

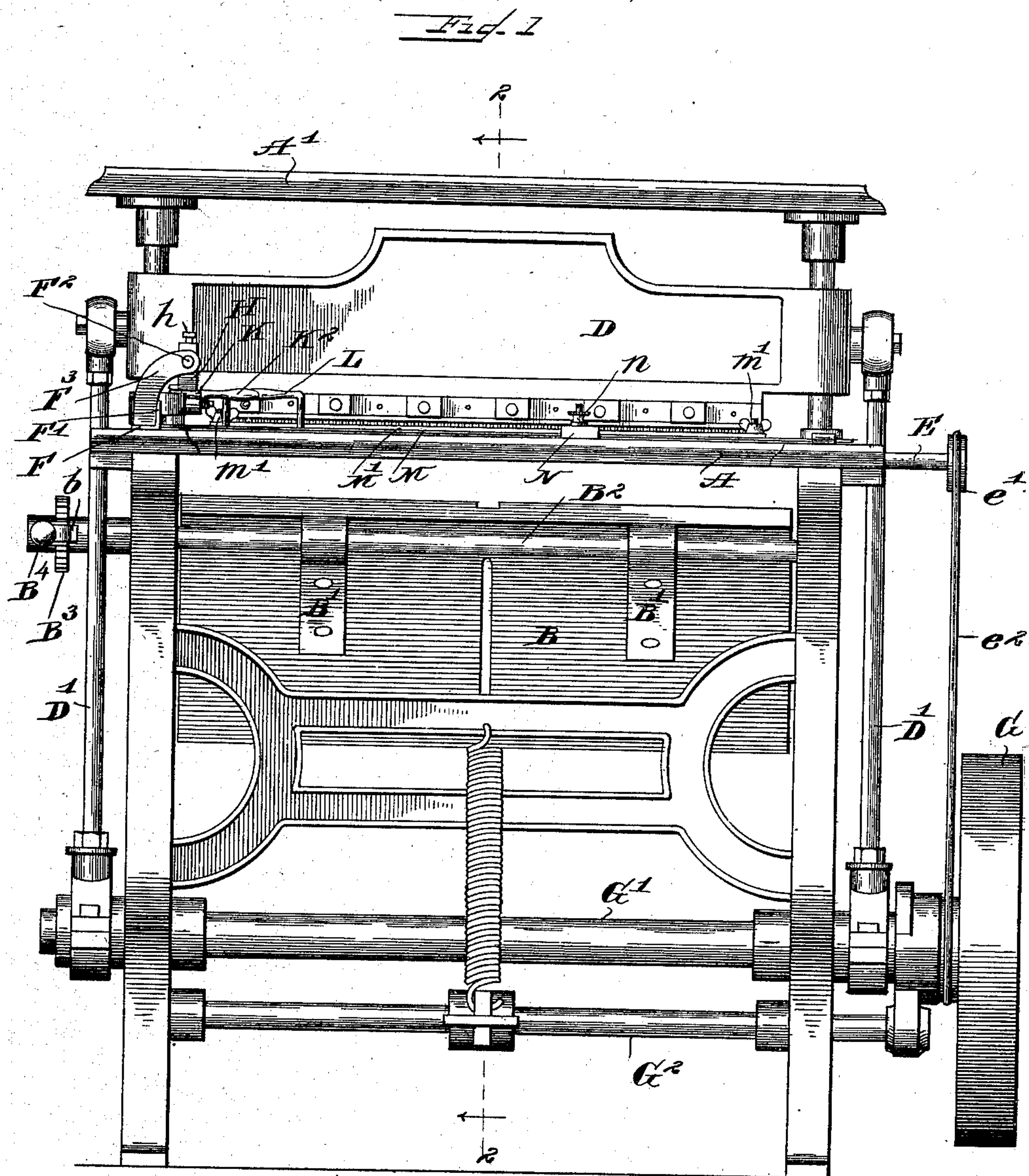
No. 732,893.

PATENTED JULY 7, 1903.

F. P. ROSBACK.
PERFORATING MACHINE.
APPLICATION FILED OCT. 24, 1902.

NO MODEL.

4 SHEETS—SHEET 1.



Witnesses—

D. A. Pauberschmidt
F. P. Rosback

Inventor—

Frederick Peter Rosback

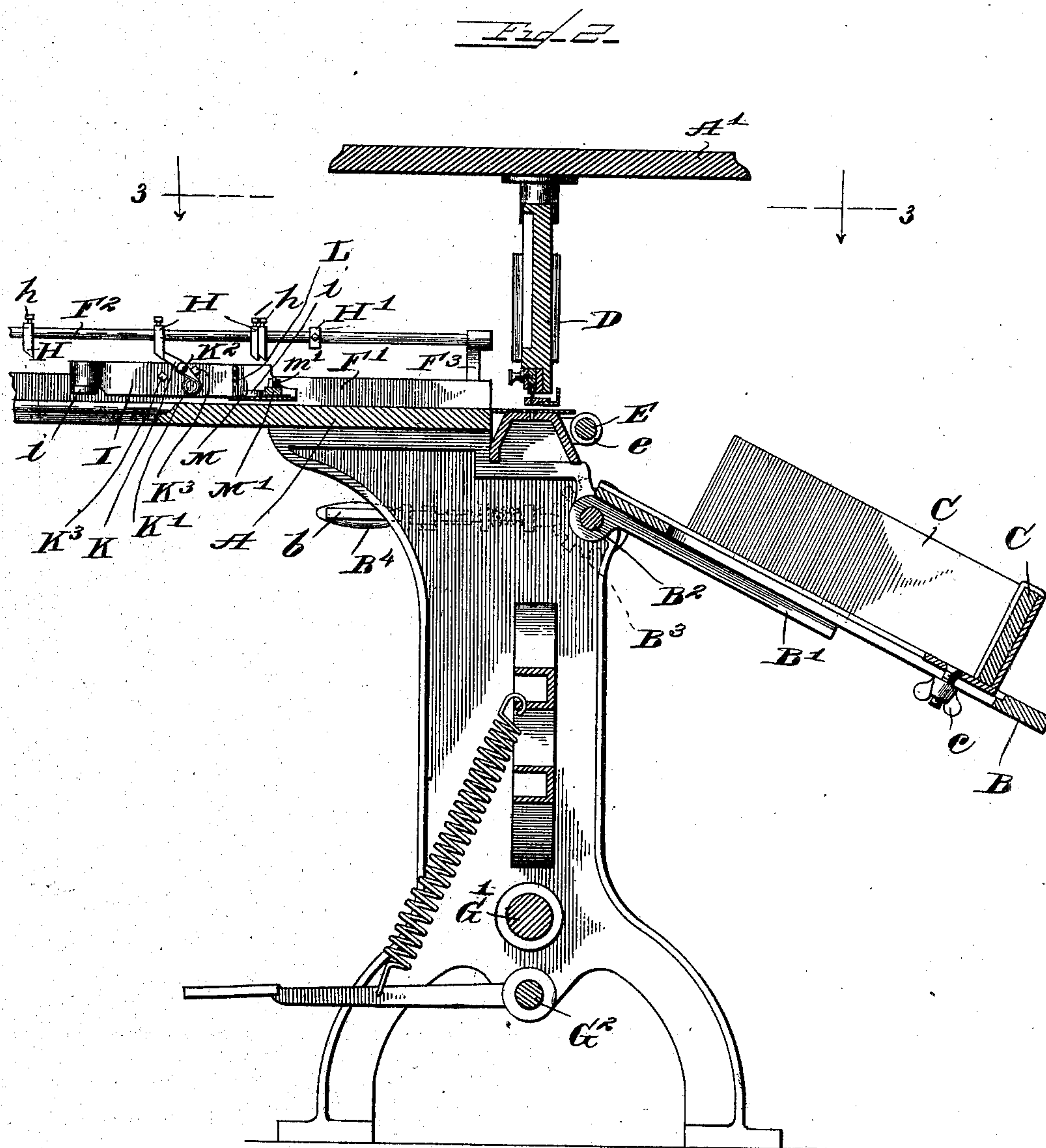
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4 SHEETS—SHEET 2.



Witnesses.

G. A. Pauerschmitt
BTR oslackfr

Inventor _____

Frederick Peter Roebuck

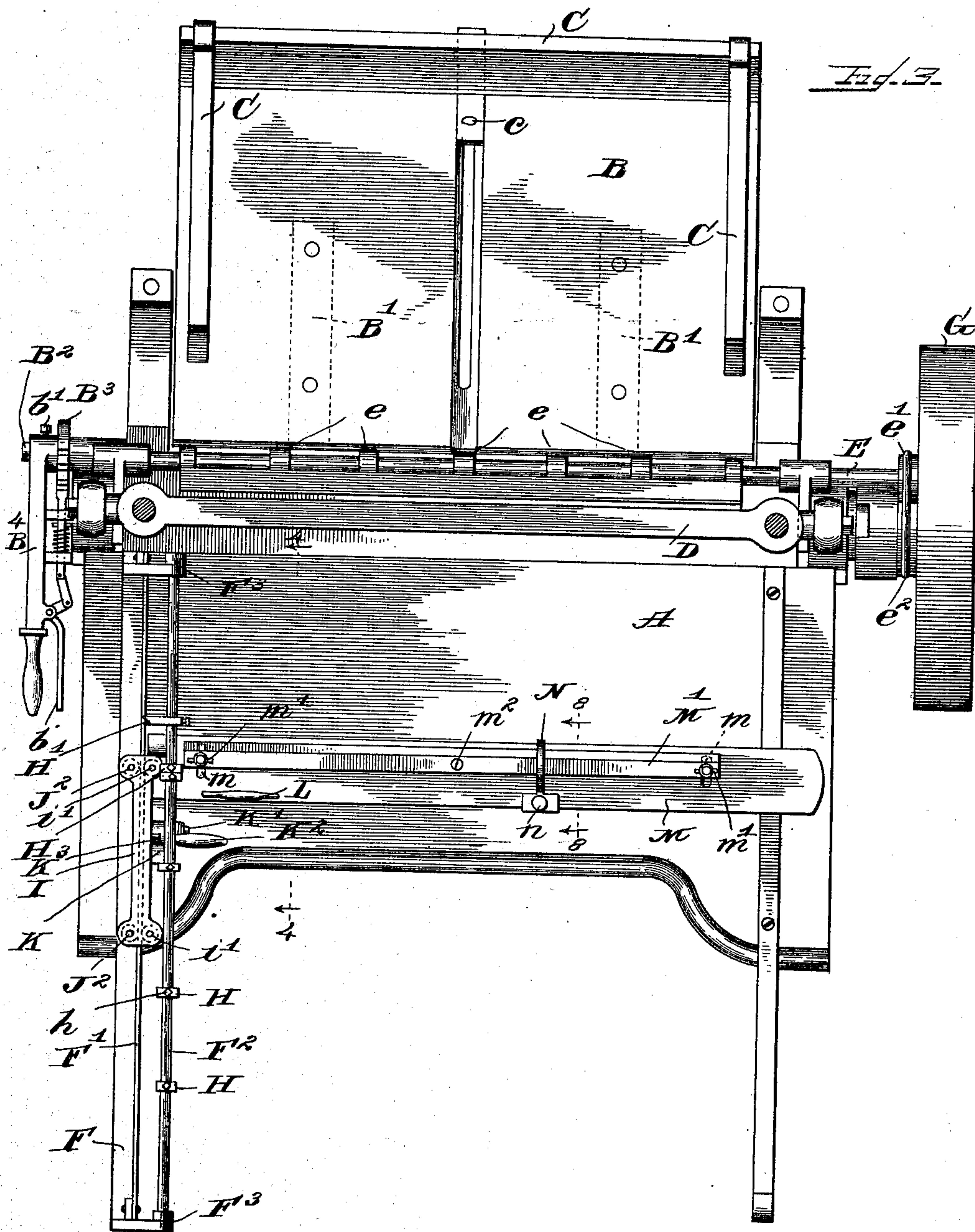
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4 SHEETS—SHEET 3.



Witnesses.

G A Pauberschmidt
H R Rosback Jr

Inventor _____

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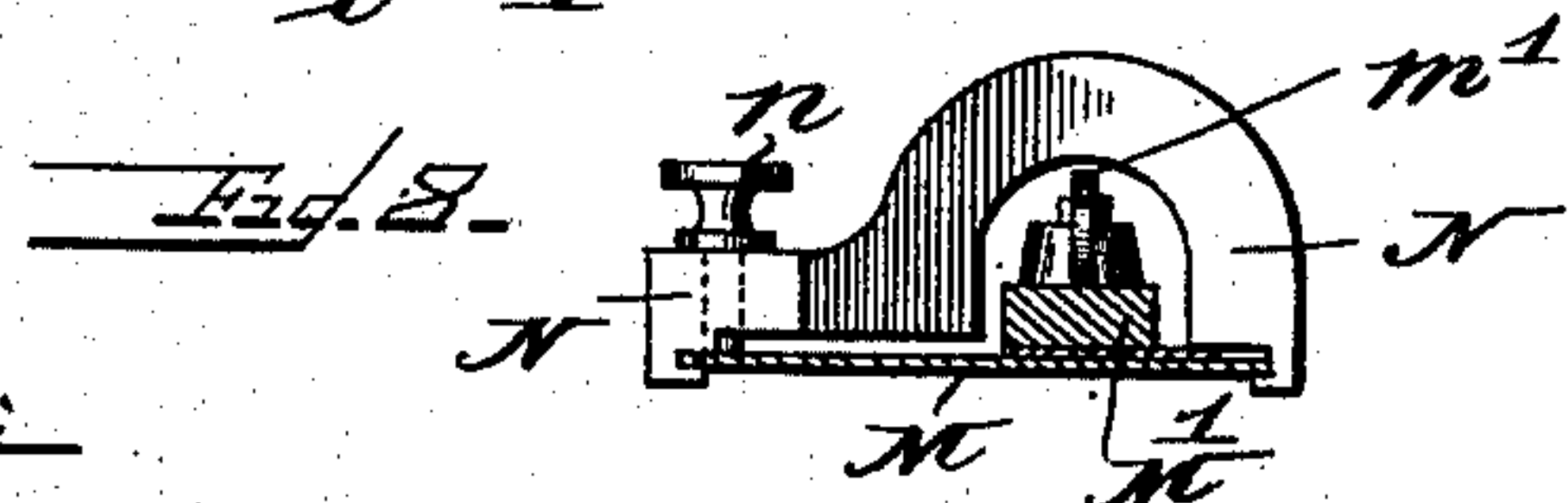
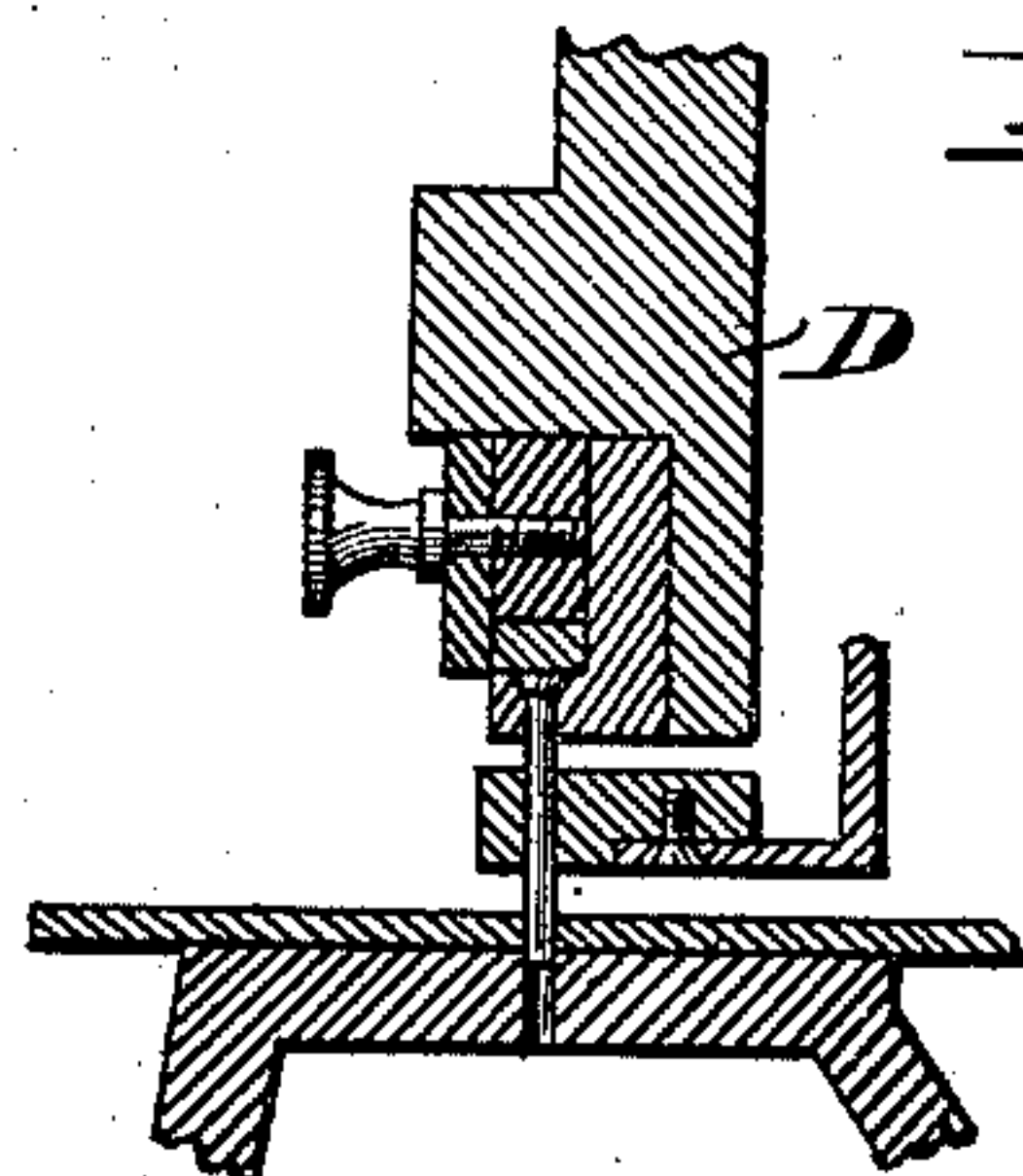
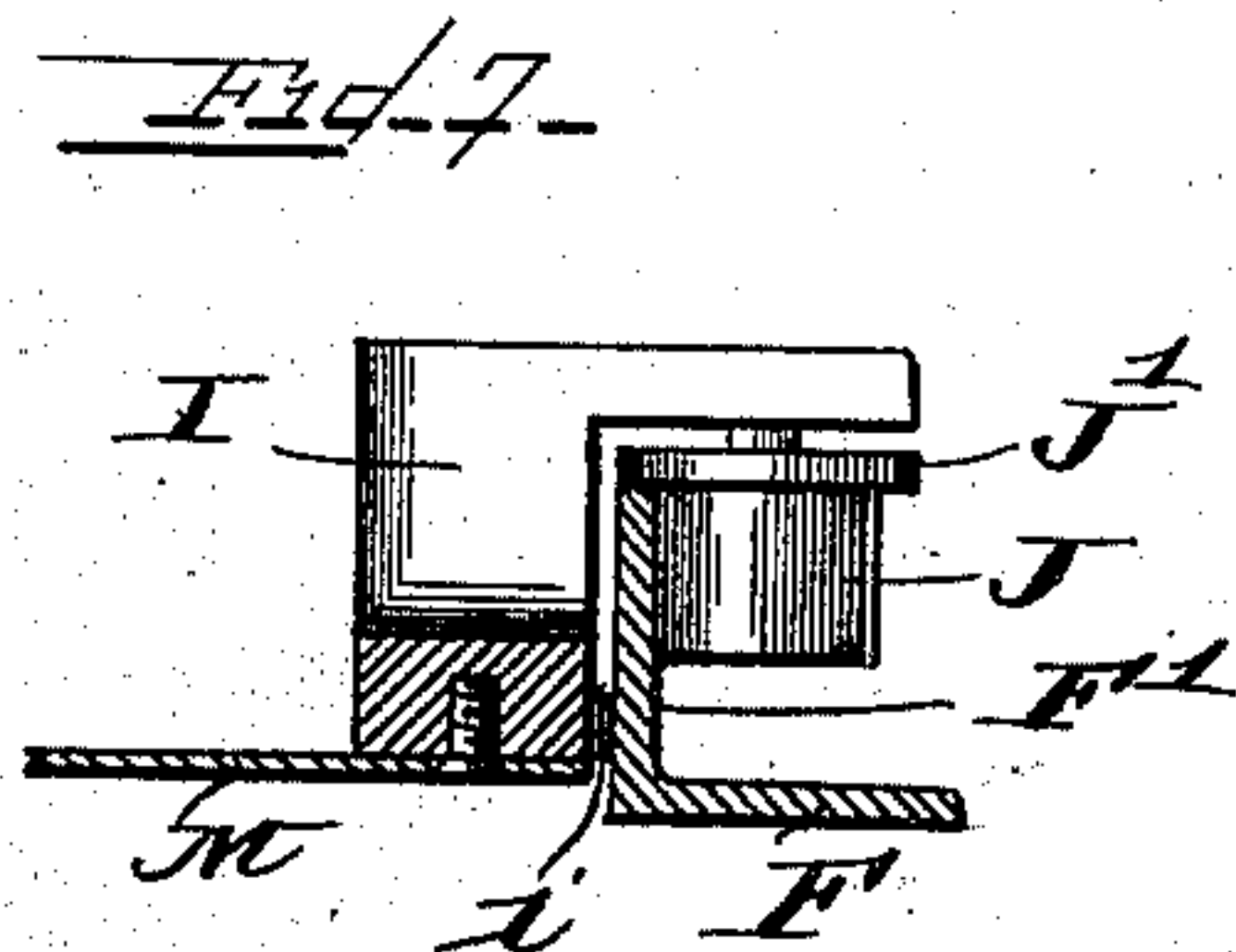
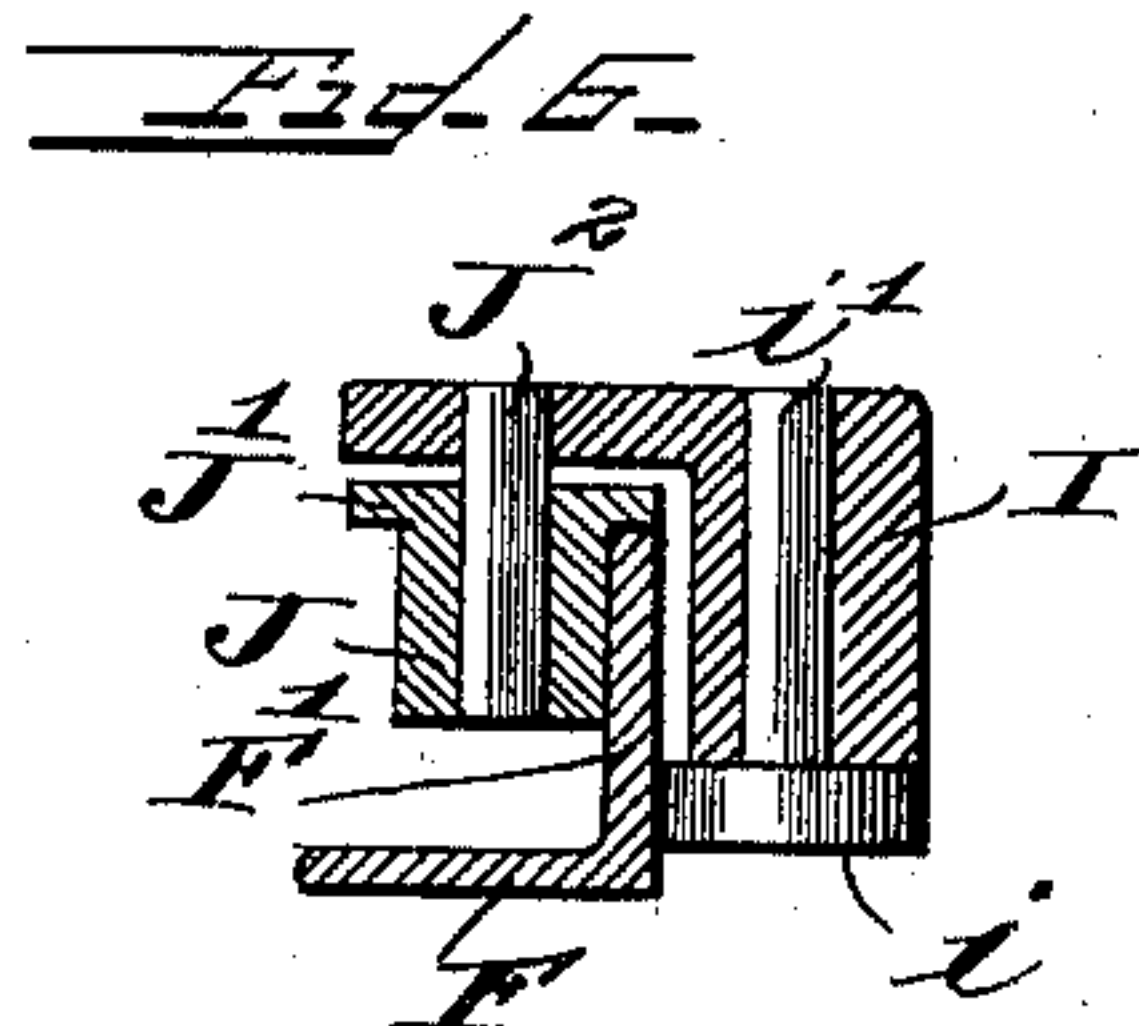
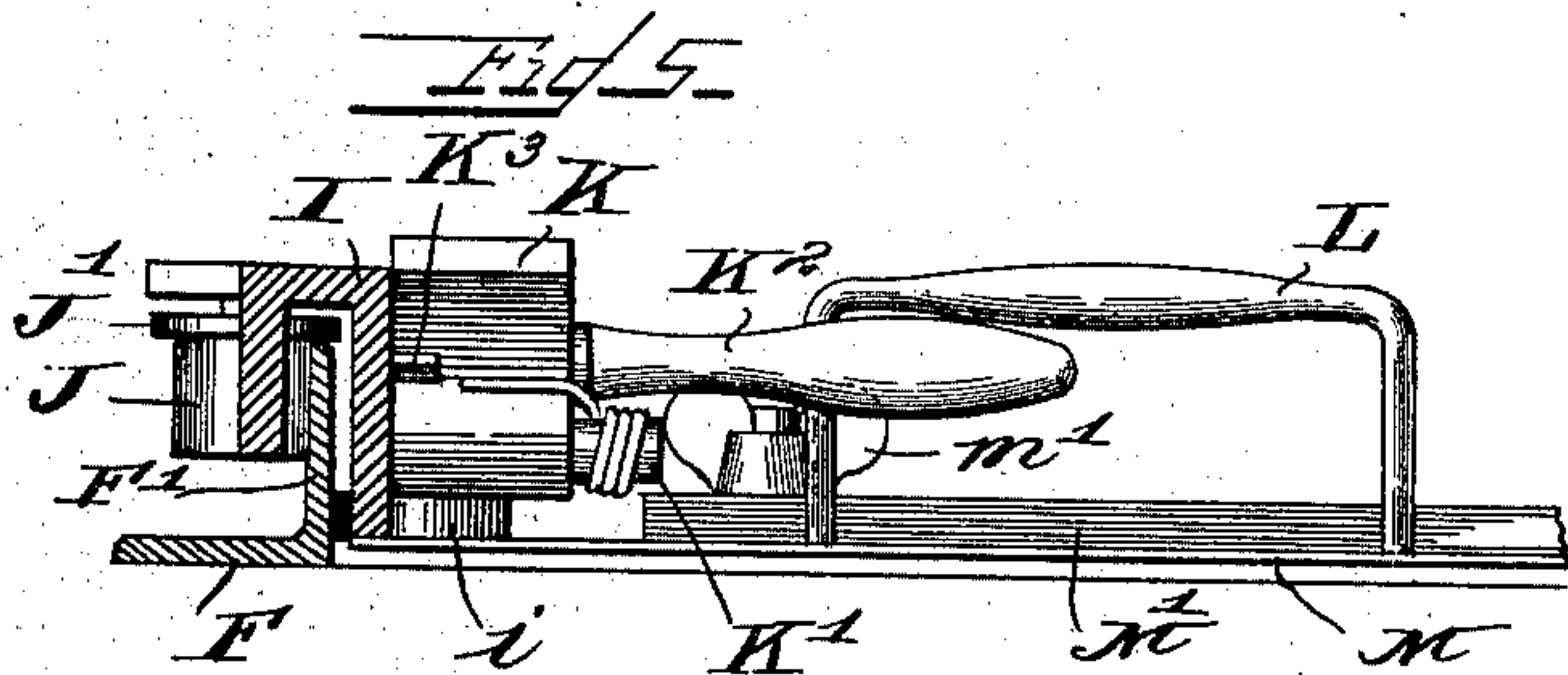
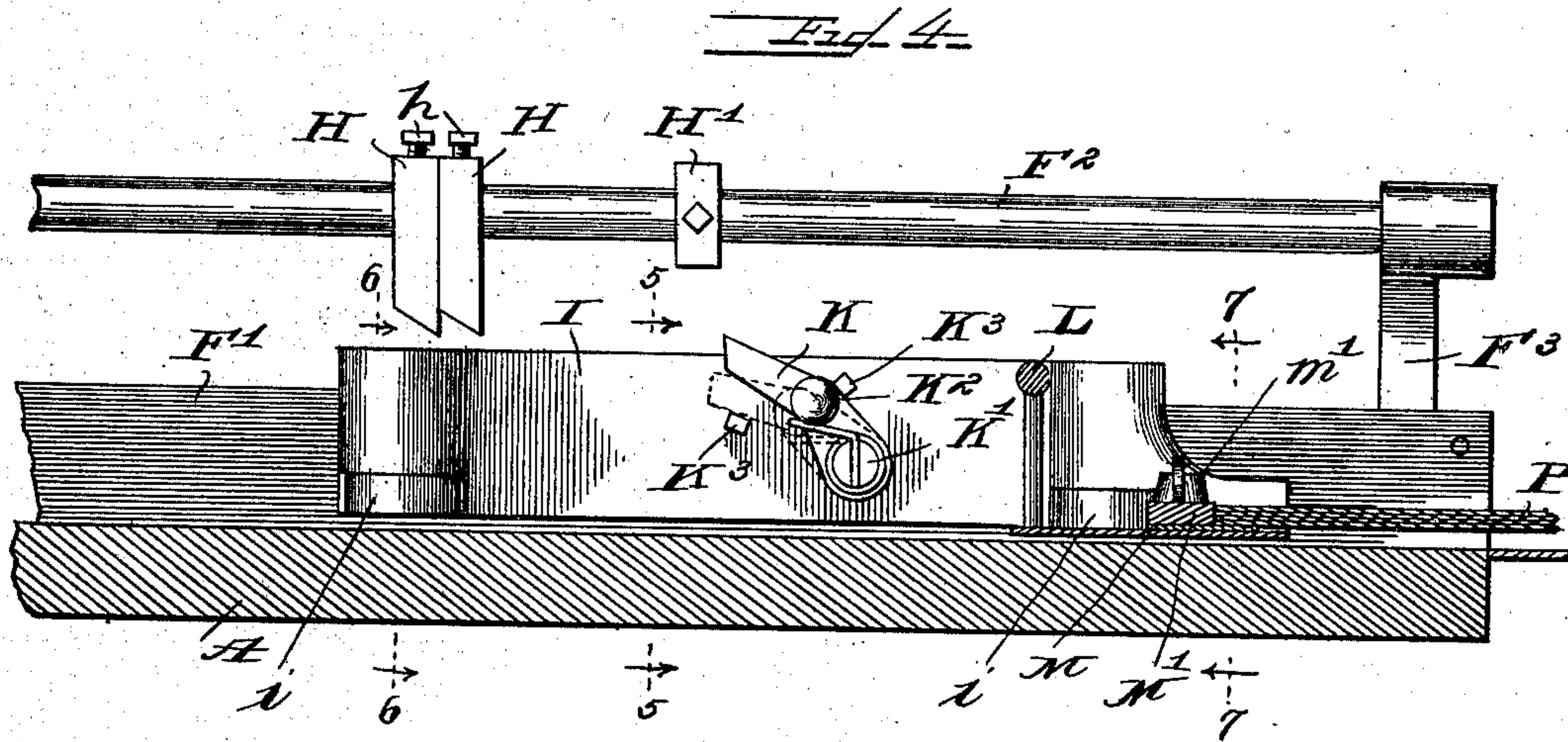
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NO MODEL.

4 SHEETS—SHEET 4.



WITNESSES.

G. A. Paubuschmidt
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INVENTOR.

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UNITED STATES PATENT OFFICE.

FREDERICK PETER ROSBACK, OF CHICAGO, ILLINOIS.

PERFORATING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 732,893, dated July 7, 1903.

Application filed October 24, 1902. Serial No. 128,598. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK PETER ROSBACK, a citizen of the United States, and a resident of the city of Chicago, county of Cook, State of Illinois, have invented certain new and useful Improvements in Perforators, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to the class of devices used for perforating paper to provide division-lines at which to render separation by tearing easy. These perforations are to be found, among other connections, in sheets of postage-stamps, check-books, receipt-books, and the like.

In my present invention the object is to provide improvements in the construction and manner of operating the feeding device and the delivery of the cut material therefrom wherein an adjustable feed is provided that enables the operator to readily set or arrange the feed to secure any desired length to the perforated material in its presentation to the perforating-knife, from which it is carried by a rubber-covered roller and presented to an adjustable receptacle controlled by the operator to secure it in any desired position as the material accumulates thereon. I have also placed a paper-holding table immediately above the operative parts of the machine for convenience in taking the material to supply the machine.

Many features of the operative parts of the machine are shown in my former patent, No. 387,543, dated August 7, 1888.

In the drawings, Figure 1 is a front elevation of my improved machine. Fig. 2 is a sectional side view on line 2 2 of Fig. 1. Fig. 3 is a plan view on line 3 3 of Fig. 2. Fig. 4 is a sectional view of the adjustable feeding devices on line 4 4 of Fig. 3. Fig. 5 is a sectional view of the operating-handles connected with the pawl and sliding table as it slides upon its frame on line 5 5 of Fig. 4. Fig. 6 is a sectional view on line 6 6 of Fig. 4, more clearly showing the antifriction-rollers that support the sliding adjustable feed-carriage upon the main frame. Fig. 7 is a sectional view of the same on line 7 7 of Fig. 4. Fig. 8 is a sectional view on line 8 8 of Fig. 3, showing the adjustable stop-gage finger

for holding the side of the paper upon the moving carriage. Fig. 9 is an enlarged view of the perforating-needles, as shown in Fig. 2, which form the subject in detail of another application.

In the drawings, A represents the table at the front of the machine, upon which the material is laid as it is brought down from the supply-table A'; B, the adjustable receiving-table, upon which the sheets of perforated paper are delivered; B', its supporting-hinges; B², the adjusting supporting-shaft; B³, the ratchet-plate, secured to the machine-frame; b, the lever actuating the ratchet-pawl; B⁴, the adjusting ratchet-lever; b', its retaining set-screw; C, the adjustable side boards for retaining the perforated material upon the receiving-table; c, their adjusting retaining-bolts.

D is the reciprocating perforating-head; D', its actuating-shaft.

E is the outwardly-revolving carrier-roller, provided with rubber friction-sleeves or carrier-surfaces e, that carries the finished product from the perforating-knives and delivers the same upon the table; F, the angular supporting portion of the main frame, to which is secured the carrier-track F', upon which is mounted the adjustable feeding-carriage I, as illustrated in the sectional views of Figs. 5 and 6, provided with its antifriction-roller i and its shaft i', the carriage being supported at each end by the roller J upon its flanged rim J', that rests upon the top of the carrier-track. J² is its shaft.

G is the main power-wheel; G', its shaft; G², its clutch-actuating shaft.

H is the adjustable ratchet-tooth, mounted on the overhanging shaft F², supported by brackets F³. h is its retaining set-screw.

H' shows a ratchet-tooth moved horizontally out of contact with the locking-pawl K of the feed-carriage; K', its pawl-pivot; K², its pawl-actuating handle; K³, its stop; L, the carriage-actuating handle; M, the extended bar from the carriage, which supports and moves the material to be perforated. It is provided with a retaining-gage N, having a thumb adjusting-screw n; M', an adjustable holding push-plate pivoted at m² to the bar M and provided with holding-screws m' over the slot m in the bar M below.

P is the paper or material to be perforated.

The drawings thus described clearly show the construction of the machine.

In operation the material is placed upon the supply-table A', from which it is taken in quantities suitable for the action of the perforating-knife and placed upon the table A, the front edge of the material resting upon the feed-carriage I, against the adjustable holding push-plate M', as shown in Fig. 4, the holding-gage N being placed up to the side of the paper and secured in any desired position by means of its set-screw *n*. The operator, having adjusted the ratchet-teeth H to the required distance indicating the length of the paper to be perforated, moves the carriage and the material by means of the actuating-handle L to a point where the locking-pawl K, which is actuated by means of his wrist bearing upon the pawl-actuating handle K², will contact with the ratchet-tooth H when the perforating-knives descend and penetrate through the paper, after which the carriage is moved forward and held firmly by the succeeding pawl, and the perforating-knives again descend and the operation is repeated. As the finished material accumulates upon the receiving-table it is lowered by means of its adjusting ratchet-lever B⁴, actuating the pivot-shaft B², so as to permit any desired quantity of paper to be placed on top of the same as it is delivered by the carrier-roll E. The adjustable holding push-plate M', against which the material rests, may be placed at any desired angle in its position against the material to insure the line of perforation in registry with any figures or printed matter that may be on the surface of the material. The carriage being supported upon its anti-friction-rollers in the manner shown in the drawings insures accurate line of movement without friction, and I consider its construction as shown to be novel, which, with the other features shown and described, I desire to secure by Letters Patent.

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

1. In a perforating-machine the combination of the horizontally-reciprocating feed-carriage mounted on a single track at one side of the table and having attached thereto the supporting-bar M extended across the table and provided with means of adjustment to secure any desired movement to the material, as it is perforated by the vertically-reciprocating head substantially as shown and described.

2. In a perforating-machine a feed-carriage mounted on a single track at one side of the table and having attached thereto the material-supporting bar M extended across the table and provided with the adjustable push-plate M' pivoted at *m*², and its securing set-

screws *m*' and transverse slot *m* that forces the material forward combined with the retaining-gage N and its adjusting-screw *n* secured to the sliding extended bar M actuated by the handle L substantially as shown and described.

3. In a perforating-machine the feed-carriage I mounted on the single track F' at one side of the table by means of its vertical anti-friction supporting-rollers J provided with horizontal supporting-flanges J', combined with vertical rollers *i* secured in said frame and moving over the opposite side of the supporting-track at a point below the plane of roller J.

4. The reciprocating carriage I having the extended supporting-bar M secured thereto, said carriage being mounted on the way or track F', combined with its anti-friction-rollers J revolving at the side of the track and its supporting-flange J' revolving on the top of the track on its shaft J² at the outer side of the track, and the anti-friction-roller *i* having its shaft *i*' revolving upon the vertical walls of the opposite side of the track below the plane of the roller J substantially as shown and described.

5. In a perforating-machine the feed-carriage I mounted on a single track on one side the machine provided with the material-moving bar M extending across the table and the transversely-pivoted spring-pawl K that is free to vibrate on its pivot K' as it is moved forward under the ratchet-teeth H for placing the same to the desired point substantially as shown and described.

6. In a perforating-machine the overhanging shaft F² supported on brackets F³ provided with adjustable ratchet-teeth H that are free to revolve and be held out of contact and be adjusted on said shaft to any point or position combined with the sliding carriage I that moves beneath said shaft with its transversely-pivoted spring-pawl K substantially as shown.

7. In a perforating-machine the combination of the carriage I mounted on a single track at one side the machine and its adjustable material-supporting bar M' mounted on bar M that is secured to the carriage, its actuating-handle L, pawl-actuating handle K², with the adjustable ratchet-teeth substantially as shown and described.

8. The combination of the reciprocating perforating-head D, the intermediate carrier-roller E, the receiving-table B secured to its adjusting supporting-shaft B² with the controlling adjusting ratchet-lever B⁴, its locking-pawl *b* and its ratchet-holding plate B³ substantially as shown and described.

FREDERICK PETER ROSBACK.

Witnesses:

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F. P. ROSBACK, Jr.