

R. E. KIDDER.

COPYING-PRESS.

No. 188,469.

Patented March 20, 1877.

Fig. 1.

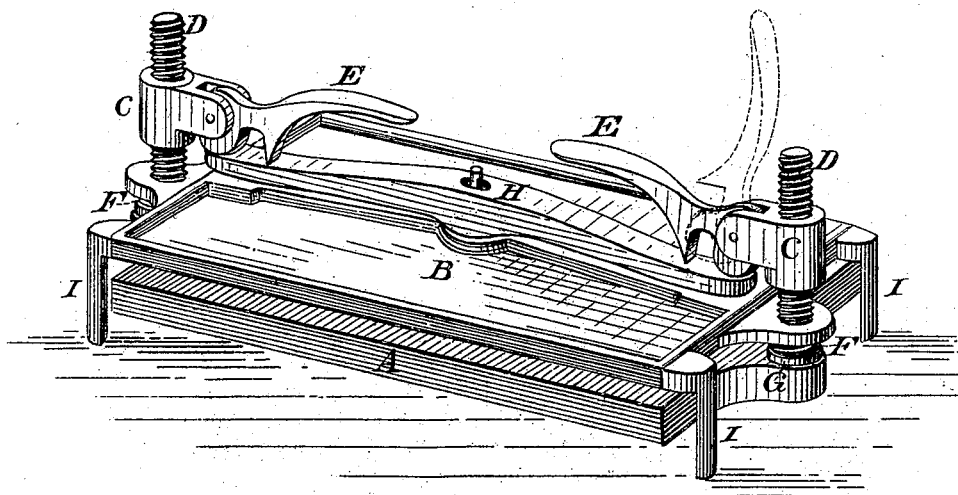
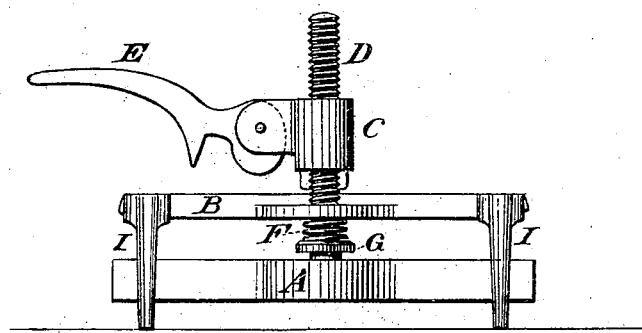


Fig. 2.



Attest:

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UNITED STATES PATENT OFFICE.

RICHARD E. KIDDER, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO
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IMPROVEMENT IN COPYING-PRESSES.

Specification forming part of Letters Patent No. **188,469**, dated March 20, 1877; application filed
October 12, 1876.

To all whom it may concern :

Be it known that I, RICHARD E. KIDDER, of the city and county of Worcester, in the State of Massachusetts, have invented certain Improvements in Copying-Presses, of which the following is a specification, due reference being had to the accompanying drawings by the letters of reference marked thereon.

My invention relates more particularly to copying-presses used for copying letters and similar purposes. It consists in adapting certain adjustable devices to control the relative action of the bed and platen, together with the construction of coacting parts necessary to promote its efficiency.

In the accompanying drawings, Figure 1 is a perspective view, and Fig. 2 an end view, showing a swivel and lever as in the operation of adjustment, the same letters indicating the same parts wherever they occur.

A is the bed, holding the standards or screws D D firm at each end; B, the platen, having ears to guide it on the screws D D. I I are its legs, at each corner. C C are swivels or sockets, made adjustable on the screws D D by a thread cut in each, or with nuts, or a set-screw, to hold them in place, and each

having a cam-lever, E E, pivoted over the platen, and bearing on each end of it, or, by means of the yoke H, bearing on its center, the cams working on each end of H. At F F are two springs, to separate the bed A and platen B when the cam-levers are turned off, these springs being adjustable by the nuts G G, fitting on the screws D D. The legs I I support the whole, and in operation the bed A rises when the cam-levers E E are turned down, and falls when they are turned up, the springs F F keeping the ends even; and when the legs I I are not used or are left off, the springs separate the platen and bed by raising the former, in the usual way.

I claim—

1. The combination of the bed A, standards D D, having adjustable sockets C C, carrying cam-levers, and the platen B, substantially as and for the purposes set forth.

2. The adjustable springs F F and their nuts, in combination with the socket-bearing standard D D, bed A, and platen B, as and for the purposes described.

R. E. KIDDER.

Witnesses:

I. GREEN,
J. G. ARNOLD.