

No. 798,800.

PATENTED SEPT. 5, 1905.

A. D. KLABER.
STENCIL DUPLICATING APPARATUS.
APPLICATION FILED JAN. 14, 1905.

Fig. 1,

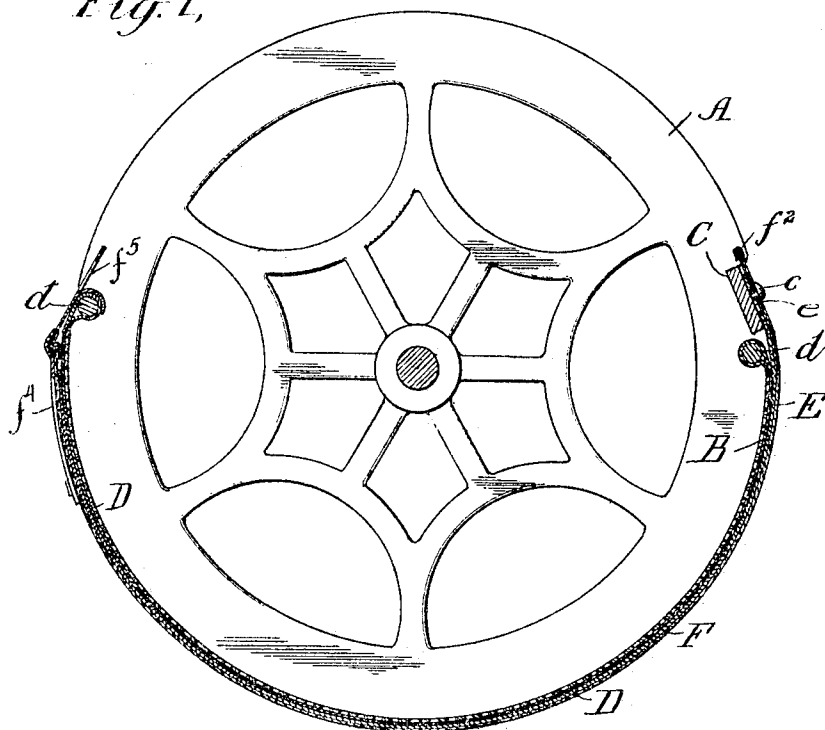
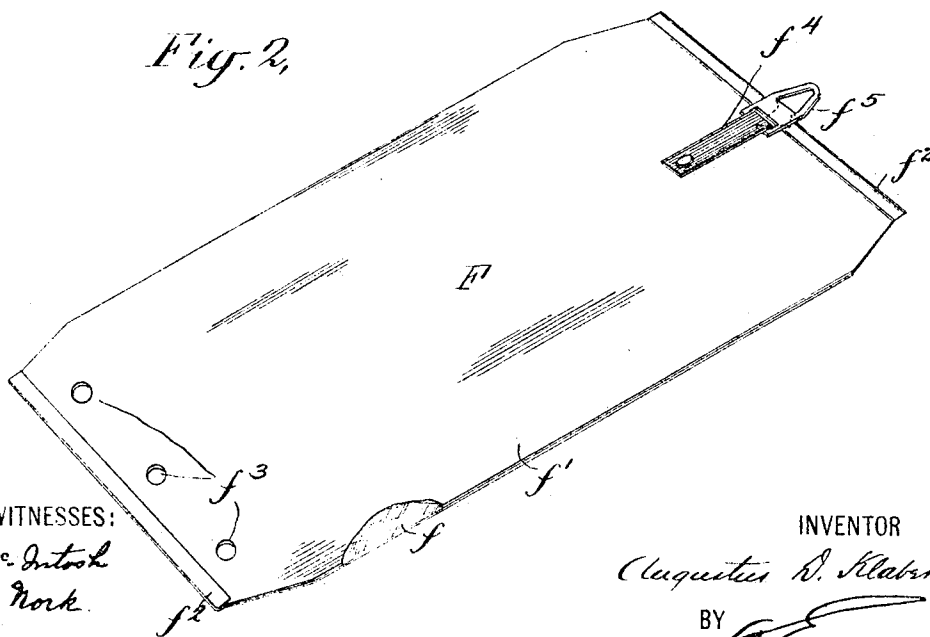


Fig. 2,



WITNESSES:
J. M. Dutch
L. Nork.

INVENTOR
Augustus A. Klaber
BY
J. P. Edwards
ATTORNEY

UNITED STATES PATENT OFFICE.

AUGUSTUS D. KLABER, OF LONDON, ENGLAND, ASSIGNOR TO A. B. DICK COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

STENCIL-DUPLICATING APPARATUS.

No. 798,800.

Specification of Letters Patent.

Patented Sept. 5, 1905.

Application filed January 14, 1905. Serial No. 241,070.

To all whom it may concern:

Be it known that I, AUGUSTUS D. KLABER, a subject of the King of Great Britain, and a resident of London, England, have invented a certain new and useful Improvement in Stencil-Duplicating Apparatus, of which the following is a specification.

The present invention relates particularly to that type of duplicating apparatus in which is employed a rotating or oscillating drum upon the surface whereof is secured the stencil-sheet bearing the characters to be imprinted upon a suitable impression-sheet. In machines of this type now in use it is common to employ a drum provided with a stencil-carrier of foraminated material, upon the exterior whereof is secured an ink-pad, over which the stencil-sheet is secured in position, ink being supplied to such stencil and pad through the interstices in the foraminated carrier. An objection which has heretofore been experienced in apparatus of this type concerns the drying or fouling of the exposed surface of the ink-pad or of a stencil-sheet thereon which has been used for the duplicating operation. If after a stencil-sheet has been so used it is desired to suspend the duplicating operation and resume the same later on with the same stencil-sheet, there is danger that the ink will become caked in the interstices in such sheet and that in addition the same will be fouled by the settling of dust thereon. This is equally true as to the ink-pad if the stencil-sheet be removed therefrom.

The object of the present invention is to provide means whereby either the ink-pad or the stencil-sheet thereon (or both) may be protected when the machine is not in use. To this end I have devised a protecting-cover which may be of substantially the size of the foraminated stencil-carrier and of the ink-pad and stencil-sheet adapted to be secured thereon, and such protecting-cover I provide with securing devices, preferably at either end thereof, whereby the same may be readily and quickly applied in position over the stencil-sheet or ink-pad and as readily and quickly removed. In operation such cover prevents both the drying and fouling of the ink on either the stencil-sheet or pad and in addition tends to oppose the collection of ink by the action of gravity at the lowest portion of the pad.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a central vertical section of the drum of a stencil-duplicating machine provided with an ink-pad and stencil-sheet and the protective cover of this invention, and Fig. 2 is a perspective view illustrating the protective cover detached from the drum.

Referring to the drawings, it will be seen that the drum comprises two heads A, connected by the stencil-carrier B, of foraminated material. Said drum may be provided with means, such as a button-bar C, for securing a stencil-sheet in position, said bar having on its upper surface buttons or projections *c*, adapted to coact with slots or orifices in the forward edge of the stencil-sheet.

D designates the ink-pad. This preferably takes the form of an endless band of textile material and may be secured in position on the drum and over the stencil-carrier B in any suitable manner. A common method of so securing such a pad is illustrated in the drawings and comprises a headed rod *d* at each end of the pad, the ends of said rods being received in jaws or notches formed in the heads A of the drum.

E designates the stencil-sheet, and this is here shown as secured in position by the means above referred to—*i. e.*, orifices or slots in the forward end of such sheet coacting with projections *c* upon the button-bar C.

F designates the protective cover of this invention. This may take any suitable form adapted to conduce to the results above specified. In the present case I have shown such cover as comprising an inner layer of textile material *f* and an outer layer *f'* of oil-cloth or similar material impervious to the passage of ink. These two layers are here shown as bound together at their ends by binding-strips *f''*, which may be of metal or other suitable material. At each end the protective cover F is provided with means for detachably securing the same to the drum, and such means may be the same in construction at both ends or different, as desired. In the present instance I have shown the forward end of such cover as provided with orifices or slots *f'''*, adapted to coact with the buttons *c* on the button-bar C, as in the case of the stencil-sheet E. Also in the present case I have shown the rearward end of said cover as provided with an

attaching means comprising an elastic strip f^4 , one end whereof is secured to the exterior of said cover, the other end being secured to a catch f^5 , having an intumed tongue adapted to coact with the rearward rod d , holding the corresponding end of the ink-pad D in position upon the drum.

As will be seen, the protective cover F may be readily attached and detached from the drum, and this whether a stencil-sheet be in position upon the ink-pad or stencil-carrier or not. It will also be seen that said cover completely overlies and protects the entire exposed surface of the ink-pad or the stencil-sheet, that it adequately protects the same both from the action of the air and from the settling of dust thereon, and finally that it precludes the dripping of ink from the drum to that portion of the mechanism underlying such drum—as, for instance, the feed-bed, impression-roll, or delivery-tray commonly used in machines of this type.

Having now described my invention, what I claim as new therein, and desire to secure by Letters Patent, is as follows:

1. In stencil-duplicating apparatus, the combination with a drum having a foraminated stencil-carrier, a stencil-sheet supported thereby and means for supplying ink to such stencil-sheet, of a flexible protective cover for

said carrier and the sheet thereon, and means for detachably securing the same in position upon said drum, substantially as set forth.

2. As a new article of manufacture for use in connection with stencil-duplicating apparatus, a protective cover of material impervious to ink, and an elastic securing device therefor, substantially as set forth.

3. As a new article of manufacture for use in connection with stencil-duplicating apparatus, a protective cover comprising an inner layer of textile material and an outer layer of material impervious to ink, and a securing device at either end thereof, substantially as set forth.

4. As a new article of manufacture for use in connection with stencil-duplicating apparatus, a protective cover comprising an inner layer of textile material and an outer layer of material impervious to ink, said layers being secured together, and a securing device at either end of said cover, substantially as set forth.

This specification signed and witnessed this 21st day of December, 1904.

AUGUSTUS D. KLABER.

Witnesses:

H. D. JAMESON,
F. S. RAND.