

No. 619,828.

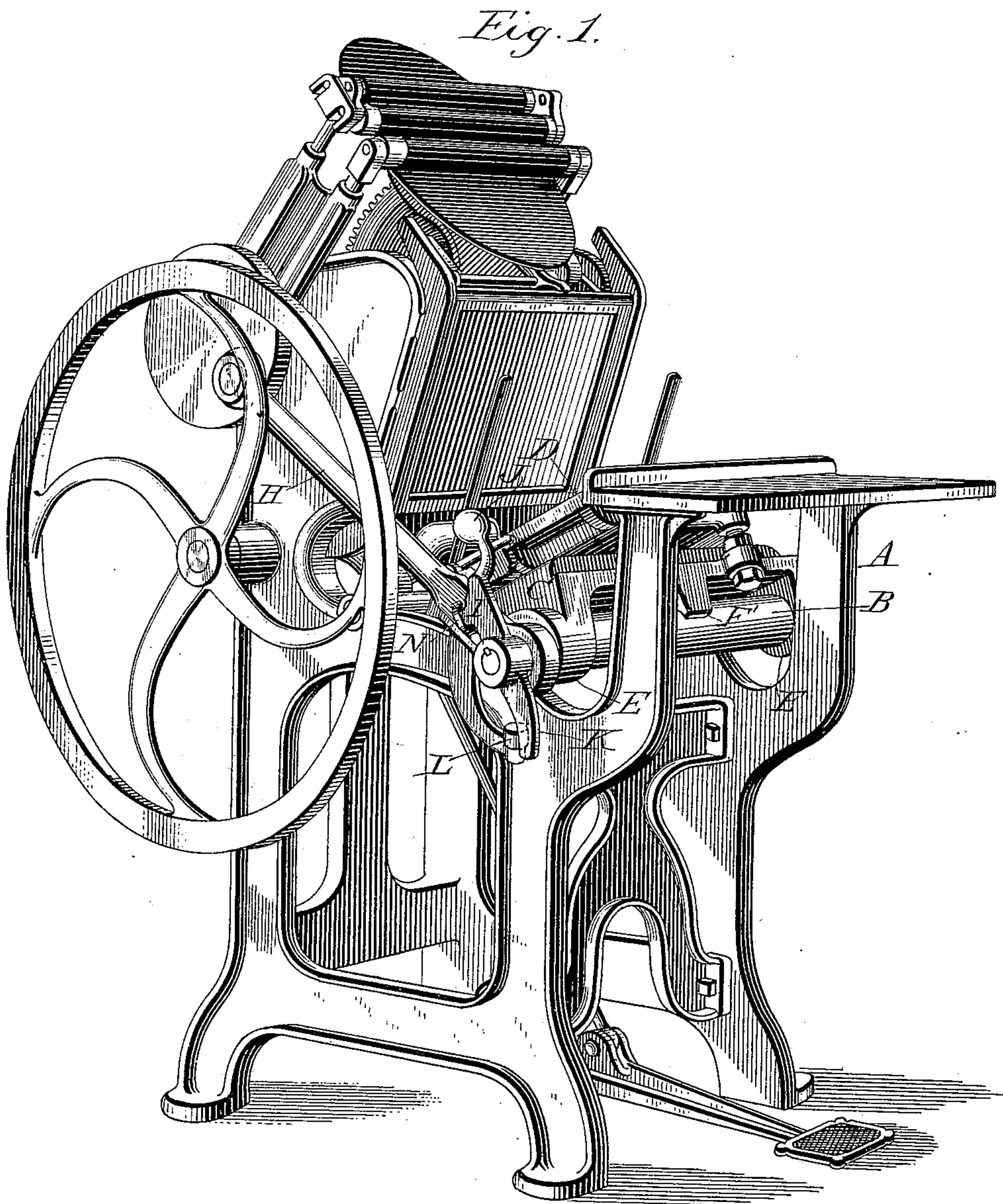
Patented Feb. 21, 1899.

J. M. JONES.  
PRINTING PRESS.

(Application filed July 11, 1898.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses  
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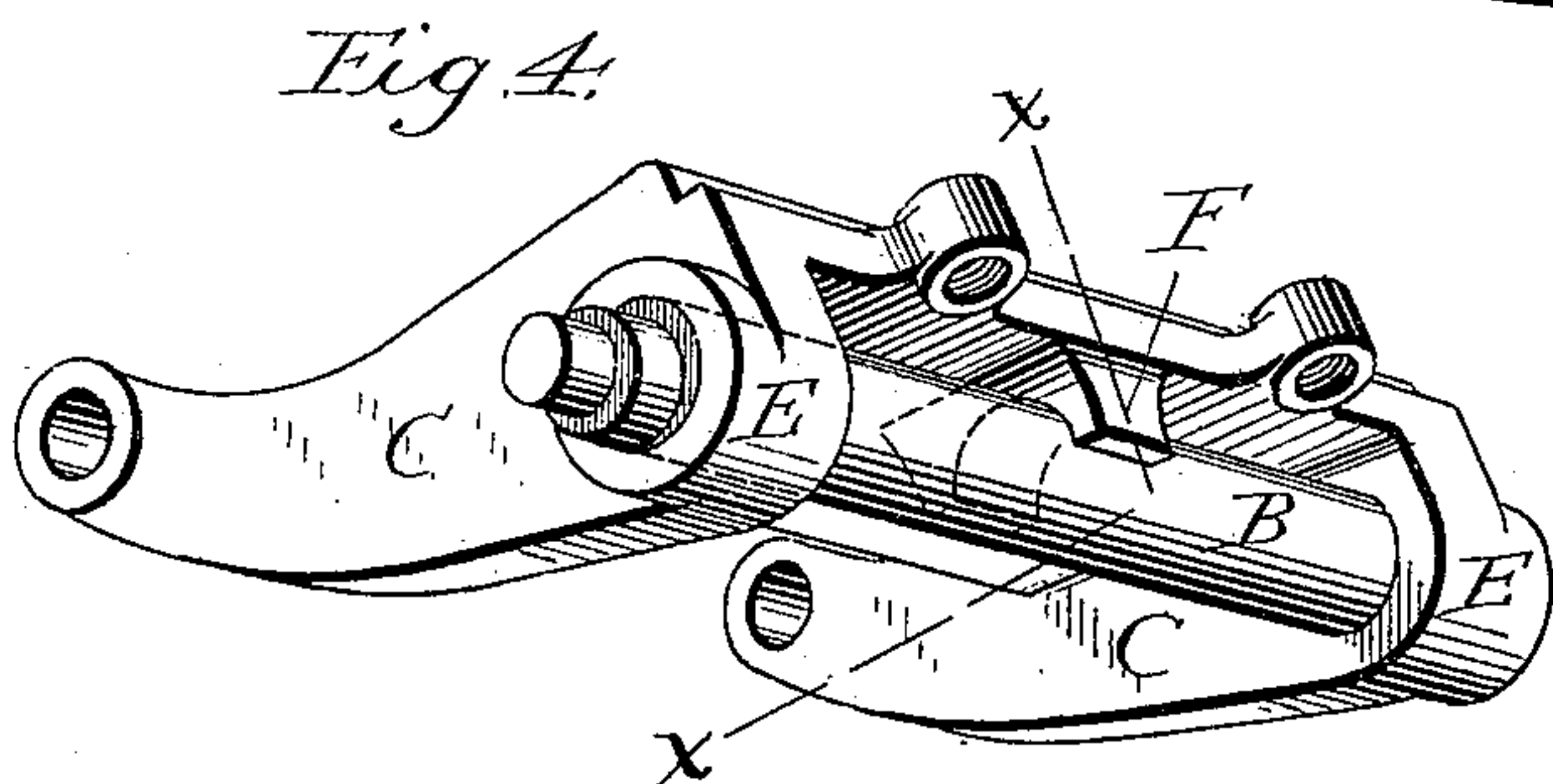
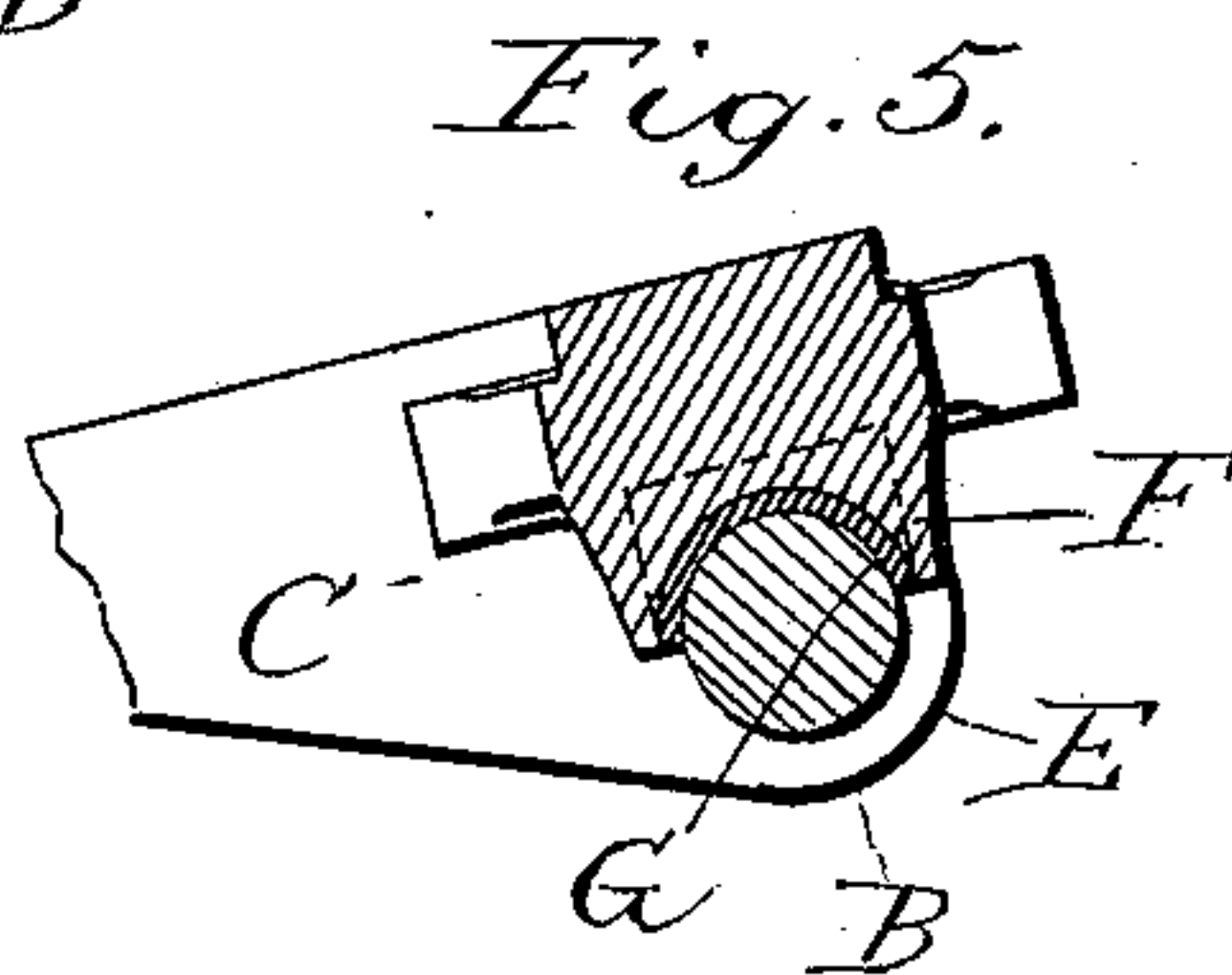
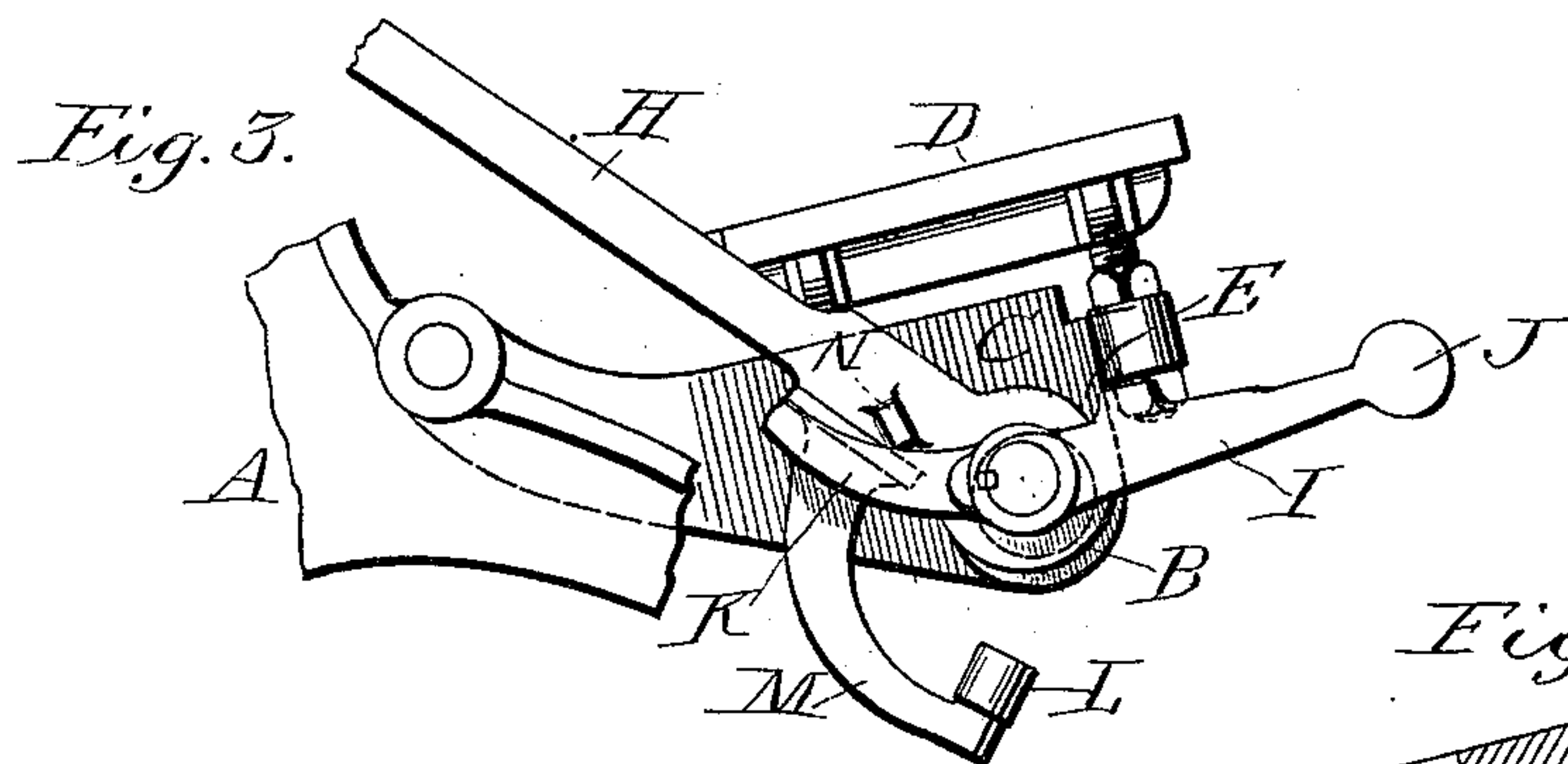
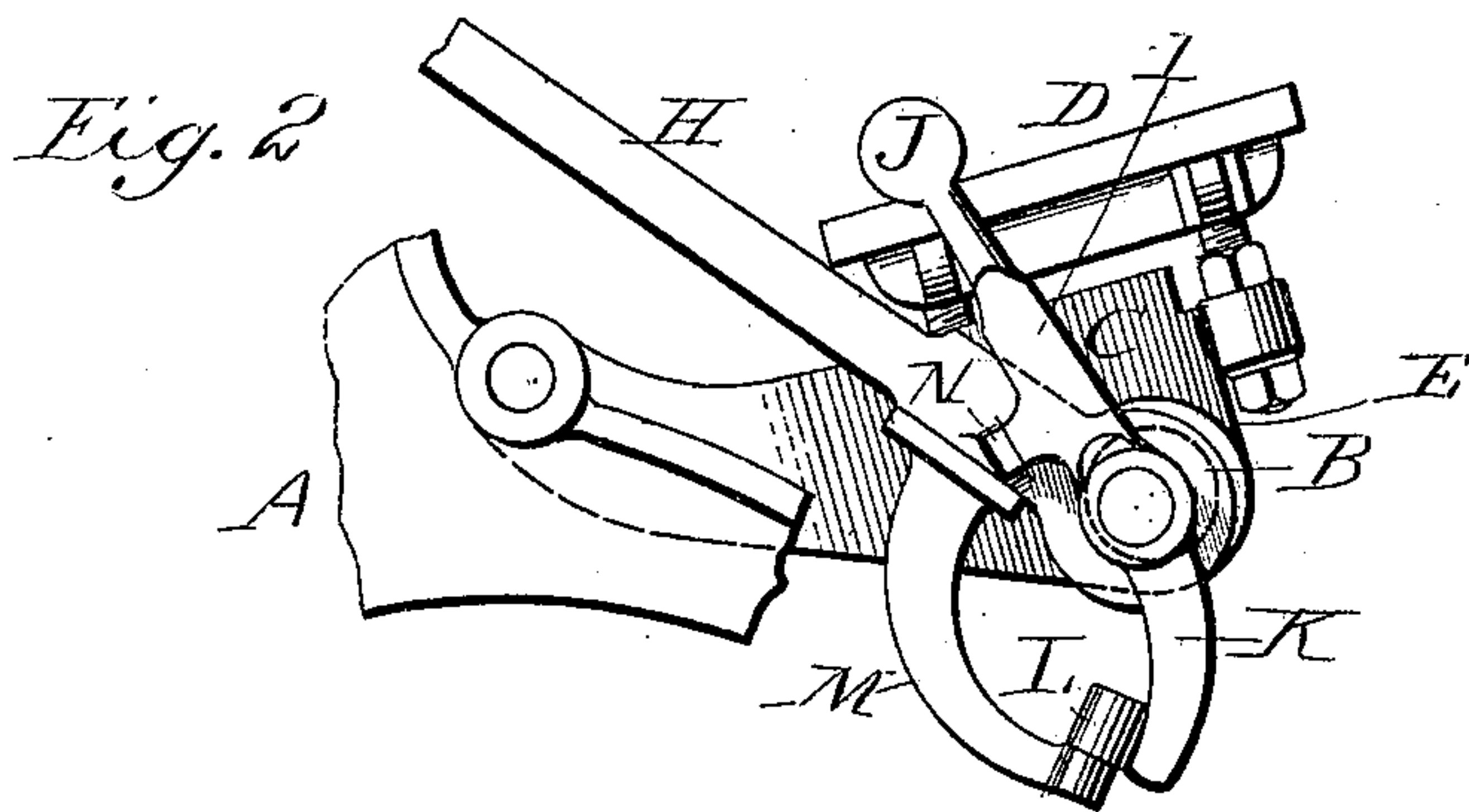
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2 Sheets—Sheet 2.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN M. JONES, OF PALMYRA, NEW YORK.

## PRINTING-PRESS.

SPECIFICATION forming part of Letters Patent No. 619,828, dated February 21, 1899.

Application filed July 11, 1898. Serial No. 685,692. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN M. JONES, a citizen of the United States, residing at Palmyra, in the county of Wayne and State of New York, have invented certain new and useful Improvements in Printing-Presses, of which the following is a specification.

My present invention pertains to improvements in printing-presses, the advantages and construction of which will be hereinafter set forth, reference being had to the annexed drawings, wherein—

Figure 1 is a perspective view of a press embodying my improvements; Figs. 2 and 3, side elevations showing the operative relation of certain parts; Fig. 4, a perspective view of the eccentric-shaft and the yoke attached thereto, and Fig. 5 a sectional view taken on the line *xx* of Fig. 4.

The object of the invention is to provide suitable means or devices for shifting the position of the eccentric-shaft and holding it in its adjusted position and also to provide an improved means of mounting the yoke upon the shaft and giving the parts a better bearing one upon the other.

Referring to the drawings, A denotes the frame of the press, and B the eccentric-shaft mounted therein in the usual manner in suitable bearings.

C denotes a yoke mounted upon shaft B and carrying the platen D, the attachment between the yoke and platen being made by suitable screws, as is usual. The yoke is provided at each end with arms E, in which bearings for the shaft are found. Centrally of the yoke there is formed what I term a "half-box," the box extending down from the under face of the yoke and bearing directly upon the shaft. This half-box is formed by casting upon the yoke a projection F, in the under face of which is formed a recess or pocket, which pocket is filled up with Babbitt metal or the like, as indicated by G, Fig. 5, the Babbitt metal fitting closely and bearing evenly upon the shaft. By thus supporting the central portion of the yoke directly upon the shaft the strength of the two is combined, giving more stability to the impression and rendering the press less liable to undue strains and breakage. By forming the central bearing in the manner described the three bear-

ings of the shaft are brought into exact alignment with more ease and certainty than would otherwise be possible were a bearing of the other form used at this point.

It is of course immaterial as to the exact formation of the chamber or recess formed in the projection F. It may be formed on the arc of a circle, as shown in full lines in Fig. 5, or it may be rectangular, as shown in dotted lines in said figure.

H denotes the links or impression-arms connecting the eccentric of the shaft to the driving mechanism of the press. The reduced end of the shaft extends out beyond the link connection, and keyed upon said reduced end is a lever I, preferably provided with a rounded handpiece J.

K denotes an arm which forms a continuation of the lever and extends down into the path of a roller L, carried upon a suitable support M, which is attached to the impression-arm H. A stop N is formed upon the arm H and serves to limit the movement of the lever I in both directions.

The relation of roller L and the arm K is such that as the arm passes the roller the parts are slightly sprung, so that when the arm has passed the roller a slight force is necessary to make it pass back again to the opposite side.

With the parts in the position indicated in Fig. 2, the relation of the eccentric is such that the impression is thrown off and is held in such adjustment by the aid of the arm J bearing against the roller L.

In Fig. 3 the adjustment or position of the eccentric is such that the impression is on.

Having thus described my invention, what I claim is—

1. In a press the combination of a platen-support; bearings formed in the ends thereof; an eccentric-shaft mounted in said bearings; and an independent projection extending down from the platen-support intermediate the bearings and bearing directly upon the shaft, whereby the shaft is supported intermediate its end bearings, substantially as and for the purpose described.

2. In a press the combination of a platen-support; arms E provided with suitable bearings; a shaft B mounted therein; and a projection F extending down from the platen-



support intermediate the arms E and provided with a Babbitt-metal bearing conforming to the face of the shaft, whereby the shaft is supported intermediate its end supports, substantially as and for the purpose described.

3. In combination with the eccentric-shaft of a press; an impression-arm connected thereto; a lever mounted on the outer end of the shaft and provided with a downwardly-extending arm; and a roller mounted upon a suitable support in line with the arm, substantially as and for the purpose described.

4. In combination with the eccentric-shaft and its connected impression-arm; a lever mounted upon the outer end of the shaft; and a roller carried by a support extending from the impression-arm; the relation of the lever and roller being such that as the lever is moved to shift the eccentric it will pass the roller and be held thereby in its adjusted position.

5. In a throw-off device for printing-presses, the combination of a platen and platen-support; an eccentric-shaft mounted in suitable bearings in said support; impression-arms extending from said shaft; a lever connected to the outer end of the shaft; an arm extending down from said lever; and a device carried by the impression-arm designed to im-

pinge against and to hold the arm against accidental movement from its adjusted position.

6. In a throw-off device for printing-presses, the combination of a platen-support C; an eccentric-shaft mounted therein; arm H extending from said shaft to the operative mechanism of the press; a support M secured to the arm; a roller L carried upon the end of said support; a lever I secured upon the end of the shaft; and an arm K extending down from the lever in line with the roller.

7. In a throw-off device for printing-presses, the combination of a platen-support; an eccentric-shaft mounted therein; an impression-arm H connected to said shaft; a support M extending from said arm and carrying a roller at its outer end; a lever I connected to the outer end of the shaft; an arm K extending down from said lever into line with the roller; and a stop N formed upon the arm H.

In witness whereof I hereunto set my hand in the presence of two witnesses.

JOHN M. JONES.

Witnesses:

H. CARLTON KNOWLES,  
JOHN W. FROHR.