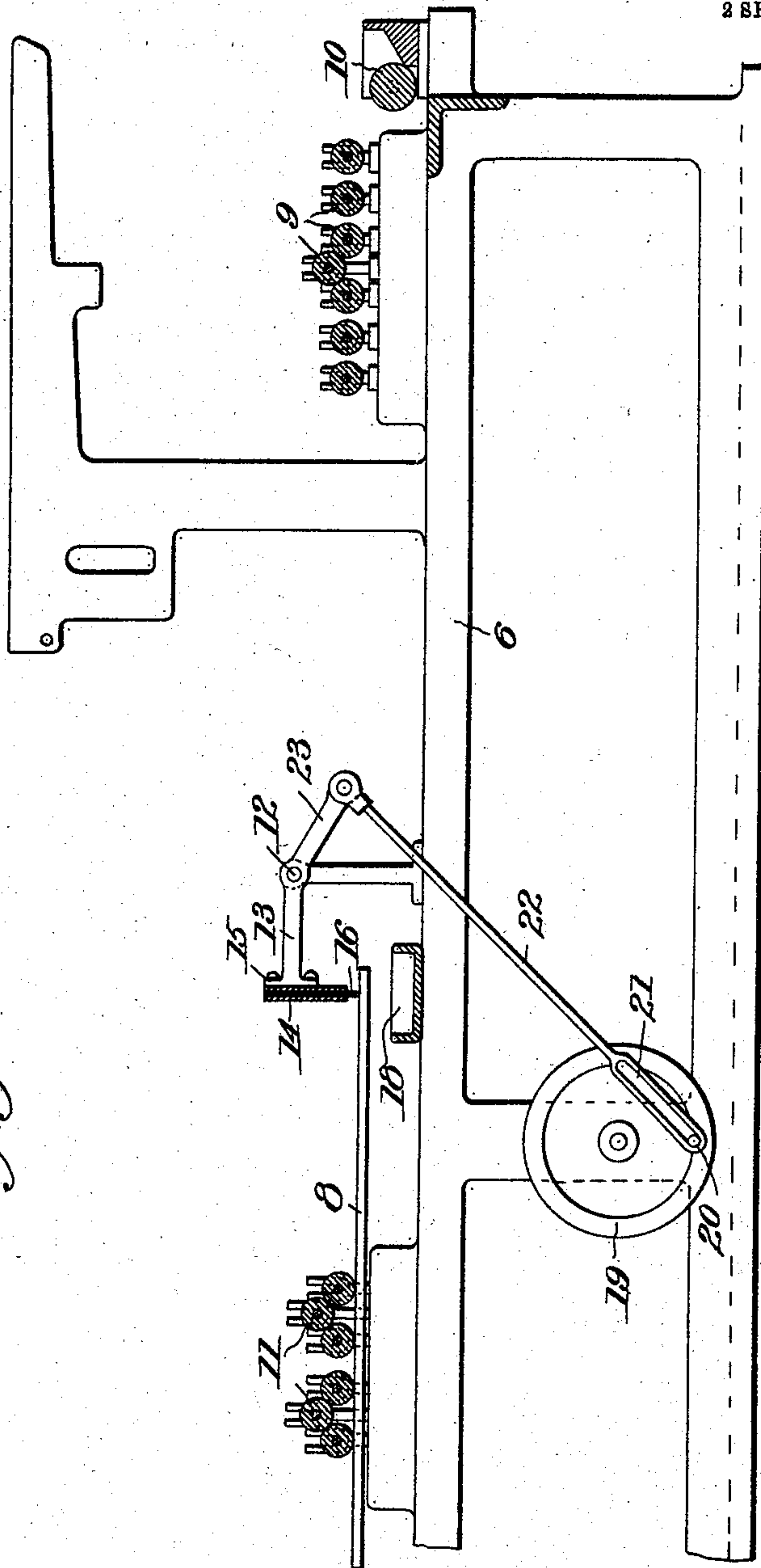
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2 SHEETS—SHEET 2.

Fig. 2.



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UNITED STATES PATENT OFFICE.

FREDRICK JOHNSON, OF CHICAGO, ILLINOIS.

DEVICE FOR CLEANING THE INKING-ROLLERS AND INK-PLATES OF CYLINDER PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 782,341, dated February 14, 1905.

Application filed April 1, 1904. Serial No. 201,102.

To all whom it may concern:

Be it known that I, FREDRICK JOHNSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Devices for Cleaning the Inking-Rollers and Ink-Plates of Cylinder Printing-Presses, of which the following is a specification.

This invention is particularly a device for cleaning the inking-rollers and ink-plate of bed-and-cylinder printing-presses; and the object thereof is to provide a device which is attached to or forms a part of the machine and which will act to clean the ink from the rollers and plate without handwork.

It comprises a scraper which may be thrown in or out of action and which when in action contacts with the surface of the plate and then by reciprocation of the bed acts to scrape the ink from the plate into a pan placed to receive it.

In the accompanying drawings, Figure 1 is a plan view, partly broken away, of the bed of the press. Fig. 2 is a sectional side elevation thereof.

Referring specifically to the drawings, 6 indicates the side frames of the machine, between which the bed reciprocates, carrying the form 7 and the inking or transfer plate 8. This plate receives ink from a train of rollers 9, which are supplied from a fountain 10 and transfers the ink to the rollers 11, which give it to the form when the latter is drawn back.

Mounted to turn in the side frames 6 is a rock-shaft 12, having at each end forwardly-projecting arms 13, which carry a scraper comprising two plates 14 and 15, suitably bolted together, between which is clamped a leather strip 16, the lower edge of which projects below the metal strips in position to be brought in contact with the upper surface of the plate 8 and to scrape the ink therefrom. The ends of the scraper are turned back, as at 17, to prevent end flow or spurt of the ink. Under the plate and scraper is a pan 18, removably supported on the frame of the machine and adapted to receive the ink scraped from the plate. This scraping action is effected during the forward movement of the plate,

at which time the scraper is in contact therewith. To lift the scraper during the backward movement of the plate, a trip-wheel 19 is provided, having a stud 20, which works in a slot 21 in a trip-rod 22, connected with the arm 23, projecting from the rock-shaft 12. The trip-wheel is driven by suitable gear connection with any shaft of the machine and is properly timed to let the scraper drop to the plate at the beginning of the forward motion thereof and to lift the same during the reverse motion.

In operation when it is desired to clean the plate and rollers kerosene, benzin, or similar ink solvent is thrown on the inking-plate and the rollers, and by running the press a sufficient number of times the ink and matter is scraped from the plate into the pan, a few back and forth movements being sufficient to effectively clean the rollers and plate, after which the pan may be removed and emptied.

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

1. In a printing-press, the combination with an inking-plate having means for supplying ink thereto, and a scraper across the same, reciprocable with respect to each other, of means, independent of the means for supplying ink to the plate; to lower and lift the scraper to and from the plate during opposite movements respectively, in the reciprocation.

2. In a printing-press, the combination with a reciprocating inking-plate and inking-roller arranged to contact therewith, of a scraper pivotally mounted on the frame of the machine and extending across upon the plate, and a trip-rod and wheel connected to the scraper and geared to a moving part of the machine and constructed to turn the scraper on its pivots and lift the same from the plate during its movement in one direction.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FREDRICK JOHNSON.

Witnesses:

SIGNA FELTSKOG,
H. G. BATCHELOR.