

(No Model.)

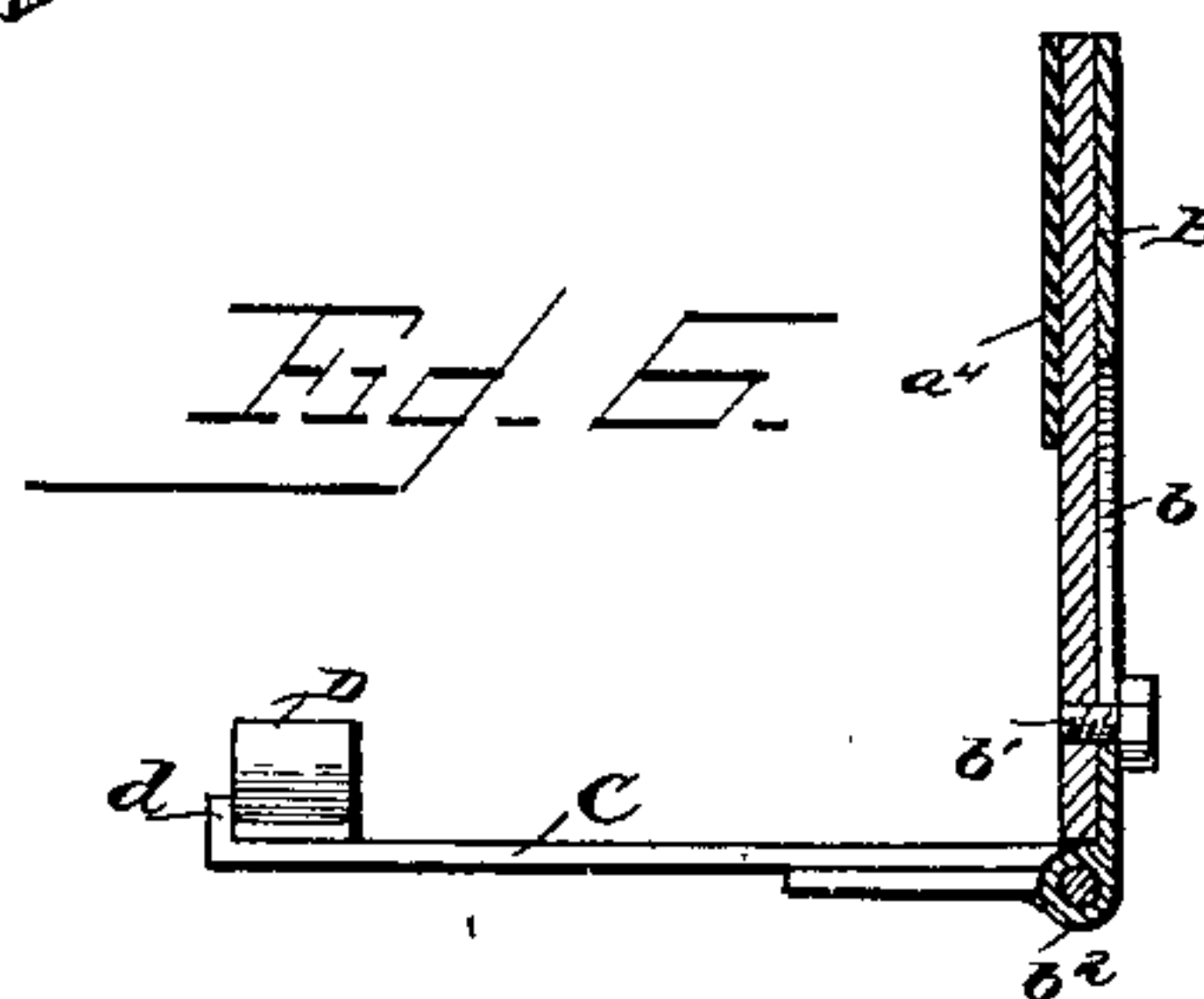
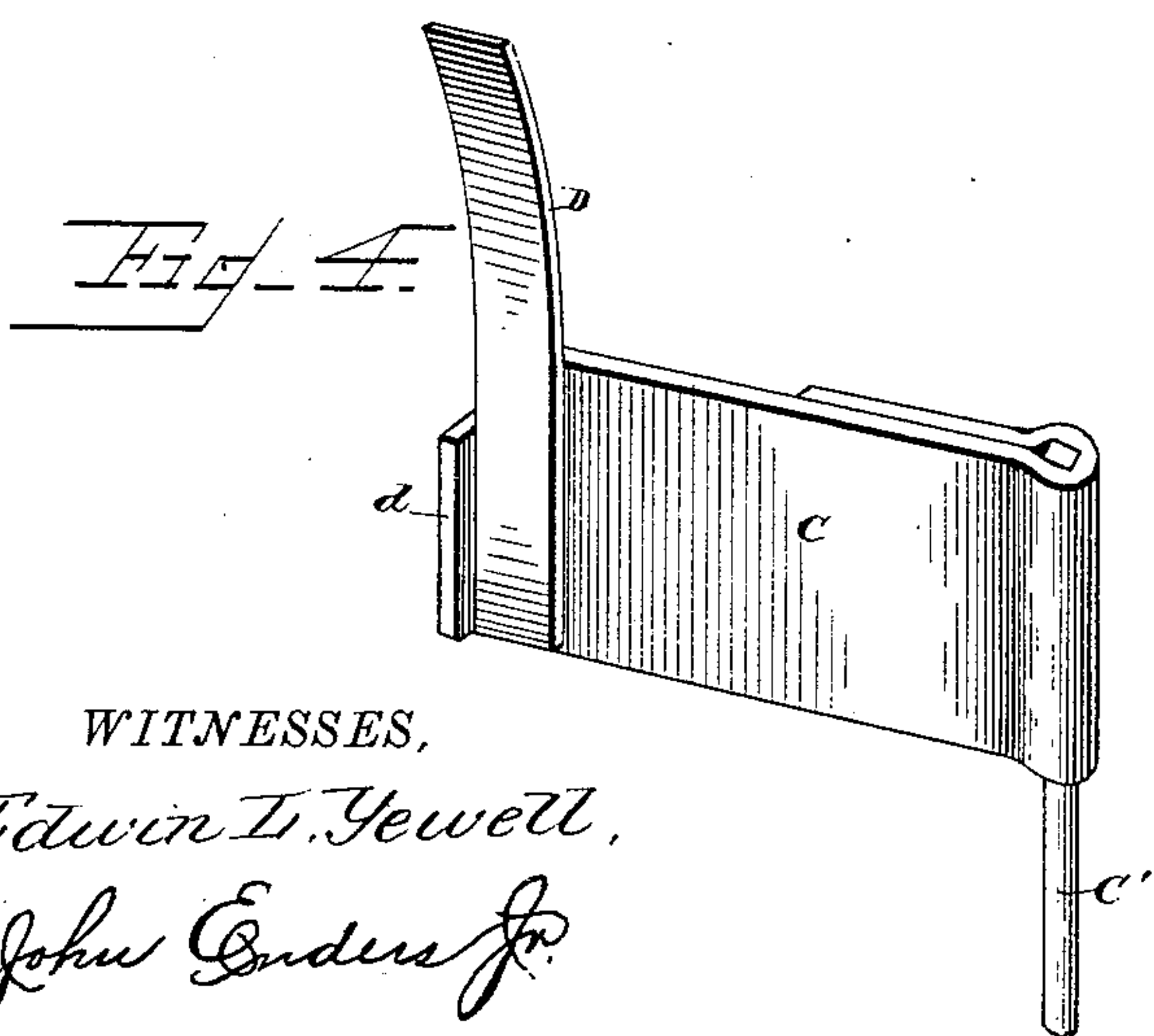
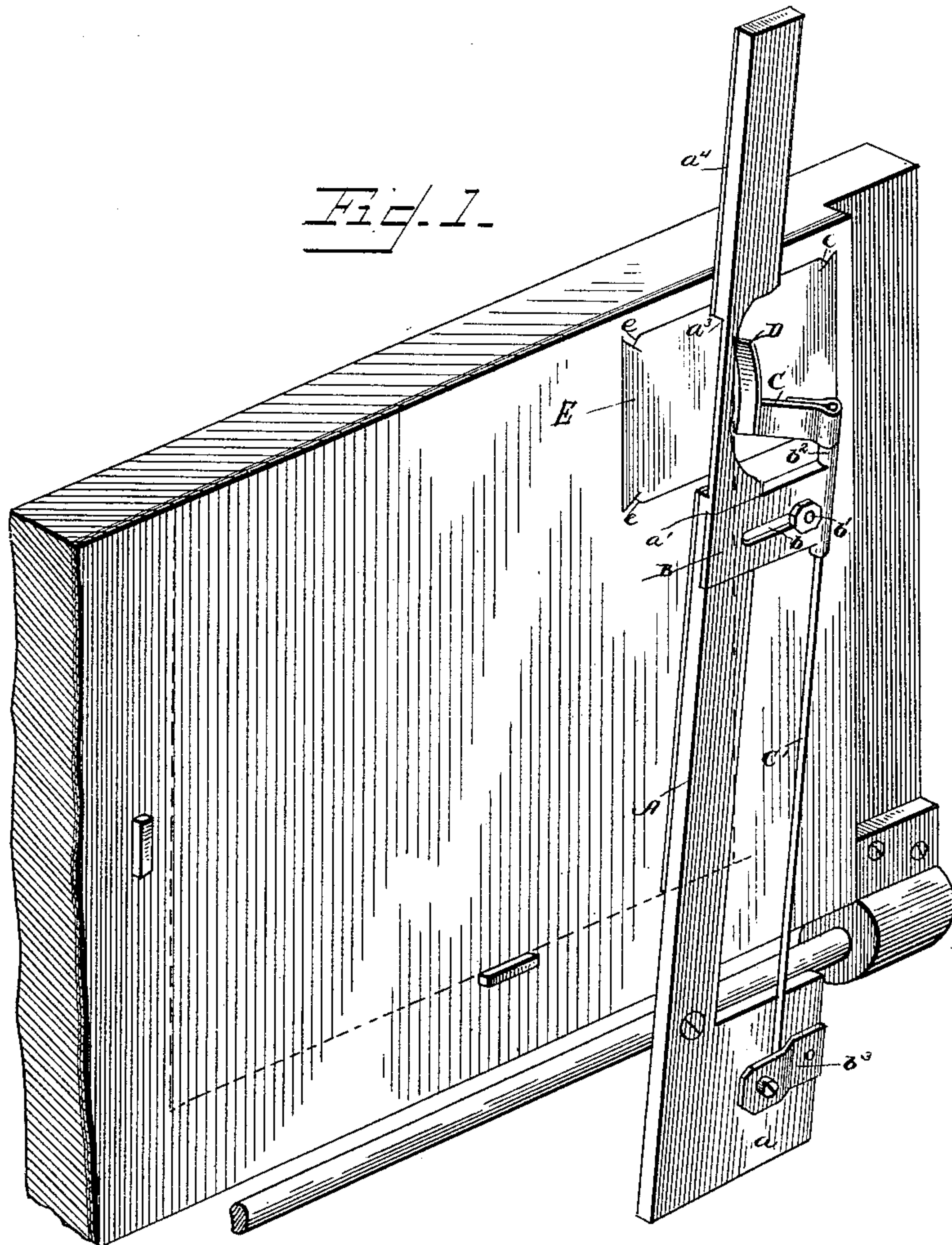
2 Sheets—Sheet 1.

F. A. BAGLEY.

FEED GAGE FOR PLATEN PRINTING PRESSES.

No. 387,033.

Patented July 31, 1888.



WITNESSES,
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UNITED STATES PATENT OFFICE.

FRANK A. BAGLEY, OF CHEROKEE, IOWA, ASSIGNOR TO HIMSELF AND
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FEED-GAGE FOR PLATEN PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 387,033, dated July 31, 1888.

Application filed January 11, 1888. Serial No. 260,391. (No model.)

To all whom it may concern:

Be it known that I, FRANK A. BAGLEY, a citizen of the United States of America, residing at Cherokee, in the county of Cherokee and State of Iowa, have invented certain new and useful Improvements in Gripper-Arms and Feed-Gages for Platen Printing-Presses, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention pertains to certain new and useful improvements in combined gripper-arms and feed-gages for platen job-printing presses, having for its object the provision of a new and improved form of gripper-arm, whereby the paper fed to the platen of the press will be securely held thereby, and also an improved means for forcing said paper to the desired gage or its proper position prior to being printed upon.

The invention consists, briefly, of a gripper-arm provided with a rubber facing designed to come in contact with or bear against the paper to be printed upon, and also a feed-gage comprising a spring-actuated arm carrying an auxiliary spring-arm for forcing the paper in position, said auxiliary spring-arm being designed more especially for use in printing envelopes; and the invention also comprises means for adjustably securing said spring-arms at the desired point.

To these ends my invention comprises the detail construction, combination, and arrangement of parts, substantially as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective of a portion of the platen of the job-printing press, showing my invention as applied thereto. Fig. 2 is an enlarged perspective view of the gripper-arm and feed-gage, looking at the reverse side of Fig. 1. Fig. 3 is an enlarged plan view of the adjustable feed-gage. Fig. 4 is an enlarged detail perspective view of the spring-arms. Fig. 5 is a longitudinal sectional view on the line $x x$, Fig. 1; and Fig. 6 is a cross-sectional view on the line $y y$, Fig. 1.

Corresponding parts in the several figures are denoted by the same letters of reference.

Referring to the drawings, A designates the gripper-arm of the ordinary job-printing press, said gripper-arm being secured at its lower end to the rock-shaft, as customary, and said arm A has a short right-angular projection, a , at its lower end. In the rear central portion of the gripper-arm A is formed a groove or recess, a' , as shown, and from this point extends outwardly at right angles a short arm or projection, a^2 , and in the front face of this arm A, at a point just above the arm a^2 , is formed a groove or recess, a^3 .

Upon the front face of the gripper-arm A, I secure by suitable means rubber facing a^4 , which extends from the upper end of said arm to the upper portion of the groove or recess a^3 , and from the lower portion of said groove or recess to near the lower end of the arm A. This rubber facing for the gripper-arm is designed for obtaining a secure hold on or contact with the paper to be printed upon, said facing preventing the slipping of said paper, as is obvious.

B is an adjustable plate designed to slide upon the short arm or projection a^2 of the arm A and its inner end to enter the groove or recess a' in the rear face of said gripper-arm, said plate having a central longitudinal slot, b , through which projects the end of the threaded screw b' , rigid in the arm or projection a^2 , said screw being fitted with a nut on its rear end, as shown. By this means the plate B can be secured at the desired point of adjustment.

C is a rigid arm secured at one end to the upper end of a spring-rod, C' , passed through a circular or rounded portion, b^2 , of the plate B, and rigidly held at its lower end upon the outer surface of the right-angular portion a of the arm A by means of a keeper plate and screw, b^3 . The outer free end of the arm C has a small right-angular flange, d , as shown, and to this end of said arm is secured one end of a bent or curved spring arm, D.

In practice the ends of the arm C and the arm D are designed to enter and fit within the

groove or recess a^3 in the front face of the gripper-arm, so that when said arms C D are compressed by the gripper-arm and enter said groove or recess a smooth surface will be obtained on the front face of the gripper-arm.

E is a metallic plate provided at its four corners with downwardly-projecting teeth e , for securing same on the outer surface of the sheets of the platen, said plate presenting a smooth outer surface, as shown.

In operating, the paper to be printed is placed upon the platen in such manner as to cause one side edge thereof to be on the metallic plate E, whereby when the platen and gripper-arm approach the flanged end of the arm C will strike against said edge of the paper and force the same to the desired gage, previously regulated by suitable stops and by adjusting the arm B. Should any portion of the paper be extended or projected outwardly, as in printing envelopes, the spring-arm D will strike against the same and force it to the desired gage.

From the foregoing description it will be seen that the arms C D, which are capable of adjustment, will force the paper to the desired gage or stop, so as to be properly presented to receive the impression of the type, and that by reason of the rubber facing of the gripper-arm the paper will be held as against slipping from its proper position, both of which features are a desideratum in this class of inventions.

By means of my invention unskilled persons can operate a printing-press to equal advantage, it only being necessary to place the paper upon the platen, the same being adjusted automatically and securely held as against displacement.

I do not herein broadly claim any of the subject-matter covered by Letters Patent granted to me March 27, 1888, and numbered 380,240.

I claim as my invention—

1. As an improvement in gripper-arms and feed-gages for platen-presses, the combination, with the gripper-arm, of the spring-actuated arm designed to enter a groove or recess of

said gripper-arm, substantially as shown and described.

2. The combination, with the gripper-arm provided with a groove or recess, of the spring-actuated arm and the curved or bent spring-arm, substantially as shown and described, said arms being designed to enter said groove or recess when compressed, substantially as set forth.

3. As an improvement in gripper-arms and feed-gages, the gripper-arm having a groove or recess in its front face and a short arm or projection, in combination with a plate adjustable thereon and the arm having its spring-securing rod attached to the adjustable plate, substantially as shown and described.

4. As an improvement in feed-gages for platen-presses, the spring-actuated arm having an outer flanged end, and the spring-arm secured thereto, substantially as shown and described.

5. As an improvement in feed-gages, the combination, with the gripping-arm, of the adjustable plate having a circular or rounded portion, the spring-rod passed therethrough, and the arm secured to one end of said spring-rod, substantially as shown and described.

6. The combination, with the gripper arm having the arm or projection, of the adjustable plate secured to said arm or projection, the nutted bolt, the spring-rod, and the rigid arm having a spring-arm secured thereto, substantially as shown and described.

7. The herein-described combined gripper-arm and feed-gage, comprising the gripper-arm provided with a rubber facing, the short arm or projection, the adjustable plate, the spring-rod, the arm having an outer flanged end, and the spring-arm, in combination with the metallic plate secured to the platen, substantially as shown and described.

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

FRANK A. BAGLEY.

Witnesses:

D. W. McNEAL,
THOS. H. WESTCOTT.