

(146.)

ARTHUR LE CLERCQ.

Copying Press.

No. 122,265.

Patented Dec. 26, 1871.

Fig. 1.

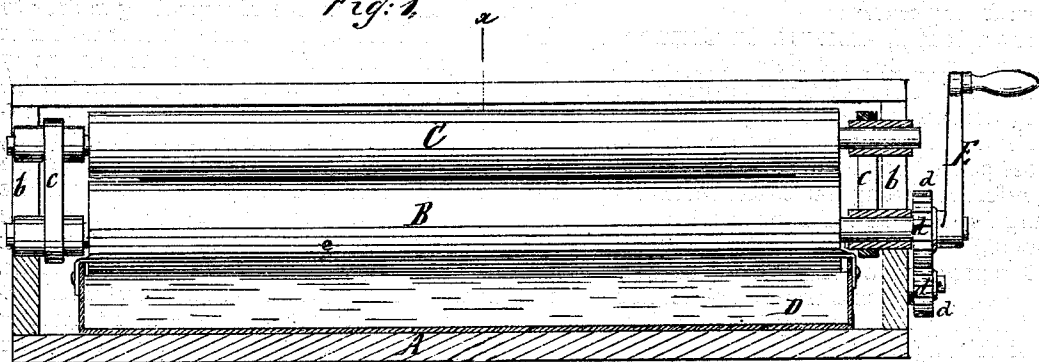


Fig. 2.

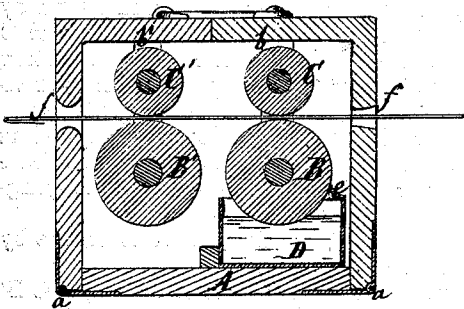
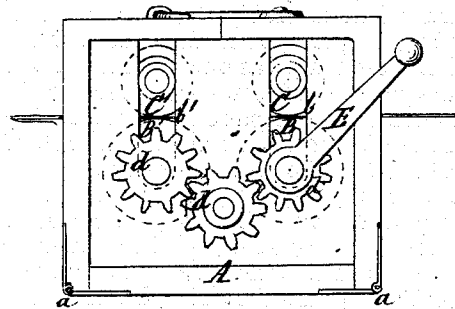


Fig. 3.



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# UNITED STATES PATENT OFFICE.

ARTHUR LE CLERCQ, OF NEW YORK, N. Y.

## IMPROVEMENT IN COPYING-PRESSES.

Specification forming part of Letters Patent No. 122,265, dated December 26, 1871.

*To all whom it may concern:*

Be it known that I, ARTHUR LE CLERCQ, of the city, county, and State of New York, have invented a new and Improved Copying-Press; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a longitudinal section of this invention. Fig. 2 is a transverse section of the same in the plane  $x x$ , Fig. 1. Fig. 3 is an end view of the same.

Similar letters indicate corresponding parts.

This invention consists in the combination of two pairs of rollers connected by gearing, one pair for moistening the paper and the other for producing the impression, with a tank containing water, for a purpose hereinafter mentioned.

In the drawing, the letter A designates a box made of cast-iron or any other suitable material, and constructed in several parts, which are connected by hinge-joints  $a a$ , so that the box can be opened or closed at pleasure. In each end of this box are made two slots,  $b b'$ , to receive the gudgeons or axles of two pairs of rollers, B C B' C'. The rollers B C form the moistening-rollers and the rollers B' C' the pressing-rollers, the rollers C and C' being depressed upon the corresponding rollers B and B' by means of springs  $e$  of India rubber or any other suitable material, which may be applied to the axles of said rollers, as shown in Fig. 1 of the drawing, or which may be arranged in any suitable manner to produce the desired effect. The rollers B B' are geared together by cog-wheels  $d$ , (see Fig. 3,) so that they revolve in the same direction and with the same circumferential velocity, and the roller B dips into a tank, D, containing water. On one end of the axle of this roller is secured a hand-

crank, E, for the purpose of imparting motion to the same, and through it to the whole number of rollers, the rollers C C' being made to revolve by friction against the corresponding rollers B B'. The surplus water taken up by the roller B is removed by a scraper,  $e$ , fastened on the tank D, and bearing against the circumference of the roller B. This scraper may be made of India rubber or other yielding material, or it may be made of a thin strip of sheet metal. The rollers B C B' C' are, by preference, covered with India rubber or other soft, elastic, and water-proof material, so that the same will take a firm hold of the paper passing through between them, and that they will not be saturated with water. In the sides of the box A are two slots,  $f f'$ , Fig. 2, one for the admission of the copy and copying-sheet and the other for the discharge thereof.

When the tank E has been filled with water and the box is closed the press is ready for operation. The copying-sheet is spread on the manuscript, its end being turned over the edge of said copy, as indicated in Figs. 2 and 3, and by placing the two sheets between the rollers B C and turning the crank E in the proper direction said sheets are carried through between the rollers B C B' C'. While passing through between the rollers B C the paper is moistened, and as the two sheets pass through between the rollers B' C' the writing is transferred to the copying-sheet.

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

The combination of two sets of rollers, B C B' C', with each other and with a tank, D, substantially as and for the purpose herein shown and described.

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Witnesses:

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(146)