

D. G. COPPIN.

Copying-Press.

No. 129,321.

Patented July 16, 1872.

Fig 1.

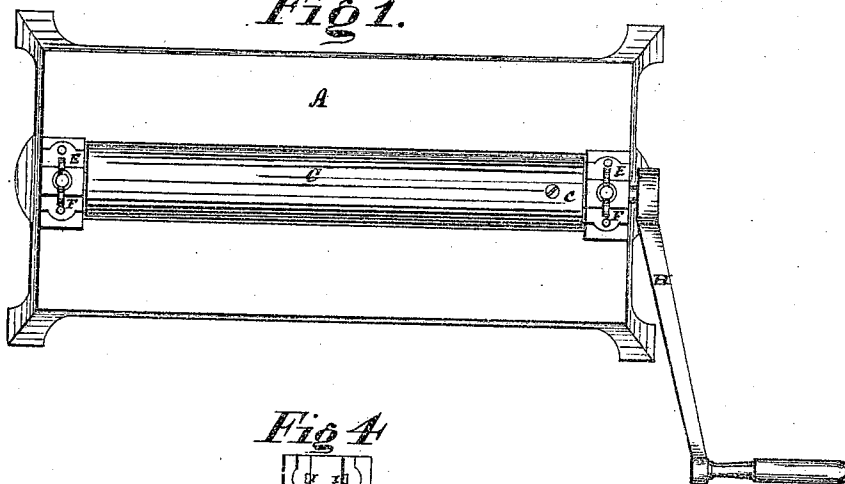


Fig 4.



Fig 2.

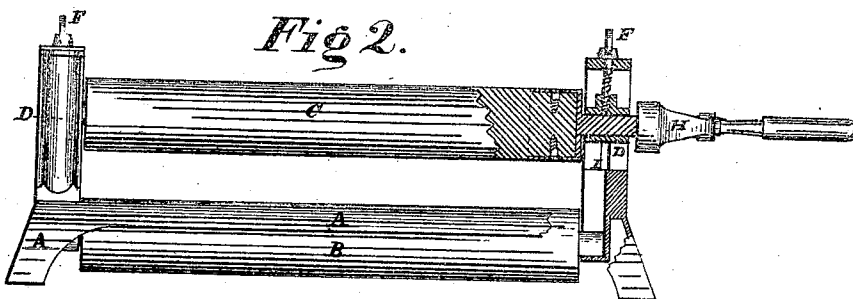
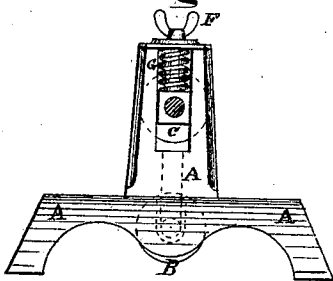


Fig 3.



Attest.

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UNITED STATES PATENT OFFICE.

DANIEL G. COPPIN, OF CINCINNATI, ASSIGNOR TO WILLIAM RUNYON AND GEORGE L. McMILLAN, OF CLEVELAND, OHIO.

IMPROVEMENT IN COPYING-PRESSES.

Specification forming part of Letters Patent No. 129,321, dated July 16, 1872; antedated July 9, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, DANIEL G. COPPIN, of Cincinnati, in the county of Hamilton and in the State of Ohio, have invented an Improvement in Copying or Letter Presses; and do hereby declare that the following description, taken in connection with the accompanying plate of drawing, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from others of a similar class, together with such parts as I claim and desire to secure by Letters Patent.

The nature of my invention relates to the arrangement of two rollers in a vertical position, one above the other, the upper roller to revolve in adjustable bearings while the lower roller revolves in fixed bearings attached to the housings placed at either end of the base or support, the whole to form a machine with which written letters may be transferred to the blank-book provided for the purpose by the passage of the book between the rollers, the usual moistening of the leaves of the blank-book being necessary in the use of the above-described machine.

Figure 1 is a plan of machine. Fig. 2 is a longitudinal elevation. Fig. 3 is a transverse elevation. Fig. 4 is a plan of one housing.

A is a base for the support of the housings on either end, which are provided with grooves to guide vertically the adjustable bearings D D, and are also provided at the lower ends with fixed bearings in which revolve the lower roller B, which is of wood, and provided at either end with a journal of the same material. The upper roller C is also a wooden roller, provided with a combined sleeve and journal of metal, the journal being lengthened sufficient to receive the crank H, the sleeve being secured to the roller by means of a series of wood screws. The bearings D D for the upper roller are guided by the grooves I in the housings, when raised or depressed by the thumb-nuts F F, which are passed down through the caps E E of the

housings and enter, by the screw-threads on them, the bosses on bearings D D, which have an internal thread provided to receive them. The spiral steel springs G being placed between the caps E and bearings D, give sufficient tension or pressure downward to make the impression also adjust itself at all times to any unevenness of the book when passed between the rollers.

In order to produce a good legible copy of a letter with this machine, moisten, as usual, and dry out the leaf. Place the letter in position, close the book, and by revolving the upper roller pass the book between the rollers once, and the letter will be both expeditiously and correctly copied.

I do not now propose to claim broadly a copying or letter press composed of a pair of rollers through which the book is drawn to take the copy, as I am well aware that this is shown in rejected applications on file in the Patent Office; but my machine contains novel features relating to the details of construction, which render it valuable and a practical success.

The principal improvement introduced consists in such a construction of the frame-work that the rollers, being formed with fixed journals, may be hung in the housings and removed therefrom without requiring a change in the relative positions of such housings, which enables me to cast the latter in one piece with the base. This is accomplished by making the housings bifurcated to form ways for the vertically-adjustable bearings of the upper roller, as well as passages for the journals of the lower roller to or from their fixed bearings, which are of stirrup-form, and are cast on the base beneath the slots in the housings.

The machine thus constructed constitutes a press of greater simplicity and compactness than any one of this class heretofore made or proposed.

What I claim, and desire to secure by Letters Patent, is—

A copying-press combining in its construction the following elements, viz.: a base by which it may be attached to the horizontal

surface of a table, vertically-bifurcated and parallel housings cast in one piece with the base, a roller turning in fixed stirrups cast on the base beneath the slots in the housings, and a roller the bearings of which are adjustably suspended by set-screws and acted upon by springs, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 22d day of February, 1871.

DANIEL G. COPPIN.

Witnesses:

JOSEPH C. BENDER,
C. S. BETTS.