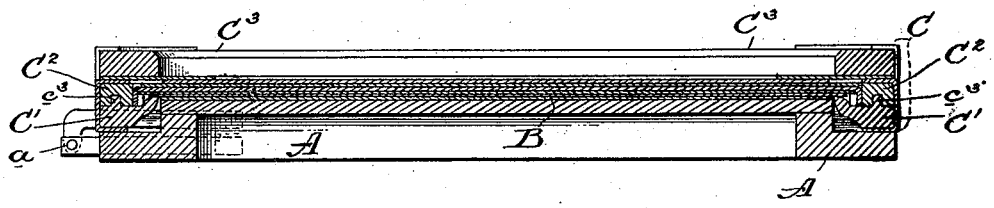
(No Model.)

J. O. DECKERT.

INKING DEVICE FOR DUPLICATING MANUSCRIPTS.

No. 523,737. Patented July 31, 1894.

FIG. 1.



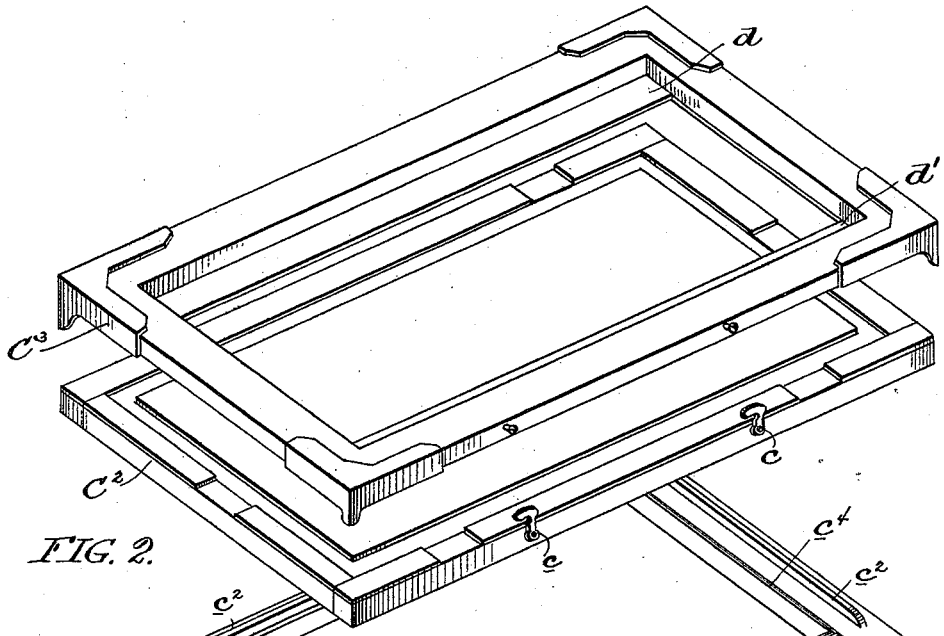


FIG. 2.

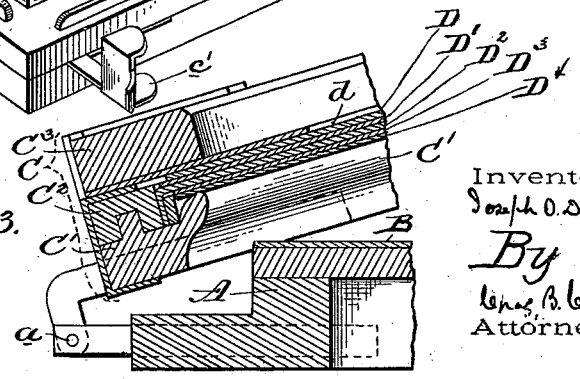


FIG. 3.

Witnesses;
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Inventor.
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UNITED STATES PATENT OFFICE.

JOSEPH O. DECKERT, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE WILLIAM MANN COMPANY, OF SAME PLACE.

INKING DEVICE FOR DUPLICATING MANUSCRIPTS.

SPECIFICATION forming part of Letters Patent No. 523,737, dated July 31, 1894.

Application filed April 7, 1894. Serial No. 506,668. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH O. DECKERT, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Inking Devices for Reproducing or Duplicating Manuscripts, Printing Designs, and other Like Matter, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof, in which—

Figure 1 is a longitudinal section. Fig. 2 is a detached perspective view, and Fig. 3 an enlarged sectional view of a portion of my device, similar to that shown in Fig. 1, but with the upper part of the frame raised to admit the paper to be impressed or printed upon.

The distinguishing features of my invention consist in the fact that I dispense with the use of an inked-roller, substituting therefor a pad of suitable material adapted to receive, retain and distribute the ink applied to it, and so arrange and combine such pad with my device as that the same is protected from contact with the atmosphere, so that I thus avoid the objections and defects incident to apparatus heretofore employed for analogous purposes. And by means of my invention I am, at the same time, enabled to effect a large saving in ink, and can produce a far greater number of impressions from a given quantity of ink, and of better quality than can be produced in devices heretofore employed for this purpose. Again, by reason of the novel construction of my device I obtain an inking-pad that can be readily and conveniently removed from the device and replaced by another of similar construction, and supplied with ink of different color, as may be desired.

Referring to the drawings, A is a frame work having mounted upon its upper surface a thin plate B, of lead, or other like material. At the rear of the frame A is a hinge *a* which connects the frame A with the upper frame-work or cover C, which latter consists of three sections C′, C^2 and C^3 respectively. Within the section C^2 I construct a pad composed of the inking-pad, proper, and a series of protecting and inclosing strata or layers, upon the lower one of which is placed a previously prepared stencil. The first layer D, is composed of flexible and impervious material, preferably soft rubber, which is held securely in place by the longitudinal strips *d d′*, attached to the lower side of frame C^3 and which are made, preferably, of flexible material such as strips of brass. Next to the layer D, I place, preferably, successive layers of silk, or bolting cloth D′, pad D^2 of felt, employing preferably "German felt" next silk, or bolting cloth D^3, and next a layer of fiber paper D^4, against which the previously prepared stencil is laid. The margin of pad D^2, which constitutes the inking-pad proper, is firmly confined within the sides of frame C^2 by metal strips d^5, which constitute a frame work somewhat smaller than C^2.

The ink which is applied to pad D^2 prior to operating the device will cause the different layers of material above referred to to adhere closely to said pad D^2. The frame C^2 which contains these layers is then firmly secured to the frame C^3 by means of latches *c* on either side of the frame C^2. The frame C^2 is now placed upon the frame C′, and firmly secured thereto by clamps *c′* on each side of the frame C′. It will be noticed that the frame C′ has upon its upper surface the projecting pieces c^2 which enter the recesses c^3 in the lower side of the frame C^2. The frame C′ is also provided with a ledge c^4 which presses firmly against the stencil.

The operation of the device is as follows:—The paper upon which the impression is to be made is placed upon the plate or platform B and the frame C then closes upon the frame A; pressure is then applied by a roller, or other suitable means, to the pad D and the flexible strips *d* and *d′* which forces the ink that has been previously applied to the inking pad D^2, through the stencil and causes the impression to be made upon the paper placed upon the plate B.

The composite pad, so constructed, serves to distribute the ink evenly upon the stencil and this result is aided by the flexible strips *d* and *d′* when pressure is applied to them and the layer D, since a uniform pressure is thereby effected.

It is not essential that the layers of silk, or bolting cloth D′ and D^3 should be employed,

but I prefer to use them since they aid in excluding the atmosphere from contact with the inking pad, proper D^2.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a device for reproducing printing &c., a composite pad consisting of a flexible impervious sheet, an inking pad, proper, of felt, or other suitable material capable of receiving and containing ink, a sheet of fibrous material and a perforated sheet, or stencil, arranged in the order stated, contained in and supported by a frame, as C^2, in combination with flexible strips, as *d*, *d'*, adapted, in connection with said impervious sheet, to directly receive and equalize the pressure applied to the pad, substantially as and for the purpose described.

2. In a device for reproducing printing &c., a lower frame adapted to support the paper to receive the impression, an upper frame adapted to fold thereover, a composite pad consisting of a flexible impervious sheet, a sheet adapted to receive and contain the ink, a sheet of fibrous material and a perforated sheet, or stencil, arranged in the order stated, and flexible strips adapted to receive the pressure applied to the pad and distribute the same, all arranged and combined substantially as and for the purpose described.

In testimony whereof I have hereunto set my signature in the presence of two subscribing witnesses.

JOSEPH O. DECKERT.

Witnesses:
GEO. W. REED,
CHAS. C. COLLIER.