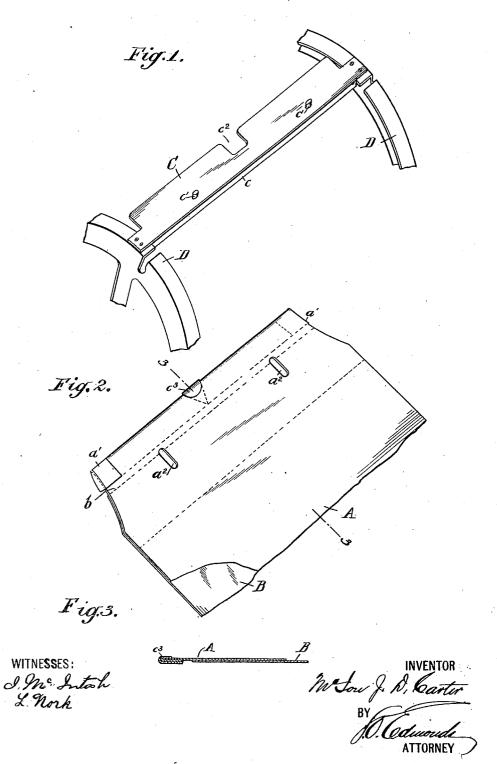
McION J. D. CARTER.

DUPLICATING APPARATUS.

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UNITED STATES PATENT OFFICE.

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DUPLICATING APPARATUS.

No. 830,969.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, McIon James Doug-LAS CARTER, a subject of the King of Great Britain, and a resident of London, England, 5 have invented a certain new and useful Improvement in Duplicating Apparatus, of which the following is a specification.

The invention relates generally to that type of duplicating apparatus in which is em-10 ployed a waxed stencil-sheet through the interstices in which ink is passed for the purpose of imprinting upon a subjacent impres-

The object of the invention is to provide 15 for readily and easily attaching the stencilsheet to the duplicating-machine. To this end I provide the forward end thereof, or of a part to which the waxed sheet is secured, with a pocket formed by means of a rearward fold, preferably with closed ends, and coacting with this I employ a bar secured to the duplicator-drum and having a part adapted to be received within such fold. In connection with such means of attachment I prefer also to employ means for securing accurate registration in the arranging of the sheet, all as hereinafter set forth in detail.

In the drawings, Figure 1 is a perspective view of a portion of a duplicator-drum, showso ing the attachment - bar secured thereto. Fig. 2 is a similar view of the stencil-sheet, and Fig. 3 is a sectional view of said sheet on

the line 3 3, Fig. 2.

The term "stencil-sheet" is used herein 35 broadly and without reference to whether a sheet of waxed porous paper alone be employed or such a sheet associated with another stronger sheet, such as a backing-sheet or a type-protecting tissue-sheet, or both.

For the purpose of the present disclosure I have shown a backing-sheet A of some strength, to which is secured along the line ba waxed stencil-sheet B. The latter may, if desired, be covered with a thin type-protecting sheet (not shown) of the character known in the art. In the forward edge of the stencil-sheet (in the present instance of the backing A) I form a fold a by turning such edge backward. Also, if desired, the side edges adjacent to such forward edge may be turned over laterally upon the fold, as shown at a' a', to form such fold into a pocket.

C designates a bar extending between and connected at its ends to the heads D D of the tion of a stencil-sheet having its forward edge

This may have the angu- 55 duplicator-drum. lar strengthening-flange c, if desired. In order to secure the advancing edge of the stencil-sheet in position, the same may be laid over the bar C and drawn rearwardly, whereupon said bar will enter the fold or pocket at 60 such edge and firmly hold the same in posi-The rearward end of said sheet may be secured in any suitable manner, or, if desired, the ink below such sheet may be relied upon to keep it in position on the drum.

For the purpose of securing accurate registration I may, if desired, provide the bar C with study c' c', adapted to coact with slots a^2 a^2 , formed in the stencil-sheet. The latter may be of any desired shape and relatively to 70 the edge of the sheet; but I prefer to make them of such dimensions and arrangement relatively to the fold in the forward edge of the stencil-sheet as that the studs c' c' will coact therewith only when said fold is in en- 75 gaging position relatively to the bar C. Whether this practice be observed or not the coaction of the studs and slots or other openings properly positions the stencil-sheet laterally upon the drum.

If desired, the bar C may be cut away at c^2 and the forward (folded) end of the stencilsheet may be provided with a clip c^3 , holding the two parts of the fold together and preventing injury to such fold either while ad- 85 justing the stencil-sheet upon the drum or previously thereto.

Having now described my invention, what I claim as new therein, and desire to secure

by Letters Patent, is as follows: 1. In duplicating apparatus, a stencil-sheet having its forward end folded downward and rearward, the ends of the fold being closed, and openings in the sheet rearward of said fold, substantially as described.

2. In duplicating apparatus, a stencil-sheet having its forward end folded downward and rearward, the ends of the fold being closed, substantially as described.

3. In duplicating apparatus, the combina- 100 tion with a drum having a cross-bar, of a stencil-sheet having its forward end folded downward and rearward, and means closing the ends of said fold, said bar being adapted to engage said fold, substantially as de- 105

4. In duplicating apparatus, the combina-

folded downward and rearward, the extreme edge thereof being unsecured to the body of the sheet, means closing the ends of said fold, a drum, and a cross-bar thereon having a tongue adapted to enter the pocket formed by said fold to secure the stencil-sheet to the drum, substantially as described.

5. In duplicating apparatus, the combination of a stencil-sheet having its forward edge folded downward and rearward, the extreme edge thereof being unsecured to the body of the sheet, means closing the ends of said fold, a clip holding the fold and body portion to-

a clip holding the fold and body portion together at a point intermediate said ends, a 15 drum, and a cross-bar thereon having a slotted tongue adapted to enter the pocket formed by said fold to secure the stencilsheet to the drum, substantially as described.

6. In duplicating apparatus, the combination of a stencil-sheet having its forward edge folded downward and rearward, the extreme edge thereof being unsecured to the body of the sheet, said sheet having slots therein, means closing the ends of said fold, a drum, a cross-bar thereon having a tongue adapted to enter the pocket formed by said fold to secure the stencil-sheet to the drum, and studs on said cross-bar adapted to enter the slots in said sheet to position the sheet relatively to the drum, substantially as described.

This specification signed and witnessed

this 10th day of May, 1905.

McION JAMES DOUGLAS CARTER.

Witnesses:

H. D. Jameson, F. L. Rand.