

C. W. AMES.

Perforating Rules for Printers.

No. 145,380.

Patented Dec. 9, 1873.

Fig. 1.

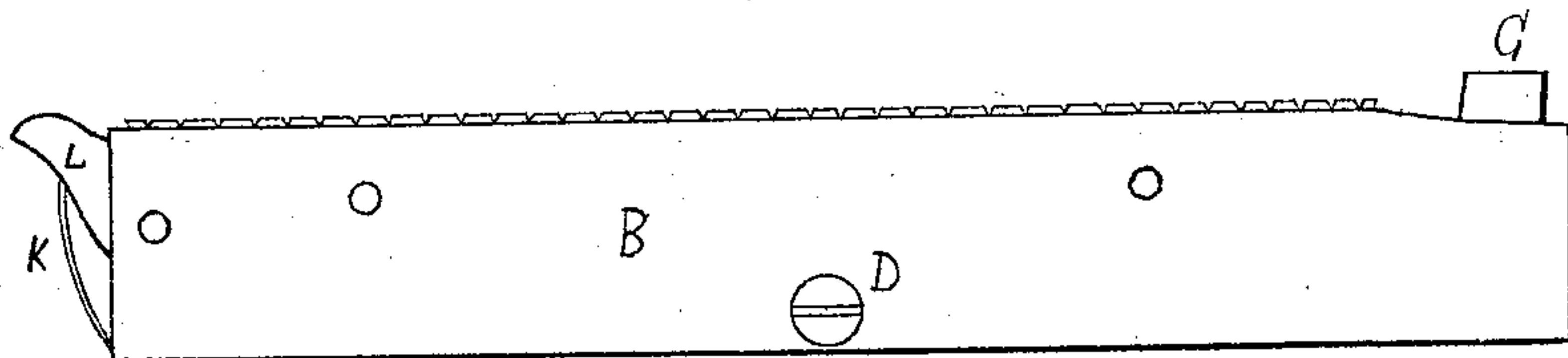


Fig. 2.

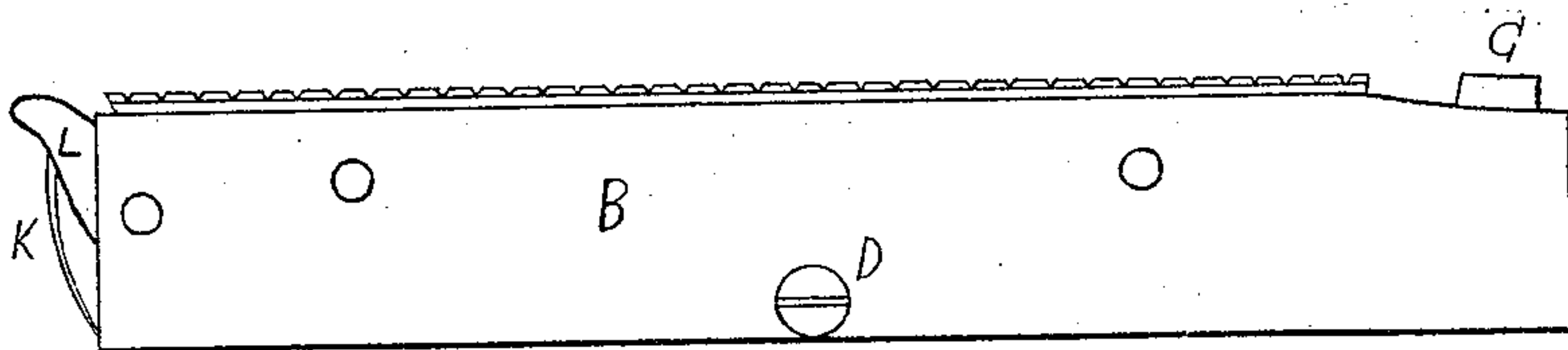
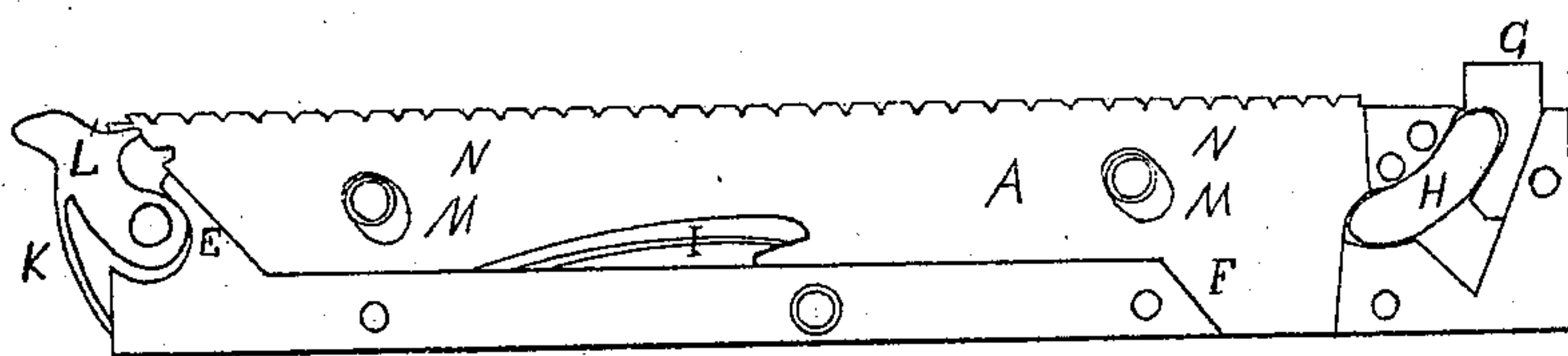


Fig. 3.



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## IMPROVEMENT IN PERFORATING-RULES FOR PRINTERS.

Specification forming part of Letters Patent No. **145,380**, dated December 9, 1873; application filed August 9, 1872.

*To all whom it may concern:*

Be it known that I, CHAUNCEY W. AMES, of the city of New York and State of New York, have invented certain Improvements in Perforating-Rules for Printers, of which the following is a specification:

In the accompanying drawings, Figure 1 is a side view of my perforator for dividing sheets of paper when printing. Fig. 2 is a view of the same when the perforator is pushed upward and forward to cut the sheet of paper. Fig. 3 shows one of the side plates removed, and the internal construction and arrangement.

My invention consists of a knife provided with teeth, and moved upward and forward on oblique bearings, the same being placed in the form with the type, and operated simultaneously with the printing process.

My knife or perforator proper is made with teeth, as seen in Fig. 3. This knife is placed between the two side plates B, which are held together by means of a screw, D. This knife has two oblique bearings, E and F, upon which it slides, or is moved forward and upward, by means of the two slides G and H, or by pressure upon the slide G, thus pushing downward and forward the slide H, and, consequently, the knife A, which is returned to its place by means of the spring I. Two oval and oblique slots, M, allow the knife to move freely on the rivets N, Fig. 3.

In order to adapt the perforator as well for

use on cylinder-presses, by holding the knife in position after the pressure is removed from the slide G, the locking pawl or attachment L, Fig. 3, is added, consisting of a pivoted tumbler, fitted to an indentation in the knife, into which, when the knife is raised to position by pressure of the spring I, after the impression, the cylinder, in passing off, presses the elevated end or point of the pawl or tumbler L, forcing it back, and releasing the knife, which then falls or returns to its place or position precisely as if constructed without this attachment.

This perforator is placed in the form with the type, in proper position for cutting the sheet when printing. The teeth of the knife are below the face of the type, so as not to get any ink. At the proper time pressure is made upon the slide G, when the knife is raised and the paper thus perforated.

Having thus described my invention, I claim—

1. The perforator A, provided with oblique bearings E F, and confined between the plates B B, in combination with slides G H for operating the perforator, substantially as and for the purpose described.

2. The locking-pawl L, in combination with the knife or perforator, substantially as described, and for the purposes set forth.

Witnesses:

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