No. 880,491. PATENTED MAR. 3, 1908.

C. E. ADAMSON.

COPY PRESS.

APPLICATION FILED FEB. 10, 1906. RENEWED JULY 26, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

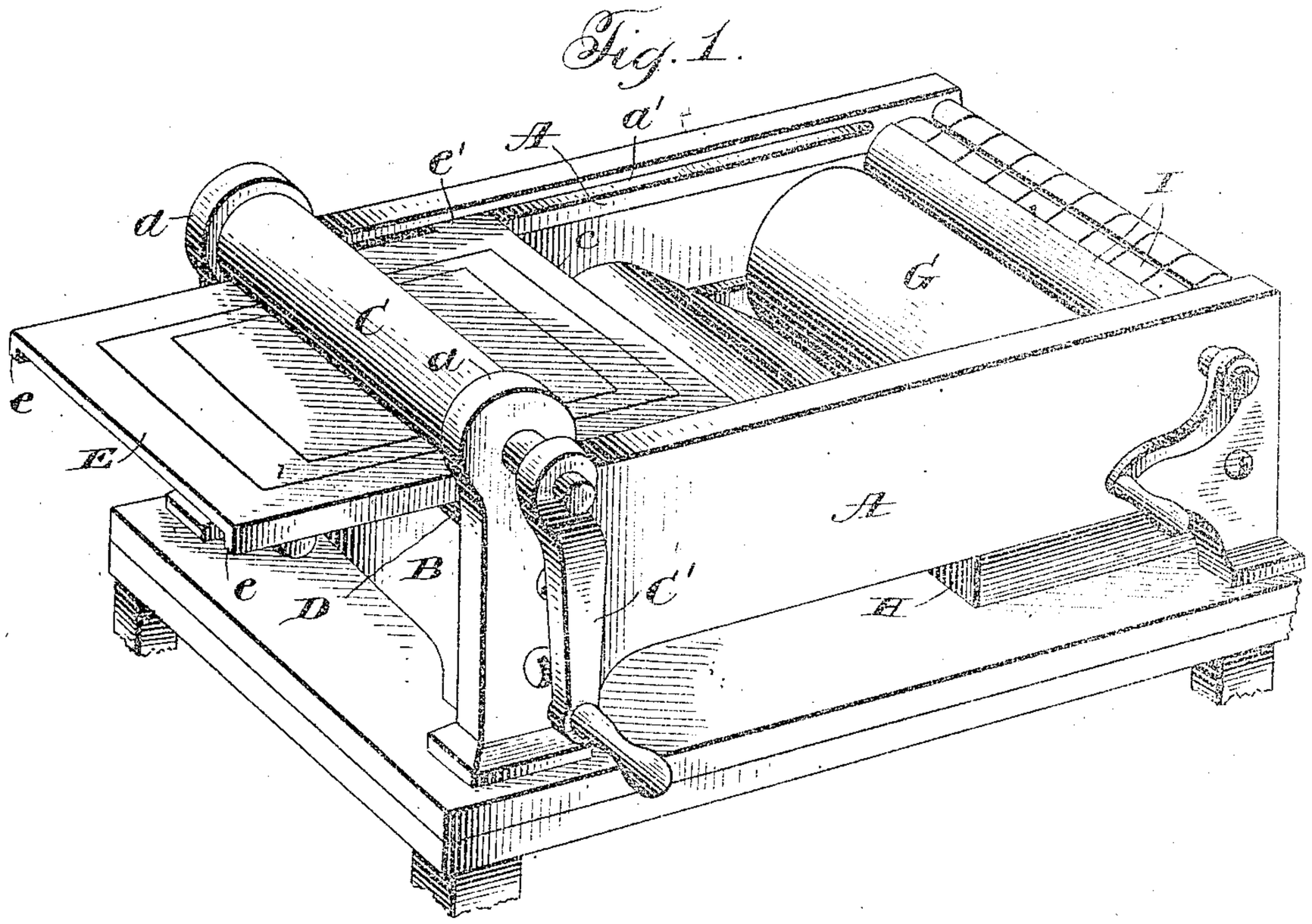
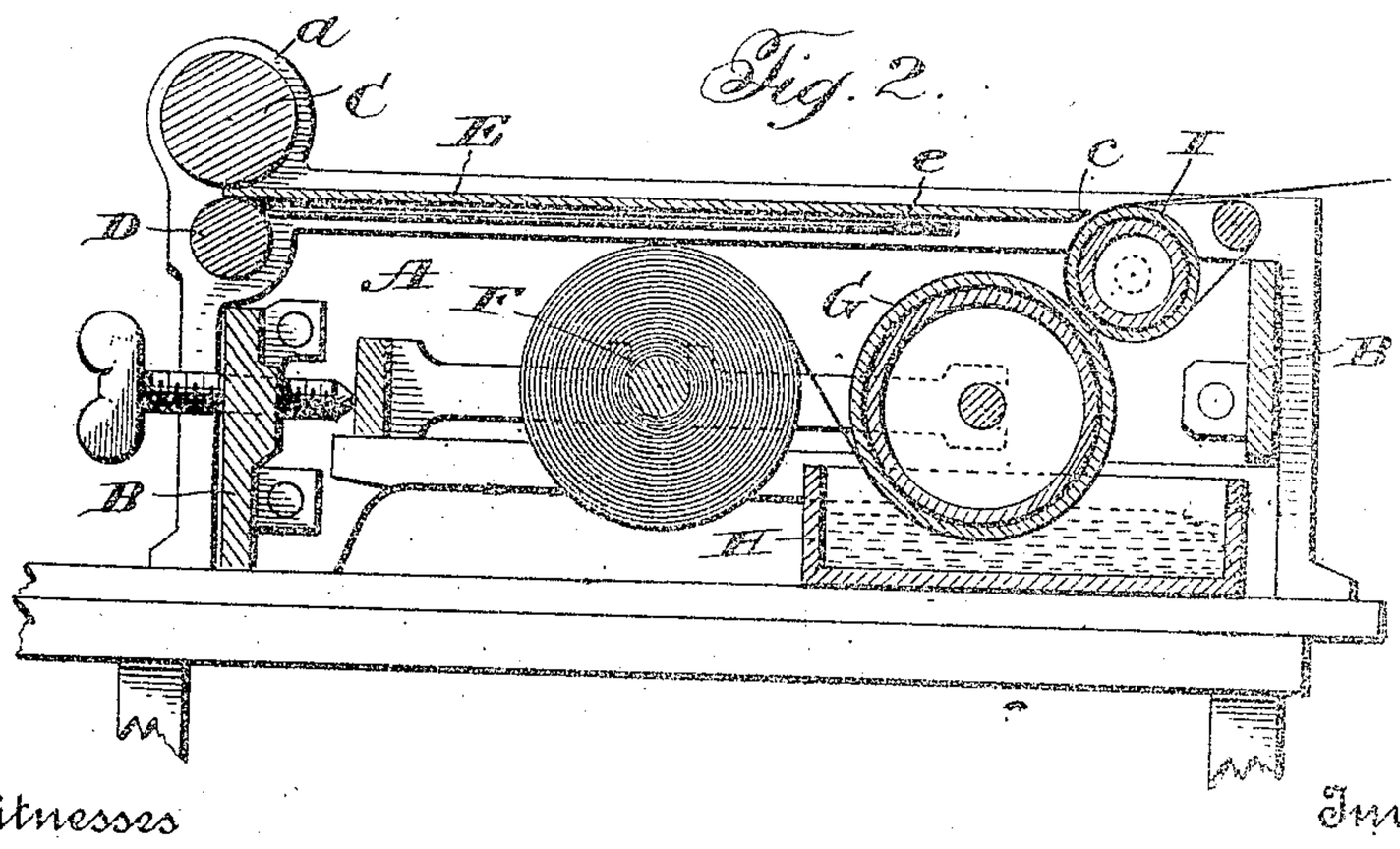


Fig. 2.



Witnesses

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2 SHEETS—SHEET 2

Fig. 3.

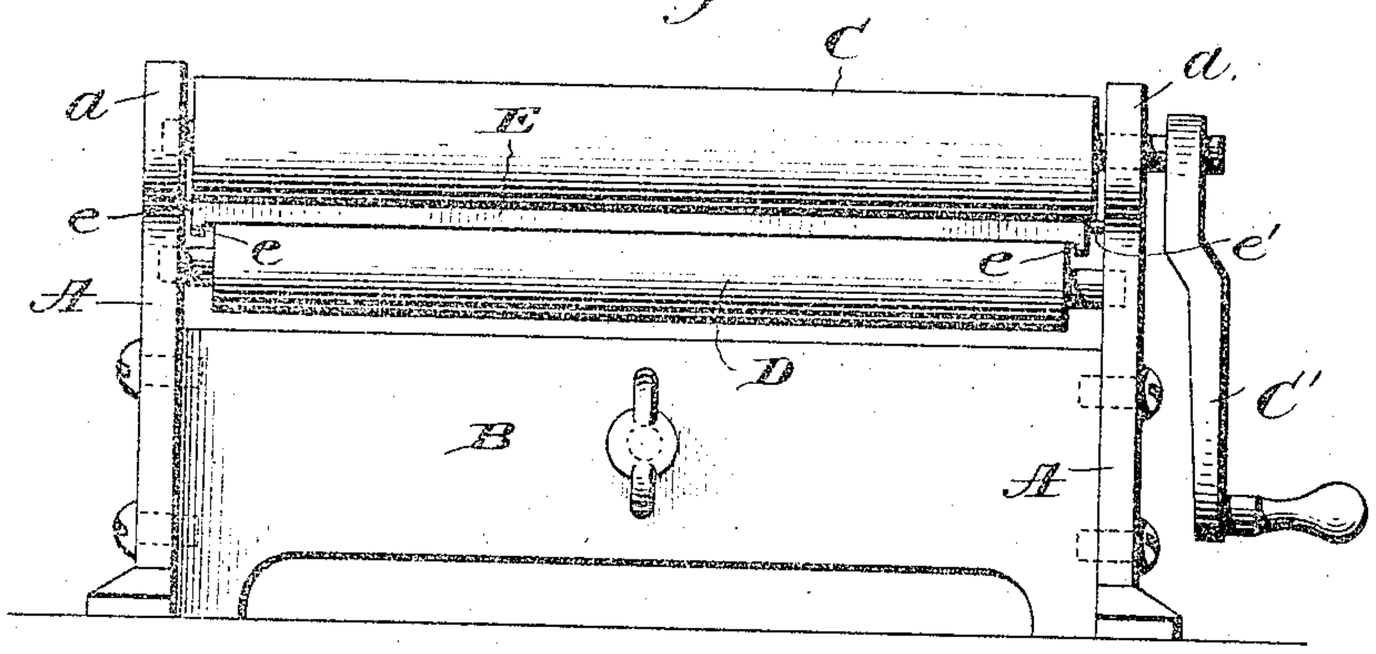


Fig. 4.

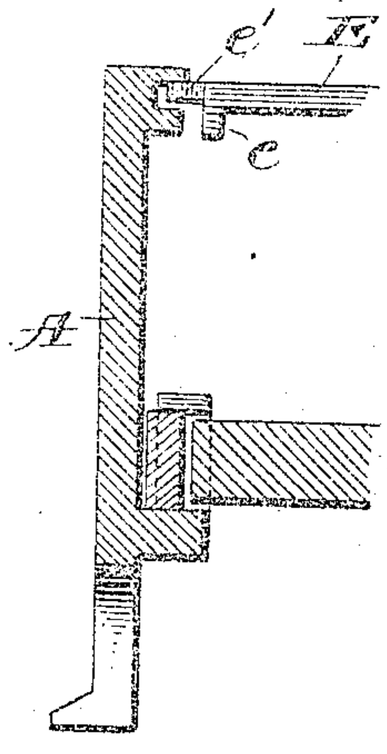
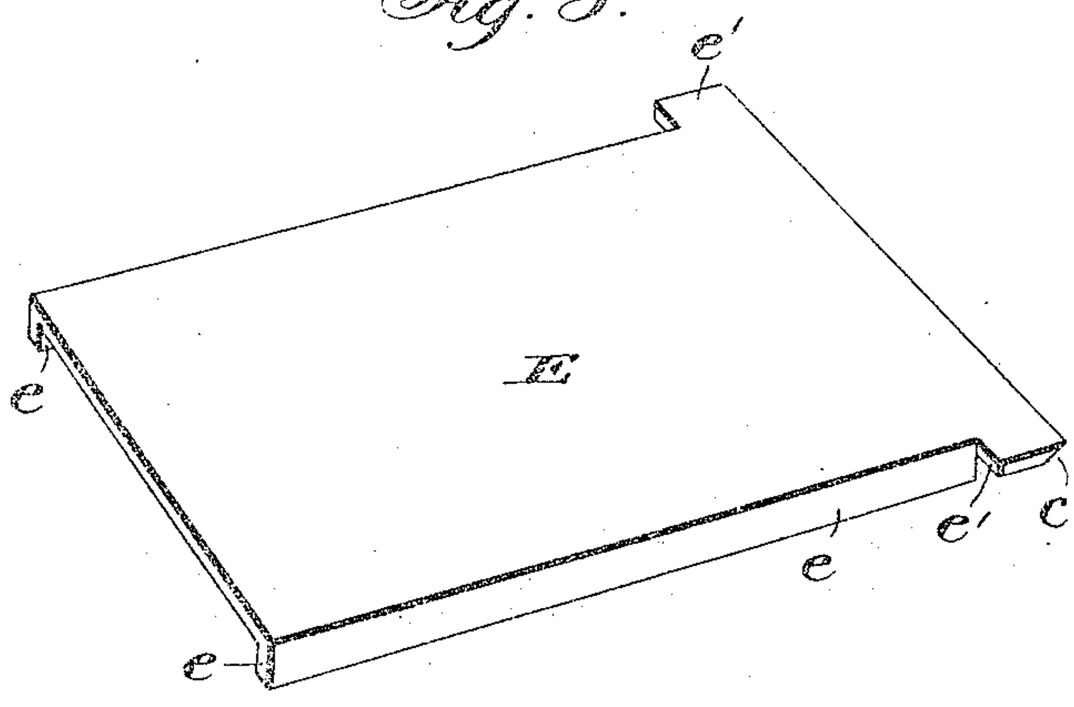


Fig. 5.



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UNITED STATES PATENT OFFICE.

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COPY-PRESS.

No. 880,491. Specification of Letters Patent. Patented March 3, 1908.

Original application filed June 9, 1904, Serial No. 211,859. Divided and this application filed February 10, 1905. Serial No. 245,119. Renewed July 26, 1907. Serial No. 385,686.

To all whom it may concern:

Be it known that I, CHARLES ELLSWORTH ADAMSON, a citizen of the United States, residing at Marion, in the county of Grant and State of Indiana, have invented certain new and useful Improvements in Copy-Presses, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to an improvement in copy presses and is a division of my application filed June 9th, 1904, and bearing Serial No. 211,859.

The object of the invention is the provision of a copy press, which is simple in construction and with which the copy being made is at all times in full view of the operator.

A further object is the provision of a copy press in which the copying paper is carried on a roll and cut off before the copy is made, thereby permitting the copies to be made on loose sheets, the paper being cut of a length to suit each particular letter.

A further object is the provision of a copy press with which the letter can be given one or more impressions before removing the copy therefrom.

Other objects of the invention will be apparent from the detailed description given herein and the claims appended hereto.

In the drawings wherein a preferable embodiment of my invention is shown and wherein like numerals of reference refer to corresponding parts in the several views, Figure 1 is a perspective view of my improved copy press; Fig. 2 is a longitudinal section of the same; Fig. 3 is a front elevation; Fig. 4 is a detail sectional view showing one of the side rails and the platen, and Fig. 5 is a perspective view of the platen.

Referring now more particularly to the drawings, the frame of my machine comprises the two side rails A, A, and the connecting end pieces B, B. The side rails A, A, are provided at their front ends with the elevated bearing lugs *a*, *a*, in which is journaled a rubber copying roller C, which is provided with a crank C′ for operating the same.

Journaled in the side rails A directly below and parallel to the copying roller C is a small metal bearing roller D. The roller D is so spaced from the rubber copying roller C as to give a suitable impression to the platen E, which works therebetween. The said platen is made of thin metal having its side edges provided with the depending flanges *e*, which serve to strengthen the same. The flanges, *e*, when the platen is secured in position between the copying roller C and the supporting roller D, fit snugly against the ends of said supporting roller, thereby preventing any lateral movement of said platen during the operation of the machine. The rear end of the platen E is provided on opposite sides with laterally projecting lugs, *e′*, which project into the longitudinally disposed slots *a′*, formed in the inner sides of the side rails A, A, and serve to support the platen in a horizontal position. The slots *a′* are of such a length that the lugs *e′* on the platen E will abut against the ends thereof before the front end of the platen has been drawn from between the rollers C and D, thereby preventing the accidental displacement of the same during the operation of the machine. The rear end of the platen is beveled off to form a cutting edge *c*, for a purpose to be hereinafter more particularly set forth.

Secured in the frame of the machine is a feed roll F, adapted to contain a supply of copying paper, a dampening roll G, mounted adjacent the feed roll F, a water receptacle H, partially surrounding said dampening roll G, and a delivery roll I, mounted adjacent to and contacting with the dampening roll G. Inasmuch as these parts form no part of the present invention, but are fully described and claimed in my former application, of which this is a division, I will not give a detailed description of these parts herein. The copying paper extends from the feed roll F under the dampening roll G and over the delivery roll I.

The operation of my improved copy press is as follows: The crank C′ is first operated to turn the copying roll, which will cause the platen to move rearwardly to the extent of its movement; the letter to be copied is then placed on the platen with the printed side up; the delivery roll I is then actuated to draw out as much of the dampened paper as is necessary to make the required copy; the dampened paper is then drawn backwards against the cutting edge *e²* of the platen E, and then by pulling quickly to one side the sheet is cut off; the sheet thus obtained is then placed over the letter to be copied, and by turning the crank C′ of the copying roller C the platen will be drawn between the

rollers C and D to make the copy, the lugs e', on the rear end of said platen serving to limit its forward movement. If desired the copy can then be removed from the letter or by reversing the direction of the crank C' the platen can be returned to its normal position before removing the letter and copy.

I do not wish to limit myself to the precise form shown in the drawings as it is obvious that many minor changes might be made thereto without departing from the spirit of the invention.

Having thus described the invention what is claimed as new and desired to be obtained by Letters Patent is:—

1. In a copy press, a frame, a pair of superposed rolls mounted in said frame, and a platen secured in said frame for longitudinal movement between said rolls and in frictional engagement therewith, said platen being provided at its edges with flanges adapted to overlie the ends of one of said rolls to prevent lateral movement thereof.

2. In a copy press, a frame, a pair of superposed rolls mounted in said frame, a platen secured in said frame for longitudinal movement between said rolls, said platen being provided at its edges with flanges adapted to overlie the ends of one of said rolls, and with lugs adapted to engage with a portion of the frame to limit the longitudinal movement of said platen.

3. In a copy press, a frame comprising a pair of longitudinally slotted side rails, a supporting roll secured in said frame, a platen resting upon said supporting roll and provided on opposite sides with lugs engaging the slots in the side rails, and a copying roller secured in said frame above said platen and in frictional engagement therewith.

4. In a copy press, a frame, paper feeding and dampening mechanism mounted in said frame, a platen mounted for reciprocatory movement in said frame, and a copying roller mounted in said frame and adapted to coöperate with said platen, one end of said platen being sharpened to form a cutting edge, as and for the purpose set forth.

5. In a copy press, a frame, a platen mounted to reciprocate therein, a copying roll mounted in said frame and in frictional engagement with said platen to impart a longitudinal movement thereto, means for preventing lateral movement of said platen during its longitudinal movement, and means for limiting the longitudinal movement of said platen.

6. In a copy press, a frame, comprising a pair of longitudinal slotted side rails, a supporting roll secured in said frame, a platen supported on said supporting roll and provided at its edges with downwardly extending flanges adapted to fit snugly against the ends of said supporting roll to prevent lateral movement of the platen thereon and at its rear end with lugs engaging the slots in the side rails, and a copying roller secured in said frame above said platen.

7. In a copy press, a frame, a pair of superposed rolls mounted in said frame, a platen in frictional engagement with said rolls and longitudinally movable therebetween and means for maintaining said platen in a horizontal position during the travel between said rolls.

8. In a copy press a frame, a supporting roll journaled therein, said frame being provided with supporting portions, a longitudinally movable platen adapted to rest on the supporting rolls and the supporting portions of the frame and a copying roll journaled in said frame above said platen and in frictional engagement therewith.

9. In a copy press, a frame, a pair of superposed rolls mounted in said frame, and a platen in frictional engagement with said rolls and longitudinally movable therebetween said frame being provided with portions arranged to underlie said platen and support the same during its longitudinal movement.

10. In a copy press, a frame, a platen mounted in said frame and provided with a cutting edge at its outer end, a copying roll in frictional engagement with said platen, and paper feeding instrumentalities including a pair of rolls in frictional engagement positioned adjacent the outer end of said platen.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES ELLSWORTH ADAMSON.

Witnesses:
FLOSSIE KNEPPER,
J. H. BABER.