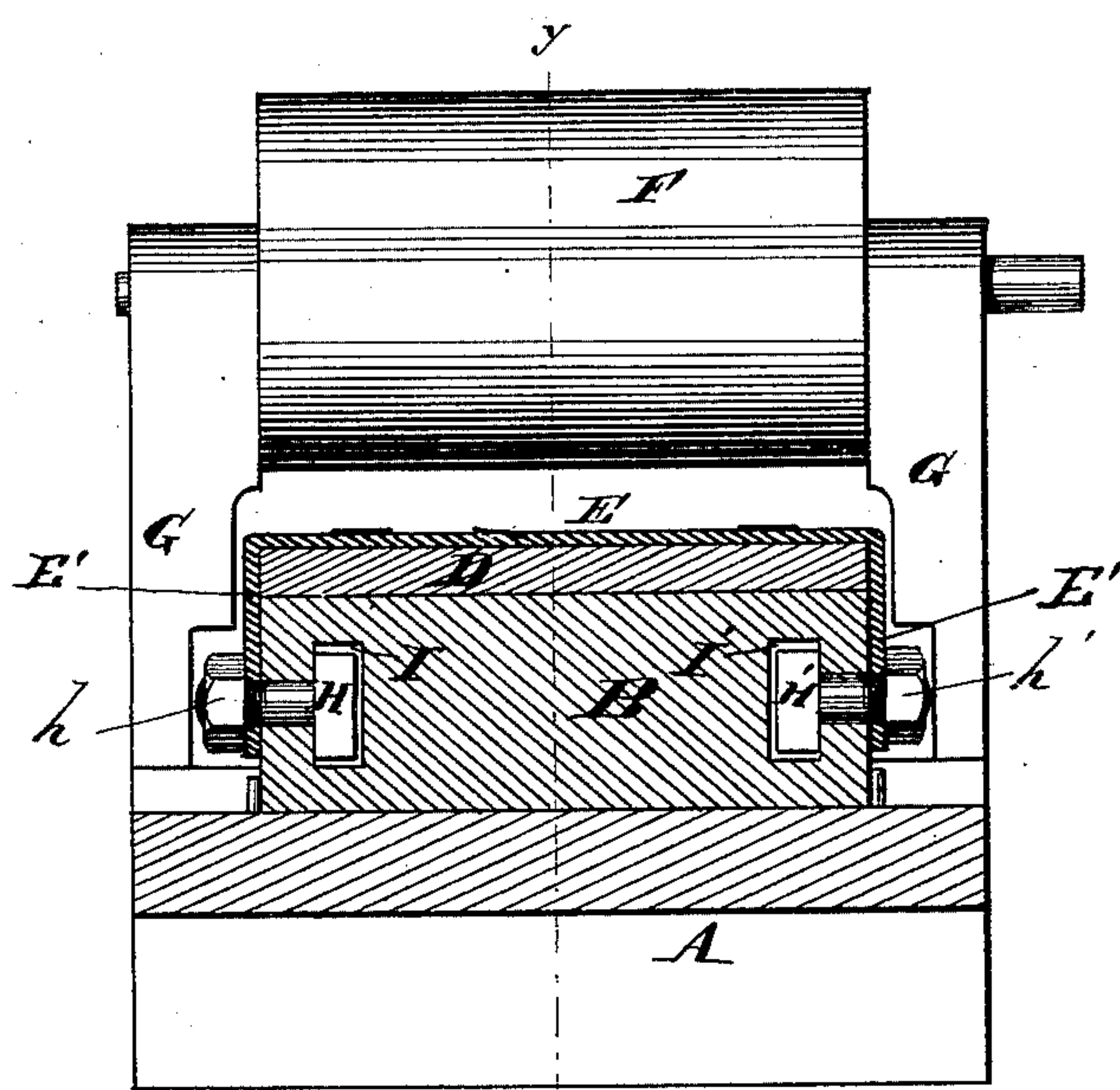
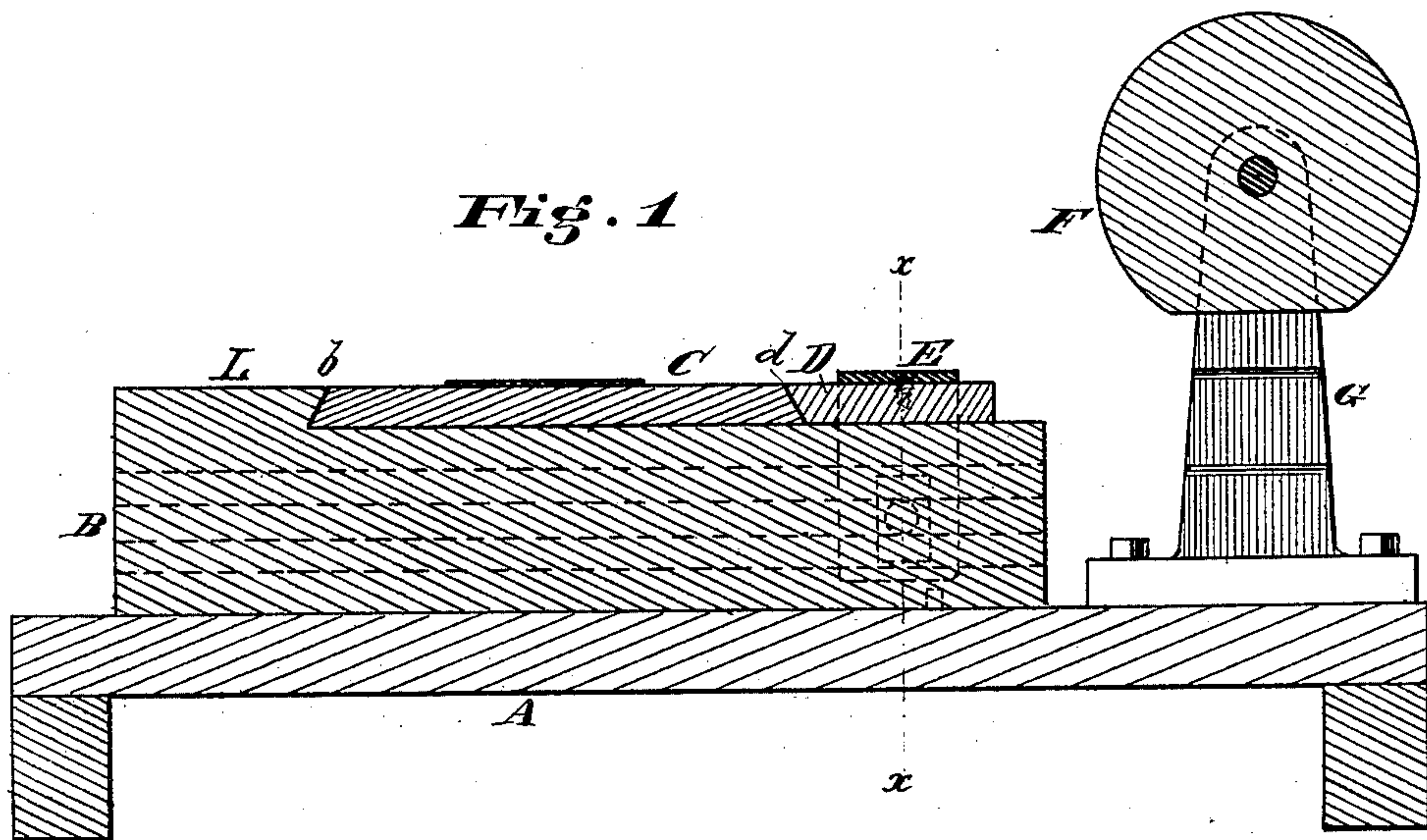


L. DREKA.  
Die-Clamp for Plate-Printing Presses.  
No. 223,323.                      Patented Jan. 6, 1880.



*Attests*  
*John Dolley Jr*  
*Edwin Fisher,*

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*Louis Dreka*  
*By his Attorneys,*  
*W. C. Mawbridge,*  
*J. Bonsall Taylor.*



# UNITED STATES PATENT OFFICE.

LOUIS DREKA, OF PHILADELPHIA, PENNSYLVANIA.

## DIE-CLAMP FOR PLATE-PRINTING PRESSES.

SPECIFICATION forming part of Letters Patent No. 223,323, dated January 6, 1880.

Application filed October 7, 1879.

*To all whom it may concern :*

Be it known that I, LOUIS DREKA, of Philadelphia, Pennsylvania, have invented a new and useful Improvement in Die Clamps or Chases for Use in Plate-Printing Presses, of which the following is a full, clear, and true description, reference being had to the accompanying drawings, forming part hereof, in which—

Figure 1 is a longitudinal sectional elevation of a press embodying my improvement, section being supposed on the line *yy* of Fig. 2; and Fig. 2, a transverse sectional elevation of the same on the line *xx* of Fig. 1, looking from the left-hand side of said Fig. 1.

Similar letters of reference indicate corresponding parts wherever used.

My invention relates to presses or other devices employed in printing from engraved plates, dies, and the like; and its object is the equipping of the traveling bed-plate of the ordinary form of roller-press with adjustable appliances whereby the die or engraved plate is held fixedly in position.

Heretofore the construction of the adjustable appliances in use for the above purpose has been defective, either by reason of cost or liability to get out of order. I have devised the herein-described form of adjustable ledge, which I consider an improvement upon those at present in use.

The following is a convenient form of apparatus embodying my invention:

A is the base or frame, lengthwise upon which the bed-plate B is caused to travel by any convenient mechanism. B is the bed-plate, of any usual form. F is the pressure-roller, which, in the present form of apparatus, is used to impart the requisite pressure to the article printed upon the plate or die. The roller is supported upon two standards, G, which straddle the bed-plate.

At one extremity of the upper surface of the bed-plate is formed a permanent ledge, L, the office of which is to serve as an abutment for one end of the plate or die. Its edge may be beveled, as at *b*, in order the more effectually to secure in place the die, which may be correspondingly and reversely shaped.

E D is a sliding clamp, by the employment of which the press is rendered available for various sizes of plates.

The clamp consists of a movable ledge, D, corresponding to the permanent ledge L, transverse to the bed-plate, and of side clamps, E' E'. Its edge may be beveled, as at *d*.

The side clamps, E', extend down over the sides of the traveling bed-plate.

I I' are longitudinal dovetails or interior slots, longitudinally channeled on both sides of the traveling bed-plate B. They are so shaped as to contain and prevent from rotation the heads of clamp-bolts H H', while permitting the latter to be moved longitudinally within them.

The shanks of the bolts project laterally out and pass through the slide-clamps E', against which they are bound by the nuts *h h'*.

Such being the construction of my invention, it operates as follows: The die, engraved plate, or type-plate is laid upon the traveling bed-plate B, against the permanent ledge L, and the movable clamp-ledge D E brought up in contact with it. The nuts *h h'* are then tightened up, with the effect of binding the side portions, E' E', of the clamp against the sides of the bed-plate B, and thereby securing the die or engraved plate rigidly in position.

The action of printing from the plate when secured is well known.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a press for printing from engraved plates, dies, and the like, the combination, with the bed-plate B, provided at its sides with dovetailed grooves I I', of the adjustable sliding clamp E D, composed of the ledge D and side clamps, E' E', which latter are adjustably united with the bed-plate by means of the clamp-bolts H H', substantially as set forth.

In testimony whereof I have hereunto signed my name this 6th day of October, A. D. 1879.

LOUIS DREKA.

In presence of—

J. BONSALE TAYLOR,  
W. C. STRAWBRIDGE.