E. H. T. C. RATH.
Copying-Press.

No. 202,756. Patented April 23, 1878.

Fig. 1.

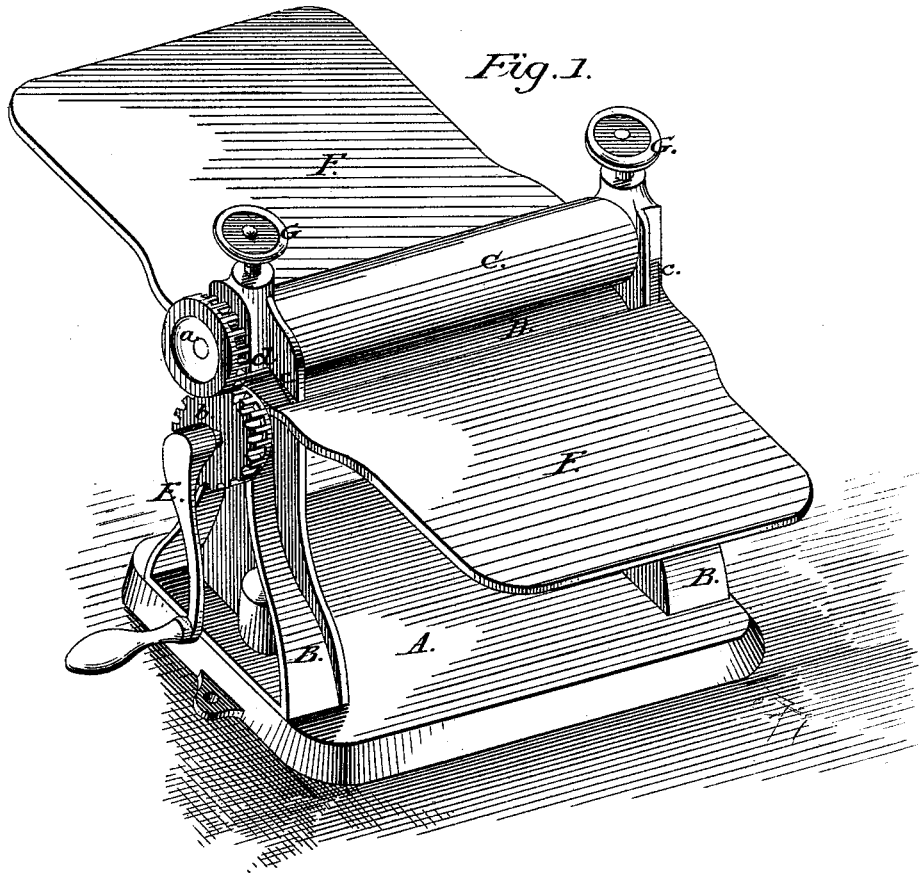
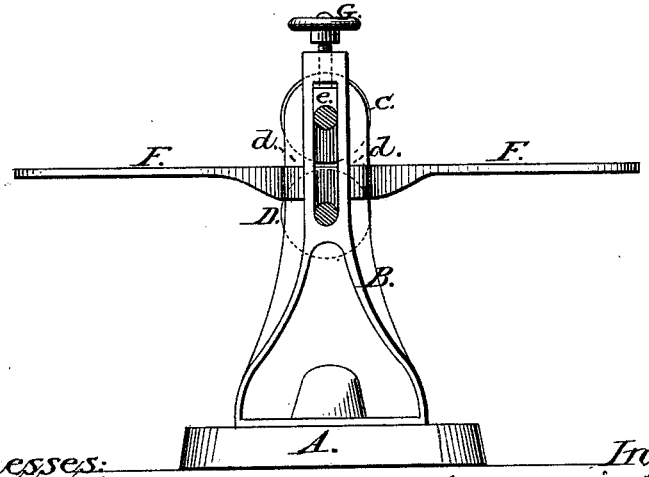


Fig. 2.



Witnesses:
Edw. W. Down
L. M. Dungan

Inventor:
Edward H. T. C. Rath.
By Parker W. Burnett Jr. & Co
Atty's

UNITED STATES PATENT OFFICE.

EDWARD H. T. C. RATH, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN COPYING-PRESSES.

Specification forming part of Letters Patent No. **202,756**, dated April 23, 1878; application filed April 3, 1878.

To all whom it may concern:

Be it known that I, EDWARD H. T. C. RATH, of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Copying-Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 represents a perspective view of my complete invention, and Fig. 2 a detail view of the same.

Similar letters of reference occurring on the several figures indicate corresponding parts.

My invention relates to an improved device for taking impressions or copies of written matter; and it consists of a metallic base or stand, having vertically-slotted standards, at the upper part of which are journaled a lower wooden roller and an upper flexible roller, each being provided with cog-gearing and operated by a suitable crank or handle, said standards being also provided with projecting tables or platforms, all as will be hereinafter more fully described, and pointed out in the claim.

Referring to the drawings, A represents the metallic stand, provided on each side with vertically-slotted standards B, in which are journaled the upper flexible roller C and lower wooden roller D, each being provided with cog-gearing *a b* on one side, and adapted for operation through the medium of the crank or handle E.

The projecting tables or platforms F are arranged at the front and rear of the rollers, and are provided on their inner lower ends with lugs *c*, which fit into correspondingly-shaped sockets *d*, formed on the standards B during the process of casting the same. The upper surfaces of the tables or platforms F, which are employed for supporting the matter to be copied, are arranged on a level with the upper surface of the lower wooden roller D, the upper flexible roller C being adapted to move up and down in the vertical slot in the standards B, to correspond to the thickness of the material which is to be passed between the rollers, suitable pressure being applied to the upper flexible roller C by means of the thumb-screws G in the upper part of standards B operating upon the sliding bearing *e* upon the upper part of the journals of the flexible roller C.

The construction of my invention being as already described, it will be observed that in the operation of the same the written matter is first placed upon a sheet of oiled paper or bristol-board, and the thin dampened sheets of paper upon which the impression or copy is to be taken placed over that, and another sheet of oiled paper over the whole, which is then run between the two rollers C D by operating the crank E, thereby securing a perfect fac-simile of the written matter, and in any desired number.

In place of the two rollers C D, I contemplate using, if deemed desirable, two upper flexible rollers and two wooden rollers beneath, and so adjust the upper flexible rollers as to permit of the easy passage between the upper and lower rollers of an ordinary letter-press book, so as to enable me to secure impressions or copies of written matter in a bound volume or book. The pressure requisite for securing an even copy or impression can be regulated at will by means of the thumb-screws G.

The advantages of my invention, particularly where rapid copying of manuscript, letters, or other written matter is desirable, will be readily apparent without a more minute description, inasmuch as it combines, in its construction and operation, a high degree of simplicity and economy with a ready adaptation to the purpose contemplated.

I am aware that the arrangement of an upper and lower roller in suitable bearings, and operated by a crank for copying purposes, is not new in itself; nor do I desire to claim such a construction broadly; but

What I do claim as new and useful is—

In a copying-press constructed as herein described, the combination of the base A, pro-

vided with vertically-slotted standards B, having recesses *d* on both sides, the detachable platforms F F, having lugs *c c*, upper flexible roller C, and lower wooden roller D, cog-gearing *a b*, regulating thumb-screws G, and crank E, the several parts being adapted for operation in connection with each other, substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

EDWARD H. T. C. RATH.

Witnesses:
PARKER H. SWEET, Jr.,
GEO. F. GRAHAM.