

HENRY BARTH & R. J. MORGAN.

Feed Gauge for Printing Press.

No. 125,432.

Patented April 9, 1872.

Fig. 1

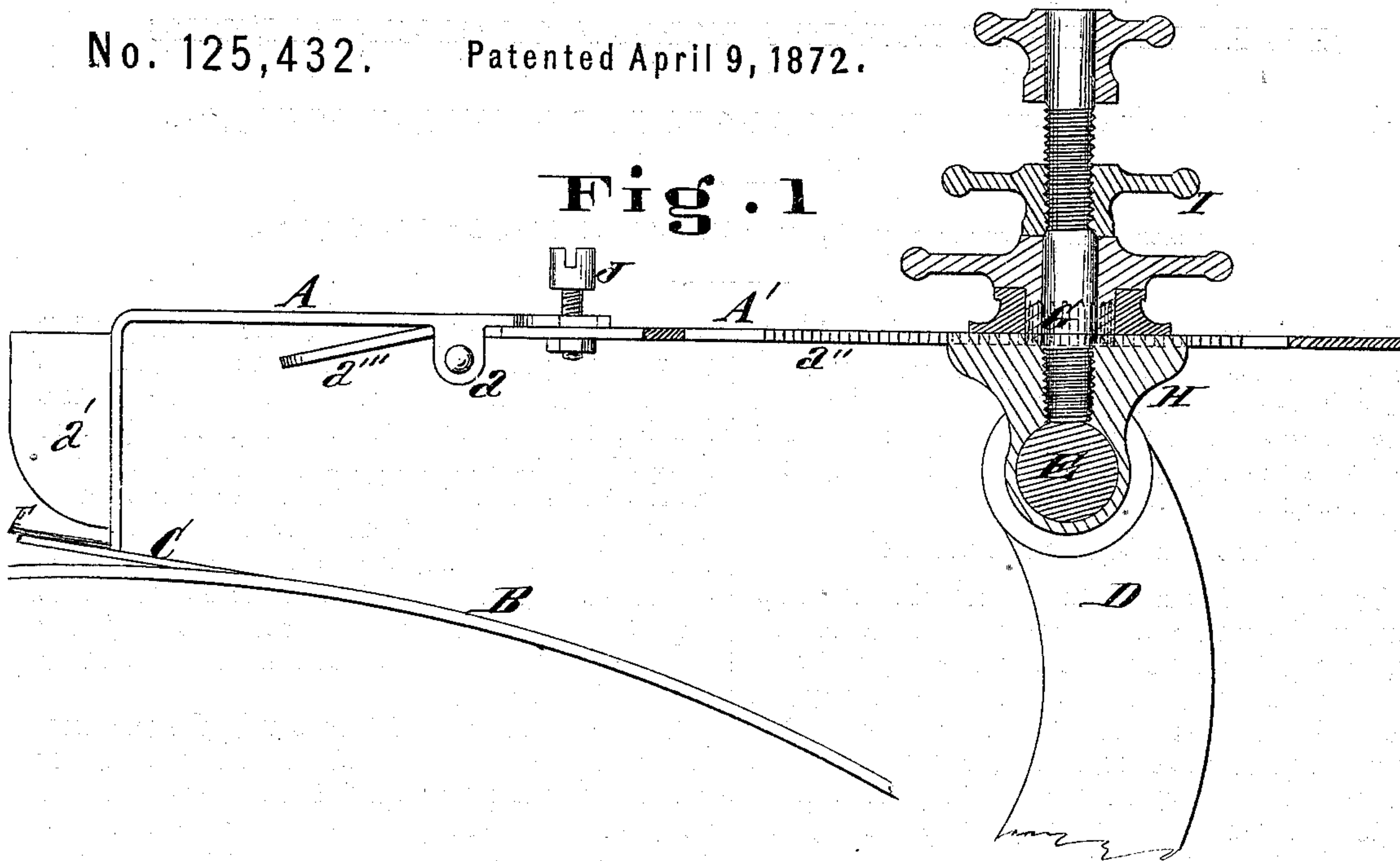


Fig. 2

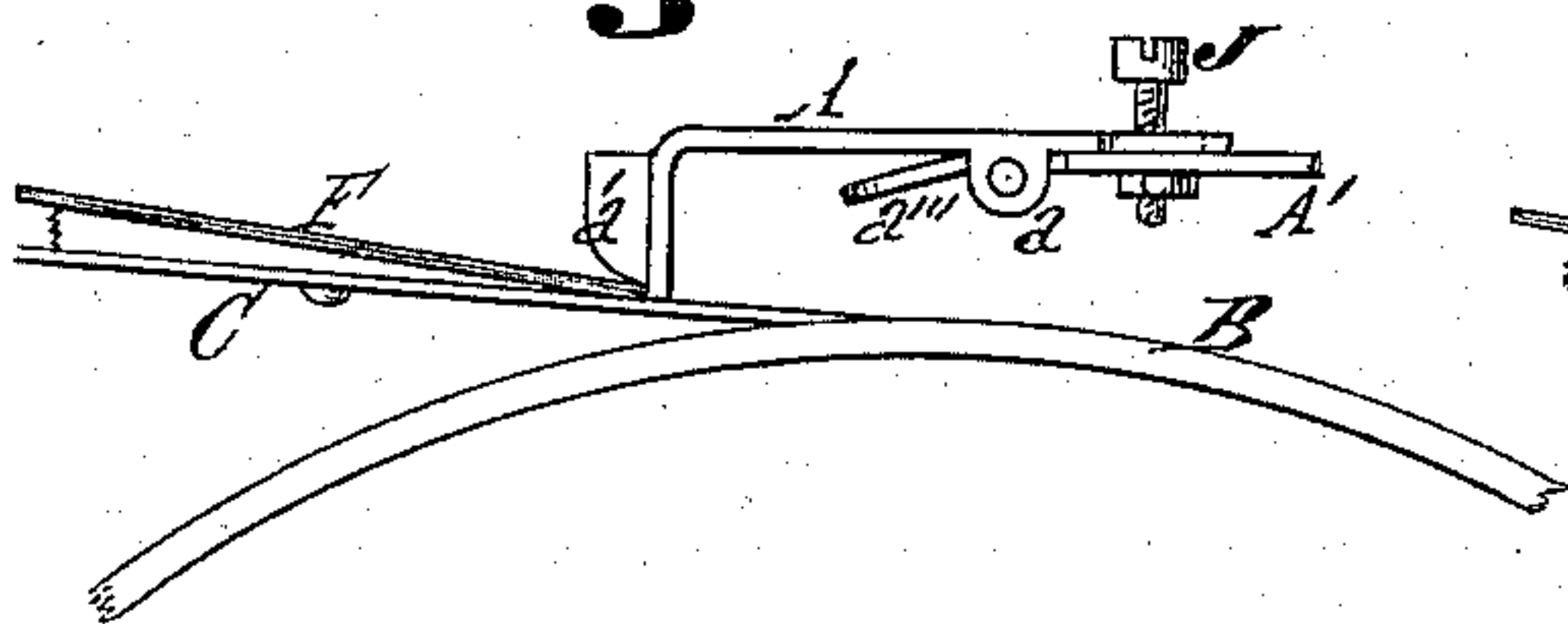


Fig. 3

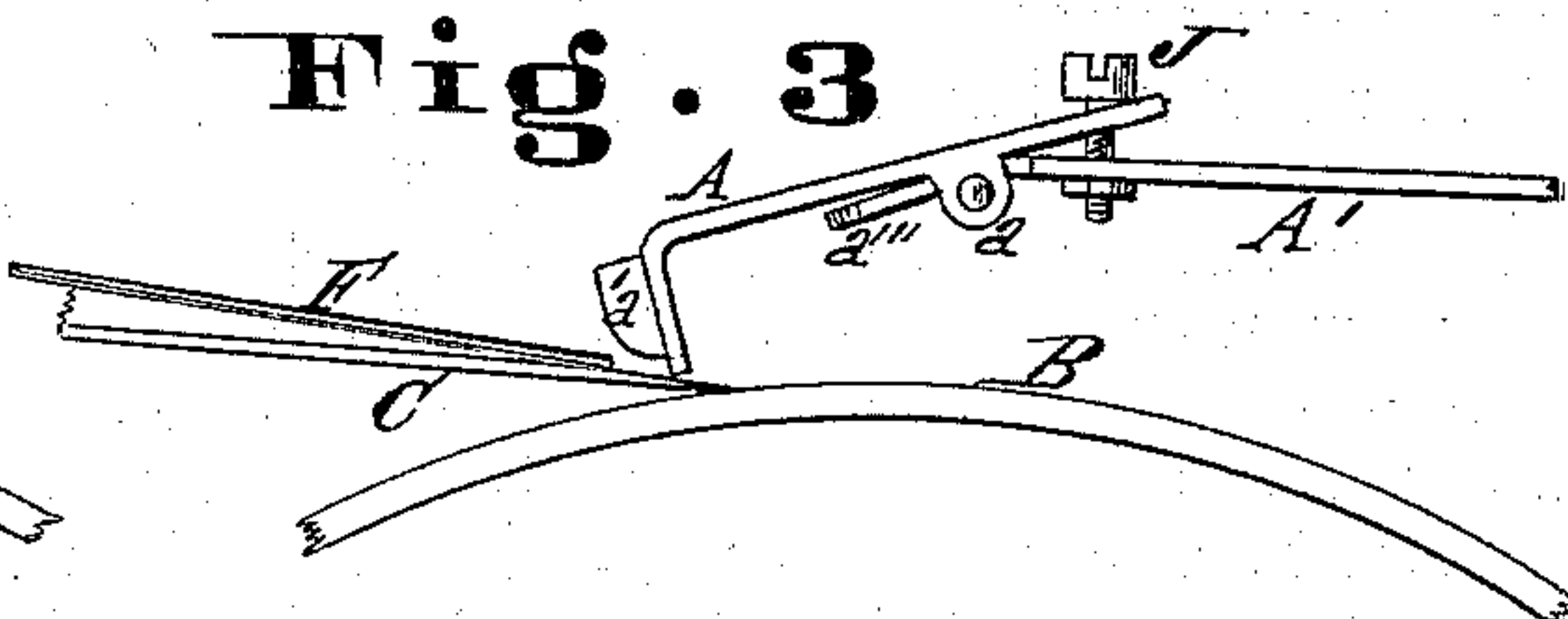
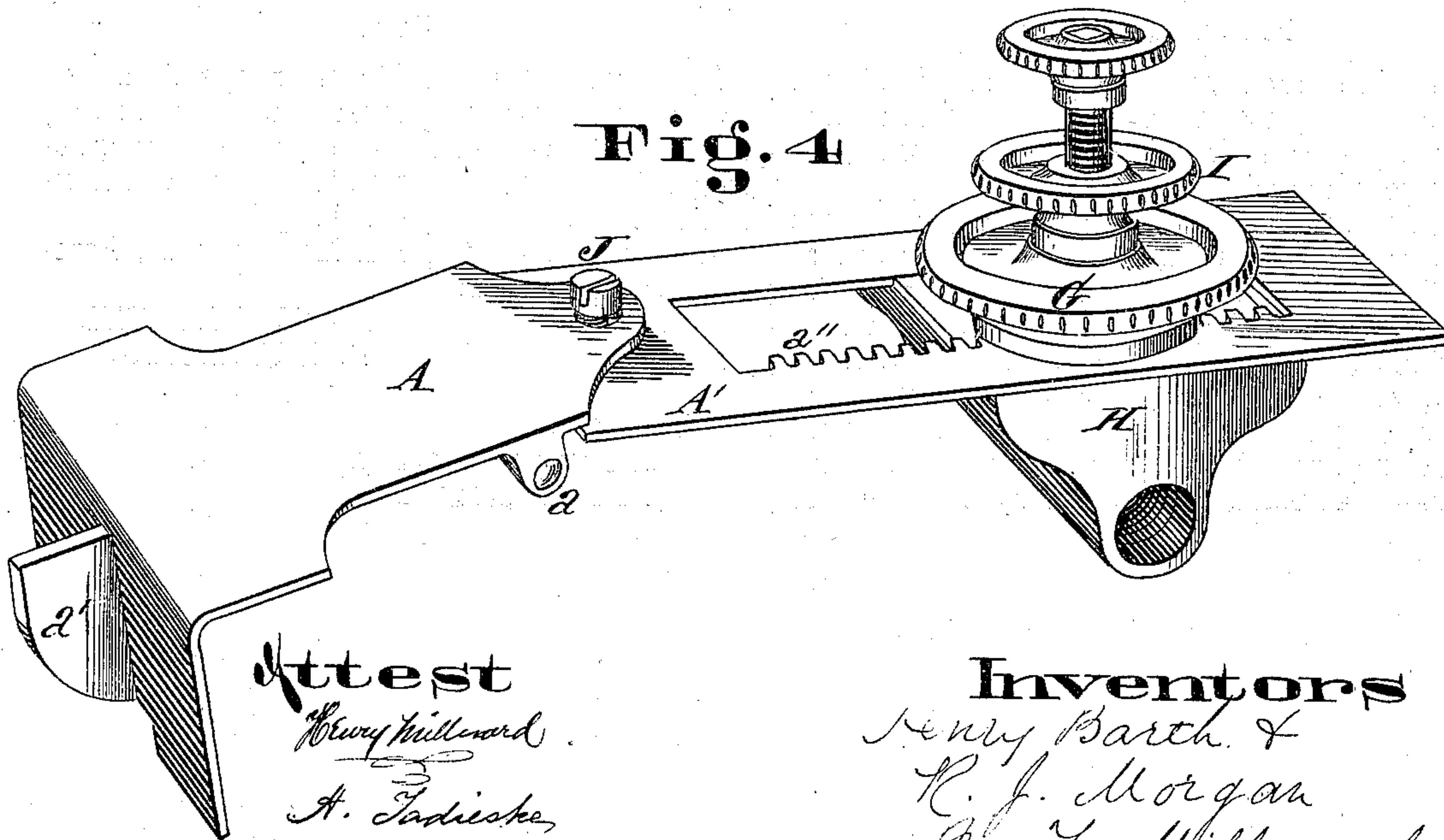


Fig. 4



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# UNITED STATES PATENT OFFICE.

HENRY BARTH AND ROBERT J. MORGAN, OF CINCINNATI, OHIO.

## IMPROVEMENT IN FEED-GAUGES FOR PRINTING-PRESSES.

Specification forming part of Letters Patent No. 125,432, dated April 9, 1872.

We, HENRY BARTH and ROBERT J. MORGAN, of Cincinnati, Hamilton county, State of Ohio, have invented a certain new and useful Improvement in Guides for the Feeding of Paper to Presses, of which the following is a specification:

### *Nature and Objects of Invention.*

Our invention consists in a certain construction of the guide, by which it is made to present a rigid front or face for the paper to be fed against; yet, when its purpose as a guide has been fulfilled and it is necessary for the sheet to pass under it, it has a retreating or backward movement preparatory to rising, which serves to prevent it from lifting the edges of the paper.

### *Description of the Accompanying Drawing.*

Figure 1 is an elevation of our improved guide in connection with a cylinder-press. Figs. 2 and 3 represent smaller figures of the same, the former in the position necessary for the guide when it receives the edge of the paper, and the latter in the act of rising to permit the forward progress of the paper. Fig. 4 is a perspective view of our improved guide.

### *General Description.*

Our improved guide is composed of two parts, A A', jointed loosely together at *a*. The part A projects forward and has a downwardly-projecting end, which forms the face, against which the paper is fed. This face or front is provided with a web, *a'*, which is curved at the lower end to conduct the paper to the lower edge of the guide. B is the cylinder of the press, and C the feeding-table. The bracket D, which is a part of the frame of the machine, supports the shaft E, to which the part A' of the guide is secured, the shaft E being operated as usual by a vibratory movement to

raise and lower the guide, the raising of it serving to permit the paper F to pass, and the lowering serving to replace the guide on the feeding-table to receive the next sheet. The part A' of the guide is adapted, by means of rack *a''* and a pinion, G, to slide on the block H, which connects A' with shaft E for the purposes of adjustment, the lock-nut I being used to secure it at any point of adjustment. The adjusting-screw J and projection *a'''* of the plate A' limit in both directions the vibration of part A on joint *a*.

In the operation of this guide the position of parts A and A' with relation to each other when in position to receive the paper and serve as guide is correctly shown in Figs. 1 and 2, the edge of the paper F being against the face of the guide. When it is necessary to permit the paper to pass onward the shaft E is turned so as to raise the guide A A'; but in this operation, owing to the provision of the loose joint *a*, the face of the guide makes a backward movement, as shown in Fig. 3, before it leaves the table, and thus relieves itself from the edge of the paper entirely, so that when it is lifted it has no tendency to lift the paper or otherwise displace it.

### *Claim.*

The jointed feed-guide or gauge A A', or equivalent, by which, after the paper is fed, the guide is caused to have a retreating or retrograde movement before it is lifted, substantially as and for the purpose specified.

In testimony of which invention we hereunto set our hands.

HENRY BARTH.  
R. J. MORGAN.

### Witnesses:

HENRY MILLWARD,  
FRANK MILLWARD.