

No. 769,811.

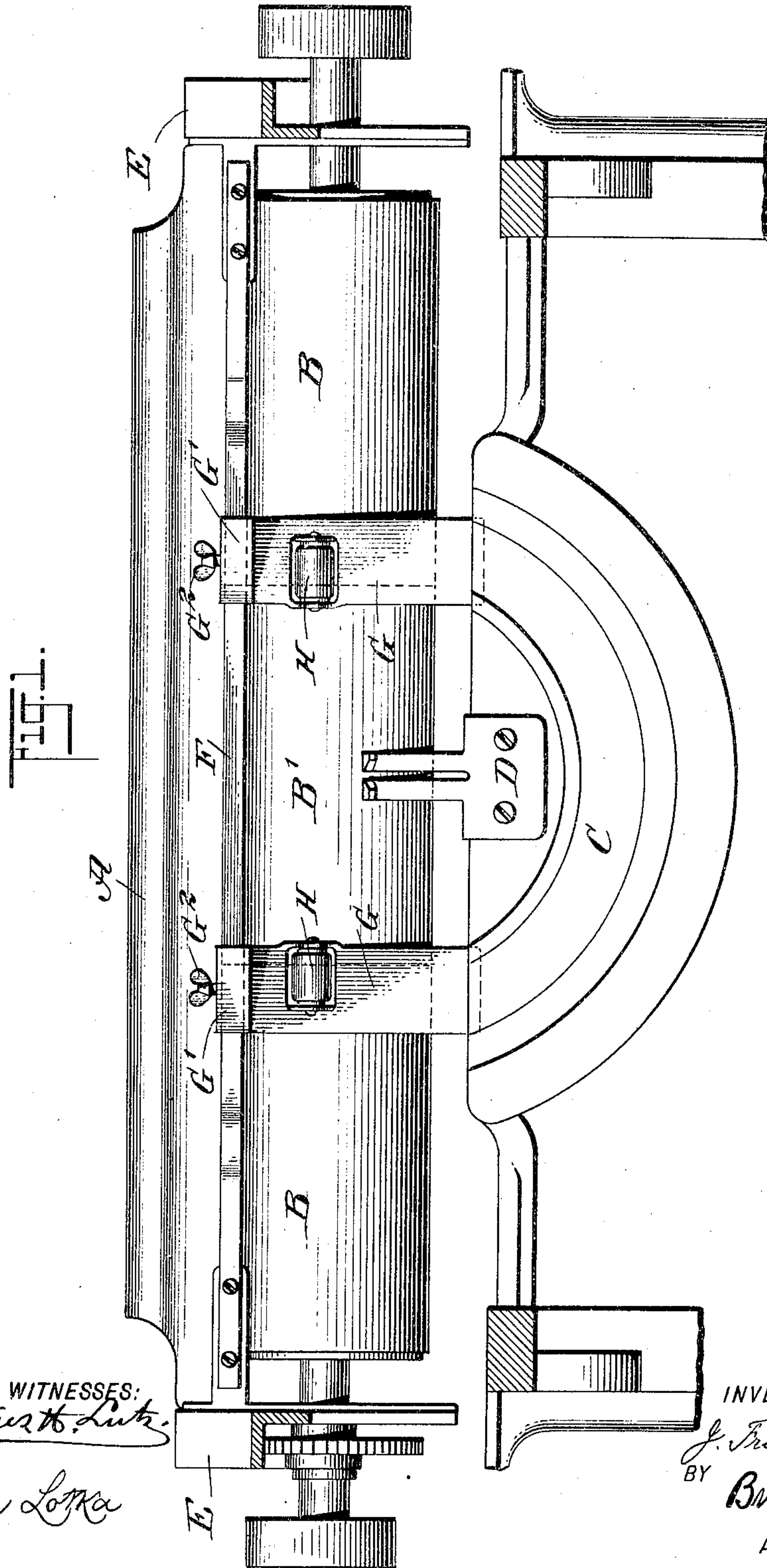
PATENTED SEPT. 13, 1904.

J. F. ALLARD.
CARD TYPE WRITER.

APPLICATION FILED JULY 22, 1903.

NO MODEL.

3 SHEETS—SHEET 1.



WITNESSES:
Julius H. Lutz
John Lotta

INVENTOR
J. Frank Allard
BY *Bresend Knauth*
ATTORNEYS

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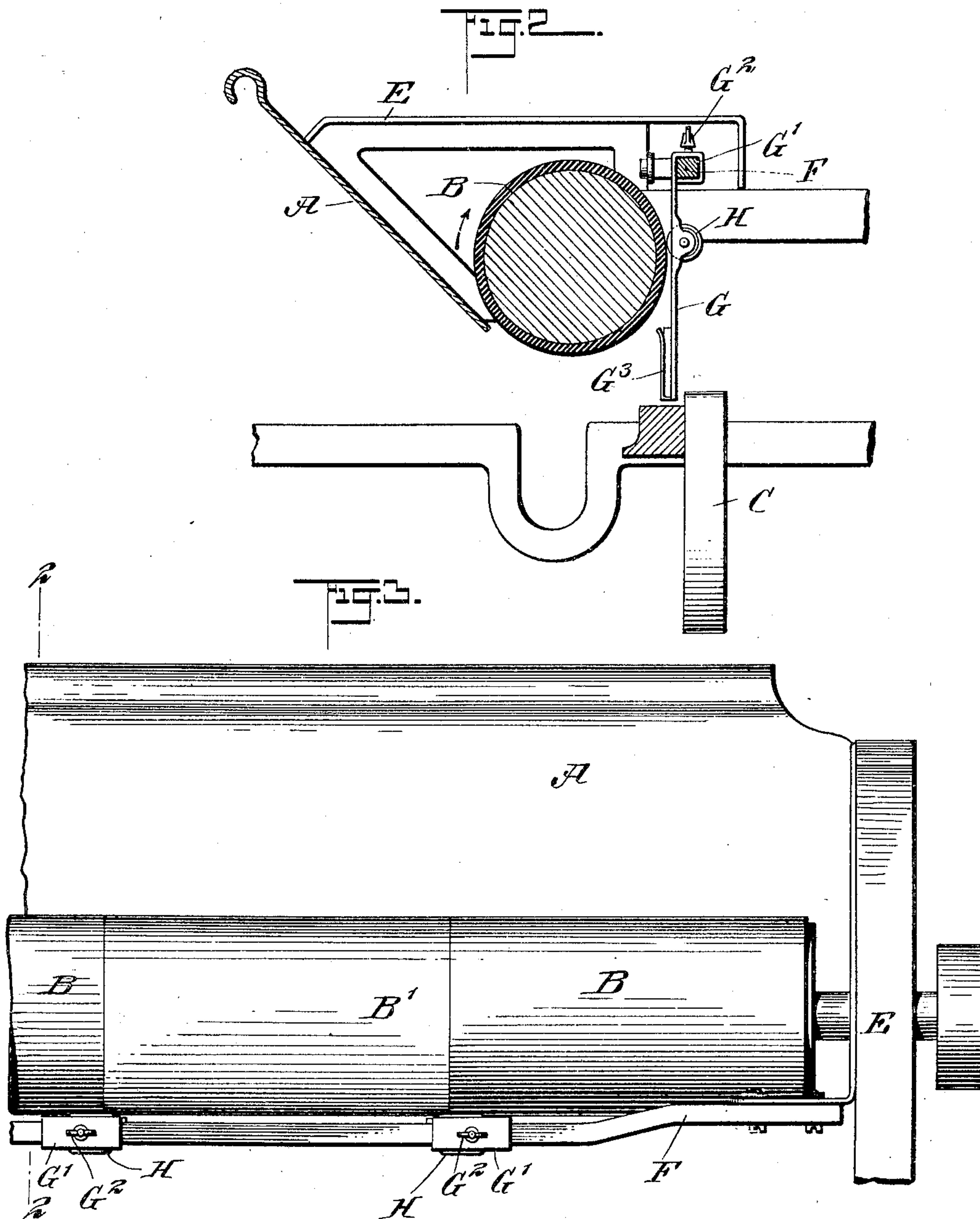
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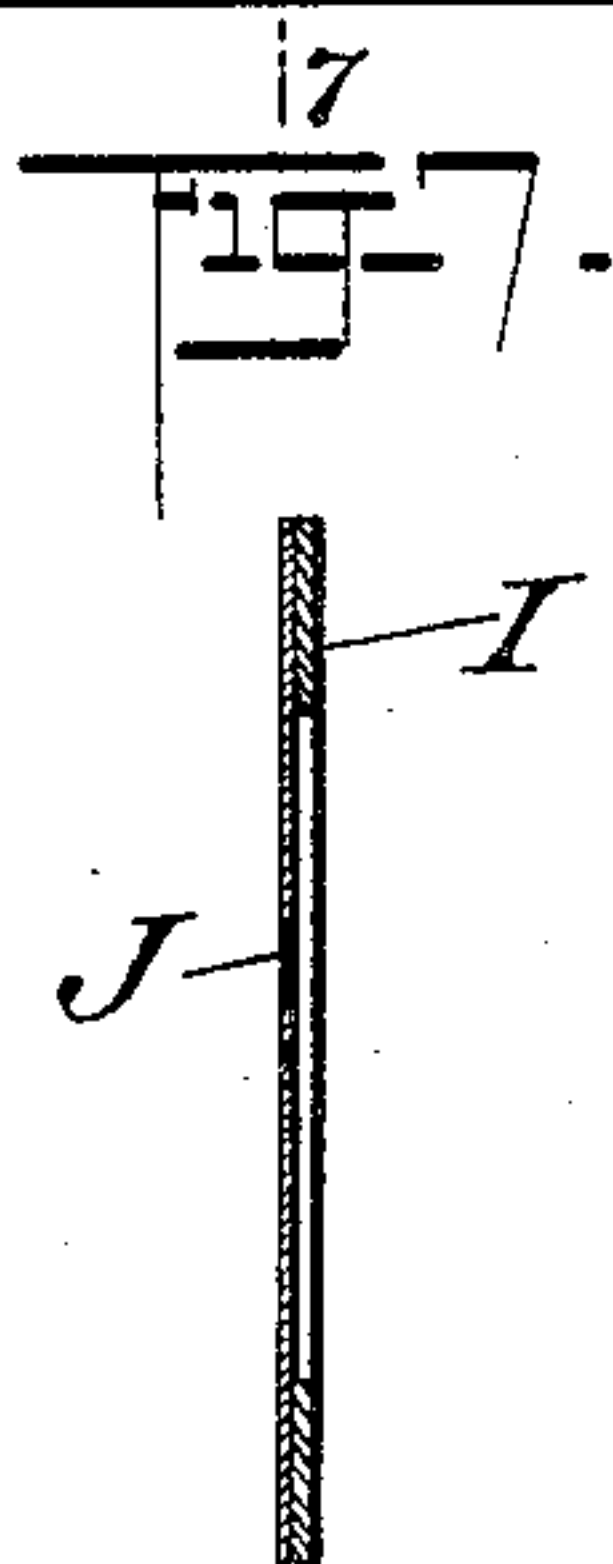
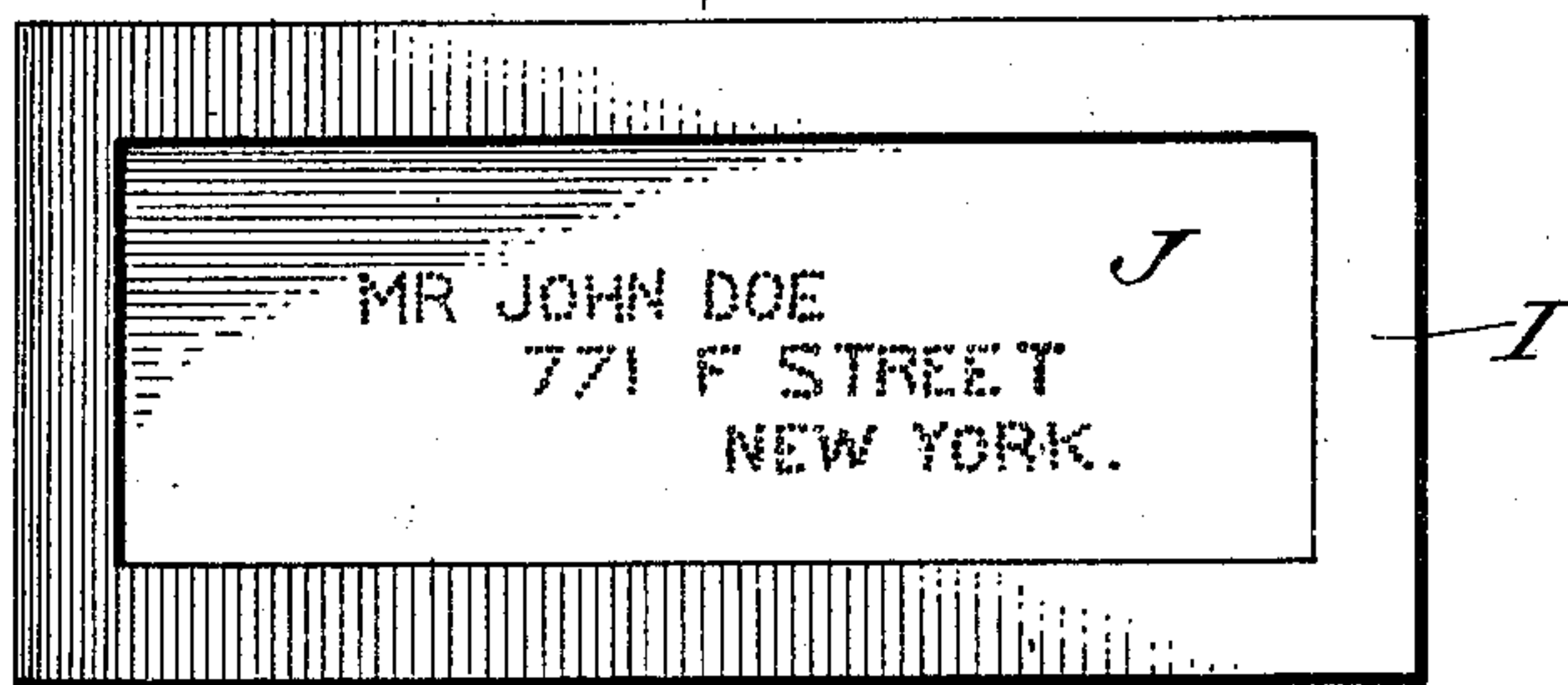
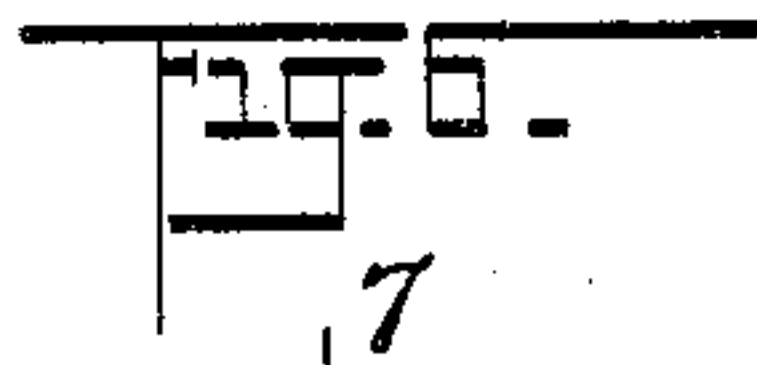
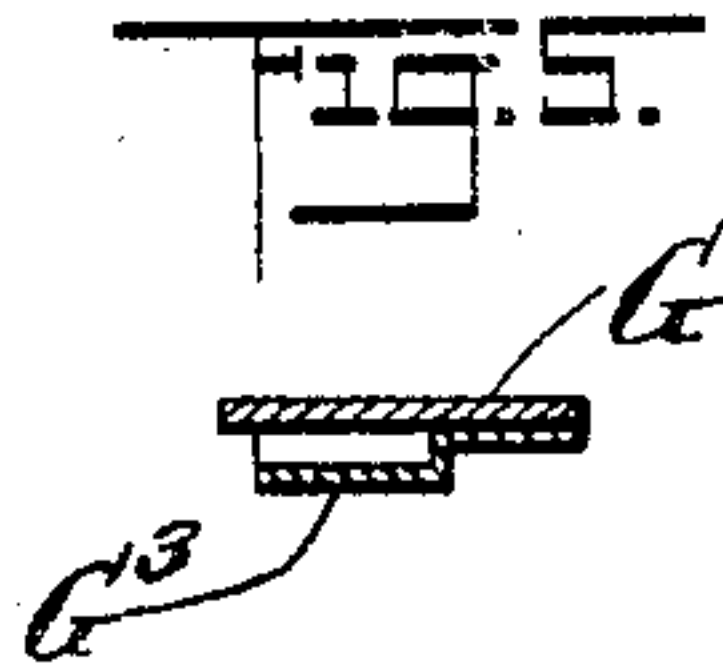
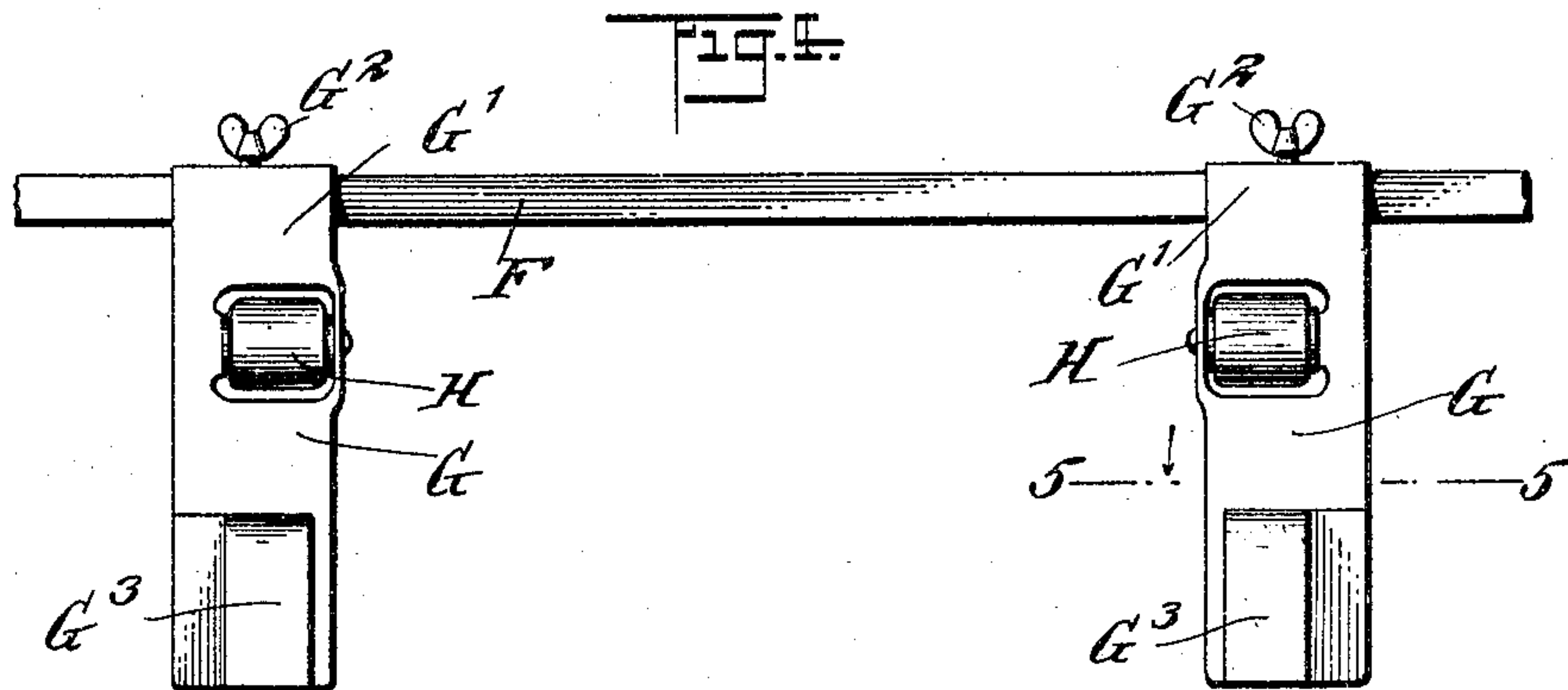
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UNITED STATES PATENT OFFICE.

J. FRANK ALLARD, OF NEW YORK, N. Y., ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

CARD TYPE-WRITER.

SPECIFICATION forming part of Letters Patent No. 769,811, dated September 13, 1904.

Application filed July 22, 1903. Serial No. 166,563. (No model.)

To all whom it may concern:

Be it known that I, J. FRANK ALLARD, a citizen of the United States, residing in the borough of Brooklyn, county of Kings, city and State of New York, have invented certain new and useful Improvements in Card Type-Writers, of which the following is a specification.

My invention has for its object to adapt a type-writing machine to the printing or perforation of cards.

Great difficulty has been encountered in type-writers when cards were inserted therein in the same manner as ordinary sheets of paper, for the reason that the cards cannot be subjected without injury to the bending around the platen which is commonly employed in feeding sheets of paper. The cards if fed in the same manner as paper are not only difficult to feed, but liable to break, since the outer circumference of the card when bent is materially larger than its inner circumference. The stiffness of the card also opposes a considerable resistance to its being fed in a bent condition. In order to overcome these difficulties, I have provided an arrangement which entirely does away with the bending of the card and keeps the card in a flat condition adjacent to the printing or perforating point. This mechanism is also so arranged as to automatically adjust the card to its proper position and to produce an accurate line-spacing by the ordinary operation of the platen.

The preferred form of my invention will now be described in detail with reference to the accompanying drawings, and the novel features will then be pointed out in the appended claims.

Figure 1 is a front elevation of a portion of a type-writer embodying my invention with parts omitted for the sake of greater clearness. Fig. 2 is a sectional elevation on line 2 2 of Fig. 3. Fig. 3 is a plan of a portion of the improved machine. Fig. 4 is a rear view of the card-support. Fig. 5 is a cross-section on line 5 5 of Fig. 4. Fig. 6 shows one of the cards with its holder, and Fig. 7 is a sectional elevation on line 7 7 of Fig. 6.

The drawings show several of the usual parts of a type-writer, such as the paper-shelf A, the platen B, the type-bar segment C, and type-bar guide D. These parts may be of any approved construction. In front of and above the platen I secure to the carriage (the frame of which is indicated at E) a bar F, standing lengthwise on the platen. As shown in Fig. 2, this bar should be about vertically above the front portion of the platen. On these bars are supported the card-guides G, preferably in an adjustable manner, so that the guides may be set at different distances from each other. For this purpose the bar F may be made angular, and the card-guides may be provided with tubular portions or sleeves G' and with set-screws G² to lock them after adjustment. Each card-guide is bent backward and upward at its lower portion, as shown at G³, thereby forming a pocket closed upon three sides and open only at the top, and at that side it faces the other card-guide that is on the inner side. It will be understood that a card may be inserted in a vertical position from above into the pockets at the lower ends of the card-guides G, said card passing between the platen B and the body of the card-guides G. In order to press the card against the platen, I provide rollers H, journaled on the guides at a point substantially at the same level as the center or axis of the platen. If the platen is then turned in the direction indicated by the arrow, it will feed the card down and will automatically cause both ends of the card to reach the bottom of the pockets at the lower ends of the guides, thus bringing the card into proper position for printing or perforation—that is, the lower edge of the card will be absolutely horizontal. When a line has been perforated or printed, the platen is given a partial rotation in the usual manner by the line-space lever, and this will bring the card one step or line upward for the printing of the second line, &c. When the machine is used for perforating instead of printing, it is preferable to make the central portion B' of the platen of soft rubber, so as to avoid injuring the body of the platen by the pins which constitute the type. When

such pin-types are used, the cards will generally consist of cardboard frames I with a parchment paper filling J, as shown in Figs. 6 and 7. These cards when perforated are
5 used as stencils for addressing-machines and the like.

Various modifications may be made without departing from the nature of my invention.

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

1. In a type-writer or like machine, a platen, and card-guides supported in front thereof in a substantially vertical position, said guides being provided at their lower ends with pockets
15 open at the top but closed at the bottom and at the outside, to receive and support the lower edge of a card.

2. In a type-writer or the like, a platen, card-guides, and rollers mounted on said card-
20 guides at the printing-line of said platen.

3. In a type-writer or the like, a platen, card - guides arranged tangentially to the

platen and extending to the printing-line of said platen and then away from said printing-line, and pressure devices mounted on said
25 guides adjacent to said printing-line.

4. In a type-writer or like machine, a platen, card - guides arranged tangentially to the platen, and pressure devices carried by those portions of the said guides which are nearest
30 to the platen to hold a card against the platen.

5. In a type-writer or like machine, a platen, card-holding guides arranged tangentially to the platen, and rollers journaled upon said guides at the points where the same are near-
35 est to the platen to press the card against the platen.

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

J. FRANK ALLARD.

Witnesses:

JOHN LOTKA,
EUGENE EBLE.